

NATURE ROAD TRIPS P.50

PHOTOSHOP
RAW 6 EASY
STEPS P.56

POPULAR PHOTOGRAPHY



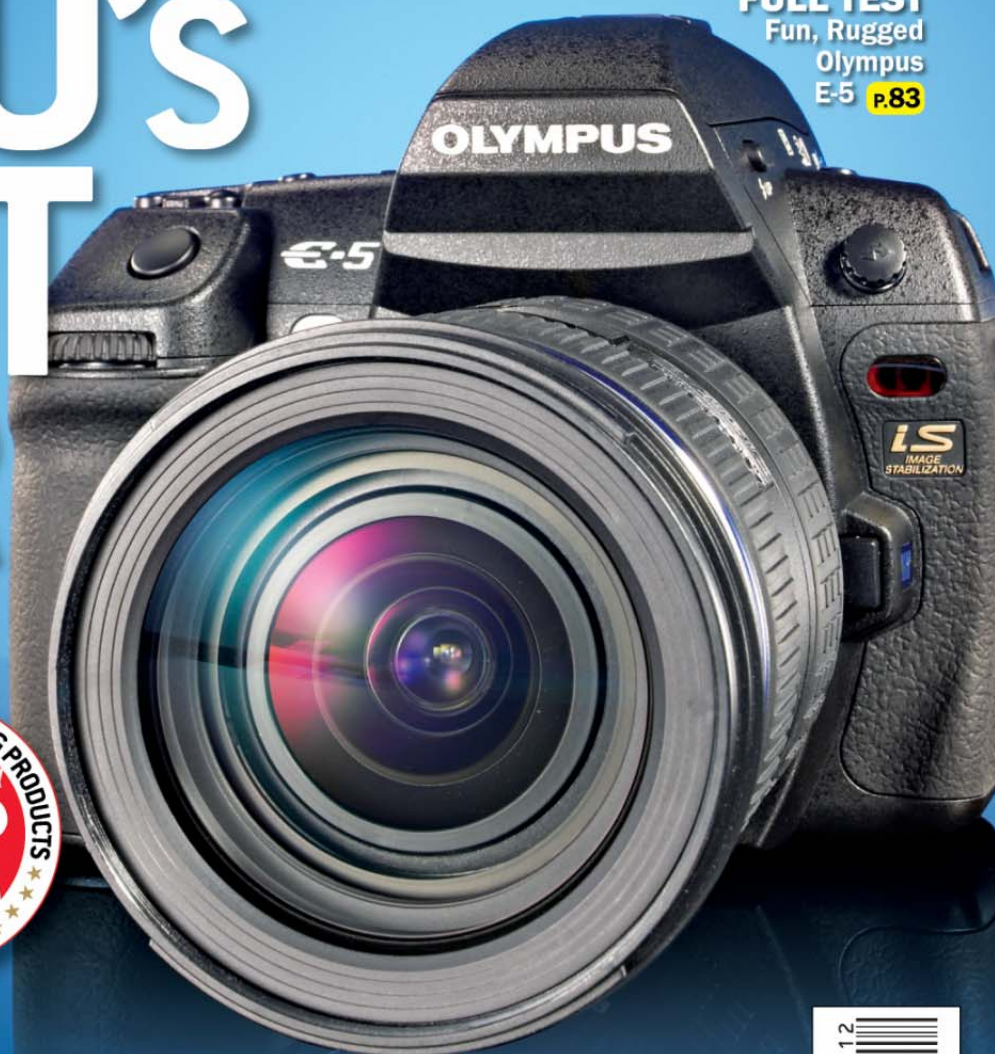
HOW TO MAKE GREAT PICTURES

2010's BEST GEAR

PLUS
FULL TEST
Fun, Rugged
Olympus
E-5 P.83

OUR EDITORS'
TOP PICKS

CAMERAS
LENSES
TRIPODS
AND MORE! P.65



Readers' Gallery P.38



Shoot For Speed P.43



Natural Light Tips P.54



Capture The Surf P.60



Discover Costa Rica P.76



DECEMBER 2010

US \$4.99

The Sony® α 55 allows you to capture the frames between the frames.

10 fps



4 fps



SONY
make.believe

Never wait for your camera to autofocus again.

Stay continually in focus with the new Sony α 55 DSLR. Translucent Mirror Technology™ allows it to focus and capture simultaneously in still or HD movie modes. This makes it the world's first camera in its class to shoot 10 frames per second while maintaining continuous autofocus.

To learn more, visit sony.com/dslr



Sony's latest interchangeable lens cameras, the SLT Alpha A33 and A55 represent a significant technological milestone - not just for Sony but for the enthusiast camera market as a whole." -- DPReview

Speed to Get the Shot



© Jemini Joseph

SanDisk®

You go to extremes to get just the right shot, and with the SanDisk® line of Extreme CompactFlash® and SDHC cards, you'll get that shot, every time. Engineered to be lightning fast, the SanDisk Extreme® Pro™ card has blistering read/write speeds of up to 90 MB/sec* and the SanDisk Extreme SDHC card has speeds up to 30 MB/sec*.

When pros demand extreme speed and reliability, they demand SanDisk Extreme® memory cards.



90 MB/second*
capacities up to 64 GB†



60 MB/second*
capacities up to 32 GB†



30 MB/second*
capacities up to 32 GB†

*Speeds based on SanDisk internal testing performance may be lower depending upon host device. 1 megabyte (MB) = 1 million bytes x=150 KB/sec. †1 gigabyte (GB) = 1 billion bytes. Some capacity not available for data storage.

© 2010 SanDisk Corporation. All rights reserved. SanDisk, the SanDisk logo, CompactFlash and SanDisk Extreme are trademarks of SanDisk Corporation, registered in the U.S. and other countries. SanDisk Extreme Pro and Power Core are trademarks of SanDisk Corporation. SD and SDHC are trademarks of SD-3C-LLC.

CONTENTS

HOW TO MAKE GREAT PICTURES

DECEMBER 2010

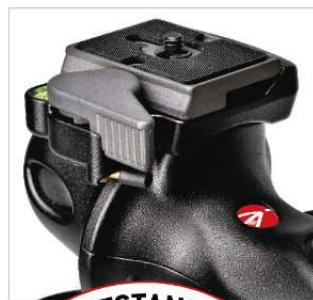
VOLUME 74, NO. 12



FEATURES

65 BEST OF THE BEST In our annual POP Awards for Photography's Outstanding Products, we've honored the most innovative, most useful, and hands-down coolest new gear that we tried—and loved—in 2010.

By the Editors



76 NATURAL WONDERS OF COSTA RICA

Looking for an exotic, ecologically diverse photo destination? You've found it.

By Tim Fitzharris

TIM FITZHARRIS

SLIK

PROFESSIONAL

Durable, Affordable



PRO 780 DX
Max Height: 76.80 in.
Max Load: 15.00 lbs.
Weight: 6.95 lbs.

**SUPER
A.M.T.
ALLOY**

PRO 500 HD
Max Height: 64.9 in.
Max Load: 11.0 lbs.
Weight: 5.91 lbs.

**SUPER
A.M.T.
ALLOY**

SLIK Super A.M.T. alloy uses a mixture of Aluminum, Magnesium and Titanium.

The NEW SLIK PRO 780 DX tripod uses the widely popular PRO 700 DX legs in black color, coupled with a new SH-807E heavier duty 3-Way pan head.

The NEW SLIK PRO 500 HD Tripod with new Hybrid SH-736HD Fluid-Effect pad head was created for use with DSLR's that have HD video capability.

EXCLUSIVE DISTRIBUTION BY:

THK PHOTO PRODUCTS, INC.

Tokina • HOYA • Kenko • SLIK

7642 Woodwind Drive, Huntington Beach, CA 92647

Visit our website for more information at

www.thkphoto.com



NEXT

13 WE WANT THIS The all-weather Pentax K-5 gets a sensor and AF boost.

14 JUST OUT Canon's powerful G12, Nikon's speedy flash, Kodak's film refresh.

18 ROUND UP The five coolest camera bags we saw at Photokina.

SHARE

23 PHOTO CHALLENGE A winning landscape, taken with a compact.

24 I, PHOTOGRAPHER How a young paparazzo shoots the stars.

26 MY PROJECT An artist sets up her press camera in haunted houses.

28 LETTERS You give us an earful about shooting rock and other hot topics.

32 TECH SUPPORT White balance in RAW, flash compatibility, and more.

38 YOUR BEST SHOT The winners found family figures in the animal world.

HOW

43 CREATIVE THINKING Capture the thrill of speeding around a racetrack.

44 FIX IT FAST Bring some light into the shadows of a nighttime city scene.

46 TIPS & TRICKS Filter sunlight the natural way.

48 ESSENTIALS Learn the hidden secrets of resolution.

50 TRAVELING PHOTOGRAPHER Take a road trip—shoot wildlife from a car.

54 LIGHTING For the softest light, all you need is sun and some reflectors.

56 SOFTWARE WORKSHOP Step-by-step for working with RAW files.

60 YOU CAN DO IT Juice your surfing shots with more seascape.

LAB

83 DSLR TEST Olympus E-5 Olympus returns to DSLRs with a rugged flagship that shines in bright light.

92 LENS TEST Olympus Zuiko ED 14-35mm f/2 SWD This excellent lens is the world's fastest standard-range zoom.

94 LENS TEST Tokina AT-X 16-28mm f/2.8 Pro FX All but flawless, this full-framer is in a class of its own.

96 SOFTWARE REVIEW Adobe Photoshop Elements 9 The latest update simplifies retouching.

DON'T MISS...

7 EDITOR'S LETTER

10 SHOWCASE

101 THE GUIDE

120 TIME EXPOSURE

152 BACKSTORY

POPULAR PHOTOGRAPHY (ISSN 1542-0337) (USPS 504-890), December 2010, Volume 74, Issue 12, is published monthly by Bonnier Corporation, 2 Park Ave., New York, NY 10016. Periodicals postage paid at New York, NY and additional mailing offices. Authorized periodicals postage by the Post Office Department, Ottawa, Canada, and for payment in cash. POSTMASTER: Send address changes to Popular Photography, P.O. Box 420235, Palm Coast, FL 32142-0235; www.PopPhoto.com/cs. If the postal service alerts us that your magazine is undeliverable, we have no further obligation unless we receive a corrected address within one year.

Publications Mail Agreement No. 40052054, Canadian Registration Number 126018209RT0001.

Return undeliverable Canadian addresses to: Pitney Bowes, P.O. Box 25542, London, ON N6C 6B2.

SUBSCRIPTION SERVICES: Visit www.PopPhoto.com/cs to manage your account 24/7 or call 1-386-246-0407.

NEWSSTAND COVER: TONY CORDOZA (OLYMPUS); JIM PATTERSON (JELLYFISH); REGIS LEFEBURE (CAR TIRE); RHEA ANNA (PORTRAIT); CHARLES HARRIS (SURFER); TIM FITZHARRIS (OCEAN).
SUBSCRIBER COVER: TIM FITZHARRIS. THIS PAGE: RHEA ANNA (PORTRAIT); TONY CORDOZA (OLYMPUS).

Tokina

PICTURES STOP TIME



Photograph by: *Michael Burnham*
Taken with Canon EOS Rebel and Tokina AT-X 16.5-135 DX lens



AT-X 16.5-135 DX

AF 16.5-135mm f/3.5-5.6

Tokina's compact super zoom is the only lens in its class to start at 16.5mm which offers the photographer a wider window on the world. This makes the lens better suited for scenic and travel photography in addition to being a great all-around lens for most general photography situations.



Available Mounts:
Canon and Nikon Digital Cameras
with APS-C sized sensors

EXCLUSIVE DISTRIBUTION BY:

THK PHOTO PRODUCTS, INC.
Tokina • HOYA • Kenko • SLIK

7642 Woodwind Drive, Huntington Beach, CA 92647
Visit our website at www.thkphoto.com

INTRODUCING A SHOOTING EXPERIENCE LIKE NO OTHER.



55
million
NIKKOR



At the heart of the image™

The amazing 16.2 megapixel Nikon D7000, with 1080p HD Movie. Nikon has once again redefined the passionate shooter's D-SLR: the D7000. With stunning image quality, thanks to a new 16.2 megapixel CMOS DX format sensor; an astonishing low-noise ISO range of 100–6400, and ISO performance up to 25,600 that will enable shooting in extremely low light; continuous shooting of up to 6 frames per second; breathtaking 1080p HD Movie, with full-time autofocus and full manual control; and an extraordinary 39-point autofocus system. Add legendary NIKKOR optics and you've got a D-SLR that will push your abilities further than any enthusiast's camera Nikon has ever created. Period. **For more, go to www.nikonusa.com/D7000**

Nikon® and D7000™ are registered trademarks of Nikon Corporation. ©2010 Nikon Inc.

EDITOR'S LETTER



Get Me That Gizmo

Photographers are gadget hounds, no question about it. From basic clamps to high-precision tripod heads, cable releases to robotic camera mounts, we'll find a reason to need it, even if just for one type of shot. Screen protectors, viewfinder hoods, filter holders (you can never have too many filters), dust blowers—no wonder our camera bags are bulging. Which means it's time to get a new bag...

That's one reason that the editors of Popular Photography included so many accessories in our fifth annual POP Awards for Photography's Outstanding Products (page 65)—more than a dozen of them, if you include everything that's not a camera, lens, or software.

And there were plenty of handy items we discovered this year that didn't win POP Awards. Take, for example, the Flipbac, a hinged mirror that attaches to the back of a camera to allow off-angle viewing of a fixed LCD screen, then flips up to protect it. Another example: Cocoon's Grid-It system, a panel made of woven elastic straps to hold smaller accessories snug and organized—you can see at a glance all the stuff that used to just float loose in your bag.

Many of the gadgets we see represent variations on other gadgets, invented by both pro and amateur photographers who weren't satisfied with the gear they had. Todd Wallis, an avid hunter from Ogden, UT, sent me a camera strap that he's now producing commercially: The Wallis Tactical Sling lets you hang your DSLR snugly across your body and then swing it rapidly to eye level when you shoot. BlackRapid and Sun-Sniper make similar straps—each one is designed slightly differently and offers distinct benefits. The Wallis sling has a spring-loaded metal clamp that lets you adjust the length of the strap itself very quickly and easily.

Some entrepreneurial photographers have built sizeable businesses creating and marketing their innovative gadgets. Witness Gary Fong, whose lighting modifiers for hot-shoe flash have scored big among his fellow wedding and event photographers. Or Craig Strong, the inventor of the Lensbaby, whose frustration with the creative limitations of conventional SLR lenses has led to an entirely new optical category and even, I'd argue, contributed to an aesthetic shift in photography.

Now don't forget to pack the gaffer's tape.

Miriam Lenchler



NEWSSTAND Olympus returns to DSLRs with the fast and rugged E-5, photographed by Tony Cordoza. Read our full test report on **page 83**.

SUBSCRIBER For an incredible diversity of birds, wildlife, and landscapes, head to Costa Rica. Photographer Tim Fitzharris shares his tips on **page 76**.



At the heart of the image™

**SERIOUS SHOOTERS
HAVE NEVER
BEEN KNOWN TO
TRAVEL LIGHT.
UNTIL NOW.**



**THE INCREDIBLE NEW
NIKON COOLPIX P7000.**

Nothing matters more to serious shooters than image quality. So when it comes to a smaller camera, only one measures up: the new Nikon COOLPIX P7000, with a large 1/1.7" CCD sensor, RAW shooting capability, the option of full manual control, NIKKOR ED glass, HD Movie, Nikon Speedlight compatibility and much more. It's the first good reason, ever, to shoot with something other than your D-SLR.

For more, go to www.nikonusa.com/P7000

Marshall Electronics

V-LCD50-HDMI

5" Professional Camera-Top LCD Monitor



- The perfect solution for DSLR and Professional Video Cameras
- High Resolution (800x480) LED-backlit LCD Display
- Professional features includes False Color and Peaking Filters, Pixel-to-Pixel, Image Flip, Freeze Frame, Safe Markers, and more
- Lightweight and compact design - weighs only 0.55 lbs (250g)
- Easily mounts on most cameras (hot shoe adapter included)
- Can be operated in the field with just 4 AA alkaline batteries
- Designed, engineered, and assembled in USA



MarshallMonitors.com

Tel.: 310-333-0606 / Toll Free: 800-800-6608

POPULAR PHOTOGRAPHY

EDITOR MIRIAM LEUCHTER

ART DIRECTOR Jason Beckstead

SENIOR EDITOR Peter Kolonia

SENIOR EDITOR Dan Richards

SENIOR EDITOR Debbie Grossman

TECHNICAL EDITOR Philip Ryan

TECHNOLOGY MANAGER Julia Silber

ASSISTANT EDITOR Lori Fredrickson

ART/PRODUCTION ASSISTANT Linzee Karasik

EDITORIAL COORDINATOR Jae Segarra

CONTRIBUTING EDITORS Tim Fitzharris, Russell Hart, Peter Krause, Neal Matthews, Arthur Morris, Tony Nagatomo, Bryan F. Peterson

POPPHOTO.COM EDITOR Stan Horacek

ASSISTANT ONLINE EDITOR Dan Bracaglia

IN MEMORIAM Herbert Keppler

EDITORIAL DIRECTOR MARK JANNO

VP, PUBLISHING GREGG R. HANO

GROUP DIRECTOR, SALES & MARKETING Steven B. Grune

ASSOCIATE PUBLISHER Anthony M. Ruotolo (212-779-5481)

ASSOCIATE PUBLISHER, MARKETING Michael Gallic

EXECUTIVE ASSISTANT Christopher Graves

FINANCIAL DIRECTOR Tara Bisciello

CONSUMER MARKETING DIRECTOR Diane G. Potter

NEW YORK ADVERTISING MANAGER Matthew Bondy

NORTHEAST ADVERTISING OFFICE

Shani Ben-Moshe, Scott Constantine, Sara Schiano Flynn,

David Ginsberg, Bill Harvey, Phil Mistry

AD ASSISTANT Andrea Licata

MIDWEST MANAGER John Marquardt

AD ASSISTANT Krissy Van Rossum

LOS ANGELES MANAGERS Robert Hoeck, Bob Meth

AD ASSISTANT Kate Gregory

NORTHWEST MANAGER Jay Monaghan

AD ASSISTANT Jessica Aldridge

DETROIT MANAGER Edward A. Bartley

AD ASSISTANT Diane Pahl

SOUTHERN MANAGER Jason A. Albaum

CLASSIFIED ADVERTISING SALES Chip Parham, Patrick Notaro

INTERACTIVE SALES MANAGER Chris Young

DIGITAL PROJECT COORDINATOR Amanda Alimo

INTEGRATED SALES DEVELOPMENT DIRECTOR Alexis Costa

INTEGRATED SALES DEVELOPMENT MANAGERS Michael Kelly,

Brian Glaser, Maria Urso

INTEGRATED SALES DEVELOPMENT PLANNER Lauren Brewer

GROUP DIRECTOR, CREATIVE SERVICES/EVENTS Mike Iadanza

DIRECTOR OF EVENTS Michelle Cast

SPECIAL EVENTS MANAGER Erica Johnson

DIGITAL DAYS DIRECTOR Phil Mistry

MARKETING ART DIRECTORS Shawn Woznicki, Lindsay Krist

PROMOTIONS MANAGER Eshonda Caraway

AD COORDINATOR Irene Reyes Coles

PUBLICITY MANAGER Amanda McNally

HUMAN RESOURCES MANAGER Kim Putman

PRODUCTION MANAGER Betty Dong

GROUP PRODUCTION DIRECTOR Laurel Kurnides

SUBSCRIPTIONS

CUSTOMER SERVICE www.PopPhoto.com/cs or call 386-246-0407

BONNIER

CHAIRMAN Jonas Bonnier

CHIEF EXECUTIVE OFFICER Terry Snow

CHIEF OPERATING OFFICER Dan Altman

CHIEF FINANCIAL OFFICER Randall Koubek

SVP, CORPORATE SALES & MARKETING Mark Wildman

VICE PRESIDENT, CONSUMER MARKETING Bruce Miller

VICE PRESIDENT, PRODUCTION Lisa Earlywine

VICE PRESIDENT, E-MEDIA Bill Altman

VICE PRESIDENT, DIGITAL SALES & MARKETING John Haskin

VICE PRESIDENT, ENTERPRISE SYSTEMS Shawn Larson

VICE PRESIDENT, HUMAN RESOURCES Cathy Hertz

VICE PRESIDENT, CORPORATE COMMUNICATIONS Dean Turcol

VICE PRESIDENT, MEDIA DEVELOPMENT Michael Starobin

BRAND DIRECTOR John Miller

DIRECTOR, LICENSING & MERCHANDISING Stanley Weil

PUBLISHING CONSULTANT Martin S. Walker

CORPORATE COUNSEL Jeremy Thompson

COTTONCARRIER

CAMERA SYSTEMS
patent pending



a hard anodized aluminum
Camera Hub with a stainless
steel bolt securely attaches
to your camera's tripod mount



TOTAL SECURITY for your camera
with our Lens Stabilization Strap
and Camera Tethers

TOTAL COMFORT with the even
distribution of camera and lens
weight across your back, neck
and shoulders

TOTAL FREEDOM with no swinging
camera leaving both hands free

NEW PRODUCT!
Cotton Carry-Lite

- carry 2 cameras with
additional Side Holster
- safe & secure
- light & fast

the perfect holiday gift!

www.cottoncarrier.com



SIGMA



Sunflower | CAMERA : SIGMA SD14 : ISO50, F8, 1/32sec | LENS: SIGMA 85mm F1.4 EX DG HSM : 85mm | Copyright © 2010 Paul Thacker



SIGMA LENS for DIGITAL
NEW RELEASE

SIGMA
85mm
F1.4
EX DG HSM

Lens Case, Petal type Hood & Hood Adapter supplied

*Offering superb optical performance
this lens is among the finest in its class.
A medium telephoto lens with
a large maximum aperture of F1.4 and
compatible with full frame SLR cameras.*

The latest optical technology, such as SLD glass elements, ensures high image quality throughout the entire shooting range. This medium telephoto lens is equipped with a large maximum aperture of F1.4 and is compatible with full frame SLR cameras. Delivering beautiful bokeh, this lens is perfect for portraits and shots at twilight.

www.sigmaphoto.com



SHOWCASE * OLYMPUS E-5 AND ZUIKO 14-35MM F/2 LENS

REFLECTIONS TUMBLE IN

Technical Editor Philip Ryan juxtaposed the lines and curves of Frank Gehry's IAC Building's warped, fritted glass walls with the distorted reflection of its geometrically patterned neighbor. Shot using the Olympus E-5 at ISO 200, 1/100 sec at f/8, with an Olympus Zuiko Digital ED 14-35mm f/2 SWD zoom at 35mm. See our [DSLR](#) and [lens tests](#) on pages 83 and 92, respectively.

FUJIFILM



Simulated image.

Now, set your images free.

The FUJIFILM FinePix REAL 3D W3 Digital Camera puts 3D in the palm of your hand.

Now you can capture a new dimension of your experiences in high definition 3D digital images and movies. The FinePix REAL 3D W3 is a unique 3D digital camera with dual lens and sensor technology that delivers the uncompromising picture quality you'd expect from Fujifilm — and more depth and clarity than you ever imagined. Advanced settings allow for individual shutter or interval shooting, and playback is easy on the 3.5" 3D LCD — or over your 3D TV system. And with the FinePix REAL 3D W3 you can even make 3D prints at SeeHere.com* and shoot 2D images and movies in HD, too. Add a new dimension to your camera arsenal, and life, with the FinePix REAL 3D W3 digital camera.



10 MP / 3X OPTICAL ZOOM / 3.5" 3D LCD

FINEPIX
REAL
3D
W3 DIGITAL CAMERA

Life was made for 3D.

EveryPictureMatters.com/3D

*Visit SeeHere.com for print and pricing details.

© 2010 FUJIFILM North America Corporation and its affiliates. All rights reserved.

NEXT

THE HOTTEST NEW STUFF AND THE TECHNOLOGY TRENDS BEHIND IT

WE WANT THIS

WEATHER BEATER

Sensor and autofocus upgrades make a more special K

PENTAX CALLS the K-5 “a refinement” of the K-7, which is fine by us, given the solid performance and rugged, weather-resistant build of that camera.

Enhancements include a 16.3MP CMOS sensor, up from 14.6MP; burst rate of 7 fps, up from 5.2 fps; ISOs topping out at 51,200, not 6400; 14-bit RAW file bit depth, rather than 12-bit; automatic alignment of images for handheld HDR shooting; and HD video recording at 1920x1080p at 25 fps instead of the K-7’s oddball top resolution of 1536x1024p.

The camera body is magnesium alloy over a stainless-steel chassis. As with all Pentax DSLR bodies, built-in motion detectors and a shifting sensor provide image stabilization with any lens that you can put on the body.

While the K-5’s 11-point

autofocus array looks like that of the K-7’s, a new AF module promises faster focusing than the old system, a claim we’ll test as soon as we get a production model of the K-5.

THE PENTAX K-5 continues the family tradition of heavy environmental sealing throughout the camera body.



A CANON COMPACT FOR DSLR LOVERS



14

NIKON'S SMALLER, FASTER SPEEDLIGHT



15

COOLEST NEW BAGS OF THE SEASON



18

PENTAX K-5

16.3MP CMOS sensor
1080p video
ISOs to 51,200
\$1,600 street, body only
www.pentax.com



[NEXT * JUST OUT]

VIDEO AND MORE

Canon's latest top compact seems its most DSLR-like yet

CERTAINLY HD VIDEO capture (720p at 30 fps, with stereo sound) is a welcome new feature in Canon's PowerShot G12, but we were just as impressed with one subtle addition: a second command wheel near the shutter

Canon PowerShot G12

\$500, street

www.usa.canon.com



button, which makes it much easier to shoot in manual mode and helps when using aperture- or shutter-priority, too. Users of enthusiast-level DSLRs will appreciate the convenient control this little wheel affords.

Other notable upgrades: tracking autofocus, automated three-

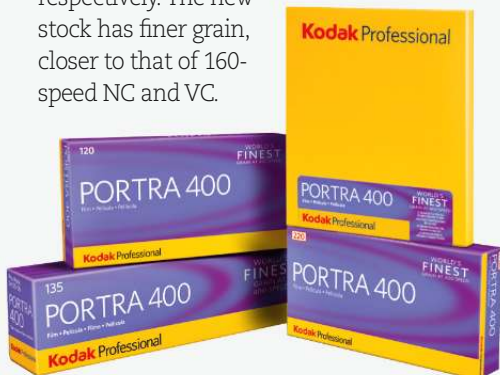
shot HDR imaging, and hybrid image stabilization that compensates for both angular and side-to-side movement. An electronic level will help keep your horizons horizontal. And it still has all the good stuff from its predecessor, the G11, including the 10MP sensor with larger-than-usual pixels.

NEGATIVE-POSITIVE

Color print film from Kodak is made for a digital world

YES FOLKS, there are still film loyalists out there, and we're glad Kodak still caters to them.

Its newest film, Professional Portra 400, will replace Portra 400NC and 400VC, whose colors were less and more saturated, respectively. The new stock has finer grain, closer to that of 160-speed NC and VC.



Kodak Professional Portra 400

\$6-8, est. street, per 35mm/120 roll

www.kodak.com

The biggest news about the new Portra? It's made for scanning and enlargements. Kodak says it reproduces natural-looking skin tones without compromising saturation and contrast. We have to wonder if the switch to a single, more midrange color tone and saturation is an acknowledgement of the ease with which most photographers adjust those factors during postproduction.

INSIDE TECH

Scan It

While Portra 400 remains excellent for old-fashioned optical printing, Antenna Dye Sensitization (ADS) in the cyan and magenta layers of this film's emulsion optimizes it for scanning. ADS means that more light can reach deeper into the film, and the silver halide crystals are more sensitive, too. So the image structure improves overall.

NEWS
FEED

> Panasonic has introduced a 13.2MP Lumix phone; it's Japan-only for now.

> Speaking of phones, Nokia's N8 smartphone with a 12MP camera built in is now available stateside.

> One of the coolest prototypes we saw at Photokina this year was Fujifilm's FinePix X100. Almost the spitting image of a film rangefinder, it has an APS-C sensor, a fixed lens, and analog controls.

> Unemployed Philosophers Guild has the photo geek's timepiece: a watch that shows f-stops in place of the hours.

> Leica has a new way to lux it up. Its M9 is available covered in ostrich leather, a \$17,500 exclusive for the Neiman Marcus Christmas book.

HOT LIGHT

A smaller Nikon flash is packed with features

NIKONIANS who long for the high-end features of the SB-900 flagship flash but balk at its \$460 street price have a new option: the SB-700 Speedlight. It delivers many SB-900 features, but costs \$130 less.

Like its big brother, it can wirelessly control other, off-camera Speedlights, offers multiple light-distribution patterns, and automatically recognizes FX and DX bodies

to set appropriate flash output. But the SB-700 is noticeably smaller, and less powerful—the 900 is a full stop brighter.

What else is new? Nikon claims that it uses batteries more efficiently than the SB-900, for more pops per battery set and faster recycle times. And a Quick Wireless Mode makes wireless flash setups easier to configure and use.



Nikon SB-700 Speedlight

\$330, street

www.nikonusa.com

PIXEL POWER

Panasonic's GH2 has the most pixels of any ILC yet

WE LOVED the touchscreen that Panasonic put in its Lumix DMC-G2 Micro Four Thirds camera, so we were happy to see that its new flagship interchangeable-lens compact, the GH2, also has a 3-inch, 460,000-dot, articulated touchscreen LCD.

It boasts the highest pixel count—16.05MP—of any ILC so far, sensitivity up to ISO 12,800, and the same high-res EVF as its predecessor, the GH1. Again, video recording tops out at 1920x1080 pixels and 60 interlaced frames per second.

Still bursts have been boosted to 5 fps (from 3 in the GH1) for up to 7 RAW shots or unlimited JPEGs. HDR buffs will like that it can bracket as many as 7 frames at

Panasonic Lumix DMC-GH2

\$1,000 street, with 14-42mm lens

www.panasonic.com

up to +/-3 EV, and all will appreciate the GH2's well-designed body.



FUJIFILM



Sometimes, less is more...

FINEPIX F300EXR

12MP EXR SUPER CCD | HYBRID HIGH-SPEED AUTO FOCUS



The **FinePix F300EXR** is a stylish digital camera with a 15x optical zoom, from 24mm to 360mm, found in a chassis so compact it can slip into your pocket. The F300EXR also features Fujifilm's award-winning EXR technology, and boasts two new features for combating camera shake and adjusting for high-contrast shots.

[15x]
OPTICAL ZOOM

Simulated representation of zoom capabilities.



5x



15x

HYBRID HIGH-SPEED AUTO FOCUS: With Phase Detection pixels built into the EXR sensor, the F300EXR intelligently selects between two auto-focus systems, for an incredible 0.158 second AF speed— as fast as you can blink! Hybrid High-speed Auto Focus also allows for enhanced accuracy when shooting high-contrast subjects— even a moving subject with 15x zoom.

INTELLIGENT IMAGE STABILIZATION: This new system corrects blur caused by small vibrations and larger movement to enable shooting, even night scenes with 15x zoom, at slower shutter speeds and lower sensitivity for smoother gradations and lower noise.

everypicturematters.com/f300exr



HD interface accessories sold separately.

FUJIFILM, FINEPIX, and EVERYPICTUREMATTERS.COM are trademarks of FUJIFILM Corporation and its affiliates. © 2010 FUJIFILM North America Corporation and its affiliates. All rights reserved.



and other times, more is more.



FINEPIX HS10

10MP BSI HIGH-SPEED CMOS SENSOR | TILTING 3.0" LCD

The **FinePix HS10** is a groundbreaking digital camera offering an extreme 30x manual optical zoom lens with superb wide-angle capabilities in a single integrated lens system. Simply adjust the manual barrel zoom by hand and create your ideal composition. FUJINON optics ensure the highest quality photos, covering a massive zoom range of 24mm wide angle to 720mm telephoto.

[30x]

MANUAL OPTICAL ZOOM

Simulated representation of zoom capabilities.



5x



30x

HIGH-SPEED CONTINUOUS SHOOTING:

The HS10's new BSI CMOS sensor captures images that not even your eyes can see. Keep up with the action, capturing stunning detail, with the HS10's continuous 7-frame shooting mode at an amazing 10fps, at the full 10 megapixel resolution.



Simulated photo representation.



HD interface accessories sold separately.

everypicturematters.com/hs10

FUJIFILM Experience the range of powerful **long-zoom** FUJINON optics.

[NEXT * ROUND UP]

BRAND NEW BAGS



The latest ways to haul your gear

CAMERA AND COMPUTER bags keep getting cooler, smarter, and better looking. With those qualities in mind, we picked some of the best new DSLR haulers we've seen lately.

\$100 **Tamrac**

Evolution Messenger 2

A smaller version of the very cool Messenger 4, this compact, lightweight bag

holds a DSLR with a lens attached and one or two more lenses (including a big 70–200mm f/2.8) or a flash, as well as an iPad, netbook, or 11.6-inch laptop. Best feature: The top zips open away from your body so you can grab your camera fast.



\$190 **Jil-e Small Jack Messenger**

Lighter and more casual than Jil-e's leather Jack bags, this nylon and leather-trimmed model, due in January, still has style. It holds a DSLR, a couple of small lenses, flash, and iPad. And it has two outer pockets for accessories and a zipper to slide it over a luggage trolley.



\$289 **Vanguard Skyborne 48**

The largest in Vanguard's new backpack line holds a DSLR with 70–200mm f/2.8 lens, plus up to four other lenses, flash, accessories, and (on the outside) a tripod. The laptop sleeve, for a 14-incher, has handles and a shoulder strap to speed you through airport security.



\$300 **LowePro Pro Roller Attaché x50**

Roomy enough for a pro DSLR, four lenses, accessories, and 14-inch laptop, yet small enough for any carry-on. A threaded mount in the trolley lets it sub for a tripod or lightstand. And you can remove the inner shoulder bag with your gear to use the x50 as a suitcase.



\$325 **Kata Ultra-Light Bug-255 UL**

Light in color, not just in weight—a boon in the sun. It holds two DSLRs, up to six lenses, a 17-inch laptop, and accessories. A spring-steel spine guard and aluminum framing hold its shape. And an innovative strap puts your camera at your chest, clipped to the shoulder straps, for full-time, fast access.

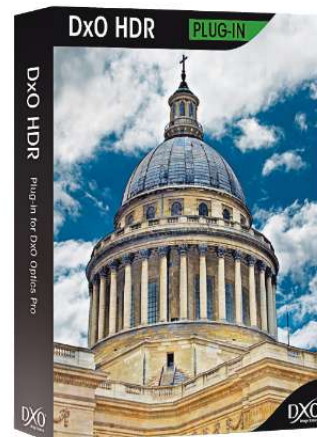
18 POPULAR PHOTOGRAPHY DECEMBER 2010

NEWS FEED

> Joby, maker of the famous Gorillapod with the rubberized, jointed legs, has a new tripod—this time for video. It supports small, portable video cameras like the Flip, and has an arm to allow for smooth 360-degree panning and 135-degree tilt.

> Perhaps to compete with the X-Rite's ColorChecker Passport (a POP Award winner, page 75), Datacolor has announced its own portable chart, the Spyder Checker. It also helps RAW shooters perfect white balance and profile their cameras.

> Nik's Color Efex Pro and Silver Efex Pro have both gone 64-bit. Owners of the programs can download a free update at niksoftware.com.



New Software

DxO HDR

High-dynamic-range photography just keeps getting bigger, and now the French imaging expert DxO has announced its own HDR plug-in (under \$100, estimated; www.dxo.com). It does de-ghosting and automatic alignment. And with DxO's RAW expertise, particularly in shadow and highlight detail, we're excited to see the HDR images this new plug-in can make. Our lone gripe? It doesn't come in a stand-alone version, so you'll need DxO Optics Pro to run it.

THE LOWDOWN

SIGMA'S BOMBSHELL DSLR

The biggest surprise at this fall's Photokina? Sigma's new 46MP DSLR, the SD1, with a three-layered Foveon sensor boasting 15.3 megapixels (up from the current 4.8) on each layer. It will be standard APS-C-size, with a 1.5X crop factor, not the smaller 1.7X Foveon in the SD15. Due out in early 2011, the SD1 bodes well for Foveon fans: Not only should resolution and noise improve dramatically, but the body is rugged and well balanced.

POPPHOTO.COM

Ocean Traveler

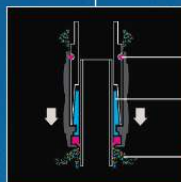
Challenging the elements

Up to
\$100
rebate

Valid from
August 1 - October 31, 2010.

**Extended through
January 15, 2011**

For more information:
www.gitzo.us/focusonforever



sealing elements

G-lock core

water & sand



Gitzo Ocean Traveler, the only tripod in the world developed for photographers who work in the most extreme environments. Completely resistant to water, salt and sand, thanks to Inox steel construction and an exclusive evolution of the

G-Lock that protects the tripod from the most aggressive natural elements. Let the ocean challenge you.

www.gitzo.us info@gitzo.us

GITZO

focus on forever



Promotion

© EMILY WILLIAMS

GIVE US ONE DAY

We'll make you a better photographer

**POPULAR
PHOTOGRAPHY**
presents

digitaldays
Video & Photography Workshops



© MIKE IADANZA



© EMILY WILLIAMS

© ME RA KOH

UPCOMING WORKSHOPS

San Francisco
CA
Jan 22-23

Austin
TX
Feb 12-13

Seattle
WA
Feb 26-27

San Diego
CA
Mar 5-6

Los Angeles
CA
Mar 19-20

Dallas
TX
Apr 9-10

St. Louis
MO
Apr 30-May 1st

New York
NY
May 21-22

Stamford
CT
Jun 4-5

True PDF release: storemags & fantamag

SONY
make.believe

Come to one of our video & photography workshops and learn how to make great pictures!

Our instructors are fun and inspirational, and keep everything fresh, upbeat and a little bit funky. They make technical terms easy to understand, and explain camera functions so they, well, click. The four-hour Saturday workshop and full day Sunday session are fulfilling experiences packed with information, laughs, socializing and fantastic photography. You'll learn the complete digital process, including creative and technical angles, composition and camera functions, and software-based skills such as editing, printing and photo sharing. Come to one of our photography workshops and learn how to make great pictures!

- Inspire you with creative tips and techniques
- Explore the potential of light and composition
- Teach you the power of digital workflow
- Master your camera's settings for any brand
- Live model shoot

SIGN UP TODAY!

digitaldaysphoto.com
888.243.6464

Washington
DC
Jun 11-12

Philadelphia
PA
Jun 25-26

Boston
MA
Jul 9-10

Buffalo
NY
Jul 23-24

Cleveland
OH
Aug 6-7

Kansas City
KS
Sep 17-18

Las Vegas
NV
Sep 24-25

Denver
CO
Oct 8-9

New York
NY
Oct 22-23



Attain Perfection Like Scott Kelby



It all starts with a beautiful model, a great shot, and the technical prowess of Photoshop guru Scott Kelby. Come see how Scott's techniques take advantage of the amazing productivity features and natural pen control of the Wacom Intuos®4 with the power of Adobe® Photoshop® CS5 to create absolute perfection.

To learn more about Scott's workflow and to try out the Intuos4 settings that Scott used to create this stunning image, visit www.wacom.com/ScottKelby

SHARE

CONVERSATION, INSPIRATION, CONTESTS, AND YOUR QUESTIONS ANSWERED

PHOTO CHALLENGE

DEEP VIEW

Capturing a big view through a small camera



DAVE STOETZEL



AN AVID photographer since high school, Dave Stoetzel, 57 (www.davestoetzel.com), resisted trading film for digital. But, having fallen for the versatility of DSLRs, the painting contractor from Buffalo, WY, got his first compact—a Canon PowerShot G11—earlier this year. One of the first landscapes he shot with it won our September Photo Challenge.

On a trip to San Francisco last spring, he left his Canon EOS 5D at home in favor of his new G11. “I wanted to be forced to use it and try out the different features,” he says.

Stoetzel’s first test run? A drive down the San Mateo coast. Shooting blooming ice plants on the side of the road, “I found that you can shoot from crazy angles using the swiveling LCD,” he says. “But even better was the super depth of field.”

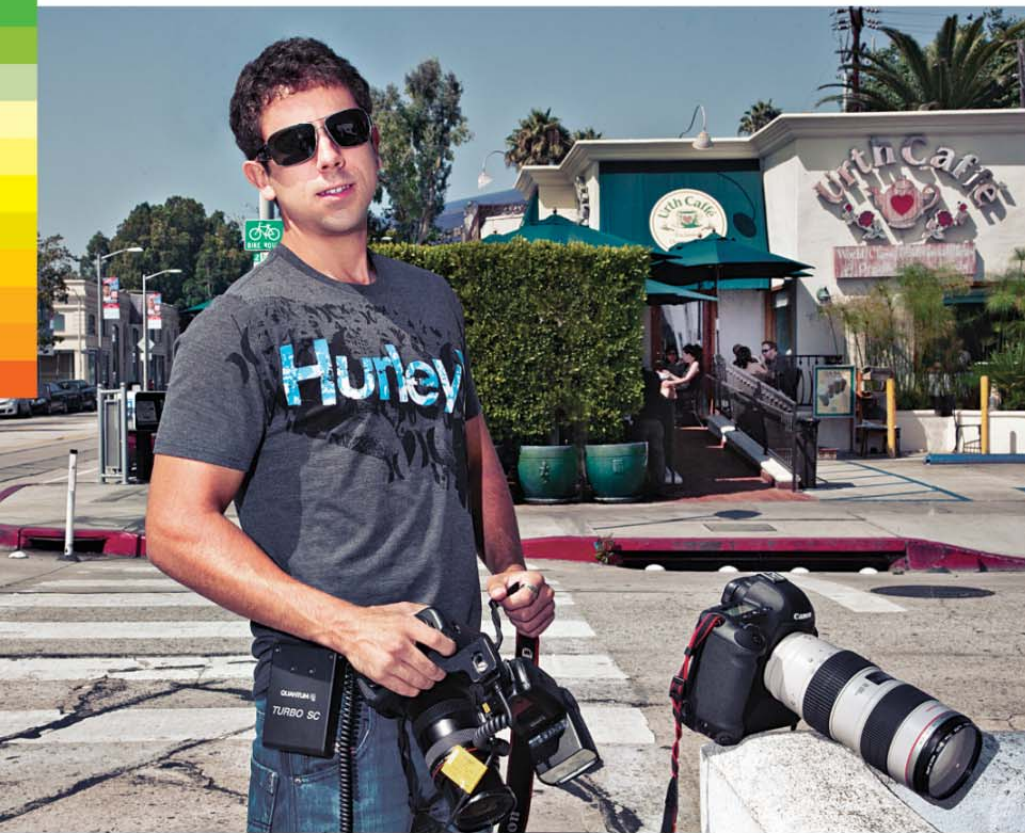
When he noticed the fog rising over the cliffs in the background, a few shots revealed he could keep both the cliffs and nearby flowers in focus, thanks to the compact’s tiny sensor. “The flowers were just 6 feet away, and the background miles away,” Stoetzel says. “I was amazed by what this little camera could do.”

—Lori Fredrickson

With a Canon G11 set to 1/100 sec at f/8, ISO 200, and its zoom at its widest, Stoetzel got great depth of field.

NEXT PHOTO CHALLENGE

Shoot from a moving vehicle as Regis Lefebure did in on page 43. The best photo we get by Dec. 31 earns \$100 and your story here. Read all the rules at PopPhoto.com/PhotoChallenge.



Star Stalker

Making his name shooting boldface names

What's a paparazzo's day like?

It's a lot of time in a car or standing on a sidewalk, waiting for a celebrity to come out of the house or out of a restaurant.

How did you get started?

You have to know someone who can show you what to do and get you in at an agency. Four years ago, my cousin was at an agency, X-17, and invited me to work with him. I didn't have photo experience, but I taught myself everything in a few months.

How do you know where to shoot? By exchanging stories with other photographers. If you call them with tips, they'll

call you, too. With bigger stories, photographers can be more competitive. I keep up to date on what's going on with celebrities by checking websites each night.

Where do you sell your photos?

I get assignments from the different agencies that I work for. If I know a big story is happening—like Lindsay Lohan getting out of rehab—then I just go shoot.

What gear do you use?

I have more than \$30,000 of equipment: a Canon EOS-1D Mark IV, Mark III, and 5D Mark II. Canon lenses—a 500mm f/4, a 300mm f/2.8, a 70–200mm f/2.8 with a stabilizer, which I use the

Vinicius Poersch, 24, spends his days following Hollywood's A-list stars as a Los Angeles paparazzo.

most. A 24–70mm f/2.8 for short-distance shots, the only time I use a flash. I have laptops to send the shots in immediately—I send them to agencies around world.

What's your biggest story?

The most I've ever earned was when Kate Hudson went house-hunting with A-Rod and his kids.

Are you ever starstruck?

No, but some celebrities are really nice—Jessica Simpson and her whole family, and Pete Wentz. Others, like Jake Gyllenhaal and Leonardo DiCaprio, aren't very nice to the photographers.

What if they want some privacy?

Most paparazzi will leave them alone if they ask nicely not to be photographed some times, then give good shots other times.

Have you ever been threatened?

No. I do mostly "old school" paparazzi photos, shooting from a distance so that celebrities don't know they're being photographed. It makes a more natural picture, and it's more respectful. Getting in people's faces gives paparazzi a bad name.

Will California's proposed anti-paparazzi law change things?

I think it's almost impossible that they'll give paparazzi those big fines—maybe in very special cases involving high-speed chases and people getting hurt.

What about public opinion?

People who speak badly about the paparazzi also buy the magazines, and ask me on the street who I'm waiting for so they can get a look. Who doesn't want to know about Jennifer Aniston's new boyfriend? They talk badly about us because they're jealous.

—Interview by Kathleen Davis



At the heart of the image.



FAST. TOUGH. AGILE. MUCH LIKE ITS SUBJECT.
THE NIKON D300S, WITH HD VIDEO.
THE ULTIMATE IN NIKON DX-FORMAT PERFORMANCE.



GO TO WWW.NIKONUSA.COM/D300S
TO SEE THE HD ROLLER DERBY VIDEO
"GLAMOUR JAMMER," CAPTURED BY SANDRO.

See how renowned photographer Sandro takes advantage of the fast, nimble D300S and its spectacular image quality to profile Bethany, a fierce competitor in the rough-and-tumble world of roller derby. Housed in its magnesium-alloy body is a 12.3-megapixel DX-format CMOS sensor. The D300S enables continuous shooting at up to 7 FPS, coupled with a 51-Point AF system for focus speed, accuracy and razor sharpness. Add outstanding HD video capabilities and legendary NIKKOR® lenses and the D300S gives Sandro a whole new set of creative tools.

Nikon® and D300S™ are registered trademarks of Nikon Corporation. ©2010 Nikon Inc.

HOYA

**THE PERFECT FILTER
TO CAPTURE AUTUMN**



HRT CIR-PL UV FILTER High-Rate Transparency Film

This filter uses a newly developed High-Rate Transparency film that passes more visible light through the filter while still filtering the same amount of polarized light. The HOYA HRT CIR-PL UV filter transmits as much as 25% more light through the polarizing film giving the photographer about 1/3 stop more light than a standard circular polarizer.

HOYA is a registered trademark of Hoya Corporation.

EXCLUSIVE DISTRIBUTION BY:

THK PHOTO PRODUCTS, INC.

Tokina • HOYA • Kenko • SLIK

7642 Woodwind Drive, Huntington Beach, CA 92647

Visit our website for more information at

www.thkphoto.com

[SHARE * MY PROJECT]

Ghost Tale

**Photos with subjects
you can't quite see**

CORINNE MAY BOTZ'S "Haunted Houses" series began more as road-trip photography than a ghost hunt. "I've always been interested in domestic interiors, and the connections that people have with their homes," she says. "Photographing homes with ghosts seemed a unique way to explore that interest."

So for the past 10 years, the 33-year-old New York-based photographer and photo instructor has spent her free time shooting haunted houses. From legendary Civil War mansions in Gettysburg to remote log cabins in Harlan,

KY, she has photographed in more than 100 homes in 85 locations, reaching from New England to the South to California. Some of them are famous—like the Edgar Allan Poe house in Baltimore. But most are just ordinary people's homes, with an additional, invisible resident.

"I wanted to show a variety in terms of class, location and the way that people live," Botz explains. "Sometimes I would research a famous haunted house and travel there specifically. But more often than not, it was just exploring small towns, and learning their secrets."

Libraries and historic societies in many small towns often



CORINNE MAY BOTZ (7)

had records of local legends, or a friendly historian or old-timer would pass on an address or phone number.

Knocking on a door, she found that haunted-home owners were almost always excited to share stories. Often they told of a violent crime in the home, but they also described inexplicable events—doors opening and closing, and footsteps late at night. “Some people would talk about their ghosts as if they were living people,” Botz says. “They integrate a haunting into their lives.”

Botz often found herself exploring people’s homes at will, searching for a haunted vibe. “The owners were intrigued by what I decided to photograph,” she says. Occasionally she’d tripod-mount her Speed Graphic loaded with Fujifilm 160NC daylight film in a parlor or attic

known for ghostly sightings. It was an intuitive process, imagining where a ghost might be and how it would appear.

The final collection of images—and ghost stories—has been published in *Haunted Houses* (2010, Monacelli Press). And though her work hasn’t captured any paranormal activity, Botz says, “It was intriguing to see people living their lives with ghosts about.”

But did she see any ghosts? “Just once,” she says, “at the Farnsworth House in Gettysburg. A door opened and closed, and no one was there.”

—Lori Fredrickson



See more of Corinne May Botz’s supernatural locales and other work at www.corinnebotz.com.



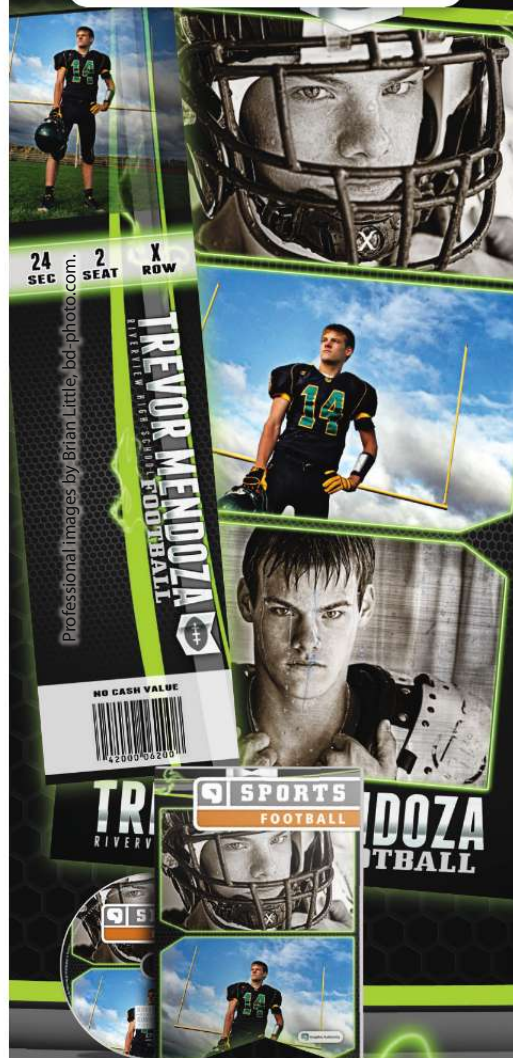
GraphicAuthority.com



Graphic Authority

PHOTOSHOP
TEMPLATES &
GRAPHICS RESOURCES

SPORTS
TEMPLATE SERIES



SAVE 20%

THRU DEC 31

USE COUPON CODE POP20.

GraphicAuthority.com



interfit

THE AWARD WINNING
EX FAMILY

EX150



The best value in
Home Studio Lighting



AMERICAN PHOTO
eo
editor's choice award

Amateur
Photographer
★★★★★

Highly
RATED

Educational
Training
DVD
included

EX300



The 2 head kit has the components of a full studio with 2 x heads, 2 x lighting stands, 1 x translucent umbrella and a 24" softbox with all required lamps and cables. In addition an all in one kit bag is included in the kit.

EXD400



Each head features, user changeable flash tubes, switchable modelling lamps, fan cooling for prolonged use and Infrared and white light sensitive light sensors and a additional easy to use rear handle allows for precise positioning.

www.interfitphotographic.com

Interfit Photographic Ltd
420 Industrial court West
Villa Rica, GA 30180
Tel : (toll Free) 1-866-947-9796

SHARE * LETTERS



JEREMY HARRIS

Rock On

I read with great interest "Rock Star," your interview with Jeremy Harris [October 2010]. One issue that I've not seen addressed anywhere is the policy of many venues banning cameras with removable lenses. DSLRs are not allowed in, but point-and-shoots are.

This leads to flashes going off all over the place. I especially like the point-and-shoot flashing from the far reaches of the venue, knowing that someone just got a great shot of the head in front of them. All this while my DSLR with its fast telephoto lens and ability to shoot without flash in low-light situations is in my car! This makes no sense to me.

Many people who aren't pro photographers have high-quality camera equipment, and I think given the price we must pay for concert tickets these days, unless someone can give me a good reason for this rule, we should be allowed to bring in our SLRs.

Mike Ketchum
Urbandale, IA

I READ your article "Rock Star" closely because this is something a good friend of mine, Mark Applegate, and I do down here in southern Texas. However, unlike this article, where the photographer generally has great lighting to work with at bigger rock concerts, we are working in small honky-tonk bars, shooting local and regional Texas Country acts.

We've shot in such places as the legendary Gruene Hall (the oldest dance hall in Texas, where people like George Strait got his start and performers like Lyle Lovett still play) and the incomparable Floore's Country Store where Elvis and Willie have played. These places are fairly small, the lighting is poor, but the music is great and the crowd gets into the music.

FINALLY, CAPTURE YOUR MEMORIES IN 3D. JUST THE WAY YOU LIVED THEM.



With the LUMIX® GH2 camera and interchangeable 3D lens, you'll never look at photos the same way again. Its 3D image processing system adds so much depth and clarity, it feels like you're actually reliving your favorite memories. And viewing is easy. Just connect this camera to a 3D TV, grab some 3D glasses and marvel at your photos in a whole new dimension. After all, life happens in 3D. Shouldn't your photos?



panasonic.com/lumix



Panasonic LUMIX®

SONY
make.believe



The Sony® **α55** captures the frames between the frames, and other favorable impressions.

"Hot on the heels of their category-redefining NEX-3 and NEX-5, Sony's engineers have now likewise redefined what consumers can expect from an SLR."

— imaging-resource.com

"With the Alpha SLT **α55** (and its near-relation the **α33**) Sony has thrown down the gauntlet to the other major manufacturers. These new cameras are both genuinely innovative, and very capable."

— dpreview.com

"The **α55**, will I believe, be regarded as something of a landmark camera. It offers a significant amount of new technology in a surprisingly inexpensive package. It challenges the big boys, Canon and Nikon, to get off their butts and start offering something new and exciting."

— luminous-landscape.com

To learn more, visit sony.com/dslr

Screen image simulated.

© 2010 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, α, and the Sony make.believe logo are trademarks of Sony. All other trademarks are trademarks of their respective owners.

[SHARE * LETTERS]

SOMETHING TO SAY?

WRITE TO US: POPPHOTO@BONNIERCORP.COM

We do not use any flashes, as we do not want to distract the performers. Mark shoots using a Nikon D50, primarily with a Nikon 80–200mm f/2.8, while I use a D90 and the 80–200mm. By using this lens we get the speed we need, but also a wide enough angle to shoot in the smaller places and still get the action. The less-than-ideal lighting forces us to be creative, allowing us to get some really unique shots. Much of Mark's work now resides in the Center for Texas Music History at Texas State University, and I will soon be donating work to it, as well.

Michael J. Frederick

San Antonio, TX

I ENJOYED your article on waterfalls in the September issue [Traveling Photographer]. There were a couple of surprises, though: You did not mention polarizers. I keep one on my lenses for almost all waterfall shots—if there is any sun at all this is essential. And you failed to mention the great waterfalls in Eastern North Carolina and Western Tennessee. Transylvania County, NC, has well over 100 named waterfalls.

In the last two to three years I have dragged my 85-year-old body to photograph 57 waterfalls in North Carolina, 52 in Tennessee, and about a dozen in Virginia. Many of these can be viewed from

the roadside so my wife has been able to share over half of them with me.

Bill Vickrey

Burlington, NC

IN REGARDS to the question about long-term storage on memory cards (Tech Support, November), the suggestion to use the hard drive for speed and convenience is a good one. But, for long-term security of your photographs, neither memory cards nor hard drives are reliable.

I would burn the images to fast DVD media. Dual-layer DVDs are very inexpensive and hold about 8.5GB. In the writing process, be sure to use Verify. Once the disk is made, open several files from it to ensure it performs properly, then file it in a safe in case of fire.

Joseph Massimino

Jensen Beach, FL

RE: CONTENTS (October) about "The Future of Photography," how nice it would be at the end of a long day to be able to eat your camera! I am sure the future of photography is enticing, but edible cameras?

Fred MacDowell

Edinburg, TX

CORRECTION

In "Friends & Family" (November 2010), several people in photos by Joshua Drake were misidentified in captions. We regret these editing errors.

POPULAR PHOTOGRAPHY

HOW TO CONTACT US

Address your questions or comments on editorial content to Popular Photography, 2 Park Avenue, New York, NY 10016; e-mail, PopPhoto@bonniercorp.com. Published letters may be edited for length and clarity. We regret that we cannot answer all letters. Editorial contributions sent by mail must include return postage and will be handled with reasonable care; however, we assume no responsibility for return or safety of photographs, disks, or manuscripts.

SUBSCRIPTIONS

Phone 386-246-0407 or visit PopPhoto.com/cs for all subscription inquiries. Please allow at least 8 weeks for a change of address; include both your old and new addresses, and if possible an address label from a recent issue. Subscription prices: U.S.: 1 year, \$14; 2 years, \$28; 3 years, \$42. Canada (includes 5% GST) and all other foreign: 1 year, \$31.93; 2 years, \$55.94; 3 years, \$77.94. Occasionally we share our information with other reputable companies whose products and services might interest you. If you prefer not to participate, please contact us at 386-246-0407 or PopPhoto.com/cs.

REPRINTS AND EPRINTS

Please contact Brian Kolb at Wright's Media, 877-652-5295, bkolb@wrightsmedia.com.



The paper used for this magazine comes from certified forests that are managed in a sustainable way to meet the social, economic and environmental needs of present and future generations.


Original photos



So much power, it'll blow you away!

NEW Corel® PaintShop Photo® Pro X3 Ultimate has powerful editing tools, KPT® filters, and now more than \$200 worth of photo-editing extras that bring more creativity to any photographer's toolbox. It's the easiest way to get professional-looking photos.

Try it for FREE at: www.corel.com/popphoto

Find PaintShop Photo Pro X3 on select HP machines. 



\$99.99 SRP
Dealer may sell for less.

COREL®

Available at the following retailers: amazon.com



DELL



Raw Menu

Q I was always under the impression that the white-balance setting does not have any effect on shooting RAW. But every now and then I hear photographers ask each other about their WB settings even though they are shooting RAW. So should I be concerned with this setting?

Ershun Lee
San Diego, CA

A The beauty of RAW capture is that you can make adjustments such as white balance after the fact, as well as create different renditions from the same picture file (see this month's Software Workshop for a primer on RAW). Where the camera settings come into play is on the LCD monitor: To display a RAW image, the camera makes a small JPEG from the RAW file, using the camera settings for image

adjustments. Some cameras let you see what different settings will do to the same file. And, if you use a camera manufacturer's software to "cook" the RAW file, most of those programs will use the camera settings as the default—but you can always change them to your liking.

Q YESTERDAY'S PAPERS
I have some Ilford Multi-grade Pearl enlarging paper that

I had used when making b&w prints in a darkroom. In theory, could this paper be used to make prints in an inkjet printer? (The paper has been stored light-tight but is over 10 years old.)

David Gustafson
via e-mail

A There are numerous reasons why this would be unworkable, but let's give the biggest one: Darkroom paper is not designed to absorb inkjet ink, so you would be lucky to get an image at all. Undeveloped photo paper stock is also unstable—you'd need to fix it, and wash it, and dry it, or it would darken over time once exposed to light.

Q BURST OR BUST?
I recently purchased a Canon EOS Rebel T2i. Would an

GOT A QUESTION?
E-mail us at PopPhoto@bonniercorp.com. We regret that we can't answer each one personally.

Go ahead.
Take the plunge.

A great picture is just a seminar away. At Nikon School, you can learn virtually everything about digital SLR photography, from basic image and video composition to advanced lighting. You can also experience Capture NX 2, Nikon's user-friendly photo editing software. Seminars start at only \$99.

For more information go to
nikonschool.com/learn

Nikon School

The Skinny on Lens Protection From B+W.

UV and Clear Filter Solution

Finally, a superior way to protect your camera lens that won't get in the way. The revolutionary B+W XS-Pro Digital Filter Series features extra-slim mounting rings, especially suited to DSLRs with wide-angle lenses.

The super-thin design prevents vignetting in even the widest shots. What's more, B+W XS-Pro Digital Filters feature convenient front threads to mount additional accessories like filters, screw-on shades and lens covers.

Advantages of XS-Pro Digital Filters:

- Rings are made of top-quality brass, matte black anodized to prevent reflections.
- MRC multi-layer broadband coating for anti-reflection, brilliant colors & high contrast. Coatings are scratch-resistant, water and dirt repellent.
- Front threads accept other filters and accessories.

Protect your lens investment with Schneider B+W world class filters.

NY: +1 800 645 7239 • CA: +1 800 228 1254 • bw@schneideroptics.com

www.schneideroptics.com

Schneider OPTICS
It Starts with the Glass™

The new Sunpak Pro 423PX tripod.

A perfect match of our ultra-fast pistol grip ball head and super-light carbon fiber legs.



Presenting the Sunpak Pro 423PX, the perfect complement to your new camera. Finally, you can follow and shoot action quickly, surely, intuitively. No knobs. No handles. No fumbling.

- Super-fast auto-locking pistol grip ball head.
- Rotating platform with video indexing pin.
- Magnesium chassis with leg angle adjusters.
- Three high-visibility bubble levels.
- Lightweight, ultra-strong carbon fiber legs.
- Oversize user-adjustable flip-lever leg locks.
- 15.4 lb capacity and 65.75" maximum height.
- Limited lifetime warranty. And more!

The Sunpak Pro 423PX. Built for professionals. Priced for everyone else.

SUNPAK[®]
s u n p a k . c o m

Available at:



What Should I Buy?

Canon EOS Rebel XT user Nelson Teran of Hemet, CA, wants to shoot indoor events such as volleyball, and prefers a fast lens to boosting the ISO. He asked us if the 85mm f/1.8 Canon EF lens would be suitable. Our answer: Yes. It's sharp, well made, quiet, and a bargain at \$370 (street). Its equivalent focal length of 135mm means he'll be able to get pretty tight shots of players if he's reasonably close to the sidelines.

older Canon Speedlite 430EZ damage my camera or could I use it normally? **Felipe Rodriguez**
Euless, TX

A The 430EZ won't harm your camera, but it would have limited functionality on the T2i. It will fire on manual only, with no automatic control of the flash duration. You'd need to put your camera in manual (M) or aperture-priority (Av) to adjust flash exposure by varying the f-stop. You could also set the flash to fractional output settings (1/2 power, 1/4, and so on). For full TTL automation, you'll need the Speedlite 430EX II.

A note to Canon, Nikon, Olympus, Pentax, and Sony DSLR shooters: Information about the compatibility of manufacturers' older flash units with newer cameras can almost always be found in the camera manual.

Misplaced your manual? Go to the camera maker's website, and download a PDF of the manual for free. This service is usually listed under Support, although sometimes under Drivers and Downloads.

Thinking of buying a new camera maker's flash for your older DSLR? Download the PDF manual for the new flash. It will most likely have a guide to compatibility with older camera models.

TIP FROM A READER

Can't remember exactly what all the custom functions do on your DSLR? Do what I do and take close-up shots of the pages of the instruction manual explaining these settings, and store them on a memory card to take with you when shooting. If you zoom in with the magnifier function in playback, the text is pretty readable. And you can do this for any other operation you're not sure of—I never remember the procedure for making a custom white balance reading, so I store those instructions, too. **Alex Kalanusk**
Staten Island, NY

NEW

Evolution Series

3 ways
to Carry



Sling Pack
on Right
Shoulder



Holds a
Laptop

3 ways
to Access



Left
Side
Access



Backpack
on Both
Shoulders



Right
Side
Access



Sling Pack
on Left
Shoulder



Front Access

Evolution 8 model 5788

Tamrac's new Evolution Series backpacks provide an unprecedented level of versatility. With their unique harness system, the Evolution Series backpacks can be carried three ways while Tamrac's Triple Access System™ provides three ways to access your gear. In addition to a DSLR with a lens attached, the Evolution 8 also carries a laptop, tripod, and other accessories and personal items.

For a FREE 80 page Color Catalog, call toll-free

1-800-662-0717

See the VIDEO online
www.tamrac.com



tamrac®

PHOTO, LUGGAGE & COMPUTER CASES

"In my studio we do everything with Elinchrom's BXRi compacts. In fact, all my strobes are Elinchrom lights - but I don't just use them in the studio - they're with me for location shoots and when I'm on the road doing my live training sessions around the country. I need light I can count on every time, and the BXRi's are ultra consistent and incredibly dependable, and that's really important to me.



I especially love the BXRi's built-in Skyport wireless control and triggering system, because it lets me change power and lighting ratios right from the top of my camera (no more climbing up ladders, or pulling down booms, or getting out of "the zone" just to make a simple adjustment). I do all right from my camera position, and it saves a ton of time, frustration, and money.

Skyport has saved my butt on more than one occasion and honestly, now that I have this type of control I just couldn't go back just being able to pop the lights. The BXRi's with the built-in Skyports have changed everything, and that's why I tell all my friends who are photographers - you gotta go Elinchrom. I love my BXRi's, they just flat out rock!

Scott Kelby

Photoshop was not used to place any elements in this image. Learn more about cameras, photography, Photoshop, Lightroom and many other photography related topics at www.scottkelby.com

info@elinchrom.us www.elinchrom.us

Rebates on BXRi Heads & Kits up to

\$100

**Extended through
January 15, 2011**



WHAT'S
YOUR
ANGLE?

Family Portraits

Parental figures in the animal kingdom

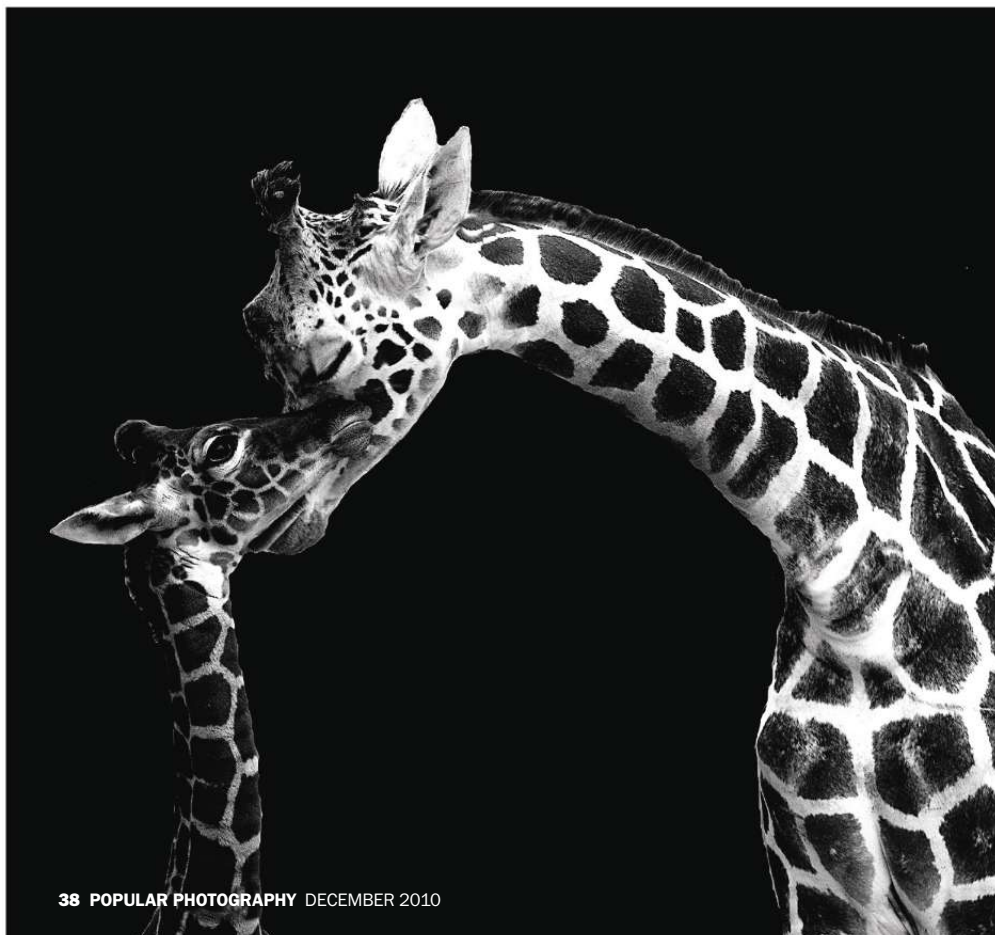


3rd Place \$100 Prize

**NICKY BAY, 32, GAME STUDIO
MANAGER, SINGAPORE**

“Another photographer told me about this shield-backed bug, protecting her eggs in a mangrove park. When I found them, they’d just hatched. I touched the leaf, and a few babies scampered away, then slowly moved back as if they’d gone to play and Mom was calling them home.” (sgmacro.blogspot.com)

TECH SPECS: Nikon D80 with 180mm f/3.5 Tamron Macro lens; 1/100 sec at f/20, ISO 320. Minor adjustments in Adobe Photoshop CS4.



2nd Place \$200 Prize

**MARK ROSENBAUM, 52,
MARKETING DIRECTOR,
GLEN ELLYN, IL**

“At Brookfield Zoo, where I drag my daughters about 25 times a year, they house the giraffes inside during winter—you can get close enough to almost pet them. I was photographing this calf when its mother came to nuzzle up against it. This photo was later published in the zoo magazine.” (www.weshootmemories.com)

TECH SPECS: Nikon D80 with 24–120mm f/3.5–5.6 Nikkor lens; 1/120 sec at f/8, ISO 800. Converted to b&w in iPhoto.

MONTHLY PHOTO CONTEST

Want to enter? Get all the info you need, including the official rules, at PopPhoto.com/YourBestShot.



IT'S TIME TO LOOK AT THE WORLD
FROM A UNIQUE PERSPECTIVE.

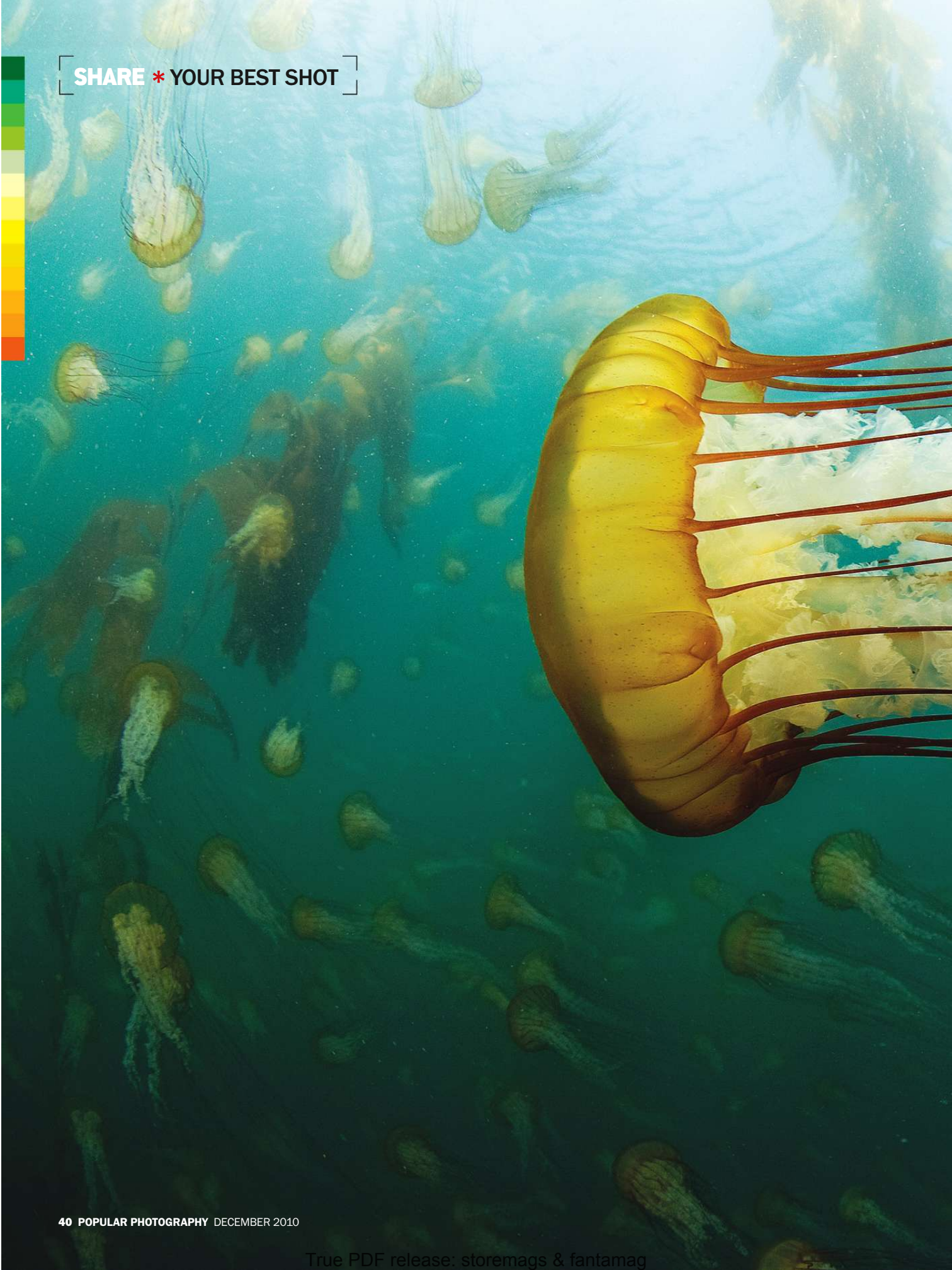
Introducing the new Canon EOS 60D. Featuring our first ever 270-degree 3.0-inch LCD screen that allows you to express yourself from any angle, whether it's an extreme high angle, low angle, or even self-portrait. And with an 18 Megapixel CMOS sensor, 5.3 fps shooting and multiple aspect ratios, you'll capture stunning photography from every direction. Then see beyond the still in 1080p Full HD video.

Inspired. By Canon.



Canon
*image*ANYWARE

[SHARE * YOUR BEST SHOT]





1st Place \$300 Prize

JIM PATTERSON, 36, SALES MANAGER, SANTA CRUZ, CA

"This image was taken in Monterey Bay near Carmel, CA, in the kelp forests bordering Point Lobos State Reserve. I'd heard reports of sea nettles down there, so one day I took my kayak out and anchored it to some kelp to dive. For the first 30 minutes, I barely saw any jellies—and then more and more arrived. I began shooting, using two Sea & Sea strobes for fill light. Soon, I was completely surrounded by jellies, but my fisheye lens let me find and close in on this individual." (www.jimpattersonphotography.com)

TECH SPECS: Nikon D300 with 10–17mm f/3.5–4.5 Tokina fisheye lens, in Aquatica housing; 1/160 sec at f/6.3, ISO 200. Adjustments in Adobe Photoshop CS3.



Really Right Stuff
your camera support experts

Really Right Stuff understands the importance of a superior camera support system, which is why we are fanatic about quality. Our extensive line of tripods, ballheads, quick-release systems, flash brackets, pano gear, and studio gear delivers soul satisfying uncompromised quality and performance.

www.ReallyRightStuff.com

(805) 528 6321 or toll-free in US & Canada (888) 777 5557

Really Right Stuff® is a registered trademark of Really Right Stuff, LLC

True PDF release: storemag & fantamag

HOW

EXPERT TIPS AND TECHNIQUES FOR BETTER PHOTOS

TAKE A WILDLIFE ROAD TRIP OR SHOOT A SURFER WITHOUT GETTING WET



50

BOUNCE SUN FOR SOFT LIGHT



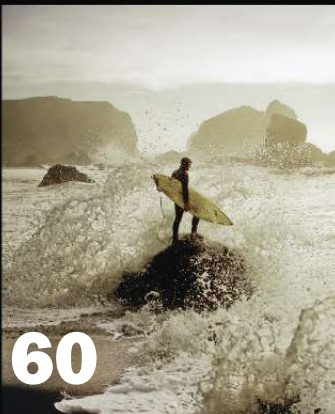
54

MASTER THE BASICS OF RAW



56

60



CREATIVE THINKING



A SENSE OF SPEED

Regis Lefebure captures the excitement of driving fast

EVER TRIED getting a good shot out the window of a car that's going 80 miles per hour? It gets a little bit easier when you're in the

left-hand front passenger seat of a British Audi RS6 sedan, riding with Formula 1 racing star Allan McNish.

This was how Washington,

Exposure:
1/80 sec at
f/10, ISO
200. See
text for
camera and
lens info.

DC-based motorsports photographer Regis Lefebure managed to capture the speed and drama of Eau Rouge, a famous segment of the twisty Circuit de Spa-Francorchamps racetrack in Belgium, while working on a promotional project for Audi in 2004.

As the car dropped downhill

approaching the famous turn, Lefebure saw his chance to combine all the visual elements of the track's landscape into a signature image for his client. "The left side was perfect for photographing the down-and-up, left-then-right progression of the curve," he says.

The photo appears to have been taken with a camera mounted to the side of the car, but Lefebure uses external camera rigs only at slower speeds, where the risk of losing the camera is low. Instead, leaning his head and left shoulder out the window, he was able to two-handedly hold his Canon EOS-1D Mark II away from the car with the camera strap wrapped around his arm.

Because finessing composition under the circumstances was impossible, Lefebure chose a 15mm f/2.8 Canon fisheye lens and focused it manually to hyperfocal distance using the depth-of-field scale on the lens barrel. By stopping down to f/10, the depth of field would be adequately deep to render everything from the front wheel to the background relatively sharp. He particularly wanted the RS logo on the wheel's brake caliper in focus—important for identifying the car as an Audi.

To ensure some motion blur in the wheel and foreground, conveying a sense of forward motion and speed, Lefebure set the camera to ISO 200 and 1/80 sec in shutter-priority mode. During races, "this turn is usually taken at 160 mph. It's very impressive and I wanted to convey that sensation," he says.

To make sure he got his shot, Lefebure used the high-speed continuous shooting mode, capturing several frames in rapid succession. Only this one was a keeper. —**Laurence Chen**

FIX IT FAST

Dark Alley

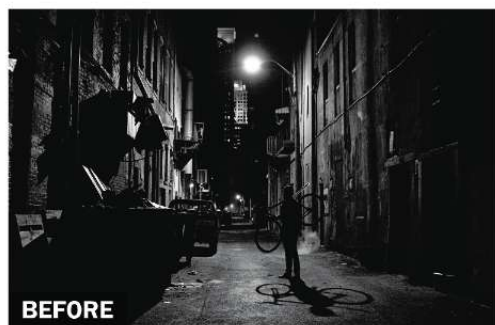
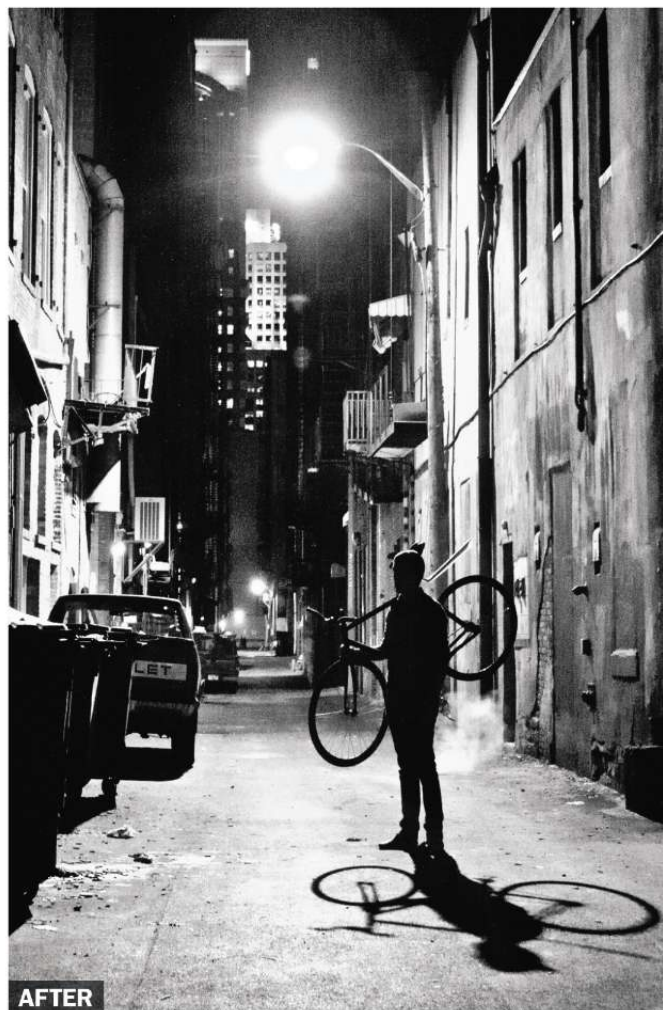
Getting a little light in the dark

SILHOUETTES AND shadows make great graphic elements, but there is such a thing as too much darkness. So we decided to get more light into Pittsburgh-based Ian Mommyer's shot. Starting in Adobe Camera Raw with his original file, we stayed with a b&w conversion, since the original color image was nearly monochromatic.

In the HSL/Grayscale tab, we pushed the color balance toward yellow (predominant in the original), which brightened the photo. We added Fill Light for more detail, and Clarity to up the midtone contrast.

Now the photo looked cluttered, and we realized it should be a vertical. We cropped, taking out a lot of distractions. Time fixing: 10 minutes.

Mommyer shot with a Canon EOS 7D with 28–135mm f/3.5–5.6 EF IS lens; 1/60 sec at f/3.7, ISO 2000.

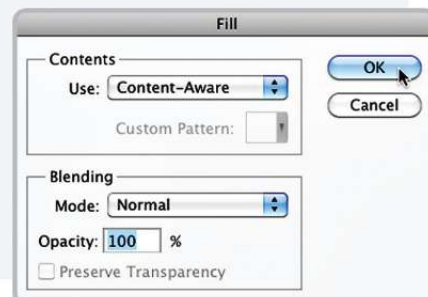


IAN MOMMYER/WWW.GOVISUALNOW.COM

30-SECOND SOFTWARE

HOW TO USE CONTENT-AWARE FILL

ONE OF THE MOST TALKED-ABOUT FEATURES IN ADOBE PHOTOSHOP CS5 is Content-Aware Fill, which can intelligently, and almost magically, replace image data you don't want with image data you want. The Healing Brush now uses Content-Aware Fill's algorithm by default. But for areas too big to correct with the Healing Brush, try using it with the Fill command. To do so, grab the Lasso tool. Roughly encircle the offending element—say, a piece of garbage on an otherwise-pristine beach—and go to Edit > Fill. Use the pulldown menu to select Use: Content-Aware. Leave the Blending Mode at Normal, and click OK. Then watch as the garbage disappears, replaced by clean sand. Too bad it works only on images.



SONY ARTISANS OF IMAGERY: MASTERS OF HIGH-PERFORMANCE IMAGING



"My underlying goal is to convey the sensual aspect of whatever I photograph, to capture its visceral presence so the viewer experiences what it feels like."

— Andy Katz

© Andy Katz

ANDY KATZ

A FINE-ART PHOTOGRAPHER WHO TRANSCENDS GENRES TO CAPTURE AN INDELIBLE SENSE OF PLACE, TIME, AND PASSION



Based in Sonoma, California, Andy Katz has traversed the globe, creating compelling images as diverse as his adventures. Acclaimed for iconic American landscapes, revealing portfolios of people and places in Africa, Asia, India, and Japan, and intimate and engaging books on wine-producing

regions, he has also documented such emotionally charged subjects as the vanishing Jewish communities of Eastern Europe—all with an artist's empathetic and incisive eye. "I knew I was going to be a photographer since I was 11 years old," says Katz, who attended the Art Center College of Design in L.A. and has been a full-time pro for over 30 years. "My underlying goal is to convey the sensual aspect of whatever I photograph, to capture its visceral presence so the viewer experiences what it feels like."

Critics and top photographers have described Katz's photo books as "breathtaking" and his mastery of genres from travel to fine-art nudes to documentary photojournalism is legendary

among his peers. His evocative works have been published in leading American and European magazines and exhibited in museums and galleries worldwide, including the esteemed Klutznick National Jewish Museum in Washington D.C. As a testament to his versatility, Katz has shot memorable album covers for the Doobie Brothers and Dan Fogelberg, and he's working on an offbeat travel project, "Hidden Gems of America."

Andy Katz is a dedicated Sony Artisan, and he's "ecstatic" about his Sony Alpha 900. "The lenses are phenomenal," he exults. "The Sony 70-400mm f/4.5-5.6 G is the best-ever ultra-zoom, the 24-70mm f/2.8 Zeiss Vario-Sonnar is the best lens I've ever used period, and the 16mm-35mm f/2.8 is superb. The Alpha 900 is the smallest, lightest, most ergonomic pro DSLR, and it's absolutely bulletproof—even in the bitter temperatures and extreme weather I encountered in South Africa. Sony's SteadyShot INSIDE image stabilization works brilliantly with all lenses, allowing you to capture crisp images that would otherwise be impossible. To cut to the chase, the Alpha 900 system delivers absolutely magnificent image quality. It's the Sony 24.6 MP sensor, it's the tech, it's the build—and there's no better glass on earth."



What is a Sony Artisan of Imagery? The Sony Artisan of Imagery program includes some of the most respected professional photographers worldwide. Each Artisan has a unique style and vision with their photography but they all rely on one product, the Sony Alpha.

Sonystyle.com

SONY
make.believe

QUICK TIP

Nature's Filter

Wait for mist to roll in

LANDSCAPE photographers who respond to saturated color and sharpness will often pack up and leave if fog, mist, smoke, or haze moves in. Whoops! They miss a lot. Atmospheric conditions in which dry particles or water droplets are visibly suspended in air can add a lot to a landscape. What you'll get:

An exaggerated sense of depth. As mist or haze recedes into the distance, it takes on darker tonalities that strongly convey a scene's depth and dimensionality.

More details. You can easily tweak the shadows and

midtones in low-contrast landscapes, such as those shot in light fog, until you find a suitable look for the scene. Low-contrast landscapes are much easier to work with than the black-shadowed, high-contrast scenes shot under a naked sun.

Light made manifest. As sunlight streams through airborne water vapor, the tiny illuminated droplets make it visible. In shots like this mist-enveloped Washington state pine forest by Ethan Welty, the strikingly evident sunbeams take on an otherworldly, mystical look that transforms the landscape into something almost spiritual.

—Peter Kolonia

Ethan Welty shot this with a Canon EOS 40D and 17–55mm f/2.8L Canon zoom. Exposure: 1/125 sec at f/5.6, ISO 200.

ETHAN WELTY



DID YOU KNOW? LIGHTING RATIOS

A COMMON WAY to describe both quantity and quality of light is the lighting ratio. It indicates the amount of light (in stops) that illuminates the highlights compared with the shadows. The first number in the ratio refers to the key- or main light; the second to the shadows or fill light. The closer the two numbers are to each other (e.g., 1:1), the flatter the overall lighting. The more they vary (e.g., 4:1), the higher the overall contrast. Lighting ratios can help you retain detail. If your camera's sensor can capture a 6-stop range of highlight-to-shadow detail, and your scene has a lighting ratio of 7:1, you must drop light levels in the highlights or add light to the shadows until you reach a 6:1 ratio.

Ratios can be determined with in-camera spotmeters, but handheld flash meters such as Sekonic's L-358 (left) can be easier—their manuals explain how in step-by-step instructions.

What's This?



Second-Curtain Sync

Electronic flash is ordinarily synchronized to fire as soon as the first curtain of your shutter opens. This is usually the safest bet—you get the flash to fire quickly to catch a fleeting expression or peak action. But with slow shutter speeds, this can cause motion blur to go in the wrong way—in front of your subject. Trailing sync (a.k.a. second-curtain or rear-curtain sync) fixes it.

► **How it works:** Trailing sync triggers the flash near the end of the exposure rather than at the beginning. You set it via a menu or flash-mode control—a typical icon is shown above. Most cameras have it.

► **When to use it:** To convey a sense of motion in a runner, cyclist, or other moving subject, set a slow shutter speed (1/15 sec or longer) with trailing sync flash. You get a sharp image of your subject with blur trailing behind.

The fastest, easiest portrait touch-up software.

FREE
UPGRADE to VERSION 10



© Howard Ashton-Jones

Portrait Professional 9 is the world's first intelligent retouching software trained in human beauty. Designed specifically for photographers, it produces magazine quality yet natural looking results in minutes. No skill is required.

With Portrait Professional 9 it is incredibly fast and easy to:

- remove skin blemishes, wrinkles, and lines
- eliminate grease, sweat, or shine from the skin
- brighten and enhance eyes and lips
- subtly reshape and beautify facial features
- improve hair
- adjust the lighting on the face to make it more flattering
- all this and a lot more simply by moving sliders.



Popular Photography readers get an extra 10% discount if they enter the code **LJ0778** when buying online.

Download your free trial now!
www.PortraitProfessional.com



PortraitProfessional 9

THE EXPLAINER

Talking Resolution

Not just counting dots

RESOLUTION, AT its most basic, means the ability to show fine detail. But because the word is used in a variety of ways, it can be confusing.

These days resolution is commonly used as a stand-in for pixel count. We talk about a sensor having a resolution of 3000x2000 pixels, or, doing the multiplication, of 6-million pixel or 6-megapixel resolution. Strictly speaking, this is not an accurate use of the term (and we stand guilty as charged). Because digital images are made up of dots, and dots are recorded by pixels, the broad

assumption is made that the more pixels, the higher can be the resolution, and the sharper the picture.

But as we've seen, many other factors can influence image quality. Notably, bigger individual pixels often make for better image resolution. The camera's processor, and processor firmware, have an influence, too—we often see two cameras of different makes that use the same digital sensor but which test out with significantly different resolutions (see box, below). We've seen that 12MP cameras can test out with the resolution of a typical 10MP camera, and vice versa.

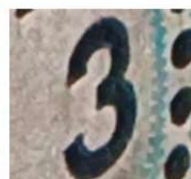
So pixel count is really an indicator of *potential* resolution. As such, it provides a handy, if loose, rule of thumb for the enlargeability of images. The point of having lots of dots in an image is that you can stuff them together tightly to make what can look like a continuous-tone image. We consider 240 dots per inch (dpi) the minimum necessary for a "photo quality" enlargement. So, if you were using that 3000x2000-pixel camera, just divide those numbers by 240 and you get maximum enlargement size: about 12.5x8.5 inches.

Keep in mind, though, that just because a sensor has 6 million pixels it doesn't have to produce a picture with 6 million dots. Some of the pixels may be used for other purposes. Pixels come in red-, green-, and blue-recording varieties, so several pixels may be used to produce one picture dot. And some pixels are simply dead.

—Dan Richards

INSIDE SCOOP HOW WE TEST RESOLUTION

THE POPULAR PHOTOGRAPHY Test Lab uses a resolution test target to measure how well digital cameras render fine detail. It has several arrays of lines—arranged vertically, horizontally, and diagonally—that get progressively thinner and closer together along their length. We photograph the target, making sure it fits the picture frame exactly, and then evaluate the lines. We note the last point at which they can clearly be discerned. The chart's numbers (in hundreds) tell us the equivalent resolution in lines per picture height (the short side of the frame): A res score of 2000 means the camera can clearly picture 2000 horizontal lines stacked on top of each other vertically.



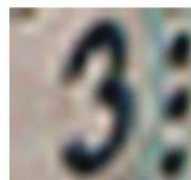
4288x2848



3216x2136



2144x1424

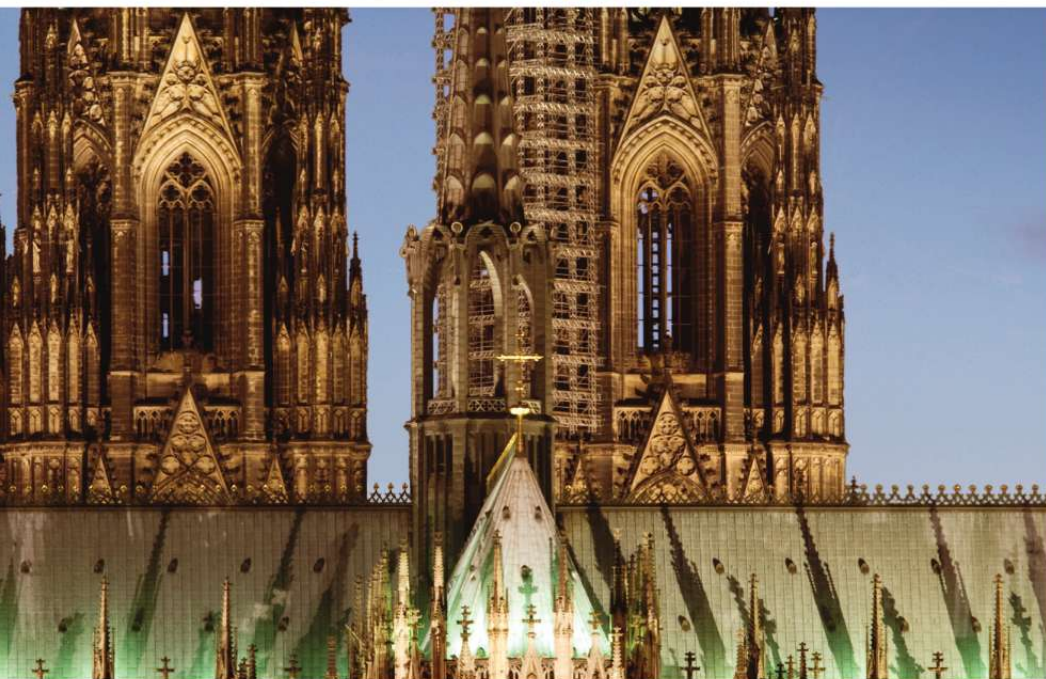


723x480

MORE DOTS, SHARPER PICTURE
We shot this scene with a 12.2MP camera, and opened the file in Adobe Photoshop CS3. We then reduced the file three times to three different pixel counts, ranging from the camera's top 4288x2844 resolution to approximately VGA quality. (Details above.) In the sidebar, a detail of our resolution test target.

Zoomed. Not Shaken.

Tamron 18-270 VC 15x Zoom
with Vibration Compensation



Top: shot at 18mm; Bottom: shot at 270mm from same position



Tamron's award-winning 18-270mm all-in-one zoom has an incredible 15X wide-to-super-tele range plus an advanced VC anti-shake system!

Tamron's AF18-270mm Di II VC is the world's only 15X zoom lens for consumer DSLRs. And our image stabilizing VC mechanism lets you shoot anywhere, anytime without the worry of camera shake. It's the perfect lens for your next vacation. School play. Birthday party. Well, you get the idea. Tamron 18-270 VC: Zoomed. Not Shaken.



18-270mm F/3.5-6.3 Di II [VZ]

Model B003 For Canon and Nikon



\$150
MAIL-IN REBATE
Thru 12/31/10

TAMRON USA Inc.
www.tamron.com

Tamron-Manufacturer of precise and sophisticated optical products for a broad range of industries.

TAMRON
New eyes for industry

ALL-IN-ONE 15X ZOOM



Wildlife Drives

Discover nature from your car

IT MAY BE the easiest way of getting close to nature: taking a wildlife drive through a wildlife refuge. These routes, designed for the best views of birds and beasts, also provide one of the best ways to photograph them.

The benefits? Being able to cover miles of terrain without hauling your camera gear on foot, and gaining quick access as you go from one photo destination to another. Staying in your car protects you from weather and mosquitoes, allowing you a more comfortable shooting experience, and keeps you safe from any wildlife threats. And because birds and animals tend to ignore cars, your vehicle works as a rolling blind.

Many wildlife drives have designated viewing areas and plenty of pull-off room that allows you to stop and photograph at will.

But although it's acceptable to get out of the car at many sanctuaries, staying inside puts a lot less stress on wildlife. Steady the camera with a sandbag or rolled-up sweater in the window frame, or use a specially made window tripod. My Leonard Lee Rue Groovin' pod (\$259; www.rue.com) easily handles my 400mm lens with a 2X tele-extender.

On your first visit, grab a sanctuary map on the way in, and do a drive-through to get the lay of the land and scope out hot spots. Look for active feeding stations—tidal pools if you're shooting egrets, for example. Then settle in one place with your engine off, and let the critters come to you. Shooting from the back seat will give you more elbow room.

The same rules apply to drive-by shooting as any wildlife outing: Arrive early and stay until twilight, when lighting is better and the residents more active. Finally,

SCENIC ROUTES
Wildlife drives can get you surprisingly close to scenes like Jon McRay's of two foxes fighting in Bombay Hook NWR. Photographed with a Nikon D300 and 80-400mm f/4.5-5.6 VR Nikkor lens; 1/800 sec at f/7.1, ISO 500.

keep in mind that many refuges (oddly enough) have a hunting season that may temporarily close wildlife drives—be sure to check the refuge calendar. —Jeff Wignall

WHERE TO GO

Winter is prime viewing time at many refuges, particularly for bird migration routes. Here are notable wildlife drives:

- **Cibola National Wildlife Refuge, Cibola, AZ:** Also called Canada Goose Drive, it's a 3-mile auto-tour.
- **Bombay Hook National Wildlife Refuge, Smyrna, DE:** A 12-mile loop.
- **Neil Smith National Wildlife Refuge, Prairie City, IA:** 740-acre drive-through bison and elk sanctuary.
- **J. N. "Ding" Darling Wildlife Drive, Sanibel, FL:** 5 miles; closed Fridays.
- **Black Point Wildlife Drive, Titusville, FL:** 7 miles of birding ops.
- **Edwin B. Forsythe National Wildlife Refuge, Oceanville, NJ:** 8 miles of coastal habitats.
- **Bosque del Apache National Wildlife Drive, San Antonio, NM:** 12 miles in two loops—marsh and farm.

Take it.
Check it.
Make it.
From your camera
to your wall.

WALLZAZ.COM

Custom Wall Decals Straight to Your Door



Call us to receive special offers for photographers

1-800-935-3534
www.wallzaz.com
By Post-Up Stand

A LIGHTWEIGHT HEAVYWEIGHT

**PANASONIC'S NEW LUMIX GH2 LOADS UP ON PROFESSIONAL FEATURES,
YET IS COMPACT AND POINT-TO-SHOOT SIMPLE**

Looking for a small, lightweight camera that takes stunning professional-level 2D and 3D still photos and records professional-quality video in full HD? Hard to find all that, isn't it? Not now. Panasonic's new Digital Single Lens Micro (DSLM) camera, the LUMIX GH2 offers it all, and more. You probably expect the LUMIX GH2 to include features loved in its successful predecessor, the LUMIX GH1: interchangeable lenses, impressive HD video, manual controls and fast auto focus (AF). But what makes the LUMIX GH2 really stand out from traditional DSLRs on the market is its easy-to-use 3.0-inch touch-to-shoot LCD screen and full HD 1920 x 1080 video recording in smooth 60i or cinematic quality 24p with stereo sound—all while fitting in the palm of your hand.

Compatible with the Micro Four Thirds System standard, the LUMIX

GH2 is the most advanced camera yet in Panasonic's popular LUMIX G Series. What makes it so advanced? Speed, for starters. The LUMIX GH2 is newly designed with a 16.05-megapixel multi-aspect LIVE MOS sensor and a refined image processing engine, the new Venus Engine FHD. Together, they deliver fast, sharp photos, full HD video recording and the ability to take 3D photos with Panasonic's world's first¹ interchangeable 3D still lens. The LUMIX GH2 also features faster professional DSLR level "Light Speed" AF, reducing detection time for focusing to approximately 0.1 second by doubling the AF drive speed from 60 frames per second to 120 frames per second.

Sure the technology is important, but is it fun? The LUMIX GH2 gives new meaning to multitasking. This true hybrid digital camera not only takes stunning 14 MP (16:9) photos dur-

ing video recording but it also ups the ante with full AVCHD DVD-ready video recording. To make it easy, the dedicated button on the top of the camera lets you instantly record videos while shooting photos. And for the creative bunch, the LUMIX GH2 features new modes for cinematic effects: the new Cinema mode (1080/24p AVCHD 24Mbps), which records video with rich cinematic-like gradation, and the new Variable Movie mode, which records video in variable frame rates—80, 160, 200 and 300 percent—for speeding up or slowing frames. It even supports cinema "pull focus" effects simply by touching the subject you want to change focus to on the Touch LCD. The Dolby® Digital Stereo Creator and optional accessory Stereo Microphone improve sound for truly impressive videos.

The LUMIX GH2 also features intuitive touch-control operation, made popular



with the LUMIX GH2 for its outstanding usability in menu simplicity, touch-to-shoot shutter control, and swipe playback feature. The LUMIX GH2 combines a 460,000-dot high-resolution Intelligent LCD with the newly developed Multi Aspect Wide Screen LVF (Live View Finder) for more comfortable shooting and 100 percent field of view. You can touch and view the 3.0-inch LCD screen from any angle, rotating it 180° side to side and tilting it 270° vertically. And then literally point and shoot. With just a touch of the screen you can adjust AF and bring your subject into focus against the background. It even tracks a moving subject simply by touch, so you can concentrate on composing instead of worrying about focus. Touch the screen again to change the mode, or simply drag the image on the screen to enlarge it up to 10x. You can even touch thumbnails to play back images or touch the screen to change menu settings quickly.

The new large, bright 1,530,000-dot resolution Multi Aspect Wide Screen LVF features Live View at popular aspect ratios of 4:3, 3:2, 16:9, and even 1:1, letting you check the framing accurately from corner to corner when composing a shot. Or simply capture all four image aspect ratios in one shot with the new Multi Aspect Bracket mode.

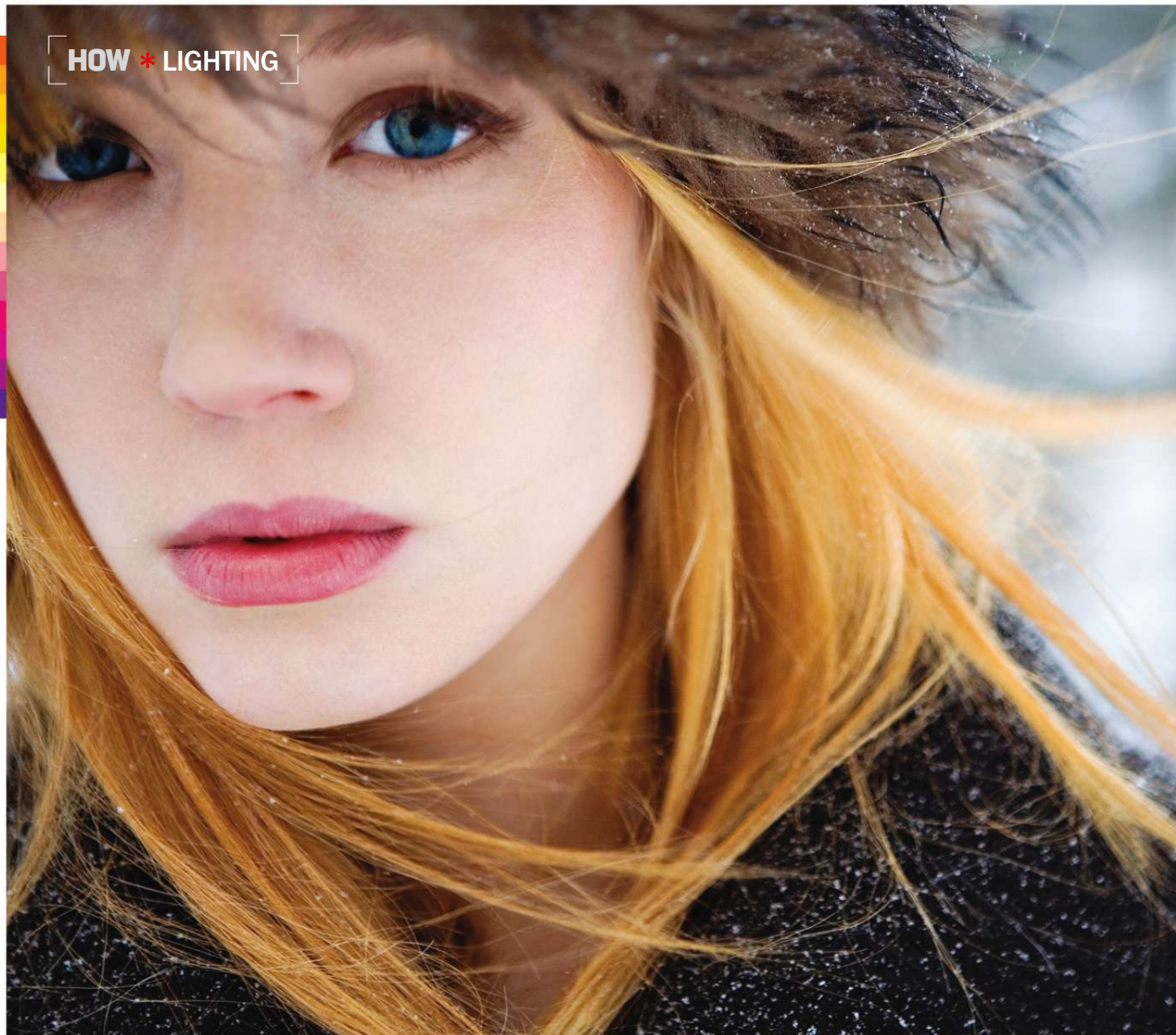
THE LUMIX GH2 GIVES NEW MEANING TO MULTITASKING

The LUMIX GH2 features 22 different shooting modes for creative shooting options, including 10 different video modes. Even beginners can take stunning photos with the LUMIX GH2, thanks to Panasonic's iA (Intelligent Auto) mode, a popular setting in the LUMIX point-and-shoots that automatically engages features and settings to optimal image quality by detecting the shooting environment. New additions

to the iA mode include Intelligent D-Range Control for optimized exposure of an image and Intelligent Resolution for better-balanced sharpness in images should you want to print them at a larger size. And with more shortcut buttons on the LUMIX GH2, you can now find your frequently used settings more easily.

For more information on Panasonic's latest LUMIX digital cameras, lenses and accessories, please visit www.panasonic.com/lumix. To see how others, like you, are enjoying their LUMIX cameras, visit us on Flickr: <http://www.flickr.com/groups/lumixlovers/>

LUMIX
Panasonic ideas for life



Snow Light

The best tools can also be the simplest

GREAT LIGHTING often calls little or no attention to itself. Rhea Anna's portrait of a professional model, above, appears lit by simple ambient light. A casual viewer wouldn't guess that the Buffalo, NY-based pro photographer actually used three different reflectors (one, the snow) to punch up and warm

up the thin, wintry light that fell softly from the overcast sky above.

Examine the picture closely, though, and you will see evidence of Anna's reflector-based strategy—for example, the shadows typical of a top-lit portrait are absent. The chin, nose, the ridge above the left eye, and the hat would normally have cast shadows if lit solely from above,

For more of Anna's work, including the striking photo essay containing this image, visit www.rheaanna.com.

but here they're shadow-free.

"I love the soft, even lighting you can get by combining ambient light with reflectors. I couldn't have made this without that combination," she says. "The knee-deep snow helped, too."

Her lighting strategy was actually comprised of four different components, each serving a unique purpose:

• **Overcast sky.** This was Anna's main light, and its dense cloud cover provided a softbox-like source that was large, bright, and very diffuse.

HOW TO LIGHT WITH REFLECTORS

SIMPLE  COMPLEX

To light a model in 2 feet of snow on a farm in Orchard Park, NY, pro photographer Rhea Anna relied solely on reflectors. She started by mounting a Canon 24–70mm f/2.8L EF lens (A) on her Canon EOS 5D (B). Her main light was the overcast sky above, and her fill light was cast mostly by the snow below (D). To add punch and directionality to the lighting, she placed a white, 42x72-inch F.J. Westcott Scrim Jim reflector (E) to one side of the model, and to warm up the ambient light's heavy blue cast, a 32-inch gold Photoflex LiteDisc (C) on the opposite side. Nonelectrical reflectors are perhaps the best, safest, and often only lighting tool for photographers working in and around snow or water in all its forms.

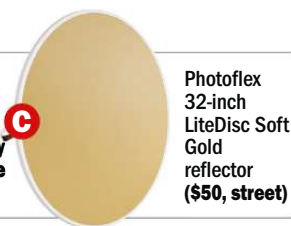


THE GEAR

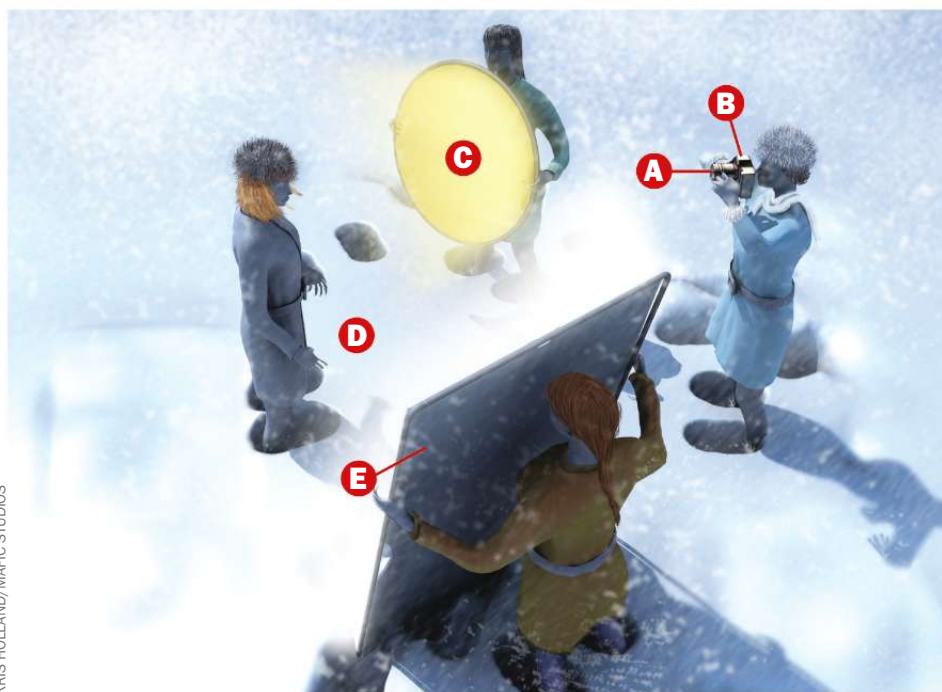
Canon EF
24–70mm
f/2.8L
(\$1,350,
street)



Canon EOS
5D DSLR
(\$2,500,
street, body
only, for the
5D Mark II)



Photoflex
32-inch
LiteDisc Soft
Gold
reflector
(\$50, street)



KRIS HOLLAND/MAFIC STUDIOS

•**Snow.** Opposite the sky, the blanket of white snow on the ground served as a similarly large panel of light, a natural reflector. Notice how the model's chin appears lighter than her cheekbones? It's the rapidly falling-off fill light cast up by the reflective snow.

•**White Reflector.** Anna's large, soft, natural light sources were a little too diffuse, flat, and lacking in contrast. "To add some life, I used a white reflector, but not positioned too close. It gave the scene a brightness and the light

Exposure data:
1/60 sec
at f/2.8,
ISO 100.

a directionality," she explains. "What would have been flat and lusterless now had a slight contrast and punch."

•**Gold Reflector.** Another problem with using an overcast, winter sky as your main light? Its typically blue color temperature. Cool-toned light can be lifeless, wan, and unflattering to portrait subjects. Anna warmed hers up with a soft, nonmetallic, gold reflector. Its warmth contrasted nicely (and subtly) with

the cool, blue-toned background, and it goosed color saturation, particularly of the model's strawberry blond hair.

The best thing about reflectors? They're easy to use. "We had an ambitious shot list that day. I didn't have time to deal with lightstands and artificial sources," Anna says. "I handed my assistant and stylist each a reflector, and in less than 15 minutes we were done and on to the next shot." —Peter Kolonia



AFTER

RAW 101

How to process and save your RAW files, from start to finish

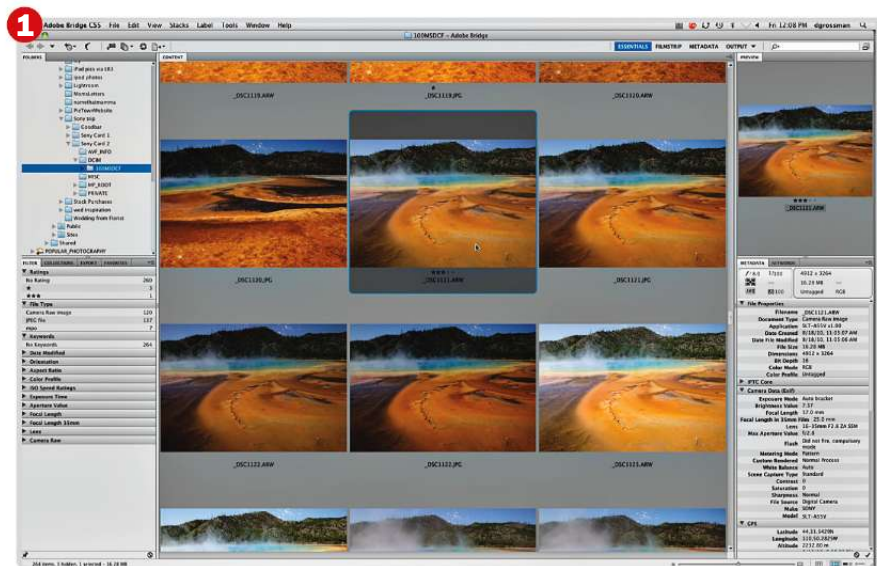
SHOOTING RAW can be daunting, especially if you don't know what to do with the files when you get them out of the camera. Unlike JPEGs, which are "cooked," RAW files contain a ton of data that must be manipulated before you can edit your image and make it small enough to be e-mailed and viewed by family and friends.

DEBBIE GROSSMAN

Despite the extra work, RAW files are worth it. They let you control white balance, saturation, and contrast as if you were doing so while shooting. Because RAW files utilize lossless compression, you should be able to get better detail and sharpness, without artifacts, when you enlarge them. Finally, you'll have more of a

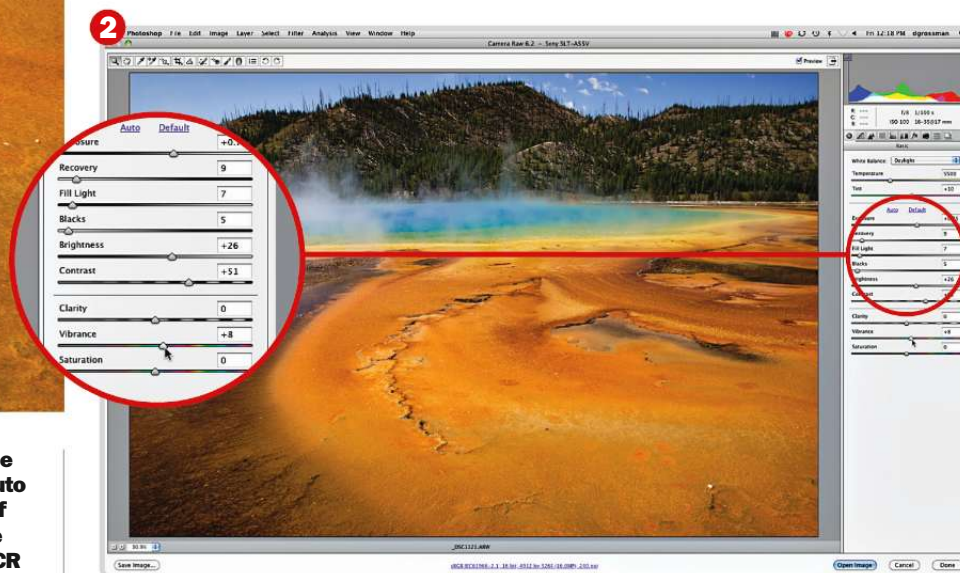
chance of recovering what seems like lost shadow and highlight detail in your picture.

Here are the basics on how to open, convert, and save your RAW files, from start to finish. These instructions are for Adobe Photoshop CS5, but will work similarly in previous versions and in Elements. —**Debbie Grossman**

SIMPLE  COMPLEX

Step 1

BECAUSE RAW FILES must be converted before you can edit them, opening a RAW file from Adobe Bridge automatically brings up Adobe Camera Raw (ACR), the conversion plug-in that comes with Photoshop. **To start the process, simply find your image in Bridge and double-click on it.**



F.Y.I.

MOST CAMERAS GIVE YOU THE OPTION OF SHOOTING RAW + JPEG. Doing so is not a bad idea if you have lots of pictures you'll want to share quickly online. Because RAW files are larger, shooting both uses up memory card and hard drive space faster. Devotees of RAW often opt to forego the JPEGs and instead use a program dedicated to RAW, such as Apple Aperture or Adobe Lightroom, to quickly process their RAW files into JPEGs.

Click the word Auto to see if you like what ACR does with your image automatically.

Step 2

THE MOST IMPORTANT tools for conversion are in the Basic tab of Adobe Camera Raw, which appears by default on the right side of your screen. **Adjust the sliders to get the look you want. Start by adjusting Exposure to set the white point and Blacks to set the black point.** If you don't like your image's white balance, use the pulldown menu to choose a preset or adjust the Temperature and Tint sliders. Then add Clarity for more midtone contrast, and Vibrance if you want more intense colors.

Step 3

NOW GO TO the Detail tab.

Although JPEG sharpening happens in the camera, RAW files need sharpening applied during conversion. ACR

automatically adds a little sharpening—adjust it as needed. The program also does a little noise reduction by default. Images like this one, shot at ISO 100 in bright daylight, typically need no noise reduction, so it's turned off here.

Step 4

TO CHOOSE the settings with which you'll open your file, click on the link running along the bottom of the screen: it will bring up a dialogue box. Because you want to create the highest quality file possible, with the most information contained in it, choose the ProPhoto RGB color space, a bit depth of 16 Bits/Channel, and your camera's maximum megapixel amount. Click OK. Then hit the Open Image button to bring the file into Photoshop.

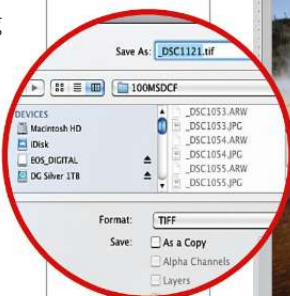
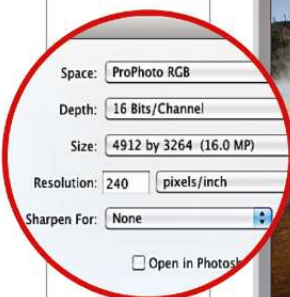
Step 5

NOW SAVE YOUR FILE—this will be your master file. Go to File > Save As, and choose Format: TIFF. The default TIFF options are fine. Do all of your image editing and retouching, and continue to save as you work.

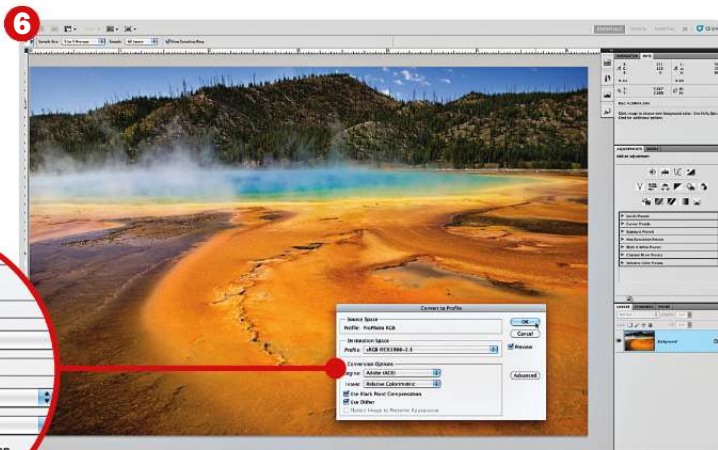
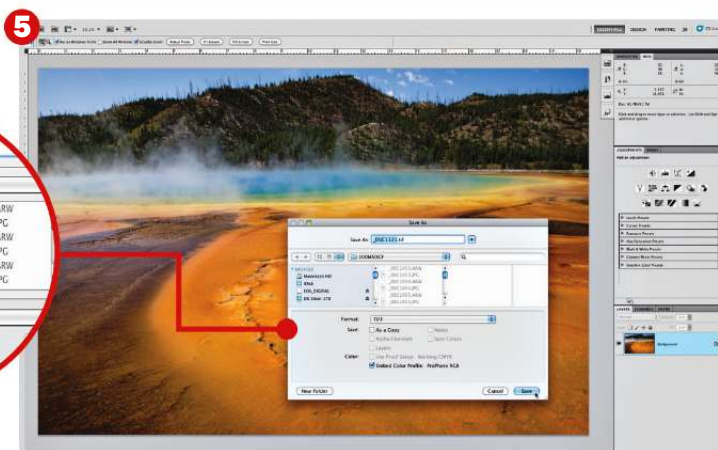
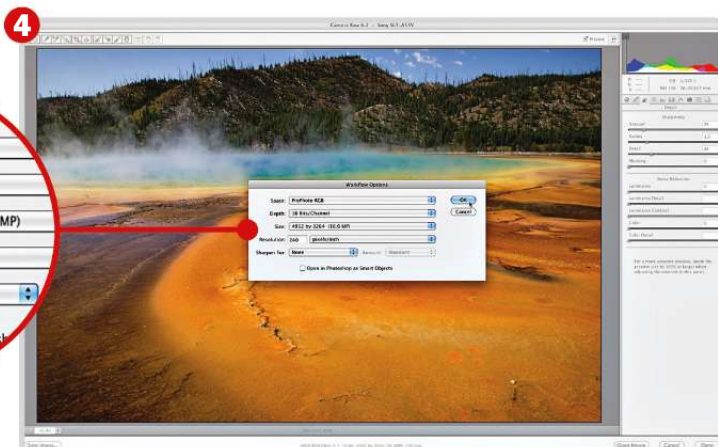
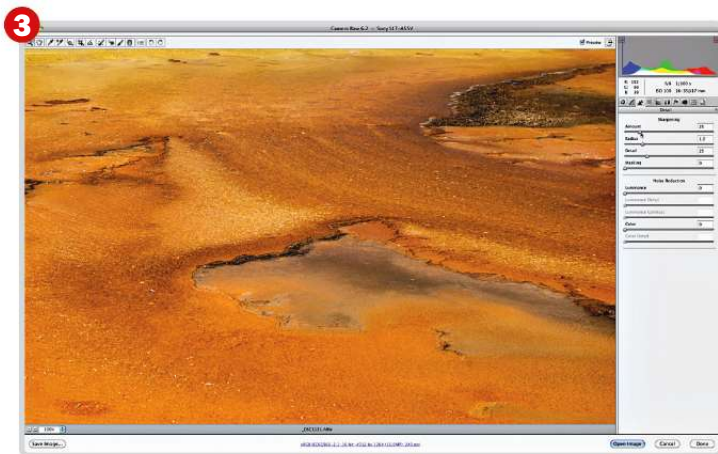
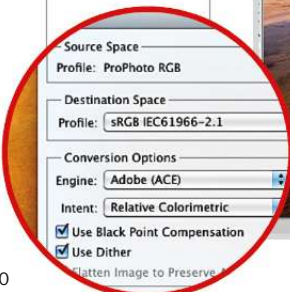
Final Step

WHEN YOU WANT TO print or share your file, prep your master file first. For printing, resize it to the print size and then sharpen. For e-mailing, shrink it and then sharpen. Finally, before you e-mail, change the color space to sRGB by going to Edit > Convert to Profile. Choose sRGB as your Destination Space and click OK.

For more on sharpening in ACR, see Software Workshop, September 2010.



You'll lose your layers when you save your file as a JPEG, so do so only when you're finished editing.



storemags & fantamag - magazines for all

NEWEGG.COM

Voted Best Place to Buy Online
7 Years in a Row! -Shopper's Choice Award

YOUR **Canon**
SUPERSTORE



Search Newegg: 30-120-459 **Canon**

EOS Rebel 60D 18.0 MP 3.0" LCD Digital SLR Camera w/
EF-S 18-135mm f/3.5-5.6 IS Lens

Canon Photo Contest Winner -Stella Blue In Colorado



Canon

Search Newegg: 30-120-468

PowerShot G12 Black 10.0 MP
2.8" LCD 5X Optical Zoom 28mm
Wide Angle Digital Camera



Canon

Search Newegg: 30-120-469

PowerShot SX30 IS Black 14.1 MP
2.7" LCD 35X Optical Zoom
4X Digital Zoom Digital Camera

TAKE A SHOT WITH **CANON'S FINEST**

WITH CANON DSLR'S AND ACCESSORIES, ANY ENTHUSIAST CAN SHOOT LIKE A PRO
THIS **HOLIDAY SEASON**. SHOP NEWEGG TODAY FOR CANON'S FINEST SELECTION.

www.newegg.com/canon

BLACK FRIDAY
SHOP ON

STARTS NOVEMBER 24TH

ONCE YOU KNOW, YOU NEWEGG.®

Follow us on:



©2000-2010 Newegg Inc. All rights reserved. Newegg is not responsible for pricing or other errors and reserves the right to cancel orders arising from such errors. All third party logos are the ownership of the respective owner.

[HOW * YOU CAN DO IT]

Surf's Up

Treat surfing imagery like a seascape



CONVENTIONAL SURFING photography is neither easy nor inexpensive. Photographers who shoot from the water deal with clumsy underwater housings while fighting buffeting waves; those who set up on the beach require heavy and expensive tripod-mounted tele rigs.

To counter back-lighting, Harris dialed in +1.33 stops of exposure comp. Final exposure: 1/6400 sec at f/1.4, ISO 100.

Charles Harris, a travel photographer based in Raleigh, NC (www.charlesharris.com), uses a different approach. His photo of a surfer at Luffenholtz Beach in northern California shows that by combining elements of landscape, portrait, and sports photography, you can capture surfing's man-versus-

nature ambience with a simple standard focal-length lens, while not getting your feet too wet.

The hardest part? Locating a beach as stunningly beautiful as Luffenholtz. To find his, Harris did the obvious: He asked a surfer. Derek Bond, pictured here, suggested several beautiful beaches



For equal parts sports and seascape, Charles Harris used a handheld Canon EOS-1Ds Mark III (A) and 35mm f/1.4L Canon lens (B). He edited the image and vignettted the corners in Adobe Photoshop Lightroom 3 (C).

—Peter Kolonia

near his Trinidad, CA, home, and this picture is the result. Surfers can also tell you when to expect the largest waves, when the beach won't be crowded with other surfing buffs, and even when the quality and direction of the light is best.

To effectively combine the

figure and landscape, Harris also had to find an appropriate vantage point. "I scrambled up a slippery rock ledge in order to get an overhead view," he says. "It didn't hurt that at just about that moment, storm clouds came rolling in off the Pacific."

Step 1

Scout locations. Ask surfers, or search Flickr and other online imaging resources, for beautiful beaches near you. The best light is usually early or late in the day. "Some of the best photo opportunities are during the brief periods between changes in weather," Harris suggests.

Step 2

Gather your gear. To capture an expansive seascape, you'll need a wide-angle lens. As always when shooting near sand and surf, protect your rig from both with, at the minimum, zipped plastic bags. Bring lens cloths and towels to dry camera body and lens surfaces.

Step 3

Pose your model. Don't have a rock for your subject to pose on? Get a different dramatic effect by placing your camera as low as possible and shooting up at your model, while including wide swaths of dramatic background.

Step 4

Shoot a lot. Change angles and composition by moving between shots. For this image, Harris shot 100 pictures, each different, across a very brief 12-minute period.

Final Step

Tweak the image in postproduction. Harris gave this an abstract, metaphorical twist with a sepia-like desaturation done in Lightroom. He also emphasized depth by selectively darkening the shadows and lightening the highlights of the rolling waves and cloud formations. A final vignetting of the corners helped focus attention on the surfer (be careful not to overdo this).

SAVANNAH, GEORGIA

MAY 20-22, 2011



© Alan Tobey



© Bill Durrence

Under the live oaks, from park benches in wrought iron-lined city squares to the shore that laps Tybee Island beach, Savannah welcomes you with the hospitality of an old friend. With camera in hand and Nikon professional photographers Bill Durrence and Dave Black at your side, you will capture the charm and natural beauty of this great American treasure. With its century-old architecture, low-country landscape, and historic sites and waterfront, Savannah offers something for every inspired photographer.

Savannah is a city of surprises, and this trek will not disappoint. Keep your eyes peeled for American alligators that lurk in the tidal rivers at a wildlife refuge but also keep your lens pointed upward as osprey, great horned owls, and even bald eagles fly above the marsh.

We will journey back in time at Bonaventure Cemetery, built on the grounds of an old plantation and once considered America's most haunted. Capture the remarkable moss-covered graves which date back over two centuries. Fill your lens with the majestic oaks draped in Spanish moss, and take shot after shot of the afternoon light as it filters through the branches. As your imagination runs wild, let your creativity do the same.

Frame the sights of the city's historic district as night falls. The mentors will share their expert advice on evening

photography and assist you in capturing those quintessential Savannah images.

Take to the beach and the Tybee Island Lighthouse. Striped in black and white, the lighthouse will make a striking focal point in your photos as the sun rises over the Atlantic.

It is hard to escape history in Savannah, especially at Fort Pulaski, which protected this port city for more than a century. This historic fort begs to be photographed. Use it as a backdrop for our model shoot or just wander the grounds to capture the signature brick architecture. Look for sunlight filtering through the prison's iron bars, or the reflection of the fortress in the moat.

Enjoy an evening ride on a riverboat and photograph the enchanting southern city from the water. The highlight of your trek will likely take place after dark as mentor Dave Black instructs you on the art of light painting. This is a technique that will clearly set your portfolio apart.

One of America's most treasured cities, Savannah offers something for the novice as well as the seasoned photographer. You will leave more polished and eager to bring your new skills to every image you take. Join the Mentor Series in Savannah for an experience you will value for a lifetime!

REGISTER ONLINE AT WWW.MENTORSERIES.COM

For more information, call toll-free at 888-676-6468.

MENTOR SERIES™

Worldwide Photo Treks



© Koko Photo



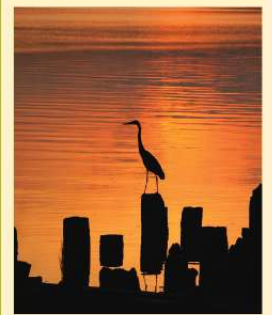
© Bill Durrence



© Gennie Bailey



© Larry Ebbs



© Bill Durrence

SCHEDULED TO APPEAR

Limited to 20 Students per Instructor



DAVE BLACK
Newsweek
Sports Illustrated



BILL DURRENCE
Nikon School
Nikon World

Workshop fee: **\$1,025***

*Includes in-field teaching, entrance fees, presentations, digital reviews, an Mpix photo book and transportation to each shooting location.

With additional support from:



Special thanks to our premier sponsor:



Come to Savannah and try out some of the latest equipment that **Nikon** offers, including their high-performance digital SLRs, NIKKOR lenses and a variety of Coolpix compact digital cameras. You'll capture Savannah as never before!

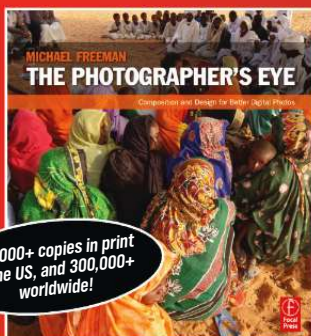
At the heart of the image™



Holiday Gifts from Focal Press and Michael Freeman

Enter-to-win this Michael Freeman library – including *Michael Freeman's Digital Photography Reference System*!

Visit www.focalpress.com/michaelfreeman to enter between now and December 31st.

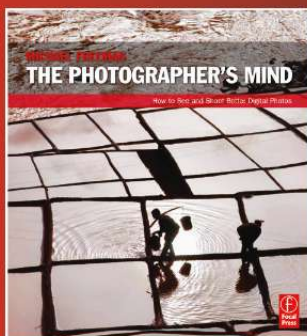


100,000+ copies in print
in the US, and 300,000+
worldwide!

The Photographer's Eye

ISBN: 9780240809342

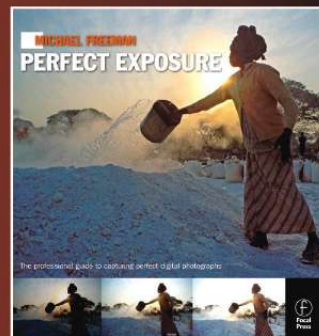
List Price: \$29.95



The Photographer's Mind

ISBN: 9780240815176

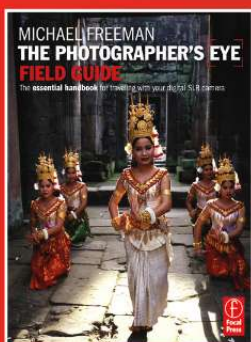
List Price: \$29.95



Michael Freeman's Perfect Exposure

ISBN: 9780240811710

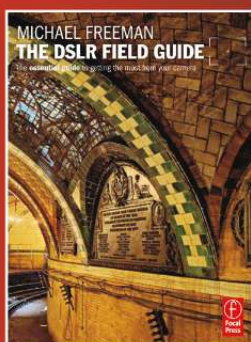
List Price: \$29.95



The Photographer's Eye Field Guide

ISBN: 9780240812489

List Price: \$15.95



The DSLR Field Guide

ISBN: 9780240817200

List Price: \$15.95



**Michael Freeman's
Digital Photography
Reference System**

ISBN: 9780240813141

\$89.95

A perfect and unique gift for people with a DSLR or for yourself!

- An oversized, gorgeous hard cover book *The Art of Digital Photography*
- Four additional books: *Digital Camera Handbook*, *Digital Photography Workflow*, *Creative Image Editing and Special Effects*
- Handy Pocket Guide to Shooting
- Shooting Tips Wallet Guide
- An interactive DVD featuring 2 hours of tutorials with Michael Freeman

For more gift ideas, visit www.focalpress.com.

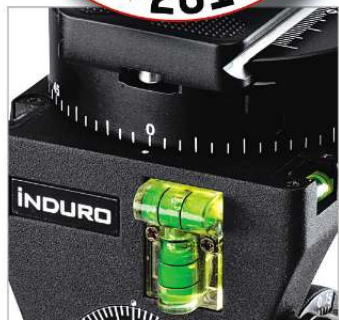
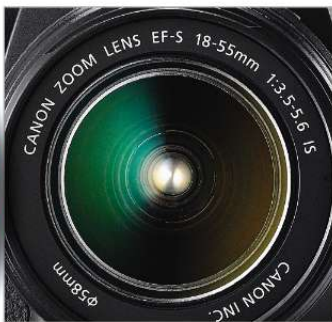
Focal Press Books are available wherever fine books are sold or through your preferred online retailer.

l e a r n · m a s t e r · c r e a t e

:: www.focalpress.com ::

True PDF release: storemags & fantamag

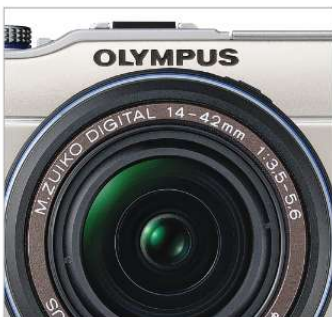
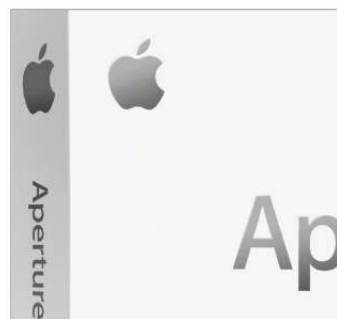




THE MOST
INNOVATIVE,
MOST USEFUL,
AND HANDS-
DOWN COOLEST
NEW GEAR WE'VE
TRIED THIS YEAR.
PLUS, NOMINEES
FOR CAMERA OF
THE YEAR—TO
BE AWARDED IN
JANUARY 2011.

THE BEST OF

THE BEST



THE BEST OF THE BEST

AN IMPOSSIBLE DREAM COME TRUE



CAMERA
OF THE
YEAR
AWARD
NOMINEE

CANON EOS REBEL T2i

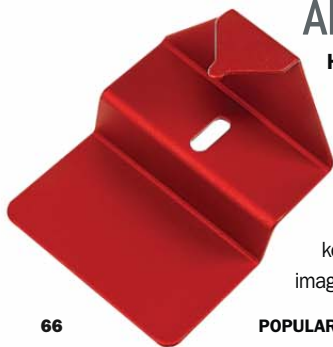
NO INDIVIDUAL SPEC of the EOS T2i represents a breakthrough. But put all the specs together—18MP capture, 1080p HD video with stereo sound input, top ISO of 12,800, very fast autofocus at all light levels—and slap a sub-\$900 price tag on it (with image-stabilized kit lens), and you have what might be considered the breakthrough digital camera of the past decade. Who'd

have thought that we would see the T2i's level of imaging power in a camera priced less than the original 6MP EOS Digital Rebel of 2003? The T2i's Excellent overall Image Quality rating from the Popular Photography Test Lab sealed its nomination as 2010 Camera of the Year.

\$900, street, with 18-55mm f/3.5-5.6 Canon EF IS lens; www.usa.canon.com

BATTERY NOT INCLUDED (NOR NEEDED)

ACRATECH VIEWING ANGLE GAUGE



How's this for low-tech: No moving parts, no electronic components, doesn't take a battery. The Viewing Angle Gauge simply attaches to the screen of a laptop and works something like a gun sight: Line up the tab with the hole and your screen is now perpendicular to your line of sight. This helps keep screen brightness uniform for more accurate image editing on the go. **\$15, street; www.acratech.net**

THE BIG EDITOR GETS BETTER

ADOBE PHOTOSHOP CS5

We couldn't resist giving Photoshop's latest edition a POP Award. With loads of little improvements that make everyday tasks easier, such as the ability to select multiple layers



at once and the addition of the Paste in Place command, it just works better. Add the new Content-Aware Fill that makes the Healing Brush really sing, plus a truly serious new HDR creator, and this upgrade's clearly worth it. **\$660 (\$190 for upgrade), street; www.adobe.com**

MAGIC'S BACK AT THE MIDLEVEL

CANON EOS 60D

Canon's midrange EOS models often seem to get upstaged by the affordable Rebels on one end and the awesome 1D-series supercameras on the other. Not this time around. The 60D, not tested at press time, has 18MP capture, 1080p/30-fps HD video with stereo sound input, fast-for-the-category 5.3-fps burst rate, robust battery capacity, wireless control of external flash units via the pop-up unit, and a built-tough body.

But we particularly like the fully articulating 3-inch LCD screen, a feature that should be on more cameras in this class.

\$1,100, street; body only;
www.usa.canon.com



LITTLE BIG LIGHT

BRONCOLOR MINICOM 160

One of the most compact monolights to put out 1200 watt-seconds, it weighs less than 10 pounds, has one of the industry's brightest modeling lights (650 watts) and is compatible with a large range of Broncolor accessories, including portable power packs.

The RFS version offers a built-in radio-remote receiver that can be triggered by Broncolor transmitters. You can also set power levels via Mac- or PC-based studio software.

\$2,280, street; www.bronimaging.com



RAW POWER SPECIALIST

APPLE APERTURE 3

With facile RAW processing and organizing, Aperture is unique among RAW workflow software in that it also has great features for everyday sharing. It lets you upload to Facebook or Flickr easily,

sports some of the best face-recognition and geotagging tools, and has built-in book-creation software that's a pleasure to use. Best of all, not only does it organize your video clips, but it also lets you trim and add them to multimedia slide shows. **\$160, street; www.apple.com**



LENS DISTORTION WE LOVE

CANON EF 8-15mm F/4L FISHEYE USM

If you're ready to cast straight lines to the winds in favor of a wildly wide-angle view, here's your lens. Currently the world's widest-angle fisheye zoom, this lens produces a 180-degree field of view in a circular image at 8mm when used on a full-frame EOS model, making it a tricky proposition to keep your feet out of the picture. (On APS-C-sensor models, you can use it as a corner-to-corner full-field fisheye.) The L designation signifies pro-level optics and construction. **\$1,400, est. street; www.usa.canon.com**



SIMPLY SOPHISTICATED COMPACT

CANON POWERSHOT S95

The S95 is like an advanced compact disguised as a family point-and-shoot. It has lots of subject modes, including Smart Auto (which decides what auto mode to use), face and blink detection—all the usual consumer-type features. But it also has the bigger-than-usual 10.1MP sensor and fast processor of big brother G12, RAW + JPEG capture, and control ring for full manual-exposure control. And the lens opens up to f/2 on the wide end. **\$400, street; www.usa.canon.com**



THE BEST OF THE BEST

HIGH-PRECISION HEAD



INDURO PHQ TRIPOD HEADS

COMBINING THE anything-goes freedom of a ball head with the calibrated repeatability of a pan/tilt type, Induro's PHQ1 and larger PHQ3 tripod heads are entirely new beasts. Precisely adjustable across five different axes, they simultaneously offer unusual freedom and unusual control: five spirit levels

and seven scales, including a calibrated quick release cleat. Their pan/tilt levers fold down for compact transport, and both heads are lightweight and compact, especially given their maximum loads of 25 and 35 pounds. PHQ? It stands for Pan Head Quintaxial, of course.

\$315 and \$395, street; www.indurogear.com

STUDIO LIGHTING TO GO

ELINCHROM QUADRA RANGER

This battery-powered location or studio strobe offers both convenience and power. The heads and battery packs are small, but they pump out a lot of light (to 400 Ws), come in standard or high-speed flash durations, take a number of light modifiers and accessories, and, with an adapter, accept the full line of Elinchrom Ranger lighting tools. A built-in EL-Skyport radio receiver can fire the Quadra head wirelessly and even let you set flash output from the camera. **\$2,200, street (S Pro Set); www.elinchrom.com**



A NINJA DIFFUSER

LIGHTSPHERE COLLAPSIBLE

Gary Fong's original Lightsphere is one of the best known diffusers for shoe-mount flashes. Lightweight and easily attached, it has one glaring flaw: With rigid side walls, it eats up too much camera bag space. So Fong created the Lightsphere Collapsible, which does everything the original did, but, soft-walled, folds down to 1.5 inches. It can also be collapsed around the flash head for harder, direct flash. **\$58, street; www.garyfongstore.com**



ADAPTABLE BABY

LENSBABY COMPOSER
WITH TILT TRANSFORMER

We expected Lensbaby to offer its Composer Creative Effects lens for ILCs, but we didn't expect that you'd be able to swap out the optics for any Nikon F-mount lens. You can even manually adjust the aperture on G-series lenses. So far, it's available in Micro Four Thirds and Sony NEX mounts. **\$350, street, with Focus Front, or \$250, street, Tilt Transformer only; www.lensbaby.com**



WHEELY EASY TO HAUL

KATA PRO-LIGHT FLYBY-76
PHOTO ORGANIZER

This big soft-sided case, clearly aimed at pros, can fit up to four DSLR bodies, 10 lenses (even a 600mm), and other accessories. There's a compartment for your bulkiest laptop and straps for a tripod. What we like most: You can slip it off its wheeled trolley (included) and carry it over your shoulder. And it doesn't weigh much—completely empty, and without the trolley, about 5 pounds. **\$285, street; www.kata-bags.com**

THROUGH A GLASS, LESS DARKLY

HOYA HRT POLARIZER

Polarizers, in addition to controlling reflections and darkening blue skies, also act as neutral-density filters—which some shooters like for slowing down exposures (think moving water). For those not as thrilled by this side effect, the Hoya HRT provides more light transmission than the usual polarizer, about 1/3-stop, for a little more speed. The filter also uses UV-absorbing glass, so it's like getting two filters in one.

\$60–\$225, street, depending on size; www.thkphoto.com



SUPERPAN CAM STAND

GIGAPAN EPIC PRO

We like a big picture, and with the GigaPan you can make *really* big pictures. Essentially a smart, robotic version of a panoramic tripod head, it shoots and stitches giant multi-shot images. The original version, made famous by that super-high-resolution photo of President Obama's inauguration, could hold only a compact, but this one handles a DSLR and lens combo weighing up to 10 pounds. **\$895, street; www.gigapansystems.com**



A HANDY HANDLE

MANFROTTO 324RC2 & 327RC2
JOYSTICK TRIPOD HEADS

These tripod heads place the camera closer to the ball than conventional pistol-grip style ballheads. The result is much easier aiming, with just slight wrist motions. In two sizes capable of supporting from 7.7 to 12.1-pound loads, the heads' joystick handles release the locking mechanism much more easily than other pistol grips. They also offer a drag control, left- or right-handed operation, and a bubble level. **\$125 and \$190, street; www.manfrotto.com**



THE BEST OF THE BEST

FINE EXAMPLE OF ITS ILC



**CAMERA
OF THE
YEAR**
**AWARD
NOMINEE**

PANASONIC LUMIX DMC-G2

THE G2 ACED our three-way interchangeable-lens compact shootout back in July 2010 on the strength of well-balanced performance across the board: In our Test Lab it out-resolved all other ILCs, delivered amazingly accurate colors, and provided the speediest contrast AF we've seen, making it the best bet for continuous AF while recording 720p video. Though some might not

take to the G2's touchscreen controls (such as touch shutter, which fires when you tap the subject on the LCD screen), you still have to love the camera's dedicated control buttons and dials. Representing a distinct maturing of the ILC concept, it truly deserves nomination for 2010 Camera of the Year. **\$650, street, with 14-42mm f/3.5-5.6 lens; www.panasonic.com**

CLASSIC GLASS UPDATE

NIKON AF-S 70-200MM F/2.8G ED VR II

Nikon's 70-200mm f/2.8

full-frame VR lens of 2003 was going to be a tough act to follow, but this new G version with VR II upstaged it handily. With two more elements of ED glass, plus Nano Crystal Coating, the new optic achieved superior SQF scores at all focal lengths except 200mm, where it was only slightly lower than the older one. Distortion was very tightly controlled, and the VR II delivered 3 to 4 stops of extra handholdability. Worth the price? You bet.

\$2,170, street; www.nikonusa.com



FAST. WIDE. SHARP.

NIKON AF-S 24MM F/1.4G ED

Speed demons, rejoice. This full-frame extrawide proved sharp (Excellent SQF scores), with little distortion (Slight barrel), and close focusing (to 9¼ inches). The M/A focus mode lets you manually touch up the focus while in AF. Beautifully made, well sealed, with silent autofocus, it should last a lifetime, barring dropping it in the lake. Use a Nikon DX-sensor (APS-C) camera? Here's a nice 36mm-equivalent superspeed wide-angle for you.

\$2,200, street; www.nikonusa.com



POCKETABLE BUT POWERFUL

PANASONIC LUMIX DMC-LX5

Rumors of the demise of the advanced compact are quite exaggerated—witness the LX5. It uses a big-pixel 10.1MP sensor, has a wide (24–90mm equivalent) and fast (f/2–3.3) zoom lens, and employs a new souped-up autofocus system for noticeably less shutter lag. And, should you want to view at eye-level rather than compose on the 3-inch LCD, the LX-5's hot-shoe accepts the electronic viewfinder of the interchangeable-lens compact GF1. **\$445, street; www.panasonic.com**



FOCUS FINAGLER

ONONE FOCALPOINT 2

Adding realistic-looking lens blur is a complicated project in Adobe Photoshop, so we love OnOne FocalPoint 2. Whether you're simulating selective-focus, fast-aperture, or tilt-shift lenses, it lets you create looks that you didn't or couldn't make in the camera. How? With a unique tool called the Focus Bug, which can quickly adjust all of the blur's characteristics. This newest version also lets you control highlight bloom and even has a lens simulator that imitates bokeh. **\$140, street; www.ononesoftware.com**



AFFORDABLE PEN PAL

OLYMPUS PEN E-PL1

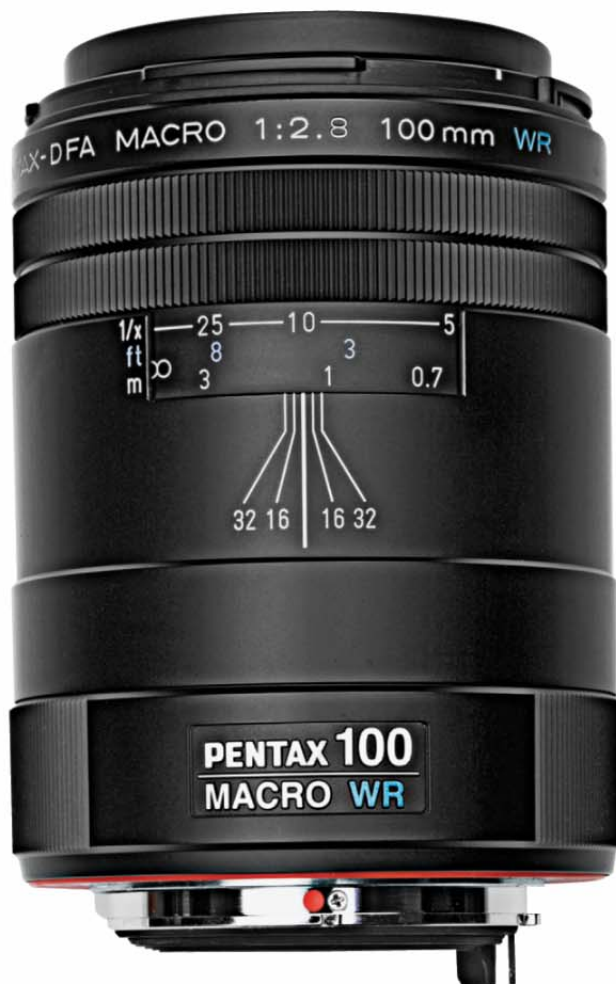
With its noise ratings of Low or better up to ISO 1600, respectable resolving power for a 12.3MP sensor, and Excellent color accuracy, the E-PL1 is the best bang for the buck you can get from the Olympus Micro Four Thirds line. It's also the only one with a pop-up flash. We love its rangefinder-like body design, while beginners should like the easy-to-use Live Guide mode and fun Art Filters. **\$600, street, with 14–42mm f/3.5–5.6 lens; www.olympusamerica.com**



FOR CLOSER CRITTER SHOTS

PENTAX-D FA 100MM F/2.8 WR MACRO

Nature shooters who, whether they like it or not, find themselves working in rain or mist or just plain damp will appreciate this Pentax macro tele, with WR weather-resistant sealing in its metal construction. Photos of tiny critters and baby blossoms will be sharp, too, as the lens posted Excellent SQF ratings to 16x20, and actually focused a bit tighter than the advertised 1:1. Manual focusing was as smooth as silk—important in close-up work, where autofocus isn't necessarily your friend. **\$620, street; www.pentaximaging.com**



FOR A NEW YEAR, RESOLUTION!

PENTAX 645D

We were starting to think it was vaporware, but Pentax has finally gone into production with its 40MP medium-format camera, and it's coming to the U.S. Its 3.3x4.4cm Kodak CCD sensor, with 1.7 times the area of a full-frame DSLR sensor, promises both huge resolution and wide dynamic range. The heavily sealed body accepts most existing Pentax 645 lenses, with something like a 1.4X lens factor. And yes, we hope to get a testable model soon. **\$10,000, street, body only; www.pentaximaging.com**



THE BEST OF THE BEST

UNIQUE CAMERA-SWAP SYSTEM



RICOH GXR

RICOH HAS ALWAYS been known to follow its own path with its digital cameras. So we weren't shocked when the company introduced the GXR interchangeable camera-unit system this year. While each of the units we tried so far has its quirks, the system has plenty of potential, and Ricoh continues to introduce new modules for it. The system also

allows the use of multiple sensor formats—compact up to APS-C. We love the camera body and Ricoh's straightforward yet sophisticated controls and menu system, which should be a model for other makers of ILCs and compacts.

\$500–\$947, street, depending on camera unit purchased with the camera body; www.ricoh.com

BEGINNER'S LUCK

PENTAX K-x

The K-x does almost everything a little bit better than the competition in this cutthroat price category: good noise suppression at higher ISOs, burst rate of 4.7 fps (the best in its class), 720p HD video. Its Pentax K-mount can accept decades of lenses, including some inexpensive optics—nice for the student or budding hobbyist. And, with any lens, you get image stabilization via the sensor-shift system. **\$530, street, with 18–55mm f/3.5–5.6 Pentax lens; www.pentaximaging.com**



WET-WEATHER FRIEND

PENTAX OPTIO W90

The umpteenth generation of Optio underwater compacts (forgive us for losing count) again shows why Pentax is the perennial leader in this category. Submersible (to 20 feet) freezeproof (to 14 degrees F) and droppable (up to 4 feet), the W90 also has a unique

array of three LED lamps around the lens that let you take shadow-free macro shots down to 1cm from the lens. **\$220, street; www.pentaximaging.com**





ATTENTION GRABBER

SHUTTERBUDDY

The hard part of shooting infants? Getting eye contact. Snaring and holding a baby's attention for longer than a second or two can often be impossible. That's why we like the ShutterBuddy. Like an oversized lens shade, it attaches to the front of your camera (or camcorder) where its checkerboard surface grabs and holds an infant's attention long enough for you to get some shots. Relying on the latest in infant vision research, the ShutterBuddy lets you walk around the room, with Junior watching you. Now, if only he would smile. **\$15, direct; www.shutter-buddy.com**

MULTITASKING MODIFIER

ROGUE FLASHBENDER

Conventional shoe-mount flash modifiers tend to be one-trick ponies. They either soften, aim, bounce, shape, or block light. Expolmaging's Rogue FlashBender positionable reflectors do all these things and more. Attach a single FlashBender to a shoe-mount flash head and bend, roll, twist, or fold it to act as a bounce card, snoot, barn door, or gobo. Available in three sizes, FlashBenders will easily wipe clean when smudged, fit in your bag's smallest pocket, and weigh next to nothing. **\$30-\$40, street, depending on size; www.expolmaging.com**



FLASH POWER BROKER

QUANTUM INSTRUMENTS TURBO BLADE

Quantum's latest Turbo external flash battery is its smallest yet, weighing less than a pound and measuring just 1.4 inches high. But the Blade can provide up to 400 full-power pops per 1.5-hour charging cycle, or thousands at fractional power, with extremely fast recycle times. And it incorporates an LED "fuel gauge" that shows how much power you have left in 25% increments. **\$444, street; www.qtm.com**



HORIZON EXPANDER

SIGMA 8-16MM F/4.5-5.6 DC HSM

The widest orthoscopic (non-fisheye) zoom yet made, this 12-24mm equivalent for APS-C-sensor DSLRs also focuses to 9.4 inches for some wild and crazy near/far perspective effects. Weighing surprisingly little (1.3 pounds) for this type of optic, the lens has a permanently affixed petal lenshood for protection against stray light—and fingerprints on that curvy front element. **\$700, street; www.sigmaphoto.com**



FAB FOR FILMMAKING

SLIK PRO 500 HD TRIPOD

If the HD in its name reminds you of video, it's no accident. This tripod/head combo is designed for DSLRs with HD video capability. Its legs are a superlight aluminum-magnesium-titanium alloy, with foam collars for easy handling, and our favorite leg locks, the quick-action, flip-tab type. It's the SH-736HD head that makes this a POP Award winner, though. Its pan and tilt actions have separately adjustable drag controls, for movements that are loose and quick, or achingly slow. Either way, thanks to the head's fluid effect action, the movements are ultra smooth. **\$150, street; www.thkphoto.com**



THE BEST OF THE BEST

TECH TRICK DONE WITH MIRROR



**CAMERA
OF THE
YEAR**
**AWARD
NOMINEE**

SONY ALPHA 55

VIDEO CAPTURE in DSLRs is a really cool idea—until you try to focus while shooting it. The footage may be fine, but there's that mirror in the way of the sensor. Flip

the mirror up for video, and you lose better-performing phase-detection autofocus. So Sony adapted some old tech—a nonmoving, semitransparent mirror—to allow some light to go to the AF sensor during shooting. It's a workaround that works, and it also gives you up to 10-fps still shooting. **\$750, street, body only; www.sonystyle.com**

A BETTER FAST TELEZOOM



SIGMA 70–200MM F/2.8 EX DG OS HSM

Sigma's new fast, constant-aperture, full-frame telezoom workhorse adds more than Optical Stabilization. A whole new design from the older non-OS version, it features two elements of Sigma's FLD glass that mimics the aberration-taming qualities of fluorite glass. For all that, the new lens is more compact than the older one. Stay tuned for a full test report soon.

\$1,700, street; www.sigmaphoto.com

STEADY BARGAIN

TAMRON SP 70–300MM F/4–5.6 DI VC USD



It's awfully hard to find fault with this lens, which is why our test report didn't. A full-framer, it scales up to a 105–450mm equivalent on APS-C sensor DSLRs. Distortion was very well controlled, AF was nearly silent, and Vibration Compensation gave testers an average of 4 extra stops of handholdability—super. **\$450, street; www.tamron-usa.com**

PRO LOADED BAG



TAMRAC ULTRA PRO 17

Considering all the gear you can fit in this shoulder bag, it's surprisingly slim. It will appeal to pros and enthusiasts who routinely carry two outfits—it fits two pro DSLR bodies with zooms attached, additional lenses and other accessories, and a 15.4-inch laptop. Lots of padding, a great organization system, and a removable rain cover add to its charms. Want to get your camera fast? A zipper at the top lets you open the bag away from your body for a quick draw. **\$150, street; www.tamrac.com**

NEW CHOICE IN FAST ULTRAWIDES

TOKINA AT-X 16–28MM F/2.8 PRO FX



Constant-aperture f/2.8 ultrawide-angle zooms are workhorses for pro and enthusiast shooters alike, so this brand-new Tokina full-framer is big news. It has a silent, high-speed DC autofocus motor and overall fine construction. But the big news is its remarkable lack of distortion and light falloff. Read all about it in our test on page 94. **\$850, street; www.thkphoto.com**

PISTOL-PACKING TRIPOD HEAD

VANGUARD
GH-100

LIKE MANFROTTO'S joystick heads, also 2010 POP Award winners, Vanguard's new pistol-grip head places the camera low and close to the ball joint for easy operation. But unlike the Manfrottos, its release trigger can sit behind the ball joint instead of to the side. The result is a head that you can aim like a true pistol, allowing single-handed adjustment (with either hand), plus friction control. If you want it, though, the trigger can be repositioned to the side of the ball joint, à la Manfrotto. Another perk: The panning motion is click-stopped in 5-degree increments for precise panoramic stitching. **\$100, street; www.vanguardworld.com**

DYNAMIC RANGER

UNIFIED COLOR 32FLOAT

Unified Color does the best job creating high-dynamic-range images that we've seen yet. And with its 32Float plug-in, you can use all those tools from within Photoshop. That means you get to take advantage of Photoshop's built-in tools to merge your files, then stay in 32-bit mode and use the plug-in to convert your file. It's the best of both worlds, and a money-saver, too. **\$100, direct; www.unifiedcolor.com**



CLEVER COLOR BALANCER

X-RITE COLORCHECKER PASSPORT

We love the ColorChecker for taking the guesswork out of color correction. Shoot this pocket-sized target, then use its included software to copy its color corrections automatically across all of your images.

You can choose the relative temperature of your white balances, and the standard 24-patch color chart helps you create DNG profiles of your camera in any light source—particularly useful if you do a lot of studio shooting. **\$99, street; xritephoto.com**



A 2009 POP AWARD WINNER, BACK FOR MORE

**CAMERA
OF THE
YEAR
AWARD
NOMINEE**

NIKON D3s

When the D3s was introduced at the very end of 2009, we took the rare step of giving it a POP award before running it through our Test Lab. The reason: The D3s was the first camera to break through the ISO 100,000

barrier. Combined with the proven low-light autofocus it inherited from its predecessor, the D3, we knew this would be the ultimate rig for the low-light shooter, not to mention the action shooter craving its 9-fps burst rate for highest-quality JPEGs. In our February 2010 test, it proved to be everything we expected, and more. Its nomination for 2010 Camera of the Year was a no-brainer. **\$5,200, street, body only; www.nikonusa.com**



COSTA RICA

Pura vida is the Costa Rican all-purpose greeting for hello, goodbye, and something like “This is living!” And *pura vida* is just what North American nature photographers interested in an exotic, offshore destination should say to Costa Rica.

IT OFFERS no-jetlag access, lots of drive-yourself or guided shooting junkets, eco-lodges galore, mild weather year-round, and a nonstop variety of subjects in great light. The country's mountainous terrain makes for a plethora of photo opportunities—cloud forest, steamy coastal jungle, pine forest, and semi-desert scrub land, to mention a few.

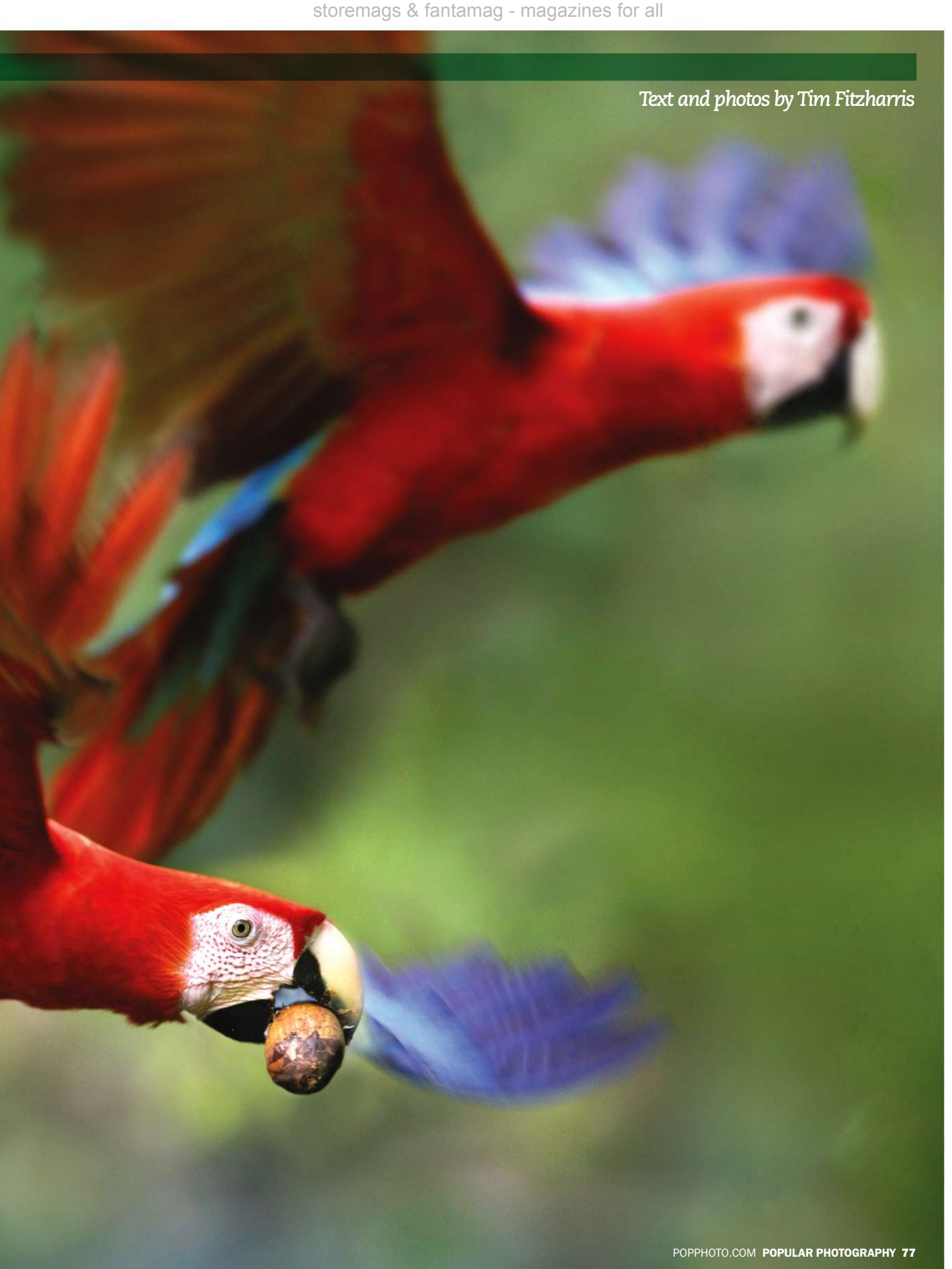
Follow the Big Four

Organize your tour to capture birds, beaches, wildlife, and volcanoes by leapfrogging from one nature lodge to the next. Follow this strategy over a selected itinerary, and you'll return with memory cards stuffed full of rewarding photographs.

The best lodges have websites describing their photo attractions (see sidebar, page 149), including species lists, weather, and even

**SCARLET
MACAWS,
OSA
PENINSULA**
Fitzharris followed birds by panning his Canon EOS 5D with 500mm f/4L Canon EF IS, on a tripod with gimbal head. Exposure: f/8 at 1/250 sec, ISO 640.

Text and photos by Tim Fitzharris







**CAPTIVE
OCELOT, ZOO
AVE NEAR
ALAJUELA**
Fitzharris
shot with a
Canon EOS 3
and 500mm
f/4L Canon
EF IS lens
on a tripod;
f/5.6 at
1/60 sec on
Fujichrome
100.

**PLAYA
CARILLO,
GUANASTE**
Fitzharris
used a split
neutral-
density filter
to balance
exposure of
the sky and
beach.
Canon EOS
5D and
24-105mm
f/4 Canon EF
lens on a
tripod; 1/20
sec at f/20,
ISO 200.

**BOAT AT
PLAYA
PELADA**
Fitzharris
used the
same gear
as the
other beach
shot, with
exposure of
f/16 at
1/250 sec,
ISO 400.

**GREEN
VIOLET-EAR
HUMMING-
BIRD NEAR
SAVEGRE**
Shot with
hummingbird
feeder
repositioned
near blooms.
Same rig as
used for the
ocelot but
with EOS 5D;
f/8 at 1/500
sec, ISO
1000.



blogs of recent wildlife activity. Make it easy for yourself by signing up with one of the many guided nature, birding, or hummingbird photo tours, some conducted by U.S. operators.

If you want flexibility to react to weather conditions and subject dynamics, a you-drive safari is best. Study the itineraries of tour companies and modify yours to suit. Driving Costa Rica is not difficult if you plan well and travel during daylight. Buy a decent map, learn a few words of Spanish, and you won't get too lost.

Paradise Beaches

Oceanside shooting requires sunshine—strong, directional light that can tint the landscape in fiery hues at sunrise and sunset, or carve out the shapes of beach boulders and impart cyan tints to open sea at mid-day.

Many of the prettiest beaches are in Guanacaste and northern Puntarenas along the dry Pacific coast, where open skies are the norm. Look for shorelines with boulders, rocky headlands, overhanging palms, lagoons, river mouths, sand bars, tide pools, and breaking surf. Nesting sea turtles provide an added attraction in their peak seasons.

■ **BEACH TIPS:** Scout for compositions at midday. Look for strong foregrounds with a view to the rising or setting sun (carry a compass). That way you'll be ready for the magic light of sunset/sunrise—in the tropics it's all over in a few minutes.

Avian Bedazzlement

Tiny Costa Rica supports nearly 900 bird species, including some of the planet's most exotic: scarlet macaw, resplendent quetzal, and jabiru stork.

For photographers, hummingbirds are the headliners (40-plus species) and numerous lodges are set up to attract them. The





**PLAYA
PELADA
NEAR
NOSARA**
Fitzharris
took this
north Pacific
coast scene
with a Canon
EOS 5D and
24-105mm
f/4 EF lens
on tripod;
f/16 at 1/30
sec, ISO 400.

best lodges (inquire by e-mail) also maintain fruit feeders that attract parrots, toucans, and other neotropical varieties. Hummingbirds are mostly denizens of the cloud forest, so be prepared for damp days, chilly nights, and lovely soft light.

■ **HUMMINGBIRD TIPS:** Arm yourself with a 500mm (or equivalent) telephoto and 50mm worth of close-up extension tubes. Shoot under bright overcast skies. Build a better background by repositioning a feeder near flowers or by setting up your own bouquet. Focus manually and make hundreds, even thousands, of in-flight exposures (scores of hummers hover about a feeding station at one time). Trash the preponderance of misfires and save only the prizewinners.

Volcano Country

Costa Rica's volcanoes are irresistible to photographers bent on making long exposures of red-hot rock streaming down a mountainside or exploding into a night sky.

Arenal Volcano near the town of La Fortuna offers the best opportunities for iconic imagery, but you'll need luck to capture the dramatic eruptions, normally obscured by cloud and fog.

Luckily, you won't have downtime waiting for skies to clear. You can spend days shooting waterfalls, jungles, cloud forests, and a Noah's ark of butterflies and frogs at mom-and-pop vivariums and ponds while keeping your eye on the mountain.

■ **VOLCANO TIPS:** Oddly, your chances of getting a clear shot of the volcano improve during the rainy season (May

CONTINUES ON PAGE 148

ROGUE FLASHBENDERS

Control. Create.



What can you do with a single
FLASHBENDER positionable reflector?

Rogue FlashBenders are patent pending



ExpOIMAGING, Inc. • MARKETING • DESIGN • MANUFACTURING • DISTRIBUTION



expoimaging.com

True PDF release: storemags & fantamag

LAB

AUTHORITATIVE TESTS, REVIEWS, AND BUYING ADVICE

CAMERA TEST

TOUGH BUT SENSITIVE

Olympus's rugged flagship DSLR serves up beautiful images

FOR THE PAST couple of years, Olympus has focused mostly on its Micro Four Thirds line. But, as the new E-5 (\$1,700, street, body only) shows, the company hasn't forgotten about regular Four Thirds at all. The latest update of its flagship DSLR steps up to a 12.3MP Live MOS sensor (from 10.1MP in the E-3), adds a stop of sensitivity for a top of ISO 6400, and adds 1280x720-

pixel 30-fps HD video capture. Meanwhile, it keeps the super-rugged magnesium-alloy body with weathersealing that is the top of its class.

In the Lab

Though the E-5 finds itself on the lower end of pixel counts for cameras in its price range, it still easily managed to score an Extremely High in overall image quality from ISO 100 through ISO 1600 in the Popular Photography Test Lab. Its resolution is the only thing holding it back

OLYMPUS E-5

12.3MP
Live MOS
Four Thirds
720p 30-fps
HD video
5 fps burst
shooting
Wireless flash
control from
pop-up flash
\$1,700,
body only

LENS TESTS: OLYMPUS AND TOKINA'S TERRIFIC NEW ZOOMS



92



94

REVIEW: PHOTOSHOP ELEMENTS 9



96



from reaching an Excellent rating: In the wake of sensors in excess of 20MP in 2008, we were forced to raise the bar in our resolution test, pushing the threshold for an Excellent rating up to 2500 lines per picture height.

The E-5 turned in a very impressive 2270 lines in our test, which is a significant jump from the E-3's score of 2020 lines. Sure, it trails Canon's EOS 7D, which achieved 2610 lines, but considering that the 7D has an 18MP sensor, you might expect a bigger difference. Nikon's D300s, another 12.3MP camera in this price range, managed 2340 lines but also trailed the E-5 in noise performance.

At all sensitivity levels save their shared maximum of ISO 6400, this Olympus had lower noise than the D300s—which says a lot, given that Nikon has been a league leader in noise control in recent years. Both the E-5 and the Nikon D300s had Unacceptable noise levels in our test at ISO 6400, though Canon's 7D managed to keep noise in the acceptable range at ISO 6400. Still, the E-5 outperformed the Canon in noise control from ISO 100 through ISO 1600.

In our autofocus test, the Olympus displayed a split personality: extremely fast in bright light, but slowing considerably as the light grew dimmer. This may be partially due to the lens we used in the test. Ordinarily, we use an f/1.4 normal lens from the camera's manufacturer to test AF. But since Olympus doesn't make a fast normal with a Supersonic Wave Drive (SWD) AF motor, we used the Zuiko Digital 12–60mm

OLYMPUS E-5

WHAT'S HOT

Rugged build, good noise control.

WHAT'S NOT

Sluggish autofocus in low light.

WHO IT'S FOR

Shooters who value solid build quality and weathersealing over extremely fast bursts.

PHILIP RYAN (LOD IMAGE)

DELIVERING THE ULTIMATE IN IMAGING PERFORMANCE

The New Tamron SP 70–300mm Di VC USD



This brilliant new extended-range telephoto zoom lens takes the real-world performance of today's top full-frame and APS-C-format DSLR cameras to an unprecedented new level, earning it our coveted Superior Performance (SP) designation. With superb definition over its entire 4.3X zoom range, advanced Vibration Compensation (VC) for shake-free imaging, swift, Ultrasonic Silent Drive (USD), macro focusing down to 1:4, and a sophisticated, cutting-edge optical design incorporating premium Low Dispersion (LD) and Extra Low Dispersion (XLD) glass, it sets a new class standard for imaging excellence, precision, and innovation. Surprisingly compact for its speed and elegantly styled it captures your world in breathtaking detail!



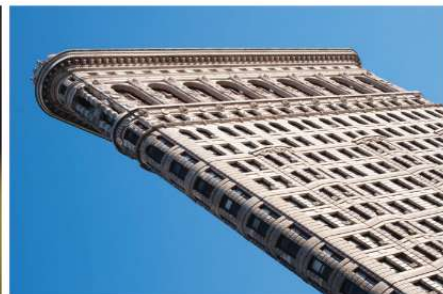
BLAZING SPEED

There's only one way to capture the high-speed action of a motorcycle race with the consistency of a real pro—know your sport, and use a lens that's as fast as your camera—like the Tamron SP 70-300mm Di VC USD. Its energy-efficient Ultrasonic Silent Drive maximizes autofocus speed and accuracy, and its long reach (109-465mm with APS-C format DSLRs) lets you freeze all kinds of high-speed action from a considerable distance.



PERFECT PORTRAITS

Capturing a compelling close-up of a charming young boy is easy when your lens zooms to ultra telephoto and it's equipped with Vibration Compensation (VC), Tamron's cutting-edge image stabilization system that virtually eliminates the blur-inducing effects of handheld camera shake at all focal lengths to deliver superb detail at the point of focus. It also helps to have a lens with a wide aperture to create shallow depth of field so your subject seems to pop off the page. You can count on the Tamron SP 70-300mm VC to deliver the goods on all counts.



EXQUISITE DETAIL

Capturing the image of an architectural landmark like New York's iconic Flatiron Building with all its astonishing textures and details requires a lens that provides outstanding definition plus ultra-high resolution and contrast across the entire imaging field. And only a lens having extraordinary color correction can render a nearly white building side-lit by brilliant sunshine without the slightest trace of color fringing. The Tamron SP 70-300mm Di VC USD incorporates the full array of advanced optical technologies Tamron has developed over 60 years to deliver this unsurpassed level of imaging excellence.

\$100
MAIL-IN REBATE

when purchased simultaneously with any camera body or camera kit;
\$50 Mail-in rebate for lens only purchase. Through 12/31/10.

VISIT WWW.TAMRON-USA.COM

TAMRON

LAB * DSLR TEST OLYMPUS E-5

f/2.8-4 SWD lens in this test. We considered using the 14-35mm f/2 SWD, but moving its extremely large lens elements can slow down AF, despite being faster glass.

That said, the E-5's AF proved faster than that of the EOS 7D and the D300s from EV 12, the brightest part of our test, through EV 6, which is about the light level of a well-lit kitchen. Only at levels reaching the equivalent of moonlit darkness did the Olympus fall far behind the competition.

The ISO, exposure comp, and white balance controls behind the shutter button are well placed and came in handy in our field tests.

In the Field

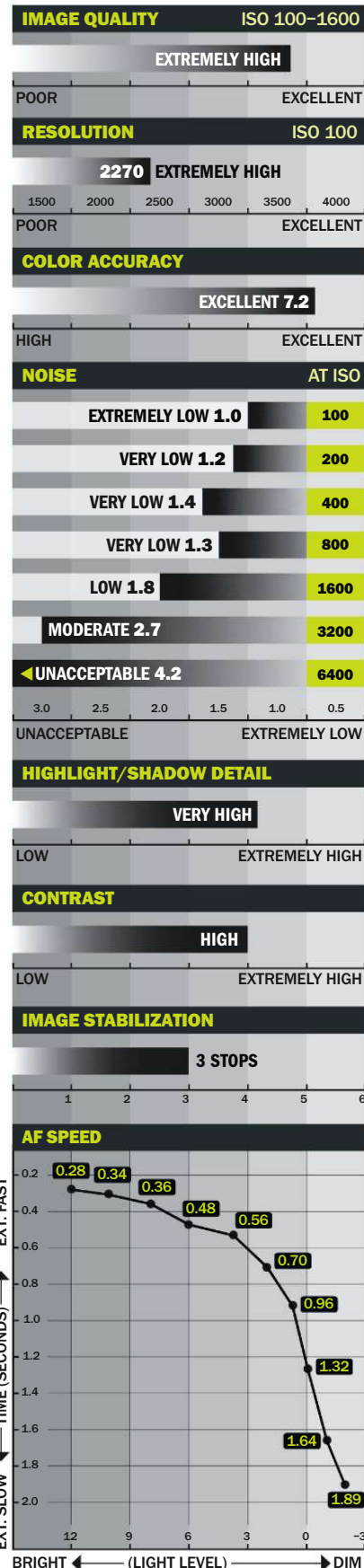
Like all the DSLRs in this price range, the E-5 is on the larger side of bodies without an integrated vertical grip. (If you plan to shoot a lot of verticals, Olympus offers the HLD-4 battery grip, which holds either six AA or two Li-ion batteries.)

Though the comfort of camera grips might not seem like a big deal, ergonomics are a key factor in performance. A good grip makes the camera feel secure without forcing you to clamp down too tightly, which can be essential for accessing buttons, switches, and dials when shooting. The E-5's grip has a nice shape, arcing inward toward the top of the camera, with a nook for your middle finger below the shutter button that makes it easier to angle the camera up and down.

“Changing settings on the E-5 is quick and easy”



TEST RESULTS



2010
Holiday Promotion

Season's Greetings, Happy Hanukkah, Feliz Navidad, Happy Kwanza...
it's the **12 Weeks of Christmas!**



Speedlite Accessory Gift Pack

Part #650H

Kit Contents:

- (1) 43" Collapsible White Umbrella
- (1) Adjustable Shoe Mount Bracket
- (1) Micro Apollo
- (1) 14" Silver/White Reflector
- (1) 14" Diffuser

Retail: \$150.05

HOLIDAY SPECIAL:

\$75.00



uLite 2-Light Kit

Part #651H

Kit Contents:

- (2) uLite Constant Lights
- (2) 20" Collapsible Softboxes
- (2) 6.5' Light Stands
- (2) 500-watt Photofloods
- (1) **FREE 5' x 6' Scenic Background Rental**
- (1) **FREE 5' x 8' Slate Background**

Retail: \$289.80

HOLIDAY SPECIAL:

\$199.90



Spiderlite TD5 Holiday Kit

Part #652H

Kit Contents:

- (2) Spiderlite TD5s
- (2) 900-watt 5-pack Fluorescents
- (1) 36" x 48" Shallow Softbox
- (1) 12" x 36" Stripbank

Retail: \$1,600.00

HOLIDAY SPECIAL:

\$990.00

Specials announced every Monday thru 2010!

Visit fjwestcott.com for details and participating dealers.

westcott®

LAB * DSLR TEST OLYMPUS E-5

With two command wheels and plenty of dedicated control buttons, changing settings on the E-5 is quick and easy once you familiarize yourself with the body. Exposure compensation, white balance, and ISO all get their own buttons near the shutter. The less-commonly changed settings, such as shooting and AF modes,

drive mode, metering, and flash settings, all get buttons to the left of the pop-up flash.

Our biggest complaint on the controls? The three buttons to the left of the flash, which each serve multiple purposes, have labels on the left of the flash/finder hump. These proved hard to see when shooting without tilting and



Novoflex: MFT Adapters - enable MicroFourThirds camera bodies to accept lenses from most camera manufacturers. Made in Germany.

Ansmann: DigiCharger Vario - rapidly recharges 100+ battery types for cameras, MP3's, PDA's, flashlights. Made in Germany.



Giotto's: Red Rocket - powerfully air blows dust from lenses, computers. No harmful propellents. 3 sizes.

Great Gear, #3.

Heliopan: Polarizer lens filters eliminate up to 99.9% of reflections, improve color saturation, perfect for scenic shots. Made in Germany.



Braun: Multitray Digital Slide Scanner - scans up to 100 slides automatically into MAC or PC. 6 tray types, USB. Made in Germany.



Gepe: Card Safe Extreme - the better memory card protector. Holds any combo of 4 CF, SM, SD & MS cards.



HP Marketing Corp.
Performance and value.
973/808-9010 For dealer list,
visit www.hpmarketingcorp.com
a GEPEGROUP company

SPECIFICATIONS

IMAGING: 12.3MP effective, Four Thirds-sized LiveMOS sensor captures images at 4032x3024 pixels with 12 bits/color in RAW mode.

STORAGE: Compact Flash, SD, SDHC, SDXC. Stores JPEG, ORF RAW, and RAW + JPEG files.

VIDEO: Up to 1280x720, 30-fps, AVI Motion JPEG; built-in mono mic with optional stereo mic input; contrast-detection AF.

BURST RATE: Full-sized JPEGs (Fine mode): 5 fps up to card capacity. RAW (12-bit): 5 fps up to 16 shots.

AF SYSTEM: TTL phase detection with 11 illuminated focus points (all twin crosstype). Single-shot and continuous with tracking. Tested sensitivity down to -2 EV (manufacturer's rating) at ISO 100, f/2.

SHUTTER SPEEDS: 1/8000 to 60 sec plus B (1/3-EV increments). Shutter rated to 150,000 cycles.

METERING: TTL metering using 49-point evaluative, centerweighted, and spotmetering (approx. 2% of frame). 1-20 EV (at ISO 100).

ISO RANGE: ISO 100-6400 (in 1/3- or 1-EV increments).

FLASH: Built-in pop-up with TTL autoflash with +/-3-EV exposure compensation (1/3-, 1/2-, or 1-EV increments), GN 43 (ISO 100, feet), covers 14mm lens field of view. Flash sync to 1/250 sec. Dedicated Olympus hot-shoe and wireless control of optional flash.

VIEWFINDER: Fixed eye-level pentaprism.

LCD: Tilting, swiveling 3-in. TFT with 920,000-dot resolution.

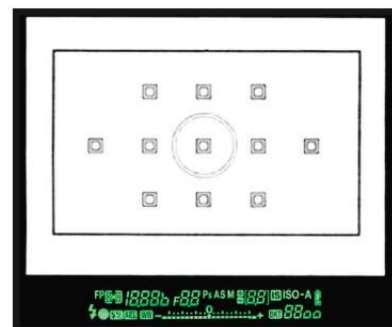
OUTPUT: Hi-Speed USB 2.0, mini HDMI video, composite video.

BATTERY: Rechargeable BLM-5 Li-ion, CIPA rating, 870 shots with optical finder.

SIZE/WEIGHT: 5.6x4.6x2.9 in., 2.0 lb with card and battery.

STREET PRICE: \$1,700, body only.

FOR INFO: www.olympusamerica.com



VIEWFINDER TEST: Accuracy, 100% (Excellent); Magnification, 1.15X (Excellent).

angling the camera. Over time, you'll likely remember which ones do what, but until then it can cause some minor confusion.

Olympus has more than tripled the pixel resolution on the fully articulated LCD that graces the back of the E-5, bringing it to 920,000 dots. One of the more rugged-feeling articulated screens out there, its monitor makes it very easy to shoot with the camera held high above your head, down low to the ground, or even stealthily around corners.

While current fixed LCDs have wider viewing angles that make off-angle shooting easier than it used to be, those that tilt and rotate make precise framing simpler. More important, you can change menu items without moving the camera from its position, making tripod-mounted shooting more convenient.

The increased screen resolution comes in handy for live view and video shooting. The E-5 captures HD footage at up to 1280x720p at 30 frames per second, storing video as AVI files using Motion JPEG encoding, and in our test evinced quality on par with consumer HD camcorders. The AVI file type limits files to 2GB, for about 7 minutes of footage—if you dial the camera back to standard definition, you'll capture 640x480 at 30 fps for up to 14 minutes.

The E-5 can record CD-quality stereo audio, but you'll have to add a stereo mic through the minijack input if you want the binaural experience. Otherwise, its built-in mic will give you mono recording with your video.

You can store both video and still capture with CompactFlash or SD (including SDHC or SDXC) cards, thanks to the camera's

While it's become standard in cameras at this level, Olympus was one of the first to popularize wireless flash control, putting it in all its DSLRs, including the E-5.

dual card slots. It would be nice to write information to both cards simultaneously, or let the camera automatically switch to the second card once the first one is full, but so far that's not the case. (We wouldn't be surprised to see this updated through firmware.)

If the E-5 trails the competition in any big way, it's in burst speed. The E-5 retains the 5-fps burst of the E-3, compared with the 7-fps native rate of the Nikon D300s and the 8-fps of the Canon 7D.

The E-5's buffer maxes out at 16 12-bit RAW frames, while the D300s can swallow 18 12-bit RAW files in a burst, and the 7D can manage 15 (although these are larger 14-bit RAW files).

But shooting highest-quality JPEGs, the E-5 will let you shoot until your memory card is full, where the Nikon caps out at 44



See in a new way. Focus on what's important. Transform your reality. Lensbaby goes where no lens has gone before. Get rid of distractions and unblur your world. Lensbaby. lensbaby.com/slice

Sometimes your most dramatic images don't fit an 8x10.



Panoramix™

New technologies such as: in-camera panoramic modes, higher resolution sensors, and smarter stitching software allow the creation of some very dramatic panoramic images. To help showcase these images, Meridian now offers Panoramix™, a new line of photographic prints from 5"x15" all the way up to 30"x120". You read that correctly, true photographic prints, lab corrected, on Kodak® Endura professional paper — 10 feet long.

In addition to our panoramic prints, we offer over 70 print sizes, a full complement of professional mounting and texturing options, plus a full line of press printed books and cards. Visit our web site, sign up, and place your first order today.

True photographic prints on Kodak® Endura professional paper, in some unusual, but very usable, formats.

1:3 ASPECT RATIO

SIZE	PRICE
5 x 15	2.99
6 x 18	3.49
8 x 24	9.99
10 x 30	14.89
12 x 36	18.95
16 x 48	48.99
* 20 x 60	59.99
* 30 x 90	79.99

1:4 ASPECT RATIO

SIZE	PRICE
5 x 20	3.99
6 x 24	5.49
8 x 32	11.99
10 x 40	17.89
12 x 48	22.95
* 16 x 64	59.99
* 20 x 80	69.99
* 30 x 120	89.99

* Noted sizes require additional finishing option. See web site for more information.

8x10 \$1.49 Every image is
"Lab Corrected"

Prices for a few other sizes on Kodak® Endura® paper.

8 wallets	1.75	8 x 10	1.49	16 x 20	13.50
4 x 5 or 6	.29	10 x 10	2.49	20 x 24	19.99
5 x 7	.99	11 x 14	3.99	20 x 30	24.99

Great Prints. Great Prices. Easy Ordering. **It's that Simple.**

meridian
Professional Imaging

www.meridianpro.com | 800-544-1370

LAB * DSLR TEST OLYMPUS E-5

frames and the Canon at 126 frames when using a UDMA card. We'd consider 5 fps the lower limit for serious sports shooting, so if this is fast enough for you, you won't mind it on the E-5.

The Olympus Art Filters, which apply effects as you shoot, might seem silly, but they can also be fun and even useful. When you're shooting RAW and JPEG images simultaneously, you can experiment with different looks on the spot, and you always have the RAW file as an untouched backup.

There are 10 Art Filters to choose from, such as Pop Art for high-contrast coupled with high-saturation, the self-explanatory Gentle Sepia, and the new Dramatic Tone, which increases contrast locally in portions of the image for an unrealistic-yet-intense look. And you can even

use any of these while shooting video, though some will slow the video frame rate.

Bottom Line

Comparing cameras in this price range is tough. People interested in a body at this level may already be invested in a particular system. If you already own an entry-level or midlevel Olympus body and are looking to step up, the E-5 offers a very solidly built, well-thought-out design that can provide a high level of image quality.

Olympus E-3 owners face a harder decision, but given the E-5's increase in resolution, added stop of sensitivity, new HD video capture, and Art Filters, we think there's a compelling enough argument to switch, especially if your E-3 has seen heavy use.

Against equivalent Canon and Nikon bodies, it's a different game.

One of the less obvious benefits of a higher-end DSLR is a 100% accurate optical viewfinder such as the one found in the E-5.

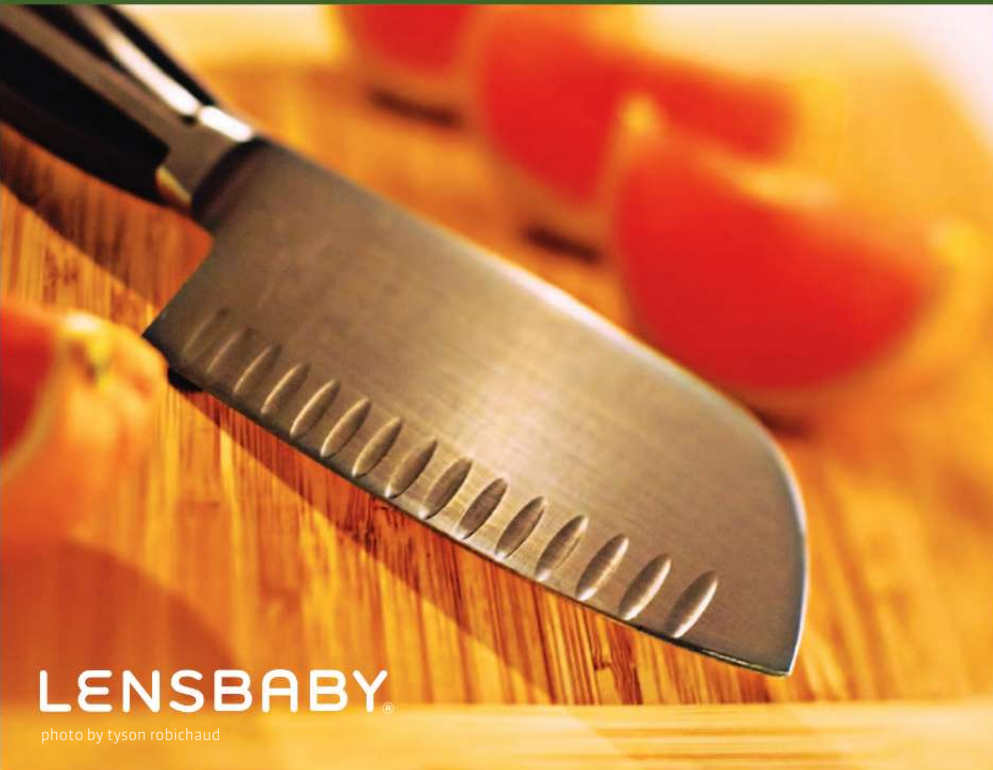
Both the 7D and D300s have certain performance and image-quality advantages over the E-5, but the Olympus has features these two lack—a major example is its sensor-shift image stabilization, which works with any mountable lens and which gave our testers 3 stops of shutter speed leeway when shooting at 200mm.

The E-5's rugged construction and weathersealing are also a notch better than those of its competitors. And, finally, unlike the 7D and the D300s, the Olympus has an articulated LCD. Even though the Canon offers 1080p video recording, recording video with the E-5 is less tricky to do.

For DSLRs in this price bracket, if you're looking for a powerful imaging tool with rugged construction and a lot of versatility, the Olympus E-5 may be your match.

—Philip Ryan

REVOLUTIONARY TILT



Rethink how a camera lens should be used. Lensbaby's

Tilt Transformer lets you create images with a razor sharp slice of focus using your Micro 4/3rds or Sony® a NEX cameras and Nikon® mount lenses. The Tilt Transformer™ frees your Nikon lenses to tilt fluidly, with up to twice the range of standard tilt-shift lenses.

Tilt your lens in any direction, placing a sharp slice of focus anywhere within a field of soft blur.



LENSBABY®

photo by tyson robichaud

Fast Glass

THIS FOUR THIRDS LENS SETS A SPEED RECORD

WITH THE NEW E-5, tested in this issue, Olympus turns back to the Four Thirds DSLR format after a two-year push for interchangeable-lens compacts (ILCs). A fitting example of Oly's commitment to the format, this 14-35mm f/2 (a 28-70mm equivalent) is the world's fastest standard-range zoom for DSLRs and well paired with the company's 35-100mm f/2 speedster. Among its strengths: a Supersonic Wave Drive (SWD) autofocus motor, dust and moisture seals, extra-low dispersion glass, and updateable firmware. But it comes at a hefty street price: \$2,300.

The lens is heavier than Sigma's comparable f/2.8 full-frame lens, and it's long enough to cast a shadow when used at the widest focal lengths with the E-5's built-in flash. In the field, we liked its full-time manual focus with a long, 200-degree turn that practically forces precision focusing. The AF motor is very quiet, though not completely silent. Really nice? The lens shade's finger port, which lets you adjust filter positions without removing the hood.

On our optical bench in the Popular Photography Test Lab, it produced uniformly Excellent-

range sharpness and contrast—a slightly better performance than the Canon, Nikon, and Sigma 24-70mm f/2.8 full-framers. Among recently tested glass, the Zuiko took a back seat only to Sony's 24-70mm f/2.8, a Carl Zeiss design. In DxO Analyzer 3.2 tests of distortion control, its numbers were stellar: Visible-range barrel at 14mm (0.34%) that compared very favorably to the Canon's 1.7% Very Visible barrel distortion at 24mm. The Imperceptible pincushioning at 25mm and 35mm (0.04% and 0.03%, respectively) were remarkable and a tribute to Olympus' nearly unsurpassed optical expertise.

In short, the lens is another fabulous Zuiko that could ultimately help draw a greater number of serious photographers to the Four Thirds format. —*Julia Silber*



SPECIFICATIONS

14-35MM (14.18-34.39mm tested), f/2.0 (1.83-2.00 tested), 18 elements in 17 groups. Focus ring turns 200°. Zoom ring turns 80°. Focal lengths marked at 14, 18, 25, and 35mm.

DIAGONAL VIEW ANGLE: 75-34 degrees.

WEIGHT: 2.05 lb.

FILTER SIZE: 77mm.

MOUNTS: Four Thirds.

INCLUDED: Lenshood, soft case.

STREET PRICE: \$2,300.

TEST RESULTS

DISTORTION: At 14mm, 0.34% (Visible) barrel. At 25mm, 0.04% (Imperceptible) pincushion. At 35mm, 0.03% (Imperceptible) pincushion.

LIGHT FALLOFF: At 14mm, gone by f/2.5. At 25mm, none. At 35mm, gone by f/2.5.

CLOSE-FOCUSING DISTANCE: 12.43 inches.

MAXIMUM MAGNIFICATION RATIO: At 14mm, 1:12.47. At 25mm, 1:8.25. At 35mm, 1:7.35.

It has both the hefty length and girth you would expect of an f/2 pro zoom—the prices you pay for speed.

SUBJECTIVE QUALITY FACTOR

Our standard lens test, SQF rates sharpness by print size.

Size	5x7	8x10	11x14	16x20	20x24
2.0	96.7	95.7	93.3	88.4	82.4
2.8	97.0	96.1	94.0	89.7	84.6
4.0	97.2	96.4	94.4	90.6	85.9
5.6	97.2	96.3	94.3	90.4	85.7
8.0	97.1	96.2	94.0	89.9	84.9
11.0	96.8	95.8	93.5	89.1	83.5
16.0	96.4	95.4	92.8	87.6	81.2
22.0	95.6	94.3	91.0	84.3	75.8

Size	5x7	8x10	11x14	16x20	20x24
2.0	97.2	96.4	94.3	90.3	85.4
2.8	97.5	96.7	94.9	91.6	87.6
4.0	97.7	96.9	95.3	92.2	88.6
5.6	97.7	97.0	95.3	92.3	88.7
8.0	97.5	96.7	95.0	91.7	87.8
11.0	97.1	96.2	94.0	90.0	85.2
16.0	96.5	95.5	92.9	88.0	81.9
22.0	95.8	94.5	91.4	85.1	77.2

Size	5x7	8x10	11x14	16x20	20x24
2.0	97.3	96.5	94.5	90.9	86.4
2.8	97.5	96.7	95.0	91.7	87.7
4.0	97.6	96.8	95.1	91.8	87.9
5.6	97.6	96.9	95.2	92.0	88.2
8.0	97.4	96.5	94.5	91.1	86.7
11.0	97.0	96.1	93.9	89.7	84.5
16.0	96.3	95.1	92.4	88.9	80.0
22.0	95.6	94.2	90.9	84.0	75.3

KEY A+ A B+ B C+ C D F

OLYMPUS ZUIKO DIGITAL ED 14-35MM F/2 SWD

WHAT'S HOT

Speedy, sharp, and fast-focusing.

WHAT'S NOT

¡Muy costoso!

WHO IT'S FOR

Pro and semi-pro Four Thirds fans.

harness nature



create your own vantage point

JOBY®

JOBY.com

INTERfit

Strobies

it's what your hotshoe flash
has been waiting for



A range of Accessories
for your flashgun



NEW 3 Way Bracket
with umbrella holder



See the STROBIES full range
on
www.interfitphotographic.com

Interfit Photographic Ltd
420 Industrial court West
Villa Rica, GA 30180
Tel : (toll Free) 1-866-947-9796

LAB * LENS TEST TOKINA AT-X 16-28MM F/2.8 PRO FX AF

AMATEUR PRO

Wow Debut

A NEW ULTRAWIDE THAT'S ALSO ULTRAGOOD

THE FIRST in a promised line of AT-X Pro FX full-frame Tokinas, this is also the company's first with a highly refined, micro AF motor that's both silent and fast-focusing. Approximately a 26-45mm equivalent on Canon's APS-C bodies and 24-42mm on Nikon's—the only mounts in which it's available—this \$850 (street) lens zooms and focuses internally for a completely stationary barrel.

This barrel is large and quite heavy. (To compare, in 2008 we called Canon's 16-35mm f/2.8L II, which is 12 ounces lighter, "tank-like.") It's nicely finished with gold accents and a fixed hood.

Unlike most internal-focusing lenses, this Tokina doesn't offer full-time manual focus. But in use it feels close to that norm, thanks to the smooth-turning MF ring, which doubles as a push/pull-type MF/AF switch. The zoom turn, although even, feels stiff, and the new DC motor makes the AF action fast and very close to silent.

CONTINUES ON PAGE 140

TOKINA AT-X 16-28MM F/2.8 PRO FX

WHAT'S HOT

Optically best in class.

WHAT'S NOT

No image stabilization or filter compatibility.

WHO IT'S FOR

Any photographer who's into distortion-free, wide-angle shooting.



SPECIFICATIONS

16-28MM (16.47-27.32mm tested), f/2.8 (2.55-2.94 tested), 15 elements in 13 groups. Focus ring turns 80°. Zoom ring turns 60°. Focal lengths marked at 16-, 20-, 24-, and 28mm.

DIAGONAL VIEW ANGLE: 107-76 degrees.

WEIGHT: 2.21 lb.

FILTER SIZE: Doesn't accept threaded filters.

MOUNTS: Canon AF, Nikon AF.

STREET PRICE: \$850.

TEST RESULTS

DISTORTION: At 16mm, 0.04% (Imperceptible) barrel. At 24mm, 0.02% (Imperceptible) pincushion. At 28mm, 0.02% (Imperceptible) pincushion.

LIGHT FALLOFF: At 16mm, none. At 24mm, none. At 28mm, none.

CLOSE-FOCUSING DISTANCE: 10.16 inches.

MAXIMUM MAGNIFICATION RATIO: At 16mm, 1:7.18. At 24mm, 1:4.89. At 28mm, 1:4.25.

WEBSITE PLANS ON SALE!

**ALL WEB HOSTING
PACKAGES JUST:**

\$3.99
per month*
For the first 3 months!



Whether you're a beginner or a professional, 1&1 offers a full range of website solutions to suit your needs. For a limited time, we're offering all web hosting packages at one incredible low price. Website building tools, unlimited traffic, and search engine marketing dollars are included with all packages.

Go to www.1and1.com to choose your package!

DOMAIN OFFERS:

.info only \$0.99 first year* **.com only \$7.99** first year*



Free Web
Marketing Tools



90-Day Money
Back Guarantee



24/7 Toll-Free
Support



Call 1-877-GO-1AND1 or visit us now

www.1and1.com

*Offers begin November 1, 2010. 12 month minimum contract term applies for web hosting offers. Setup fee and other terms and conditions may apply. Domain offers valid first year only. After first year, standard pricing applies. Visit www.1and1.com for full promotional offer details. Program and pricing specifications and availability subject to change without notice. 1&1 and the 1&1 logo are trademarks of 1&1 Internet AG, all other trademarks are the property of their respective owners. © 2010 1&1 Internet, Inc. All rights reserved.



A Useful Tool

IN THE LATEST ELEMENTS, THE CHANGES ARE SMALL BUT HELPFUL

ONE OF THE BEST programs available to hobbyists for organizing photos and fairly significant retouching, Adobe Photoshop Elements has always been great at what it's capable of. And now it's capable of more.

The new version, Elements 9 (\$100, direct), adds a few useful new editing tools, makes sharing a bit easier, and simplifies retouching for beginners. This upgrade is big news for Apple users, bringing the Mac version in sync with Elements for PC.

Editing and Retouching

Elements comes in two parts: The Organizer and the Editor.

The Organizer is the hub where you import, tag, share, and make projects with your pictures. Editing happens, of course, in the Editor, though there are some quick edits available for JPEGs in the Organizer, as well.

The more exciting upgrades this go-round are in the Editor. We were happily surprised that two of Photoshop's best tools are now available in Elements: the Content-Aware Healing Brush (which recently made its debut in Photoshop CS5) and Masks.

The old Healing Brush was great for removing spots on areas of consistent tone or texture, but would flub near edges. Now, turn

The Guided Edit mode helps you learn to use the tools. Above, it explains the histogram and the Levels tool while fixing a picture.

Content Aware on while in the tool, and you can remove spots that are near or even covering edges or in multiple textures.

Masks in Elements is a bigger deal yet. Up until now, Masks have only been enabled when using Adjustment Layers. But with this version, you can do really sophisticated retouching and compositing previously

SPECIFICATIONS

MINIMUM SYSTEM REQUIREMENTS

Windows: XP or newer, 1.6GHz processor, 1GB RAM, 3GB HD space.

Mac: OS 10.5.8 or newer, multicore Intel processor, 1GB RAM, 3.4GB HD space.

PRICE: \$100, direct; www.adobe.com

ADOBE PHOTOSHOP ELEMENTS 9

WHAT'S HOT

Full masking capabilities in the Editor.

WHAT'S NOT

RAW file handling is clunky at best.

WHO IT'S FOR

JPEG shooters who need to get organized and love to share their photos.

CARBON FIBER TRIPODS

by Flashpoint - Exclusively from adorama.com

ALL THE FEATURES OF HIGH-PRICED CARBON FIBER TRIPODS... WITHOUT THE HIGH PRICE

Carbon fiber is much stronger than aluminum, yet it is about 30% lighter in weight. It absorbs shock and does not transmit vibrations- ensuring sharper images. Opens and closes with ease, and can be used for ground-level photography. Leg ends are rubber tipped and have retractable spikes for steady shooting everywhere.

With Flip-Lock Latches:

	Weight	Load	Height	Closed	INTRODUCTORY PRICE
Tripod F-2127	3.0lbs	17.6lbs	57-1/2"	23.6"	\$129.95
Tripod F-2228	3.8lbs	22lbs	65"	22"	\$169.95
Tripod F-2328	4.2lbs	26.4lbs	68-1/2"	22.4"	\$249.95
Mono F-2560FL	15.5 oz.	26lbs	57"	19.3"	\$79.95

Original, Twist-Lock Legs:

	Weight	Load	Height	Closed	PRICE
Tripod F-1127	2.7lbs	18.7lbs	58.3"	24"	\$119.95
Tripod F-1128	2.64lbs	9.9lbs	55-1/4"	18.5"	\$139.95
Tripod F-1128 w/Head		9.9lbs	55-1/4"	18.5"	\$179.95
Tripod F-1228	3.30lbs	17.6lbs	60-1/4"	20.1"	\$169.95
Tripod F-1328	3.96lbs	24.2lbs	63-3/4"	21.65"	\$259.95
Tripod F-1428	5.72lbs	26.4lbs	72"	24"	\$324.95

Magnesium Alloy Ball Heads:

Stronger and lighter than aluminum

	Weight	Load	Height	PRICE
Ball Head F-1	11.6 oz.	8.8lbs	3.46"	\$49.95
Ball Head F-2	14.4 oz.	11lbs	3.66"	\$56.95
Ball Head F-3	16.1 oz.	17.6lbs	3.86"	\$69.95
Ball Head F-4	30 oz.	40lbs	4.92"	\$114.95
Ball Head F-9	5 oz.	33lbs	3.0"	\$59.95
Gimbal Head 1	2.2lbs	15.4lbs	8.26"	\$239.95
Gimbal Head 2	2.0lbs	6.5lbs	7"	\$199.95



Ball Head F-1-4



Ball Head F-9



Gimbal Head 1



Jiffy Ball Head

Call.
800.223.2500

Logon.
adorama.com

Visit.
42 W. 18th St. NYC 10011

FLASHPOINT

possible only in the much more expensive Photoshop.

Elements 9 also contains some new stuff for casual users and those new to image editing. There's the new Guided Edit mode, which hides the toolbar and provides a list of possible tasks, walking you through each of them.

When you're finished, you can go back to Full Edit mode to see the layers that were created.

There are also some new cute and fun effects, like those that create a "Lomo" (plastic camera) or pop-art look. But with so many of these available in compact cameras or cellphone apps,

we're curious about whether Elements users are actually clamoring for them.

Organizing and Sharing

Until now, Mac users didn't have the Organizer—instead, the Mac edition of Elements 8 came with Bridge. We suspect that most of Adobe's efforts this round went into achieving parity between the Mac and PC editions, because there aren't too many earth-shaking improvements to the Organizer.

That's fine: We didn't have much to complain about in the last version. You can view your images in a typical grid or see them as thumbnails arranged on a calendar. You can create tags and label your pictures singly or in batches. And you can use People Recognition to find and tag faces of friends and family.

With Elements 8, we complained that, while it was easy enough to share to Adobe's Photoshop.com online service, sharing to Facebook was impossible. That's been fixed with this upgrade, and now it's also easy to share to Flickr or Kodak Gallery.

Having just tried out 10 photo-book services in our November issue, we were looking forward to giving Elements' revamped book-creation process a spin. Unfortunately, it let us down somewhat.

The positive includes the ability to lay out your book and then send it to Kodak Gallery or Shutterfly for printing—you can also print it yourself, along with other creative projects such as collages. It's a definite improvement over Elements 8, since you can choose the layouts you want and add images with ease.

But the process is otherwise a bit frustrating. If you use lots of high-resolution images, switch-

CONTINUES ON PAGE 150

tamrac®

Expedition Series

The Ultimate Photo/Laptop Backpacks. Five sizes available.



Expedition 8x
model
5588



model
5587



model
5586



model
5587

For Your Accessories...

Your Gear...

and Your Back.

For a FREE 80 page Color Catalog, call toll-free

1-800-662-0717

See the Expedition Series
and over 170 other products at
www.tamrac.com

tamrac®
PHOTO, LUGGAGE & COMPUTER CASES

Turn your used photo equipment into **cash!**

with Adorama Used Marketplace.

We Pay Top Dollar
for rare pieces & collections

Extra Cash Bonuses
for current models

Easy online quotes
at: adorama.com/sell



We want to buy your used or unused photo equipment!

Adorama spent millions of dollars in 2008 buying 35mm, Medium & Large Format, Scopes, Video and Digital equipment.

Our customers happily traded or cashed in their equipment. We were able to satisfy them by simply **paying above market value**.

Adorama pays **top dollar** for individual items, rare pieces, collections and estates.

3 Small Steps for Giant payouts!

FAST

We can arrange a **FREE** UPS insured pickup in the USA, or you may send it to us at your convenience.

SIMPLE

Expect one of our agents to contact you as soon as your equipment is evaluated.

SMOOTH

Your check, direct deposit or trade will be sent out promptly.

If you are not pleased with our offer, we will return the equipment fully insured at our expense.

To find out the value of your equipment, contact us:

Phone:
800-223-2500

Online Quote:
adorama.com/sell

e-mail:
used@adorama.com
Please include your phone number in the e-mail.

Bring it:
**42 West 18th Street
New York NY 10011**

Ship it:
**Adorama
Att. Used Department
7 Slater Drive
Elizabeth, NJ 07206**

Adorama has over 250,000 new items and more than 25,000 used items in stock



ADORAMA
THE PHOTOGRAPHY PEOPLE

Wishing All Our Customers a Happy and Healthy Holiday Season

BEACH CAMERA®

Where the Customer Always Comes First

1-800-634-1811

Toll-free Customer Service 800-634-1811 Dial 2
or email us at CS@beachcamera.com
Retail Showroom: **732-968-6400**
203 Route 22 East Green Brook, NJ 08812

Sunday..... 10:00am-7:00pm Mon-Thurs..... 9:30am-9:00pm Friday..... 9:30am-2:00pm

All products are brand new, factory fresh and include USA warranty!

www.beachcamera.com

Digital Photography

Nikon

Nikon Authorized Dealer

all Nikon products include full Nikon USA warranty!

COOLPIX L22

At the heart of the image...

Make Memories. Share Joy.

The COOLPIX L22 is the ideal camera for consumers who are looking to easily capture all of life's memories at an affordable price, but without compromising performance. The COOLPIX L22 features 12-megapixel resolution for stunning image detail, a 3.6x Zoom-NIKKOR lens for creative compositional freedom, ISO up to 1600 capability helps give you sharper results when shooting in low light or capturing fast-moving subjects. The COOLPIX L22 sports a huge bright 3.0-inch 230,000-dot LCD screen with a wide-viewing angle and anti-glare coating.; 3-way VR Image Stabilization System; Smart Portrait System; Easy Auto Mode and more. Nikon, Inc. limited warranty included 2010 Nikon Inc.



COOLPIX P7000

High Performance. Creative Control. Outstanding Images

The Nikon COOLPIX P7000 is a compact, high-performance camera featuring a 10MP large 1/1.7-inch CCD sensor 7.1x Wide-Angle Optical Zoom, HD (720p) Movie with Stereo, Mic Input Jack and HDMI Output. And a host of other features. The P7000 is designed for no-limits shooting handling low-light or tricky light, fast-moving subjects, dramatic landscapes and detailed close-ups with ease. Nikon, Inc. limited warranty included 2010 Nikon Inc.



COOLPIX S4000

A Beautiful Touch on Picture Taking

The COOLPIX S4000 is equipped with a high-resolution 3-in., 460k-dot touch panel TFT LCD monitor that offers intuitive operation. Monitor visibility has been increased for clear display of more details. Practical operational controls, new touch panel functions including touch shutter and slider adjustment of white balance are also included. Nikon, Inc. limited warranty included 2010 Nikon Inc.



D3100

New!

Beautiful Pictures. Amazing Movies. Incredibly Easy.

The 14.2-megapixel D3100 has powerful features, such as the enhanced Guide Mode that makes it easy to unleash creative potential and capture memories with still images and full HD video. It is also the world's first D-SLR to introduce full time auto focus (AF) in Live View and D-Movie mode to effortlessly achieve the critical focus needed when shooting Full HD 1080p video. Nikon, Inc. limited warranty included 2010 Nikon Inc.



D5000

Smart. Sharp. Simply Brilliant

The D5000 12MP DSLR Camera expands possibilities for photo and HD Video creativity with D-Movie mode, Var-Angle LCD Monitor & 19 Automatic Scene Modes. It also incorporates a comprehensive set of in-camera editing features to make the most of captured images without the need of a computer. Nikon, Inc. limited warranty included 2010 Nikon Inc.



D7000

New!

Power to Astonish. Features to Inspire

The D7000 Offers Creative Freedom with Advanced Features Such as a New 16.2-Megapixel DX-Format CMOS Sensor, Six FPS Shooting, and more. The new EXPEDIT 2.1M image-processing engine fuels the enhanced performance of the D7000 along with a new 39-point AF system and groundbreaking new 2.016 pixel RGB 3D Matrix Metering System to deliver amazing image quality in a variety of shooting conditions. Additionally, the D7000 D-SLR provides full 1080p HD movie capability with full-time auto focus (AF) images. Nikon, Inc. limited warranty included 2010 Nikon Inc.



CALL OR LOG ONTO WWW.BEACHCAMERA.COM FOR UP-TO-THE MINUTE REBATES, PRICING AND CURRENT PROMOTIONS.

Digital SLR's

Canon

OLYMPUS

PENTAX

TAMRON

Purchase with Pro 9000 II
Printer and get a
\$400 Mail-In Rebate
thru 12/31/10



\$80 Mail-In Rebate
thru 12/31/10

EOS 60D

New!

The Journey Continues

The EOS 60D DSLR features an improved APS-C sized 18MP CMOS sensor, a new DIGIC 4 Image Processor for finer detail and excellent color reproduction, and improved ISO capabilities from 100 - 6400 (expandable to 12800) for uncompromised shooting even in the dimmest situations. The new Multi-Control Dial enables users to conveniently operate menus and enter settings with a simple touch.

PEN E-PL1

Powerfully Simple

The new Olympus PEN E-PL1 is truly greater than the sum of its parts. This surprisingly small camera body is packed with technology normally found in bigger, bulkier cameras and High Definition (HD) camcorders. With features like interchangeable lenses, the new Live Guide and one-touch HD video - the E-PL1 is an easy-to-use and portable all-in-one package that travels with you to capture all the details of your life.

K-r

New!

Brilliantly Colorful

The colorful PENTAX K-r DSLR camera offers advanced yet simple to use features at an attractive price. It is easy to use with Auto Picture, Scene, and Custom Image Processing modes that take the guesswork out of shooting stunning images while still offering a high degree of manual and priority control. The K-r offers a variety of new and improved features including a fast framerate, high ISO sensitivity, 3-inch LCD, responsive autofocus, an improved 12.4 megapixel low-noise sensor and widescreen HD video capture that take it a step above an entry-level DSLR camera.

AF18-270mm F/3.5-6.3 Di II VC (Vibration Compensation) LD Aspherical (IF) Macro

The Longest Steadiest Lens on Earth

The AF 18-270 covers an angle of view equivalent to that of a 28mm wideangle to a 419mm ultra telephoto with just one lens, letting the user capture once-in-a-lifetime images of panoramic landscape images or close-up pictures of children smiling, without having to get too close to the subject and without having to change lenses.

Camcorders

Canon imageANYWARE

Vixia HF M300

A brilliant blend of capability and convenience.

Canon's VIXIA HF M300 Flash Memory Camcorder records directly to an SD memory card. A Genuine Canon 15x HD Video Lens and 3.89-megapixel Full HD CMOS Image Sensor help to deliver high definition video and 3.3 MP photos with incredible detail and lifelike color. Smart Auto "reads" the visual components of the scene you're shooting and chooses the best settings. Touch & Track allows you to achieve sharp focus and precise exposure for any subject, simply by touching the 2.7" Touch Panel LCD.



FS300

Fast, Flexible, Flash Memory

Adding to the usefulness of the Canon FS300 flash memory camcorder is Quick Charge - which reduces the recharge time for the FS300's battery and Pre-Record which gives you a head start on capturing the action. With the FS300's Canon Exclusive features such as Canon 41x Advanced Zoom and DIGIC DV II Image Processor, combined with a 2.7" Widescreen LCD, Quick Charge and our new Dynamic IS - you've got a flash memory camcorder that's both hard to beat and unmistakably Canon.



Vixia HF R11

HD Dual Flash Memory Camcorder

With the Canon VIXIA HF R11 Dual Flash Memory Camcorder, you'll find that high definition video has hit new levels of convenience, ease, performance - and value. The VIXIA HF R11 has a 32GB internal flash drive, together with an SD memory card slot, Canon's Relay Recording and Smart Auto. A Genuine Canon 20x HD Video Lens and Dynamic IS works in combination with Canon's sophisticated HD image processing to deliver the sharp, vivid, lifelike video you want to see on your HDTV. Advanced Video Snapshot lets you create 2-, 4- or 8-second movie clips, with music, that are perfect for sharing.



Vixia HF S200

Shoot. Capture. See. Be HD.

Canon's VIXIA HF S200 Flash Memory Camcorder, with two SD memory card slots, offers Canon's most sophisticated feature set to date - blurring the line between consumer and professional. Canon's superlative proprietary imaging technologies help deliver video and 8.0 megapixel photos with incredible detail and lifelike color. Touch & Track allows you to achieve sharp focus and precise exposure for any subject, simply by touching the enormous 3.5 inch High Resolution (922,000 dot) Touch Panel LCD. Native 24p Mode perfectly matches the frame rate of film.



We carry Cameras, Digital Cameras, Camcorders, VCR's, DVD's, Audio, Printers, Scanners, PDA's and more

From: **Canon Nikon SAMSUNG OLYMPUS SONY FUJI Kodak PENTAX HP HEWLETT PACKARD JVC Panasonic SHARP CASIO TAMRON L' LOWRANCE EPSON Pioneer DANE-ELEC GARMIN TOSHIBA iZVEZ bogen Pinnacle MAGELLAN zenith tomtom**

All merchandise is brand new and factory fresh. Prices are For Mail Order Only. 10% deposit required for C.O.D. orders. No restocking fee will be charged if merchandise is returned in pristine condition (returns are only subject to a 10% restocking fee if package is opened). Exchange or refund less shipping and handling within 15 days of receiving merchandise only if returned in original condition with original package and unexpired warranty cards. Please call 1-800-634-1811 Dial 2 for return authorization before returning product. Prices effective through end of monthly issue. Not Responsible for Typographical or Human Errors. All credit cards gladly accepted without any additional charges. New Jersey Resident add 6% Sales Tax. Prices are subject to verifiable manufacturer's price increases & decreases. Thank you for shopping with us. FedEx Saver shipping charges: minimum \$9.95 under \$100. Over \$100 add \$5.00 for every \$500 increase. Call or check website for further details. Ask for your shipping total. *Asterisk indicates price listed is after mfg's rebate. We appreciate your business every day! Prices Valid Thru Monthly Coverdate. Policy applies to all Beach Camera Advertisements. Shop on line 24 hours at our website www.beachcamera.com. Thank you for shopping with Beach.

True PDF release: storemags & fantamag

THE GUIDE

GUIDE TO THE GUIDE

In these three pages, we rate all of the current DSLRs (and one rangefinder), plus all of the current lenses within a given focal range, that we've tested. The star ratings reflect:

CAMERAS

- **Image quality:** Includes resolution, noise, and color accuracy
- **Performance/capabilities:** Includes autofocus, metering, and burst rate
- **Usability:** Includes ergonomics, controls, and customization

LENSES

- **Optics:** Such as sharpness, distortion, light falloff
- **Barrel design:** Includes focus and zoom rings, markings, and AF motor

To match cameras and lenses, look for the labels.

APSC FOUR THIRDS FULL-FRAME BEST IN CLASS GETTING OLD STEAL PRICEY

OUR OPINIONATED TAKE ON THE CAMERAS AND LENSES WE'VE TESTED

CANON EOS-1D MARK IV

★★★★★ 1/2 **APSC-H**
AMATEUR PRO

\$5,000, street, body only

Canon's premier speedster (in terms of JPEG and RAW burst rates) earns a half-star more in the rating due to increased resolution and ISOs in the stratospheric (102,400) range, but could have gained more with faster low-light AF. **STANDOUT SPEC** 10 fps at full resolution—with metering and autofocus on all. **SENSOR** 16.1MP CMOS,



PRICEY

14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 1080p/30 fps, 720p/60 fps
LCD 3-in., 920,000-dot

CANON EOS-1Ds MARK III

★★★★★ 1/2 **FULL-FRAME**
AMATEUR PRO

\$6,114, street, body only

Once Canon's megapixel king, it now shares that throne with the newer, and far less expensive, EOS 5D Mark II. Awesome image quality in a bulletproof body—at a high cost in both weight and dollars. A favorite of nature and studio shooters both. **STANDOUT SPEC** Medium-format-caliber imaging from a (sort of) 35mm body.



PRICEY

SENSOR 21.1MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO None
LCD 3-in., 230,000-dot

CANON EOS 5D MARK II

★★★★★ 1/2 **FULL-FRAME**
AMATEUR PRO

\$2,500, street, body only

Long-awaited update of the original full-frame workhorse, the Mark II impressed us with stellar image quality, HD video, rugged construction—but not the older autofocus system recycled from the Mark I. Film students—and cine pros—have taken to its video big time. **STANDOUT SPEC** Excellent image quality up to ISO 3200—nuff said.



SENSOR 21.1MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 1080p/30 fps, 720p/30 fps
LCD 3-in., 920,000-dot

CANON EOS 7D

★★★★★ **APSC-C**
AMATEUR PRO

\$1,545, street, body only

Canon's top APS-C body is also its first with wireless flash control through the pop-up. Solid, weathersealed build is bolstered by high-res images with low noise at high ISOs. **STANDOUT SPEC** Its 8-fps native burst rate is the fastest of any APS-C format body, just beating out Nikon's D300s. **SENSOR** 18MP CMOS, 14-bit



RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 1080p/30 fps, 720p/60 fps
LCD 3-in., 920,000-dot

CANON EOS 50D

★★★★★ **APSC-C**
AMATEUR PRO

\$966, street, body only

Facing retirement with the introduction of the EOS 60D, it's still a goodie thanks to standout image quality, great build, and speedy shooting. But no video: For that, you'll need a 7D, 60D, or a Rebel. **STANDOUT SPEC** 6.3-fps burst rate still quite good in this class—but no longer the fastest of the fast.



GETTING OLD

SENSOR 15.1MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO None
LCD 3-in., 920,000-dot

CANON EOS REBEL T1i

★★★★★ **APSC-C**
AMATEUR PRO

\$700, street, with 18-55mm f/3.5-5.6 EF-S IS lens

As far from a "starter" camera as any Rebel has ever come (up until the T2i), it has the same sensor and nearly the same processing power as pricier big brother EOS 50D. **STANDOUT SPEC** Sheer imaging power—both still and video—ranks best for this price. **SENSOR** 15.1MP CMOS,



STEAL

14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 1080p/20 fps, 720p/30 fps
LCD 3-in., 920,000-dot

CANON EOS REBEL T2i

★★★★★ **APSC-C**
AMATEUR PRO

\$900, street, with 18-55mm f/3.5-5.6 EF-S IS lens

With better video and more resolving power than we've ever seen at its price level, this Canon delivers enthusiast-level image quality in an "entry-level" Rebel body. **STANDOUT SPEC** Best video you can find for under \$1,000, and have you seen that LCD? **SENSOR** 18MP CMOS,



STEAL

BEST IN CLASS

14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 1080p/30 fps, 720p/60 fps
LCD 3-in., 1.04 million-dot

CANON EOS REBEL XS

★★★★★ 1/2 **APSC-C**
AMATEUR PRO

\$520, street, with 18-55mm f/3.5-5.6 EF-S IS lens

Inheriting the sensor of the former "top Rebel" XTi, the XS adds live view to round out Canon's most economical DSLR. And it comes with an IS kit lens, standard. **STANDOUT SPEC** The XS, for an entry-level model, autofocuses faster than many a pricier camera.



GETTING OLD

SENSOR 10MP CMOS, 12-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO None
LCD 2.5-in., 230,000-dot

LEICA M9

★★★★★ 1/2 **FULL-FRAME**
AMATEUR PRO

\$6,995, street, body only

Leica finally serves up a full-frame M-series body, and in our lab tests it produced Excellent image quality through ISO 800. Outside the lab, we loved the classic Leica style and good old-fashioned simplicity of operation. But what's with the maximum ISO of 2500? **STANDOUT SPEC** A sensor



PRICEY

that delivers all the quality Leica lenses can provide. **SENSOR** 18MP CCD, 14-bit RAW capture
IMAGE STABILIZATION None
VIDEO None
LCD 2.5-in., 230,000-dot

NIKON D3S

★★★★★ 1/2 **FULL-FRAME**
AMATEUR PRO

\$5,200, street, body only

Update of the D3 was the first DSLR to break the ISO 100,000 barrier, and adds video capture. If 12.1MP sounds low, superb color accuracy and clean images up to ISO 6400 make up for it. **STANDOUT SPEC** Noise control—essentially the best in the business. **SENSOR** 12.1MP CMOS, 14-bit RAW capture



IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 720p/24 fps
LCD 3-in., 921,000-dot

NIKON D3X

★★★★★ **FULL-FRAME**
AMATEUR PRO

\$7,400, street, body only

Our 2009 Camera of the Year, it's the image-quality champ of current DSLRs—and should be for a while. Built like a tank, heavy and expensive, but those who love it don't care. Has the fastest AF in low light. **STANDOUT SPEC** The absolute, breathtaking state-of-the-artness of it. **SENSOR** 24.5MP CMOS,



PRICEY

BEST IN CLASS

14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO None
LCD 3-in., 920,000-dot

NIKON D90

★★★★★ 1/2 **APSC-C**
AMATEUR PRO

\$870, street, body only

The first DSLR with video, it remains Nikon's main midlevel model, with great resolution, HD movie-making, and near-perfect layout. Unlike lesser Nikons, it accepts lenses without AF motors. **STANDOUT SPEC** The pop-up flash that supports wireless flash control. You won't find that on the D5000.



STEAL

GETTING OLD

SENSOR 12.3MP CMOS, 12-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 720p/24 fps
LCD 3-in., 920,000-dot

GUIDE TO THE GUIDE

In these three pages, we rate all of the current DSLRs, plus all of the current lenses within a given focal length range, that we've tested. The star ratings reflect:

CAMERAS

- **Image quality:** Includes resolution, noise, and color accuracy
- **Performance/capabilities:** Includes autofocus, metering, and burst rate
- **Usability:** Includes ergonomics, controls, and customization

LENSES

- **Optics:** Includes sharpness, distortion, and light falloff
- **Barrel design:** Includes focus and zoom rings, markings, and AF motor

To match cameras and lenses, look for the labels below.

APS-C FOUR THIRDS FULL-FRAME BEST IN CLASS GETTING OLD NEW MODEL STEAL PRICEY

NIKON D300S

★★★★★
AMATEUR PRO

\$1,545, street, body only

Thoughtful major tweak of the well-regarded D300 adds video (we wish it did 1080p at 30 fps) and increases native burst rate to 7 fps. Very competitive with the current state of the midrange art, but that battle keeps on smokin'.

STANDOUT SPEC Color-and-shape-sensing AF tracking a standout shooting tool.



SENSOR 12.3MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 720p/24 fps
LCD 3-in., 921,000-dot

NIKON D700

★★★★★
AMATEUR PRO

\$2,400, street, body only

For the enthusiast craving pro-grade features, the D700 offers a full-frame sensor borrowed from the D3 supercamera, sensitivity to ISO 25,600, 51-zone AF, and a pop-up flash with wireless flash control.

STANDOUT SPEC That big, juicy full-frame sensor in an enthusiast's \$2,400 body, for great low-noise shooting from



ISO 100 through 6400.
SENSOR 12.1MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO None
LCD 3-in., 921,000-dot

NIKON D3000

★★★ 1/2
AMATEUR PRO

\$450, street, with 18-55mm f/3.5-5.6 DX Nikkor VR lens

Another model facing retirement, this low-cost entry-level DSLR provides very high image quality for its class, but disappointing AF speed, odd feature omissions, and no video—items remedied on its replacement, the new D3100, to be tested soon.

STANDOUT SPEC 420-zone



Matrix metering system.
SENSOR 10.2MP CCD, 12-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO None
LCD 3-in., 230,000-dot

NIKON D5000

★★★★★
AMATEUR PRO

\$750, street, with 18-55mm f/3.5-5.6 DX Nikkor VR lens

For Nikonians who want a hinged and tilting LCD, the D5000 is the only option. Plus you get video, 4-fps burst shooting, speedy AF, and sensitivity out to ISO 6400.

STANDOUT SPEC The price—it offers (almost) everything the D90 has but costs a bit less.



SENSOR 12.3MP CMOS, 12-bit RAW capture
IMAGE STABILIZATION Lens-based
VIDEO RES/FRAME RATE 720p/24 fps
LCD 2.7-in., 230,000-dot

OLYMPUS E-5

★★★★★
AMATEUR PRO

\$1,700, street, body only

With class-leading weather-sealing, extremely fast AF in bright light, and impressive noise control, the E-5 offers an exciting alternative to competing models. Add wireless flash control and Oly's stunning lenses to the mix, and you've got one heck of a go-anywhere shooting machine.

STANDOUT SPEC That extensive weathersealing and super-tough magnesium-



alloy body construction.
SENSOR 12.3MP LiveMOS, 12-bit RAW capture
IMAGE STABILIZATION 3 stops
VIDEO RES/FRAME RATE 720p/30fps
LCD 3-in., 920,000-dot

OLYMPUS E-30

★★★★★
AMATEUR PRO

\$780, street, body only

This less-expensive companion to the pro-grade Olympus E-5 boasts equal megapixels, an impressive for its class 5-fps burst rate, comparable handling, and an assortment of fun filters—pop art, anyone?

STANDOUT SPEC The fully-articulating LCD screen makes live view much more useful while also protecting



the screen from harm if you turn it inward.
SENSOR 12.3MP LiveMOS, 12-bit RAW capture
IMAGE STABILIZATION 2.5–3 stops
VIDEO None
LCD 2.7-in., 230,000-dot

OLYMPUS E-620

★★★★★
AMATEUR PRO

\$550, street, with 14-42mm f/3.5-5.6 Zuiko Digital lens

For arty amateurs, the E-620 offers the still-new seeming Art Filters, special effects that invite experimentation. Plus: its small, light build, and body-based, sensor-shift IS.

STANDOUT SPEC A super-articulated swiveling/



tilting LCD monitor.
SENSOR 12.3MP LiveMOS, 12-bit RAW capture
IMAGE STABILIZATION 2 stops
VIDEO None
LCD 2.7-in., 230,000-dot

PENTAX K-7

★★★★★
AMATEUR PRO

\$870, street, body only

Built like a tank, Pentax's flagship DSLR has a well-designed body and records pleasing video, but its image quality and AF speed fall short of similarly-priced competitors.

STANDOUT SPEC 77 weather seals let you shoot in 14°F temperatures.
SENSOR 14.6MP CMOS, 12-bit RAW capture



IMAGE STABILIZATION 2.5–3 stops
VIDEO RES/FRAME RATE 1536x1024/30 fps, 720p/30 fps
LCD 3-in., 921,000-dot

PENTAX K-X

★★★★★
AMATEUR PRO

\$500, street, with 18-55mm f/3.5-5.6 Pentax DA lens

The latest in a long line of Pentax starter SLRs stacks up very well against its competitors, with 11-point AF, HD video, and ISO 12,800.

STANDOUT SPEC That burst rate of 4.7 fps is highest in this class.
SENSOR 12.4MP CMOS, 12-



bit RAW capture
IMAGE STABILIZATION 1.5 stops
VIDEO RES/FRAME RATE 720p/24 fps
LCD 2.7-in., 230,000-dot

SONY ALPHA 33

★★★★★
AMATEUR PRO

\$750, street, with 18-55mm f/3.5-5.6 Sony DT SAM lens

Little sister to the A55, the A33 uses the same semi-transparent mirror for continuous AF during video capture, as well as a 6-fps burst rate and super-fast AF. Its imaging proved noisier than the A55's in our tests, though.

STANDOUT SPEC Fast AF, even in video, with tracking.



SENSOR 14.2MP CMOS, 12-bit RAW capture
IMAGE STABILIZATION 2.5 stops
VIDEO RES/FRAME RATE 1080p/30 fps
LCD 3-in., 921,600-dot

SONY ALPHA 55

★★★★★ 1/2
AMATEUR PRO

\$850, with 18-55mm f/3.5-5.6 Sony DT SAM lens

Thanks to its semi-transparent mirror, the A55 can autofocus continuously while capturing video at up to 1920x1080, 30 fps. It also has the fastest burst speed for its price range, and extremely fast AF, for the best DSLR live view yet.

STANDOUT SPEC That fast AF and the 10 fps burst rate.



SENSOR 16.2MP CMOS, 12-bit RAW capture
IMAGE STABILIZATION 2.5 stops
VIDEO RES/FRAME RATE 1080p/30 fps
LCD 3-in., 921,600-dot

SONY ALPHA 390

★★★★★
AMATEUR PRO

\$600, street, with 18-55mm f/3.5-5.6 Sony DT SAM lens

Update of the Alpha 380 gets a new improved grip, keeps the same sensor and the made-for-beginners display interface. And again, it's a top bargain in starter DSLRs.

STANDOUT SPEC Live view that works without delay in AF or firing. But it shows less



than 100% of the scene.
SENSOR 14.2MP CCD, 12-bit RAW capture
IMAGE STABILIZATION 2.5–3 stops
VIDEO None
LCD 2.7-in., 230,400-dot

SONY ALPHA 550

★★★★★
AMATEUR PRO

\$700, street, body only

The best live-view experience in DSLRs just got better with the addition of 100% accuracy view from the imaging sensor plus the no-delay version using a separate sensor. Speedy 7-fps burst capture and in-the-camera HDR, too, but still a bit expensive considering there's no video.

STANDOUT SPEC Live view



without tears.
SENSOR 14.2MP CMOS, 12-bit RAW capture
IMAGE STABILIZATION 2–3 stops
VIDEO None
LCD 3-in., 921,600-dot

SONY ALPHA 850

★★★★★
AMATEUR PRO

\$2,000, street, body only

Minor change of the A900 drops viewfinder accuracy to 98%, slows burst rate to 3 fps, and forgoes a wireless remote control. It kept the impressive image quality, top ergonomics, and superfast AF, though—so much so that it achieved an equal rating to the A900.

STANDOUT SPEC The most full-frame bang for the buck



you can get today.
SENSOR 24.6MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION 2–2.5 stops
VIDEO None
LCD 3-in., 921,600-dot

SONY ALPHA 900

★★★★★
AMATEUR PRO

\$2,700, street, body only

Sony's blockbuster full-framer puts up top resolution numbers at ISO 100 but has some catchup to do in noise and color accuracy. Speedy AF and great ergonomics almost make us forget that it doesn't have live view or pop-up flash.

STANDOUT SPEC That big, bright viewfinder makes you



realize why you prefer SLRs.
SENSOR 24.6MP CMOS, 14-bit RAW capture
IMAGE STABILIZATION 2–2.5 stops
VIDEO None
LCD 3-in., 921,600-dot

Canon Nikon SONY Panasonic FUJIFILM HENSEL Mamiya Lexar hp Profoto EPSON

CLICK BY IT SHIPS.

bogen CELESTRON Adobe elinchrom ASUS DOMKE VIZIO LACIE Profoto LG



FREE SAME DAY SHIPPING

ON ORDERS PLACED BEFORE 6:00 PM EST MON-THU

FRIDAY BEFORE 1:00 PM EST

ON ALL IN-STOCK ITEMS

ADORAMA
THE PHOTOGRAPHY PEOPLE



ADORAMA.COM

42 W 18TH ST NY, NY 10011
800.223.2500



FREE SHIPPING
ON THOUSANDS OF ITEMS



30-DAY
MONEY BACK
GUARANTEE

Orders are subject to verification prior to completing the order. For your protection from credit card fraud or identity theft, we may ask you to verify that you're the card owner or that the order and ship-to information are legitimate. If your order requires verification you will receive an e-mail within one business day to confirm the information.

THE GUIDE * WIDE TO TELEPHOTO NON-KIT ZOOMS

CANON EF-S 17-55MM F/2.8 IS USM

★★★★★ **APS-C**
AMATEUR PRO

\$1,060, street, with hood Its solid construction, aspheric elements, and UD glass suggest that if this were full-frame, it would rate L-series status. Performance should be perfect for those photographers who like to work low ambient light.

STANDOUT SPEC SQF tests



found excellent sharpness. **MOUNTS** Canon EF-S **WEIGHT** 1.3 pounds **LENGTH** 4.3–5.4 inches **FILTER SIZE** 77mm **STABILIZATION** 1–3 stops

CANON EF 24-70MM F/2.8L USM

★★★★★ **FULL-FRAME**
AMATEUR PRO

\$1,350, street, with hood and case This L-series zoom has seals and gaskets galore against dust and moisture. Our tests found super-sharp optics, but with relatively high distortion numbers by current standards.

STANDOUT SPEC Sharp-



ness throughout the focal range, even at its widest. **MOUNTS** Canon EF **WEIGHT** 2.0 pounds **LENGTH** 4.9–6.1 inches **FILTER SIZE** 77mm **STABILIZATION** No

NIKON AF-S DX VR ZOOM-NIKKOR 16-85MM F/3.5-5.6G ED

★★★★★ **APS-C**
AMATEUR PRO

\$620, street, with hood and case Looking for something more challenging than your 18–55mm kit lens? This lens gives you VR, more wide-angle and more tele reach, but at a price significantly less than a pro-grade optic. **STANDOUT SPEC** Pretty good shake control, although the



latest VR Nikkors do better. **MOUNTS** Nikon AF-S **WEIGHT** 1.2 pounds **LENGTH** 3.4–5.1 inches **FILTER SIZE** 67mm **STABILIZATION** 2–2.5 stops

NIKON AF-S DX ZOOM-NIKKOR 17-55MM F/2.8G ED

★★★★★ 1/2 **APS-C**
AMATEUR PRO

\$1,360, street, with hood and case This fast constant-aperture wide zoom, a 25.5–82.5mm equivalent, mimics the full-frame pro lenses of yore but with vastly improved control of distortion and light falloff. **STANDOUT SPEC** Slight tested distortion through the range,



incredible for wide-angle zooms. **MOUNTS** Nikon AF-S **WEIGHT** 1.7 pounds **LENGTH** 4.4 inches **FILTER SIZE** 77mm **STABILIZATION** No

NIKON AF-S ZOOM-NIKKOR 24-70MM F/2.8G ED

★★★★★ **FULL-FRAME**
AMATEUR PRO

\$1,720, street, with hood and case Pro-grade dust and moisture resistance, fast f/2.8 aperture, and the latest optics put this lens near the top of Nikon's lineup. The large, gold "N" on its barrel indicates Nano Crystal Coat for reduced flare and ghosting.



STANDOUT SPEC Construction. Built to last a career. **MOUNTS** Nikon AF-S **WEIGHT** 2.0 pounds **LENGTH** 5.3–6.05 inches **FILTER SIZE** 77mm **STABILIZATION** No

OLYMPUS ZUIKO DIGITAL 14-35MM F/2.0 ED SWD

★★★★★ 1/2 **FOUR THIRDS**
AMATEUR PRO

\$2,300, street, with hood and case This lens certainly lives up to high Zuiko standards: Excellent-range sharpness and contrast, and nearly perfect distortion and vignetting control. Standard high Zuiko price, too. **STANDOUT SPEC** Fast constant f/2 speed for a standard range



zoom lens—the brightest optic in this class, in fact. **MOUNTS** Four Thirds **WEIGHT** 2.05 lbs **LENGTH** 4.8–5.4 inches **FILTER SIZE** 77mm **STABILIZATION** In the camera

PANASONIC LEICA D VARIO-ELMAR 14-50MM F/3.8-5.6

★★★★★ 1/2 **FOUR THIRDS**
AMATEUR PRO

\$700, street, with hood and case Smaller and lighter than the 14–50mm f/2.8–3.5, with nearly identical test results. Its magnification at 50mm (1.4.75) trumped that of the more expensive lens (1.5.4).

STANDOUT SPEC Price. \$700



for a lens with the name Leica on it amounts to a steal. Sort of. **MOUNTS** Four Thirds **WEIGHT** 1.0 pound **LENGTH** 3.7–4.8 inches **FILTER SIZE** 67mm **STABILIZATION** 1.5 stops

PENTAX 16-50MM F/2.8 DA* SDM

★★★★★ 1/2 **APS-C**
AMATEUR PRO

\$1,030, street, with hood and case A DA* lens, the 16–50mm is pro-level and fast, with extra weather and dust resistance. The SDM system provides for smoother and quieter AF. SQF tested Excellent at all focal lengths.

STANDOUT SPEC Last-



forever build, superior construction. **MOUNTS** Pentax KAF2 **WEIGHT** 1.3 pounds **LENGTH** 3.85–5.3 inches **FILTER SIZE** 77mm **STABILIZATION** In the camera

PENTAX 17-70MM F/4 DA AL SDM

★★★★★ 1/2 **APS-C**
AMATEUR PRO

\$480, street, with hood Its zoom range covers wide to moderate tele, and its constant f/4 aperture is sort of fast. But optical performance at the 35mm focal length is excellent, with no vignetting at all. **STANDOUT SPEC** Useful focal-length range. You can shoot



scenery, interiors, portraits, and snapshots. **MOUNTS** Pentax KAF3 **WEIGHT** 1.1 pounds **LENGTH** 3.7–5.4 inches **FILTER SIZE** 67mm **STABILIZATION** In the camera

SIGMA 17-50MM F/2.8 EX DC OS HSM

★★★★★ **APS-C**
AMATEUR PRO

\$670, street, with hood Distortion control, edge falloff, and close-up performance were first class, as were cosmetics with matte-black finish and gold accents. Stabilization, more like third class. **STANDOUT SPEC** Petite



lens is a feather. **MOUNTS** Canon, Nikon, Pentax, Sigma, Sony AF **WEIGHT** 1.3 pounds **LENGTH** 3.6–4.6 inches **FILTER SIZE** 77mm **STABILIZATION** 1–2.5 stops

SIGMA 17-70MM F/2.8-4 DC OS MACRO HSM

★★★★★ 1/2 **APS-C**
AMATEUR PRO

\$450, street, with hood An everyday utility zoom, with image stabilization, and 1:2.2 magnification for close-ups, it weighs less than most f/2.8 lenses. **STANDOUT SPEC** Image stabilization: Our test showed up to 4 extra stops of



handholdability. **MOUNTS** Canon, Nikon, Pentax, Sigma, Sony AF **WEIGHT** 1.25 pounds **LENGTH** 3.5–5.15 inches **FILTER SIZE** 72mm **STABILIZATION** 2–4 stops

SIGMA 18-50MM F/2.8 EX DC MACRO

★★★★★ 1/2 **APS-C**
AMATEUR PRO

\$420, street, with hood and case With close-focusing to 7.25 inches and magnification at 1:2.6, it's perfect for tabletop shooters. Our tests found it optically superior to some pricier glass. **STANDOUT SPEC** Distortion control. Visible at 18mm, but



Imperceptible at 28mm and 50mm focal lengths. **MOUNTS** Canon, Nikon, Four Thirds, Pentax, Sigma, Sony **WEIGHT** 1.1 pounds **LENGTH** 3.4–4.4 inches **FILTER SIZE** 72mm **STABILIZATION** No

SIGMA 24-70MM F/2.8 EX DG HSM

★★★★★ **FULL-FRAME**
AMATEUR PRO

\$900, street, with hood and case One of Sigma's top-tier EX-series pro lenses, this fast, solid-feeling zoom offers rapid, near-silent AF, excellent sharpness and contrast, and superior distortion control. **STANDOUT SPEC** That weight. Though hefty, for this class this



lens is a feather. **MOUNTS** Canon, Nikon, Pentax, Sigma, Sony **WEIGHT** 1.8 pounds **LENGTH** 3.7–4.8 inches **FILTER SIZE** 82mm **STABILIZATION** No

SONY ZEISS 24-70MM F/2.8 VARIO-SONAR T* ZA SSM

★★★★★ 1/2 **FULL-FRAME**
AMATEUR PRO

\$1,600, street, with hood and case A 36–105mm equivalent on most Alphas, this pro-quality zoom of Zeiss design delivers superior sharpness, extremely well-controlled distortion, virtually no edge falloff, nice magnification, and a



very solid build. **STANDOUT SPEC** That weight. Ugh! **MOUNTS** Sony AF **WEIGHT** 2.2 pounds **LENGTH** 4.3–5.6 inches **FILTER SIZE** 77mm **STABILIZATION** In the camera

TAMRON 17-50MM F/2.8 XR DI II VC

★★★★★ **APS-C**
AMATEUR PRO

\$650, street, with hood Rated in the 90th percentile across the aperture range on our SQF charts at 11x14—Excellent. Distortion and vignetting very well controlled. **STANDOUT SPEC** Stabilization, once rare for a wide angle zoom, now trendy.



MOUNTS Canon EF, Nikon AF-S **WEIGHT** 1.3 pound **LENGTH** 3.75–4.9 inches **FILTER SIZE** 72mm **STABILIZATION** 2 stops

TAMRON 28-75MM F/2.8 XR Di

★★★★★ **FULL-FRAME**
AMATEUR PRO

\$500, street, with hood This oldie but goodie is very sharp, although tested distortion control is relatively weak by today's standards. Close-up performance (1:3.7) and vignetting (falloff gone by f/4) are undeniable perks. **STANDOUT SPEC** The price.



Few f/2.8 zooms are as financially alluring. **MOUNTS** Canon, Nikon, Pentax, Sony **WEIGHT** 1.2 pounds **LENGTH** 3.7–5.0 inches **FILTER SIZE** 67mm **STABILIZATION** No

TAMRON AF 28-80MM F/3.5-5.6

★★★★★ **FULL-FRAME**
AMATEUR PRO

\$70, street, with hood Despite its plastic barrel and lens mount, given its price, the lens remains attractive. Also nice? Excellent SQF numbers at most apertures and focal lengths. A cheap-skate's dream come true. **STANDOUT SPEC** Wow, what a



price! And it has very well-controlled edge falloff. **MOUNTS** Canon, Nikon, Sony **WEIGHT** 0.6 pound **LENGTH** 2.8–3.2 inches **FILTER SIZE** 58mm **STABILIZATION** No

TOKINA AT-X 16.5-135MM F/3.5-5.6 DX AF

★★★★★ **APS-C**
AMATEUR PRO

\$450, street, with hood Very useful 8x zoom range for most shooting: scenes, travel, portraits, interiors and many more. Slightly above average optics. **STANDOUT SPEC** Distortion numbers better than



competitors. **MOUNTS** Canon, Nikon **WEIGHT** 1.4 pounds **LENGTH** 3.2–5.2 inches **FILTER SIZE** 77mm **STABILIZATION** No

ABE'S of MAINE

CELEBRATING 30 YEARS

Cameras & Electronics **Since 1979**

CALL TOLL FREE: 1-800-227-0400

- Order online 7 days a week
- Worldwide Shipping
- All major credit cards accepted
- 30 Day Money Back Guarantee*



We have thousands of products at deeply discounted prices! Over 30 years of quality merchandise and quality service makes Abe's of Maine the right choice for your electronic needs.



Nikon D3100
w/18-55mm VR Kit
New!



Canon EOS Rebel T2i
w/18-55 IS Kit
New Low Price!



Panasonic DMZ-FZ100
14 MP Digital Camera
24X Optical Zoom
In Stock!



Pentax X90
12 MP Digital Camera
In Stock!



Sony DSC-HX5V/B
10.2 MP Digital Camera
In Stock!



Canon XH-A1S
Professional Camcorder
In Stock!



Canon Vixia HF-S21 64
GB HD Camcorder
In Stock!



Sony HDR-CX550V HD
240 GB Camcorder
New Low Price!



Panasonic HDC-TM700
32 GB HD Camcorder
In Stock!



JVC GZ-HD500
80 GB HD Camcorder
In Stock!



Samsung
LN-55C65055 1080P
LCD Television
In Stock!



Samsung
UN-LN40C5000 40"
LED Television
In Stock!



Samsung
LN-32C6500 32" LED
Television
In Stock!



Samsung
PN-58C550 58"
Plasma Television
In Stock!



Sharp
UN-55C8000 55"
LED Television
In Stock!

Audio

Categories	Brands
Receivers	Sony
Speakers	Denon
Home Theatre Systems	Yamaha
DVD Players	Samsung
HD Radio	Boston Acoustics

Car Electronics

Categories	Brands
Receivers	Pioneer
Video	Panasonic
Radar	Sony
Detectors	JVC
CD Changers	Jensen
Amplifiers	

Projectors

Brands	
Optoma	Sanyo
Mitsubishi	Casio
NEC	Hitachi
BenQ	Canon
Epson	Sharp

GPS

Brands	
Garmin	Pioneer
Magellan	Atlantis
TomTom	Whistler
Goodyear	
Clarion	

Laptops

Brands	
Acer	HP
Samsung	Lenovo
Toshiba	

DJ Equipment

Categories	Brands
Mixers	Rane
Amplifiers	Pioneer
Systems	Stanton
Speakers	Numark
CD/DVD Players	Nady

Large Appliances

Categories	Brands
Refrigerators	LG
Washers/	Bosch
Dryers	GE
Dishwashers	Frigidaire
Ranges	Whirlpool
Microwaves	

Small Appliances

Categories	Brands
Coffee Makers	Cuisinart
Mixers	Waring Pro
Knives	J.A. Henckels
Blenders	Kitchen-Aid
Juicers	Nesco

Fitness Equipment

Categories	Brands
Treadmills	Bowflex
Bikes	Proform
Gyms	Horizon
Free Weights	LifeSpan
Elliptical	Evo

Musical Instruments

Categories	Brands
Guitars	Dean
Drums	Daisy Rock
Keyboards	Halo
	M-Audio
	ION



Please visit our website for product information

www.abesofmaine.com

*Some exclusions apply



POPULAR PHOTOGRAPHY GIFT GUIDE

Canon



Canon EOS 7D

The Canon EOS 7D is the first to combine an all-new 18 Megapixel APS-C size CMOS sensor, 8 fps shooting, Dual DIGIC 4 Image Processor, and 1080p Full HD video. Inspired. By Canon.

www.usa.canon.com/eos



1&1

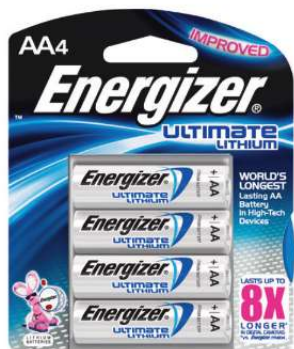
Unique, affordable, and cool!

1&1's user-friendly website packages make it easy for anyone to create a custom website—no programming skills required. All web hosting packages include FREE website-building tools, blog, and photo gallery.

Starting at \$3.99/month

www.1and1.com

1-877-GO-1AND1



Energizer
ULTIMATE
LITHIUM

Energizer® Ultimate Lithium Batteries

For the countless electronic gadgets that you can't live without, get the latest lithium battery technology that's proven to be the world's longest lasting AA and AAA batteries in high-tech devices.

www.energizer.com

© 2010 Energizer. Energizer and other marks are trademarks of Energizer.



HoodMAC

Sun shade for MacBooks

Glare free outdoor viewing for 13 to 17 inch Macbooks. Folds flat for easy transport. HoodPC also available.

hoodmanusa.com

800-818-3946

TAMRON



Tamron SP 70-300mm Di VC USD Lens

Tamron's SP 70-300mm Di VC USD uses XLD (Extra Low Dispersion) Glass to provide sharper contrast and higher resolution than all others in its class. Its USD (Ultrasonic Silent Drive) motor for fast and quiet focusing, and VC (Vibration Compensation) system for blur-free hand-held photography round out this new best-in-class tele zoom.

www.tamron-usa.com

Toll Free 1-800-827-8880

Water.org helps one billion people worldwide who lack access to clean water. Purchase a limited edition Camelbak water bottle and 100% of profits go to this innovative charity. Visit gift.Water.org.

BPA free plastic (\$18.99)
Insulated Stainless Steel (\$24.99)

www.gift.Water.org



BOSE
Better sound through research®



Quieter than ever before.

The QuietComfort® 15 Acoustic Noise Cancelling® headphones are the best – and quietest – headphones from Bose. They make music and movies more enjoyable. Order now for free shipping, a 30-day risk-free trial and easy payments.

www.Bose.com/QC

1-800-430-2673, Ext. Q8140



Look for this symbol and link directly to these product websites on your mobile phone with the help of Microsoft tag. Download the FREE Tag Reader at <http://gettag.mobi> and start scanning now!



Audioengine

Audioengine's innovative award-winning active speakers and wireless products are designed for all your music. Enter coupon code HGGTEN for 10% off. Free shipping and no tax. Shown: A5N Premium Powered Speakers in Solid Carbonized Bamboo

audioengineusa.com

support@audioengineusa.com



Make this Holiday season the most memorable ever, without breaking the bank! Create your Custom Cover Books, Standouts, Puzzles, Statuettes and more with 24-hour turnaround and exceptional quality at Mpix.

www.mpix.com



RigidCase Camera Holster System for Digital SLR Cameras

Lightweight holster system protects your Nikon, Canon or other DSLR camera. System includes camera holster with detachable lid, 4-way shoulder strap, lens case, filter wallet, accessory (battery) pouch and more. Visit www.cameraholster.com for short video and more details.

www.cameraholster.com

970-577-0892



At the heart of the image.

Redefining the Passionate Shooter's D-SLR.

The Nikon D7000, Offers Stunning Image Quality with a 16.2 Megapixel CMOS DX Format Sensor, Astonishing Low Noise Range of 100-6,400, 6 FPS Shooting, 39-Point AF System and 1080p HF Movie with Full Time Autofocus.

www.Nikonusa.com/D7000



The FUJIFILM FinePix REAL 3D W3 Digital Camera

puts 3D in the palm of your hand. Capture 3D digital images and movies in high definition with more depth and clarity than you ever imagined.



10 MP / 3X OPTICAL ZOOM / 3.5" 3D LCD

www.EveryPictureMatters.com/W3

1-866-289-3854



Better sound through research®

The Lifestyle® V35 home entertainment system delivers vivid, theater-like surround sound that brings movies, sports, video games and music to life. And it's designed to let you enjoy that experience more easily than ever before.



Bose.com/Lifestyle

1-800-905-1351



Introducing the new VTF-15H Hybrid True Subwoofer featuring a 15" driver, 1400w short-term power, patent-pending triangular port technology, cutting-edge industrial design, and support for five operating modes

www.hsuresearch.com

1-800-554-0150

POPULAR PHOTOGRAPHY GIFT GUIDE



Verizon introduces the Samsung Galaxy Tab™, Samsung Continuum™, And Samsung Fascinate™. With their high-res screens and Samsung Social Hub, your friends and entertainment are finally as mobile as you are. The best gifts need the best network. Verizon.
www.verizonwireless.com/samsung



Bulb Direct, Inc.

Replacement Specialty Bulbs

Bulb Direct, Inc, Your #1 source for replacement light bulbs for all your equipment needs. We have name brand quality like GE, Osram Sylvania and Philips; with competitive pricing, excellent customer service and an unbeatable delivery policy. Get Green with Us and save energy costs with our compact fluorescent bulbs and new LED lighting.

For a free catalog
www.bulbdirect.com



800-772-5267



Help your car or truck enthusiast research and repair their favorite vehicle by giving Haynes, Chilton, or the original factory service manuals. Find repair manuals and owners manuals in print and on disc under Literature at RockAuto.com. Don't know which manual they need? Then give a RockAuto gift certificate so your enthusiast can have fun shopping the huge selection of parts, tools and more available for their vehicle at RockAuto.com.
www.RockAuto.com



dyson

Dyson DC25 All Floors is an upright Dyson Ball™ vacuum for every floor type. Rides on a ball for greater maneuverability and no loss of suction

www.dyson.com/store/hmc.asp

1-866-MY-DYSON



EXERCISE IN EXACTLY 4 MINUTES PER DAY
Utilizing the science of high intensity interval training, the \$14,615. sculptured steel and chrome Quickgym offers a complete upper and lower body exercise in just 4 minutes. Perfect for home or office. Call for FREE DVD.
quickgym.com 818-504-6450



TQ TQ Digital Entertainment

Free Gifts this Holiday!
Place your free order at,
<http://free.91.com>

Zero Online

This Holiday Zero Online is Free! You can play with anyone from anywhere in the world in this Sci-Fi based MMORPG. Just go to our site to place your order, or gift an order to a friend.

<http://free.91.com>

909-612-1681



GelPro® Liquid Gel Percussion Massager

The Liquid Gel Percussion Massager is scientifically engineered to stimulate healthy circulation. From a gentle neck rub to a deep tissue massage, you are guaranteed the most thorough relaxation possible. Choose from 10 power levels and 10 different massaging modes. Order yours today!
www.gelpromassage.com

1-866-435-6287





Look for this symbol and link directly to these product websites on your mobile phone with the help of Microsoft tag. Download the FREE Tag Reader at <http://gettag.mobi> and start scanning now!



Cool gift alert! Engrave and cut nearly any material with a Zing Laser from Epilog – works with wood, acrylic, glass & more. Professional laser engraving/cutting equipment starts at \$7,995. Design, create and innovate with Epilog!

www.epiloglaser.com/gift.htm

888-437-4564



Move as millions. Survive as one.

Great Migrations is the official companion book to the National Geographic Channel global television event. Available wherever books are sold.

www.natgeotv.com/migrations



Sponsors of Tomorrow.™

The next big thing to change TV is here. Smart TV puts you in control. It's a smarter way to bring together and personalize all the things you love about TV and the Internet.

intel.com/smartTV



SoundDock® Portable digital music system

Compare it to any other sound system for the iPod® and iPhone®, portable or not. Bose® technologies and rechargeable lithium-ion battery provide hours of music. To order, call 800-277-4901.

Bose.com/SoundDock

iPod not included



Skeet Shooter

The new rapid indoor/outdoor target shooting game from Interactive Toy Concepts. Load the skeet, activate the launcher and blast away as the skeet go airborne. A direct hit will break the skeet apart.

www.interactivetoy.com



New York Institute of Photography



NYIP's Fundamentals of Digital Photography Course

is the perfect introductory course for anyone with an interest in photography. Study at home and learn to take professional-quality photos with your digital camera.

www.nyip.com/pp

1-800-445-7279

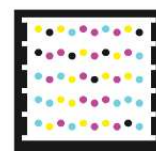


Michael Freeman Digital Photography Reference System

The perfect and unique gift for any new photographer! A full photography education, with four books, two handy pocket guides and interactive DVD of tutorials, all contained in this handy silver case. Available at fine bookstores everywhere, your preferred online retailer, via www.focalpress.com/michaelfreeman or through the tag on the right.

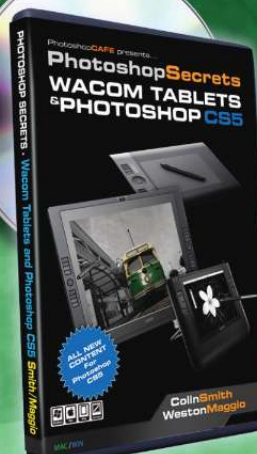
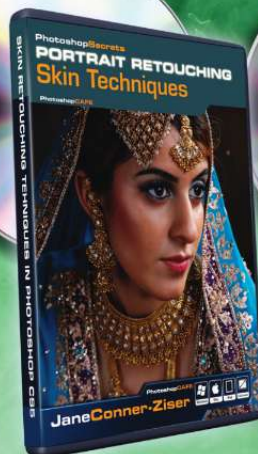
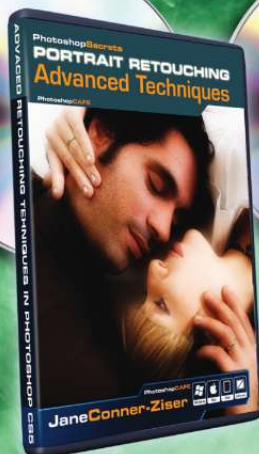
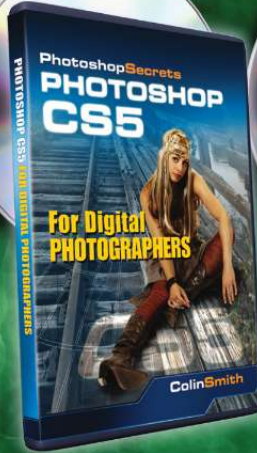
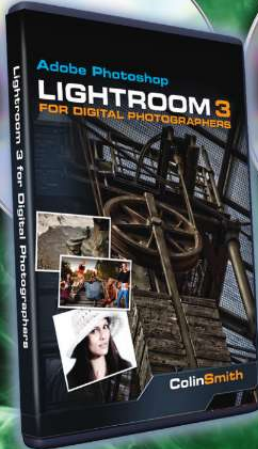
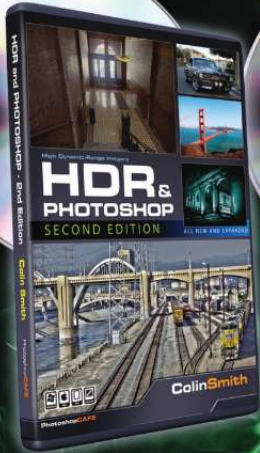
www.focalpress.com/michaelfreeman

800-545-2522



The **GIFT** THAT KEEPS ON GIVING

Coming to a computer or iPad near you



GET the DISK or DOWNLOAD (Not a subscription, your's forever)

PhotoshopCAFE
THE ULTIMATE IN PHOTOSHOP TRAINING

Save 10% use code POP1210
www.PhotoshopCAFE.com/video



U.S. GOV'T GOLD AT-COST

TODAY - The United States Rare Coin & Bullion Reserve has scheduled the final release of U.S. Gov't Issued \$5 Gold Coins previously held at the U.S. Mint at West Point. Please be advised: These Gov't Issued Gold Coins are being released on a first-come, first-serve basis and our U.S. Gov't Gold inventory priced at \$154.27 per coin could very possibly sell out! Call immediately to avoid disappointment. This "at-cost" Gov't Gold offer could be cancelled at any time. Do not delay. Call a Sr. Gold Specialist today.

OWN GOV'T ISSUED GOLD COINS

DUE TO STRICT LIMITED AVAILABILITY, TELEPHONE ORDERS WILL BE ACCEPTED ON A FIRST-COME, FIRST-SERVE BASIS ACCORDING TO THE TIME AND DATE OF THE ORDER.

Markup-Free Price of ONLY

\$154²⁷ EACH



If you've been waiting to move your hard-earned money into precious metals, the time is now to consider transferring your U.S. dollars into United

States Government Gold. The Gold market is on the move, up more than 350% over the past 10 years - outpacing the DOW, NASDAQ and S&P 500. Call immediately to order your United States Gold Coins direct from our Main Vault Facility, "at-cost", for the amazing price of only \$154.27 per coin. Special arrangements can be made for Gold purchases over \$50,000. Order your Gold today!

1 - Gov't Issued Gold Coin	\$ 154.27
5 - Gov't Issued Gold Coins	\$ 771.35
10 - Gov't Issued Gold Coins	\$ 1,542.70

DUE TO EXTREMELY HIGH GOLD DEMAND, GOLD COIN PRICES COULD CHANGE BASED ON OUR CURRENT VAULT INVENTORY! AT-COST OFFER LIMITED TO PURCHASES OF 10 COINS (\$1,542.70) PER HOUSEHOLD PLUS SHIPPING & INSURANCE.

CALL TOLL FREE (24 Hours A Day, 7 Days A Week)

1-877-494-9931

MASTERCARD • VISA • AMEX • DISCOVER • CHECK

UNITED STATES
RARE COIN & BULLION RESERVE
Distributor of Government Gold. Not affiliated with the U.S. Government.

Vault No. PP1-15427

Coins enlarged to show detail.

gravity defyer™

VERSOSHOCK TRAMPOLINE FOOTWEAR

SHOES ON STEROIDS?



Scientifically Engineered to Defy Pain, Defy Aging & Defy Fatigue

This is my story

I used to be more active. I used to run, play basketball, tennis, football... I was more than a weekend warrior. I woke up every day filled with life! But now, in my late 30's, I spend most of my day in the office or sacked out in front of the TV. I rarely get to the gym—not that I don't like working out, it's the nagging pain in my knees and ankles. Low energy and laziness has got me down. My energy has fizzled and I'm embarrassed to admit that I've grown a spare tire (I'm sure its hurting my love life). Nowadays I rarely walk. For some reason it's just harder now. Gravity has done a job on me.

Excitement swept through my body like a drug

I received my package from GravityDefyer.com and rushed to tear it open like a kid at Christmas. Inside I found the most amazing shoes I had ever seen—different than most running shoes. Sturdy construction. Cool colors. Nice lines... I was holding a miracle of technology. This was the real thing.

I put them on and all I could say was, "WOW!" In minutes I was out the door. I was invincible; tireless in my new Gravity Defyer shoes. It was as if my legs had been replaced with super-powered bionics. What the doctor promised was all correct. No more knee pain. I started to lose weight. At last, I was pain free and filled with energy! I was back in the game. Gravity had no power over me!

Customer Satisfaction Speaks for Itself!

4 out of 5 customers purchase a 2nd pair within 3 months.

Nothing to lose: 30 Day Free Trial*

So, my friend, get back on your feet like I did. Try Gravity Defyer for yourself. You have nothing to lose but your pain.

Tell us your story! Login at Gravitydefyer.com and share your experience.



ABSORB SHOCK
Eliminate pain from every step.



REBOUND PROPELS YOU FORWARD
Reduce fatigue. Be more active

GDefy Benefits

- Relieve pain
- Ease joint & spinal pressure
- Reduce fatigue & tiredness
- Be more active
- Have more energy
- Appear taller
- Jump higher, walk and run faster
- Have instant comfort
- Cool your feet & reduce foot odor
- Elevate your performance



Wear them and you'll know

That's what my doctor recommended. He said, "Gravity Defyer shoes are pain-relieving shoes." He promised they would change my life—like they were a fountain of youth. "They ease the force of gravity, relieving stress on your heels, ankles, knees and back. They boost your energy by propelling you forward." The longer he talked, the more sense it made. He was even wearing a pair himself!



a \$129.95 value

MEN (Shown above)

TB902MWBS

sizes 7 - 13

Med/Wide and ExtraWide/XXWide Widths

WOMEN (Silver with Navy)

TB902FWBS

sizes 5 - 11

Med/Wide and ExtraWide/XXWide Widths



EXCLUSIVE ONLINE OFFER

FREE 30 DAY RISK-FREE trial*. Not available in stores.

Visit ShoesOnSteroids.com/MR3MBB8 or take advantage of this exclusive offer by phone, and dial **(800) 429-0039** and mention the promotional code below.

Promotional Code: **MR3MBB8**

*Pay only \$15 shipping and handling – non-refundable.

NEW VERSION. MORE IMMERSION.



INTRODUCING TOTALE.™ Our Proven Solution. Enriched.

Discover Rosetta Stone's award-winning solution, now with an entirely new online experience that fully immerses you in language as never before.

- Learn naturally using our unique software, complete with proprietary speech-recognition technology.
- Converse confidently through live practice sessions tutored by native speakers.
- Communicate and connect with others as you play games in our exclusive online community.

The Gift That
Speaks Volumes.

SAVE UP TO \$150

YOUR PRICE

Level 1	\$40 OFF	\$249	\$209
Level 1, 2, & 3	\$100 OFF	\$579	\$479
Level 1, 2, 3, 4, & 5	\$150 OFF	\$749	\$599

SIX MONTH, NO-RISK, MONEY-BACK GUARANTEE*

Buy Rosetta Stone today:
(877) 370-0676 RosettaStone.com/pfs120

Use promo code pfs120 when ordering.

†Special Promotional Offer available from Nov. 23, 2010 to Jan. 04, 2011.

RosettaStone 

©2010 Rosetta Stone Ltd. All rights reserved. Offer applies to Rosetta Stone Version 4 TOTALE™ CD-ROM products purchased directly from Rosetta Stone; offer does not apply to any additional subscriptions or subscription renewals and cannot be combined with any other offer. Prices subject to change without notice. Certain product components require online access and are offered on a subscription basis for a specified term. †Special Promotional Offer period runs from November 23, 2010 to January 04, 2011; at other times, purchasers receive a 10% discount off the purchase price through March 31, 2011 while quantities last. *Six-Month No-Risk Money Back Guarantee is limited to product purchases made directly from Rosetta Stone and does not include return shipping. Guarantee does not apply to any online subscriptions purchased separately from the CD-ROM product or subscription renewal.



Supersize.

\$2 For an 18" x 24" Poster

Perceived value would lead us to believe you just can't get great quality posters for \$2 each with no minimum quantity. We bet your clients feel the same way. Join the 1000's of our customers who resell their printed posters, creating new revenue streams.

Try us out - get your first poster free* with this coupon code: popdec

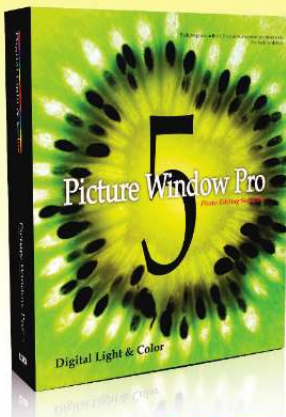


*Coupon valid for one Standard Poster only - does not include shipping charges.

Discover Picture Window Pro

"packs an incredible number of tools into a surprisingly inexpensive piece of software."

— Debbie Grossman, *Popular Photography*



Picture Window Pro is a full featured image editor with advanced functions like a powerful raw converter, HDR, lens corrections, and full color management. It handles 16/48 bit images throughout. A History function remembers your adjustments and lets you redo any step in your workflow. So give it a test drive and download your free 30 day trial.

Digital Light & Color

www.dl-c.com

Leather Case



For Your iPad



Made in U.S.A.

Phone: 970 - 577 - 0892

www.skytoptrading.com

Perfect Posters.com

Your Headquarters for
LARGE DIGITAL PRINTS

Dye Glossy, Satin, Matte \$3.75/sq ft
Archival Pigment Satin \$4.80/sq ft
Archival Matte Canvas \$9.00/sq ft

File sizes to 200 Megabytes
Any shape or size to 40 x 72"
Blind drop ship directly to your customer
Same Day Shipment available

Consistent Color
Guaranteed Quality



www.PerfectPosters.com
a 100% digital lab

The Acratech GP Ballhead

- Weighs less than 1 lb (.45kg)
- Solidly holds 25 lbs (11kg).
- Works as a Ballhead, a Gimbal Head and as a Panoramic head.



Made in the USA.

www.acratech.net
(909) 392-7522



Advanced Photographic
Gear for Nature and Sports
Photography

Spring into a new level of control!

Our new Jr.3 gimbal
is lighter, smoother
and stiffer for
better telephoto
images.



BWG-J3K
UNDER 1.5lbs!

Extra Light Gimbal for
telephoto lenses up to 10lbs
MSRP \$349 US as shown

See our complete lineup at:
www.jobu-design.com

Toll Free 1-888-321-JOBU (5628)
Made in Canada.



Never tried our products? We now offer a **STARTER PACK** with samples of our most popular products.

PHOTOGRAPHER'S STARTER PACK*
\$17.95 PLUS SHIPPING
(ONE PER ORDER)

EASY AS 1-2-3



TURN YOUR PASSION INTO PROFIT!

- Combine your photographs with our superior quality matted greeting card frames to create a marketable product.
- Showcase your photo greeting cards in hundreds of different locations.
- Get 10% off for first-time customers!

PHOTOGRAPHER'S
Edge
Your image | our frame | a lasting impression

photographersedge.com
800-550-9254



OMNI-BOUNCE

Used by Professionals around the world, to achieve soft natural lighting with most of the popular brand flash units. Ideal for wide angle shots, macro work, portraits and news coverage. Custom mounting with no Velcro required. Specify your strobe when ordering.

Only \$19.95 + \$2.50 shipping,
Visa, MasterCard & AMEX

STO-FEN PRODUCTS
800-538-0730

P.O. Box 7609, Santa Cruz, CA 95061, USA
www.stofen.com



The Ultimate Digital Print



©Stuart Fall

AutumnColor Luminage™

Realize the unlimited potential of each image! A fine arts lab, focused on customized jobs to meet the immediate needs of the artist, as well as insuring the archival life of prints. Visit us at www.autumncolor.com or call **800-533-5050**.

Since 1993.

MODEL QUALITY INTRODUCTIONS

15,000+ Ladies
Selected from 60,000+ applicants

3,000+ Videos
Chat, E-mail, or Call

Russian Ladies want to meet YOU!

AnastasiaSecret.com

Make Money With Your Camera

JOIN IFPO

INTERNATIONAL FREELANCE PHOTOGRAPHERS ORG.

Lifetime Dues Only \$59 (REGULARLY \$81)

Get FULL Member Benefits Incl. Lifetime Membership Card & Certificate plus Today's Photographer magazine

GAIN ACCESS • GET PUBLISHED • MAKE MONEY
3 Hard Card Press Credential Programs available ONLY to IFPO Members:

- American International News Service
- USPressCorps.org • Today's Photographer Mag. •

Toll FREE 1-800-654-9557

MAIL \$59 to: IFPO-P59, PO Box 42
Hamptonville NC 27020-0042

www.ifpo.net/p59

photobacks™
DIGITAL TEMPLATES, BACKDROPS & MORE

2.0 UPDATED!

ADVANTAGE PACKAGE
585+ Photoshop Templates, Digital Backgrounds, Video Tutorials & Actions!
Reg. Price: \$99.95
Your Price: \$49.95

FREE PHOTO BOOK TEMPLATE COLLECTION!
Your choice with any Photobacks package!
\$75 VALUE FREE!
You won't believe everything we include! Visit:
www.photobacks.com/popphoto
current offers expire 12/31/10

www.photobacks.com
Customer Support: 760-262-9632

RELIABLE PHOTO, INC.

5120 Oakton St, Skokie, IL 60077
847-673-1234
Order online! www.reliablephoto.com
reliablephoto@gmail.com

ONLY \$11.95
20x30 or 20x24

From any Digital File or Negative!!!
Color corrected 4x6's only \$0.29
Finishes available:
matte, glossy, metallic & textured

We can convert your old 8mm to DVD

Digital Prints on Professional Photographic Paper

QTY.	5x7	8x10	11x14	16x20	20x24	20x30	30x40
1	.99	1.99	4.99	10.00	10.90	11.95	49.95
10	.90	1.75	4.75	9.79	10.75	11.75	47.95
25	.85	1.60	4.50	9.25	10.00	11.00	44.95

Add \$8.50 for S&H
Other Photo Gifts and Novelties Available

NOT-A-POD™

FLEXIBLE CAMERA STABILIZER

For times when a tripod is too much but holding the camera by hand is not enough.

Not-A-Pod provides stabilization without adding bulk or weight to your camera.



Lightweight
Easy to carry and use
Adjust once then leave in place

\$24.95

+S&H

Visit www.not-a-pod.com to purchase

"Lally CAP"
Calibrate your camera for accurate color in any light.

WHITE BALANCE FIX

SOLVE THE DIGITAL CAMERA COLOR PROBLEM

"Lally CAP is the missing link."

Stop using inaccurate in-camera Auto White Balance and default "pre-sets" or white/grey cards. Set an accurate Custom White Balance with a "Lally CAP".

- One size fits all D-SLR lenses.
- Works for RAW, TIFF and JPEG files.
- Captures color correctly when the photograph is being exposed.
- Eliminates color-correcting work in image-editors.
- Quick and easy to use.
- Color fidelity tutorial included.

Price \$29 Plus \$3 S&H

To purchase, mail check or pay online at:

lallyphotography.com/store

Lally Photography • PO Box 582 • Lake Forest, CA • 92609

DISTRIBUTING INC.

PERFECTION

Large Enough to Serve You
Small Enough to Know You

- Albums & Folios
- Photomounts
- Presentation Boxes
- Photo Lacquer
- Mounting Board
- Proof Albums
- Memory Mates
- CD Holders
- Photo Frames
- and much more...

TAP **flora**
RENAISSANCE **Topflight**
SUREGUARD **PREMIER**

order online
www.perfectiondistributing.com
1-800-558-5830
Family owned for over 80 years

photographic COMMUNICATIONS

Northwest College
• Affordable Tuition
• Close to Yellowstone

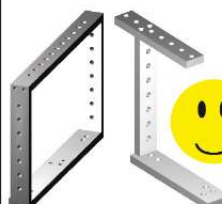
<http://photo.northwestcollege.edu>
800-560-4692
www.northwestcollege.edu

Student Photo: © Brian Harrington

DSLR Budget Brackets

Can't mount enough stuff to camera?

- Need lights, monitor, mics, audio?
- Available solutions are too expensive?



NEW
DIY101/DIY102
• Tons of mounting points
• CNC milled from solid Al bar stock
• **superCHEAP !!**

See them at:

juicedLink.com

WWW • CAMBRIDGEWORLD • COM

New, Used, Refurbished, Preworn Collectables At Discounted Prices
We Buy, Trade, Export, Import Anything Photographic, Online Sales & Wholesale
1-800-221-2253 • 1-718-858-5002 • 1-212-675-8600

FAST, WELL PACKAGED ITEM AS DESCRIBED.
GREAT SELLER! THANK YOU!

PAULA F. BATAVIA NY

Please see website for more testimonials.

WE WILL BEAT AND MEET DISCOUNT PRICES!
CALL OR EMAIL US AND WE WILL SAVE YOU \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$



MORE THAN 50 YEARS OF EXPERIENCE

email: Sales@CambridgeWorld.com

DIGITAL CAMERAS,

LENSES, FLASHES, SCREENS
PAPER AND ACCESSORIES

Canon, Casio, Fuji, Hasselblad, Kodak, Leica, Mamiya, Nikon, Olympus, Panasonic, Pentax, Polaroid, Samsung, Sanyo, Sigma, Sony, Vivitar, Etc -
Memory Cards - Delkin, Kingston, Lexar, SanDisk,
 Fuji, Olympus, Sony, Panasonic, Etc..... **CALL**

Large selection of BATTERIES available at discount prices.... **CALL**



LARGE SELECTIONS OF NEW AND USED CLASSIC CAMERAS

LENSES AND ACCESSORIES IN STOCK AT LOW DISCOUNT PRICES!
 Agfa, Alpa, Ansco, Bolex, Bronica, Canon, Contax, Contarex, Edixa, Exakta, Fuji, Gami, Hasselblad, Kodak, Konica, Kowa, Leica, Leitz, Linhof, Mamiya, Minolta, Minox, Miranda, Nikon, Nikonos, Olympus, Pentacore, Pentax, Petri, Plaubel, Polaroid, Praktika, Praktina, Retina, Robot, Rollei, Roliflex, Sea & Sea, Stereo Realist, Tessina, Topcon, Voigtlander, Yashica, Zeiss, Etc.

LENSES

We Offer MORE THAN 1,000 DIFFERENT LENSES AT LOW DISCOUNT PRICES!!!
 Canon, Nikon, Pentax, Olympus, Leica, Sony, Minolta, Vivitar, Schneider, Mamiya, Hasselblad, Rodenstock, Zeiss, etc.



SIGMA

Sigma SD15, SD10 and SD9 Digital SLR... **CALL**
 Sigma SA7 and SA9 Film SLR Cameras... **CALL**
 Sigma DP1 Digital Camera Outfit... \$548.95
 Sigma DP2 Digital Camera Outfit... \$628.95
 4.5mm F2.8... \$898.95 50mm F1.4... \$468.95
 8mm F3.5... \$828.95 50mm F2.8... \$234.95
 10mm F2.8... \$598.95 70mm F2.8... \$468.95
 15mm F2.8... \$568.95 105mm F2.8... \$458.95
 20mm F1.8... \$468.95 180mm F2.8... \$688.95
 24mm F1.8... \$398.95 180mm F3.5... \$728.95
 28mm F1.8... \$308.95 300mm F2.8... \$2698.95
 30mm F1.4... \$348.95 500mm F4.5... \$4298.95
 60mm F2.8... \$278.95 10-20mm F4.5-6... \$444.95
 800mm F5.6... \$698.95 10-20mm F3.5... \$598.95
 12-24mm F4.5-5.6... \$798.95 17-70mm F2.8-4.5... \$408.95
 18-50mm F2.8-4... \$188.95 18-50mm F3.5-5.6... \$99.95
 18-50mm F2.8... \$378.95 18-200mm F3.5-5.6... \$238.95
 18-125mm F3.5-5.6... \$318.95 18-250mm F3.5-5.6... \$448.95
 8-16mm F4.5-5.6 DC... \$648.95 24-70mm F2.8... \$518.95
 17-50mm F2.8 EX DC OS HSM... \$618.95
 28-70mm F2.8-4... \$88.95 28-70mm F2.8... \$318.95
 28-200mm F3.5-5.6... \$174.95 28-300mm F3.5-5.6... \$234.95
 55-135mm F4.5-6... \$99.95 50-150mm F2.8... \$698.95
 50-200mm F4.5-6... \$148.95 55-200mm F4.5-6... \$124.95
 50-500mm F4-6.3... \$948.95 70-300mm F4.5-6... \$148.95
 70-200mm F2.8... \$748.95 70-300mm DGOS 368.95
 70-300 F4.5-6 APO... \$188.95 100-300mm F4.5-6... \$99.95
 70-200mm F2.8 EX OS HSM... \$1488.95
 100-300mm F4... \$1098.95 120-300mm F2.8... \$2698.95
 120-400 F4.5-5.6... \$828.95 150-500mm F5.6-3... \$938.95
 200-500mm F2.8 APO EX DG... \$2598.95
 300-800mm F5.6 EX BE HSM... \$7798.95
 1.4X APO... \$218.95 2X APO... \$278.95

TOKINA

35mm F2.8... \$438.95 100mm F2.8... \$384.95
 10-17mm F3.5-4.5... \$444.95 500mm F8... \$229.95
 11-16mm F2.8... \$64.95 28-200mm F3.5-5.6... \$99.95
 12-24mm F4... \$424.95 50-135mm F2.8... \$674.95
 16-50mm F2.8... \$594.95 70-210mm F4.5-6... \$89.95
 16.5-135mm F3.5-5.6... \$424.95 80-400mm F4.5-5.6... \$638.95

KENKO TELECONVERTER

1.5X... \$84.95 2X... \$129.95 3X... \$219.95

ASK

IF YOU DO NOT SEE IT, IT DOESN'T MEAN WE DO NOT HAVE IT, 1-800-221-2253

NEW SPECIALS

500mm fl. Vivitar Mirror lens... \$149.99
 135mm F3.5 Schneider tele xenar... \$149.99
 200mm F3.5 ALPA telephoto lens... \$399.99
 0.45x Wide angle fisheye lens... \$29.99
 0.45x Wide angle lens... \$24.99
 MACRO CLOSE UP FLASH RING LIGHT... \$99.95
 MINOLTA MAXXUM 35-70mm F3.5 ZOOM... \$69.95
 MINOLTA MAXXUM 80-200mm 4.5 ZOOM... \$99.95
NOVOFLEX Accessories CALL
 PENTAX AUTO A10 TELECONVERTER LENS... \$69.95
 Topcon super D RE accessory shoe... \$29.99
 TOPCON Lenses & Accessories... **CALL**
 EXAKTA Lenses & Accessories... **CALL**
 Reversing Rings... \$9.99 Bellows extension... \$9.99
 Extension tube set... \$9.99 Rubber eyecup... \$9.99
 Camera Wide neck strap... \$4.99
 1.5x C mount teleconverter lens... \$29.99
 Slide duplicator... \$49.99
WINDER, MINOLTA, CANON 49.95
 NIKON OLYMPUS PENTAX.
 ROLLEI ROLIFLEX FILTERS... \$39.95
Many more available... CALL

Special of the Month

NEW 1000-4000mm Zoom Lens
2000-8000mm Zoom Lens
 *Easy To Use
 *Big Range Zoom
 *Built-In Tripod Adapter
 *Built-In Lens Hood Shade
 *Fits MOST DIGITAL and FILM CAMERAS
only 299.95
 A 2X Teleconverter to convert the Lens to A 2000-8000mm Zoom Lens is available for \$49.95

EXPOSURE LIGHT METERS

Cambron, Gossen, Kenko, Sekonic, Minolta, Pentax, Polaroid, Sheppard, Soligor, Spectra, Wein, Etc. - **CALL**

FLASHES

Canon, Cambron, Elincor, Gary Fox, Metz, Minolta, Multibright, Nikon, Norman, Novatron, Olympus, Pentax, Photogenic, Quantum, Sigma, Stroboflash, Smithbright, Sunpak, Sony, Vivitar, Etc. - **CALL**

PROJECTORS & VIEWERS

Canon, Braun, Epson, Kodak, Carousel and Ektagraphic, Kaiser, Panasonic, Optoma, Sanyo, Sharp, Telex, Da-Lite Screens, Slide Mounts, Etc. - **CALL**

DARKROOM / ENLARGERS

Beseler, Fujimoto, Durst, LPL, Omega, Etc. Enlarging Lenses & Darkroom Accessories. Large selection of papers available (Kodak, Ilford, Fuji, Forte, Etc.) - **CALL**

LARGE & MEDIUM FORMAT

Alpa, Arca Swiss, Bronica, Contax, Fuji, Cambron, Hasselblad, Linhof, Kiev, Mamiya, Rollei, Roliflex, Toyo, Wista, Yashica, Etc. - **CALL**

TRIPDS

Arca Swiss, Bogen, Canon, Cullman, Cullman, Berthach, Giotto, Davis & Sanford, Gitzo, Impact, Linhof, Manfrotto, Slik, Sunpak, Tilital, Vanguard, Velbon, Etc. - **CALL**

FILM (ALL SIZES)

Kodak, Ilford, Fuji, Polaroid, Forte, Etc. - **CALL**

REPAIR

AT DISCOUNT PRICES!
 Send your equipment for a FREE repair estimate to:
 Cambridge World
 34 Franklin Ave.,
 Brooklyn, New York 11205

USED DEPARTMENT

We have more than 30,000 Used items. Email us your Wish List at sales@cambridgeworld.com or CALL 1-800-221-2253 and we will assist you and SAVE you \$\$\$\$\$\$. No item is too small or large. Listing is very partial.

Bronica SA, EC... CALL	Bronica GS1... \$395.50	Canon 24mm F1.4 USM... \$989.00
Bronica FTR... \$9.95	Bronica SQ camera... \$199.99	Canon 50mm F1.4 USM... \$229.00
Canon A2E... \$79.99	Canon V1... \$499.99	Canon 85mm F1.2 USM... \$1,299.00
Canon Elan 7E... \$49.99	Canon IX... \$69.99	Canon 300mm F2.8 USM... \$2,199.00
Canon rebel 2000... \$89.99	Canon Elan... \$69.99	Canon 16-35mm F2.8 USM... \$889.00
Canon F1... \$119.99	Canon VT... \$299.99	Canon 24-105mm F4 USM... \$789.00
Canon rebel XT... \$299.99	Canon XTL... \$399.99	Canon 28-300mm F3.5-5.6 USM IS... \$1,299.00
Contax G2... \$699.99	Contax N1... \$349.99	Canon 70-200mm F2.8 USM IS... \$1,199.00
Contax RTS III... \$699.99	Exakta RTI... \$149.99	Canon 100-400mm F4.5-5.6 USM IS... \$1,199.00
Exakta VX... \$99.99	Fuji Digital S3... \$399.95	Canon 430EX Speedlite... \$189.00
Fuji S5 digital... \$799.95	Exakta V2... \$129.50	Canon 580EX Speedlite... \$299.00
Hasselblad 500C... \$149.99	Hasselblad 503CW... \$499.99	Canon 24-70mm F2.8 USM... \$899.95
Kodak Retina IIc... \$99.95	Retina Reflex... \$99.99	Contax 50mm F1.4 Zeiss Planar... \$209.00
Leica IF... \$499.99	Leica IIIg... \$699.99	Contax 80-200mm F4.5 Vario sonnar... \$199.00
Leica IIIf... \$299.99	Leica M3... \$499.99	Hasselblad 150mm F4.5 sonnar... \$299.00
Leica R3... \$199.99	Leica R8... \$749.99	Leica 35mm F2 Summicron M... \$899.00
Mamiya RB67... \$199.99	Minolta X700... \$99.99	Leica 50mm F2 Summicron M... \$399.00
Minolta XT... \$59.95	Maxum HTSi... \$69.99	Leica 135mm F4.5 Hektor Screw... \$129.00
Maxum 7000... \$49.95	Maxum 5000... \$39.95	Leica 50mm F2 Summicron R... \$349.50
Maxum 9000... \$69.95	Maxum 7001... \$119.95	Mamiya 55mm F2.8 RZ45... \$99.00
Maxum SD... \$199.95	Maxum 7D... \$299.99	Mamiya 180mm F4.5 F6.7... \$149.00
Nikkormat FTN... \$99.95	Nikkormat FT2... \$119.94	Minolta 80mm F1.7... \$19.00
Nikon F... \$99.99	Nikon FM10... \$129.99	Minolta 50-200mm F4.5-5.6... \$69.00
Nikon F3... \$129.99	Nikon D40... \$199.99	Minolta 500mm F5.6... \$79.00
Nikon D200... \$699.99	Nikon D55... \$66.99	Minolta Maxxum 50mm F1.7 AF Lens... \$69.95
Nikon N90... \$99.99	Nikon N8008... \$79.95	Nikon 50mm F1.4 Nikkor... \$69.00
Nikonos V... \$179.99	Nikonos II... \$79.95	Nikon 18-200mm F3.5-5.6 Zoom... \$349.00
Olympia OM1... \$129.99	Olympus OM4... \$179.99	Nikon 80-200mm F2.8 Zoom... \$399.00
Pentax K1000... \$99.99	Pentax LX... \$299.99	Nikon SB600 Speedlite... \$269.00
Pentax 645... \$249.99	Rolleiflex 35... \$119.99	Nikon SB900 Speedlite... \$349.00
Rolleiflex V... \$149.99	Rolleiflex 35F... \$499.99	Olympus 50mm F1.8 Zuiko... \$39.00
Topcon super RE... \$249.99	Topcon UH... \$79.95	Olympus 70-210mm F4.5 AF Zuiko... \$99.00
Voigtlander Bessa... \$99.99	Vitonon III... \$99.95	Olympus 50mm F1.8 Zuiko Lens... \$49.95
Voigtlander Bessamite... \$129.99	Yashica FR1... \$69.95	Panasonic 14-50mm F2.8-3.5 Zoom... \$479.00
Yashica FX3... \$69.99	Zeiss Ikon... \$149.99	Pentax 28-80mm F3.5-4.5 Zoom... \$39.00
Zeiss Contarex... \$299.99	Nikon FM3A... \$399.00	Pentax 35-80mm F4.5-5.6 Zoom... \$44.00
Canon SD... \$1,499.00	Nikon F4... \$299.00	Sigma 70mm F2.8 macro... \$379.00
Canon 40D... \$699.00	Nikon D300... \$1,099.00	Sony 16-80mm F3.5-4.5 Zeiss sonar... \$499.00
Contax Aria... \$299.95	Nikon D200... \$499.00	Sony 55-200mm F4-5.6 Zoom... \$99.00
Exakta 66... \$999.99	Olympus E-200... \$249.00	Vivitar 500mm F8 mirror lens... \$69.00
Leica M6... \$999.99		2X Teleconverter Extended Lens... \$29.95
Minolta SRT 101... \$69.95		3X Teleconverter Extended Lens... \$39.95

FILTERS

Top Quality screw in optical Glass Filters

19-37mm... \$19.95 67-82mm... \$19.95
 40-49mm... \$9.95 86-95mm... \$9.95
 52-62mm... \$14.95 105-122mm... \$129.95

Sun Shade Lens Hoods

19-37mm... \$9.95 67-82mm... \$19.95
 40-49mm... \$6.95 86-95mm... \$69.95
 52-62mm... \$9.95 105-122mm... \$99.95

3 Lens Close-up Macro Lens Sets

19-37mm... \$29.95 52-62mm... \$29.95
 40-49mm... \$19.95 67-82mm... \$39.95

WE OFFER MORE THAN 10,000 STANDARD & SPECIAL SIZE FILTERS AT LOW DISCOUNT PRICES!!!

CALL
 Heliopan, Hoya, Cambron, Cokin, Sunpak, Tiffen, etc -

B+W FILTERS

UVaHaze & KRI 5 Sky B+W and Color
 19-58mm... \$21.95 62mm... \$25.95
 67mm... \$32.95 72mm... \$43.95
 77mm... \$49.95 82mm... \$62.50

B+W CIRCULAR POLARIZERS

37mm-52mm... \$1.95 67mm... \$4.95
 55x85mm... \$6.95 72mm... \$9.95
 62mm... \$7.95 77mm... \$10.95

1-800-221-2253 • 1-718-858-5002 • 1-212-675-8600

email: Sales@CambridgeWorld.com

BINOCULARS

TELESCOPES, RIFLESCOPES, RANGEFINDERS
 We offer one of the Largest selections of BINOCULARS, TELESCOPES, RANGEFINDERS and RIFLESCOPES AT LOW DISCOUNT PRICES!!!
 We also offer you more than 500 DIFFERENT BINOCULARS!!!!!! BUSHNELL, BAUSCH & LOMB, CAMBRON, CANON, CARSON, CELESTRON, DOCTER, FUJI, FUJINON, JASON, KOWALEITZ, LEICA, LEOPOLD, MEOPTA, MINOLTA, MINOX, OLYMPUS, PENTAX, SAMSUNG, SPALDING, STEINER, SWIFT, TASCOS, VANGUARD, VIVITAR, VIXEN, VORTEX, WEENS & PLATH, ZEISS, ETC... **CALL**

The Last "Can of Air" You'll Ever Have To Buy!

New DataVac® Electric Duster,® the high-performance "green" alternative to throwaway "canned-air" camera/computer dusting products. All-steel, built to last, no condensation... **Costs less than 5 "cans of air"!**



Call for info: 1-800-822-1602
www.DataVacElectricDuster.com



METRO® Family Owned Since 1939

Metropolitan Vacuum Cleaner Co., Inc., Suffern, NY 10901

Jim Cline Photo Tours



Machu Picchu Myanmar

India Pushkar Fair

Vietnam Guatemala

Day of the Dead in Oaxaca

Small Group Sizes!

www.JimCline.com (877) 350-1314

Camera Conversions Monochrome, Infrared, UV, High Res

Are you a fan of Black and White photography?

World's first monochrome (B&W) converted cameras. Using our proprietary process, we can remove the Color Filter Array (CFA), or Bayer Filters, from a few select DSLR cameras. If you want to take the highest quality B&W picture, you can't use a normal factory camera and convert in post. The reason is that the resolution on a stock camera is dependent on color content in the image.

Most color cameras use a Red-Green-Blue-Green pattern of color filter dots (the CFA) that are on top of the B&W photodiode (pixel). For every 4 pixels, 2 are green, 1 is red, and 1 is blue. So if you were to take a picture of a pure blue image, only 1 in 4 pixels would even see the color blue, and your camera would be operating a 25% resolution.

By converting a camera to B&W, each pixel contributes to the final image. For any picture with color, a monochrome camera will always take a more detailed picture than a stock camera.

Because we convert each camera by hand, orders are processed on a 1st come, 1st served basis.

Cameras Sold & Modified For:

Monochrome - B&W Remove Bayer filters!
IR-Only: (Dedicated IR) 590nm, 665nm, 715nm, 830nm
UV+Visible+IR : (Full Range)
HR: High Res (No AA) Remove blur / anti-aliasing filter
Get the most out of your camera!

A new life for your old camera!

Canon: Older D cameras, 350D, 400D, 450D, 500D, 550D, 1000D, 5D, 5DMKII, MKIII
Nikon: D1X, D2X, D3, D3x, D100, D200, D300, D700, D40, D40X, D50, D70, D80, D90
Fujif: S3 Pro, S5 Pro Olympus: E410, E420, E500, E520, E620 and many others

Scratched Sensors Replaced - Sensor Cleaning

1-2 Day Typical Turn-Around, Cleanroom, Professional Modifications since 1997

800-588-3382 201-882-0344

www.MaxMax.com

Leather Camera Case



FOR YOUR DIGITAL SLR • MADE IN U.S.A.

www.cameralholster.com

Skytop Trading, Estes Park Colorado
Phone: 970 - 577 - 0892

Turn Your Used Camera Gear Into Cash!



No Hagglng

No Hassles

FREE Shipping



used camera buyer

www.UsedCameraBuyer.com

866-735-5444 ext. 9

LAKE EFFECT

Digital Imaging

EXPERIENCE THE LAKE EFFECT

Cool breezes, peaceful waves lapping on the shore, a summer vacation. You don't need to have a stressful relationship with your pro lab. Experience the Lake Effect. Visit our website at **www.lakeeffectdigital.com** or call us at **800-365-2376** for free information.

PLEASE NOTE: It is impossible for us to verify all the claims of advertisers, including product availability and existence of warranties. To confirm that an advertiser is authorized to sell a product, we suggest you contact the manufacturer directly.

This Holiday Season, Give The Gift Of A Smile.



Free cleft surgery which takes as little as 45 minutes and costs as little as \$250, can give desperate children not just a new smile — but a new life.

**“...one of the most
productive charities —
dollar for deed — in the world.”**
—*The New York Times*

Help children with clefts and other problems.

☐ \$250 Surgery. ☐ \$125 Half surgery. ☐ \$50 Medications. ☐ \$ _____

Mr./Mrs./Ms. _____ Zip _____

Address _____ City _____ State _____

Telephone _____ eMail _____

Credit Card # _____ Expires _____

☐ Visa ☐ MasterCard ☐ AMEX ☐ Discover Signature _____

☐ My check is enclosed. Z10121049ZFBY28

Smile Train, P.O. Box 96211, Washington, DC 20090-6211

Donate online: www.smiletrain.org or call: 1-800-932-9541



SmileTrain
Changing The World One Smile At A Time.

According to the U.S. Government, women should take sufficient levels of folic acid (400 micrograms/day) during pregnancy to help prevent neural tube defects and reduce the risk for cleft lip and palate. When folic acid is taken one month before conception and throughout the first trimester, it has been proven to reduce the risk for neural tube defects by 50 to 70 per cent. Be sure to receive proper prenatal care, quit smoking and drinking alcohol and follow your health care provider's guidelines for foods to avoid during pregnancy. Foods to avoid may include raw or undercooked seafood, beef, pork or poultry; delicatessen meats; fish that contain high levels of mercury; smoked seafood; fish exposed to industrial pollutants; raw shellfish or eggs; soft cheeses; unpasteurized milk; pâté; caffeine; and unwashed vegetables. For more information, visit www.SmileTrain.org. Smile Train is a 501 (c)(3) nonprofit recognized by the IRS, and all donations to Smile Train are tax-deductible in accordance with IRS regulations. © 2010 Smile Train.



▲ Good Night Girl

The December issue may have been the most popular one of the year. Featuring our annual Picture Contest, it was packed with photos from readers competing for substantial prizes. This cover photo, a 1950 prizewinner, was of Kerry Donnelly by L. Willinger of Los Angeles. Titled "Good Night, Everybody," it was taken with a 5x7 Ansco view camera and an 18-inch f/4.5 Zeiss Tessar lens on Kodak Ektachrome Type B sheet

**60
YEARS
AGO**

**Maurice
Ducharme
wrote about
the practical-
ities of a
low-cost,
sound-on-
film movie
camera.**

film. The exposure was open flash at f/26 with a Wratten 2A (mild warming) filter. Six GE No. 22 flashbulbs supplied the lighting.



◀ Jack of All Trades

Max Jaikin, a photo assistant for top-flight illustrator Alan Fontaine, wrote a light-

hearted account that revealed all of the ways he helped his boss photograph beautiful women in glamorous poses. For assistants then and now, this work provided an entry into the world of professional photography.

Contest Winner

This powerful photo by W. Starr Suydam, of Madison, NJ, our first-place Black and White winner of the Picture Contest, was taken to portray the task of sightless children learning to read Braille. In his basement studio, Suydam posed his son Stuart (who was not blind), after having him coached in proper hand position and for the right expression. He used a 4x5 Anniversary Speed Graphic and a 135mm f/4.7 Optar lens. A 500-watt spot and #1 Photoflood created dramatic lighting. Exposure on Kodak Super Panchro Press Type film was 1/2 sec at f/16. Our judges awarded Suydam a \$2,000 U.S. Savings Bond, plus a trophy.



▼ Tiny Novelty

The latest pocket camera? This 16mm Mikroma from Czechoslovakia. Billed as the "Miniature That Gives Professional Results," the camera used 16mm film in either color or black-and-white. It sported a 20mm f/3.5 Mirar lens and boasted a top shutter speed of 1/100 sec. Price was \$49.90.

—Harold Martin



800-947-9980

212-444-6666

Fax: 212-239-7770

420 Ninth Avenue

Corner of 34th Street

New York, N.Y 10001



The Professional's Source™

Store & Mail Order Hours: Sunday 10-5 | Mon-Thurs 9-7 | Friday 9-1 | Closed Saturday

Over 200,000 products, at your leisure
www.bhphotovideo.com

B&H Online

- **Search Capabilities**
Find products fast
- **Podcasts**
B&H experts provide essential product information in video interviews
- **Product Demos**
View products from every angle, right on your computer screen
- **Customer Reviews**
Useful feedback from other customers to help you decide
- **Live Help**
Chat online with support staff



When in New York,
Visit our SuperStore

- Over 70,000 square feet of the latest gear
- The most knowledgeable Sales Professionals
- Hands-on demos
- Convenient free parking available

Free in-depth Interactive

HD SLR GUIDE

- Learn the basics
- Issues & solutions
- Select the right gear

bhphoto.com/HD SLRhub

**We Buy, Sell, and Trade
Used Equipment**

888-520-3010

Speak to a Sales Associate

bhphotovideo.com/used
Shop conveniently online



The Professional's Source™

When in New York,
Visit our SuperStore

420 Ninth Ave.
Corner of 34th Street
New York, N.Y. 10001



- ▶ Over 70,000 square feet of the latest gear
- ▶ The most knowledgeable Sales Professionals
- ▶ Hands-on demos
- ▶ Convenient free parking available

Subscribe to our
free Catalog
bhphoto.com/catalog
212-444-6633



Canon Powershot SD1400 IS

- 720p HD Video with HDMI Output
- Bright 2.7" PureColor System LCD
- 4x Optical Zoom • 4x Digital Zoom
- 5-20mm f/2.8-5.9 (35mm equiv: 28-112mm) • SD/SDHC Card Slot
- Dimensions: 3.63 x 2.21 x 0.70"

#CAPSSD1400* Black, Orange, Pink, Silver



14 Mega Pixels

Canon Powershot S95

- 3.0" LCD Monitor • RAW + JPEG Files
- 3.8x Optical Zoom • 4x Digital Zoom
- 6-22.5mm f/2.0-4.9 (35mm equiv: 28-105mm) • SD/SDHC/SDXC Card Slot
- 1280x720p HD Video with Stereo Sound
- Dimensions: 3.93 x 2.30 x 1.16"

#CAPSS95*



10 Mega Pixels

Canon Powershot G12

- 2.8" Vari-Angle LCD • 1280 x 720p HD Video Capture • Stereo Sound for Video
- 5x Optical Zoom • 4x Digital Zoom
- 6.1-30.5mm f/2.8-4.5 (35mm equiv: 28-140mm) • SD/SDHC/SDXC Card Slot
- RAW File Mode • Dim.: 4.41 x 3 x 1.9"

#CAPSG12*



10 Mega Pixels

FUJIFILM Finepix HS10

- 3" LCD Monitor • HD Video 1080p with Stereo Sound • 30x Optical Zoom
- 4.2-126mm f/2.8-5.6 (35mm equiv: 24-720mm) • SD/SDHC Card Slot
- RAW and JPEG File Formats
- Dimensions: 5.1 x 3.6 x 5"

#FUFPHS10*



10 Mega Pixels

Nikon Coolpix L110

- 3" High Res. LCD • 15x Optical Zoom
- 5-75mm f/5.5-5.4 (35mm equiv: 28-420mm) • SD/SDHC Card Slot
- 5-Way VR Image Stabilization • 720p HD Video • Sports Continuous Shooting
- Dimensions: 4.3 x 3.1 x 3"

#NICPL110*



12 Mega Pixels

Nikon Coolpix P100

- 3" Vari-Angle LCD • 26x Optical Zoom
- 4.6-120mm f/2.8-5 (35mm equiv: 26-678mm) • SD/SDHC Card Slot
- 5-Way VR Image Stabilization
- Full 1080p HD Video @ 30 fps with Stereo
- Dimensions: 4.5 x 3.3 x 3.9"

#NICPP100*



10 Mega Pixels

OLYMPUS Stylus Tough-8010

- Shockproof, Waterproof, Freezeproof, Crushproof • 2.7" LCD
- 5x Optical Zoom • 5x Digital Zoom
- 5-25mm f/3.5-5.1 (35mm equiv: 28-140mm) • SD/SDHC Card Slot
- Dimensions: 3.9 x 2.5 x 0.94"

#OLST8010* Black, Silver



12 Mega Pixels

Panasonic Lumix DMC-ZS7

- 3" LCD • HD Video Recording
- 12x Optical Zoom • 4x Digital Zoom
- 4.1-49.2mm f/3.3-4.9 (35mm equiv: 25-200mm) Leica DC Vario-Elmarit
- SD/SDHC Card Slot • GPS Geotagging
- Dimensions: 4.07 x 2.35 x 1.28"

#PADMCZS7* Black, Blue, Red, Silver



12 Mega Pixels

PENTAX Optio W90

- 2.7" LCD • SD/SDHC Card Slot
- 5x Optical Zoom • 6.25x Digital Zoom
- 5-25mm f/3.5-5.5 (35mm equiv: 28-140mm)
- Waterproof, Shockproof, Coldproof
- Dustproof • HD Movie HD Video Recording
- Dimensions: 4.2 x 2.3 x 1.0"

#PEOW90* Black, Green



12 Mega Pixels

SONY CyberShot DSC-W310

- 2.7" LCD Monitor • 4x Optical Zoom
- 4.9x Digital Zoom (@ 8MP)
- 5-20mm f/3-5.8 (35mm equiv: 28-112mm)
- MS Duo/Pro Duo and SD/SDHC Dual Card Slot • Smile Shutter Technology
- Dimensions: 3.75 x 2.17 x 0.74"

#SODSCW310* Black, Pink, Silver



12 Mega Pixels

SONY CyberShot DSC-HX5V

- 3" LCD • 1080i AVCHD HD Movies
- 10x Optical Zoom • 14x Digital Zoom
- 4.25-42.5mm f/3.5-5.5 (35mm equiv: 25-250mm)
- MS Duo, MS PRO Duo, SD/SDHC Card Slot
- Dimensions: 4.05 x 2.27 x 1.14"

#SODSCHX5VB



10 Mega Pixels

SONY CyberShot DSC-HX1

- 3" LCD Monitor • HD Video Recording
- 20x Optical Zoom • 26x Digital Zoom
- 5-100mm f/2.5-5.6 (35mm equiv: 28-560mm) G-Lens • Handheld Twilight Mode • MS Duo/Pro Duo Card Slot
- Dimensions: 4.63 x 3.38 x 3.63"

#SODSCHX1*



9 Mega Pixels

▶ MEMORY CARDS

CF Compact Flash

	Delkin			Kingston			Lexar			Sandisk		
	Std	Pro	91 MB/s	Std	Elite Pro 133x	Ultimate 266x	Platinum II 200x	400x	600x	Ultra II	Extreme 60 MB/s	Extreme Pro 90 MB/s
2GB	12.99	22.95	—	—	—	—	—	—	—	16.49	—	—
4GB	17.51	27.50	59.99	11.95	15.95	—	26.09	—	—	27.95	—	—
8GB	29.49	49.95	89.99	18.50	24.95	—	33.20	79.95	127.29	38.95	69.95	—
16GB	47.50	89.95	CALL	—	39.95	79.95	50.99	117.64	194.95	77.95	124.95	219.99
32GB	97.50	139.99	269.95	—	72.95	116.95	—	178.02	338.99	—	189.95	389.99
64GB	—	299.99	—	—	—	—	—	—	—	—	699.99	—

SD Secure Digital

	Delkin	Kingston	Sandisk	Panasonic	Sony
	Std	Micro	Micro	5MBs Class 4	Std Class 4 Micro
1GB	—	—	—	—	—
2GB	7.95	6.95	6.95	7.50	8.95 8.95

SDXC* Extended Capacity

	Kingston	Panasonic	Sandisk
	Class 10 60/35mb/s	Class 10 22mb/s	Class 4 15mb/s
48GB	—	—	—
64GB	352.95	479.95	210.99

MSDUO Memory Stick Pro Duo

	Lexar	Sandisk			Sony	
	Platinum II	Std	Ultra II	Gaming	Pro-HG Ultra	Mark II Pro-HG HX
1GB	—	—	—	6.49	—	—
2GB	14.99	—	—	—	—	14.99
4GB	—	—	—	—	—	16.79
8GB	—	26.55	41.39	—	—	29.99 37.29
16GB	—	—	—	—	—	59.99 74.49
32GB	—	147.95	—	—	169.95	126.95 148.99

XD xD Memory

	Olympus M+	
	1GB	Standard
1GB	Standard	11.99
2GB	Standard	14.95

SD HC Secure Digital High Capacity

	Delkin			Kingston				Lexar		Panasonic		Sandisk			Sony	
	Pro Class 6	Class 10	Micro	Std Class 4	Ultimate Class 6 133x	Ultimate Class 10	Micro Class 4	Std Class 2	Platinum II Class 6 100x	Professional Class 10 133x	Standard Class 4 Class 10 20 MBs	Class 10 22 MBs	Std	Ultra Class 4 15MBs	Extreme Class 6 20MBs	Micro Class 10 30MBs
4GB	12.99	29.99	17.50	8.77	—	—	8.95	—	—	—	—	18.69	9.95	15.95	28.49	9.95
8GB	29.99	34.89	29.95	14.95	29.95	34.95	16.91	15.79	27.95	59.95	—	36.59	16.69	33.95	40.95	18.95
16GB	48.72	79.99	82.50	32.99	44.95	68.50	—	29.99	43.95	99.95	45.79	79.99	—	59.95	79.00	108.95
32GB	129.95	159.99	—	69.95	89.95	129.95	—	—	88.67	169.95	—	239.95	96.29	109.00	—	198.99

Panasonic Lumix DMC-GF1 DSLR

- HD 720p Video Capture with Exposure Control
- Capture in JPEG or RAW
- 3" Live View LCD
- Compact Micro 4/3 Design
- SD/SDHC Card Slot
- My Color + Film Mode
- Intelligent Exposure (iA) Mode
- Optional Electronic Viewfinder
- Advanced Dust Reduction Technology



Kit with 14-45mm.....#PADMCGF11445*

12 Mega Pixels

OLYMPUS EP-2 DSLR

- Capture in JPEG or RAW
- HD Stills and Video with Live View
- 3" HyperCrystal LCD
- ISO 100-6400
- 4/3 Full Frame Zuiko Specific Lenses
- Advanced Dust Reduction
- SD/SDHC Card Slot



Black Kit with 14-42mm Zuiko Lens#OLEP21442B

Black Kit with 17mm f/2.8 Zuiko Lens#OLEP217B

12 Mega Pixels

OLYMPUS E-30 DSLR

- Capture in JPEG or RAW
- 2.7" Live View LCD
- 4/3 Full Frame Zuiko-Specific Lenses
- Supersonic Wave Filter Anti-dust System
- CF & XD Dual Card Slots
- Scene Select Modes
- Art Filters & Multiple Exposure
- Shadow Adjustment • ISO 100-3200



Body Only.....#OLE30

Kit with 14-42mm Zuiko Lens.....#OLE301442

12 Mega Pixels

► OLYMPUS

Flash System

FL-20 Flash.....	\$149.95	FL-36R Flash.....	\$229.95
FL-50R Flash.....	\$499.95	RF-11 Ring Flash.....	\$249.95
SRF-11 Ring Flash Set.....	\$559.95		
TF-22 Twin Flash.....	\$449.95		
STF-22 Twin Flash Set.....	\$739.95		

Zuiko 4/3 System Digital Lenses

8/3.5 Fish-eye ED.....	\$799.99
35/3.5 Macro ED (520).....	\$229.95
50/2.0 Macro ED (770).....	\$499.95
150/2.0 ED (820).....	\$2,499.95
300/2.8 ED.....	\$6,999.95
7-14/4.0 ED (720).....	\$1,799.95
11-22/2.8-3.5 ED (720).....	\$799.95
12-60/2.8-4 ED SWD (720).....	\$999.95
14-42/3.5-5.6 ED (580).....	\$249.95
18-180/3.5-6.3 ED (620).....	\$499.95
35-100/2.0 ED (770).....	\$2,499.99
40-150/4-5.6 ED (580).....	\$279.95
50-200/2.8-3.2 ED SWD (670).....	\$1,199.95
90-250/2.8 ED (1050).....	\$5,999.95
EC-14 1.4x Teleconverter.....	\$439.95
EC-20 2x Teleconverter.....	\$479.95
MF-1 OM Lens Adapter.....	\$99.95

► PENTAX

AF Flash System

AF-360FGZ.....	AF-540FGZ.....
----------------	----------------

SMCP-DA Digital AF Lenses

14/2.8 ED IF (770).....	15/4.0 ED AL (490).....
35/2.8 Mac. Limited (490).....	55/1.4 Limited (580).....
21/3.2 AL Limited "Pancake" (490).....	
40/2.8 Limited "Pancake" (490).....	
70/2.4 Limited "Pancake" (490).....	
200/2.8 ED IF.....	300/4.0 ED IF SDM (770).....
10-17/3.5-4.5 ED IF (770).....	12-24/4 ED AL IF (770).....
16-45/4 ED AL (670).....	
16-50/2.8 ED AL IF SDM (770).....	
17-70/4.0 AL IF SDM (670).....	
18-55/3.5-5.6 AL II (520).....	
50-135/2.8 ED IF SDM (670).....	
50-200/4-5.6 ED WR (520).....	
55-300/4-5.8 ED (580).....	
60-250/4.0 ED IF SDM (670).....	

AF Lenses for 35mm & Digital SLRs

31/1.8 Limited (580).....	50/1.4 (490).....
43/1.9 Limited "Pancake" (490).....	
50/2.8 Macro (520) with Case.....	
77/1.8 Limited (490).....	
100/2.8 D FA AW Macro (490).....	

PENTAX K-r DSLR

- 720p HD Video
- 11 Point SAFOX IX Autofocus System
- In-Camera HDR Image Capture
- IrSimple Infrared Data Transfer
- 3" LCD monitor with Live View
- Uses Pentax AF Lenses (1.5x factor)
- SD/SDHC Card Slot
- 6 FPS Frame Rate
- ISO 100-25,600



Body Only.....#PEKR*

12 Mega Pixels

SONY Alpha NEX-3 DSLR

- Extremely Compact HD Imaging System
- Tilttable 3" LCD with Live View
- Uses Sony E-mount series Lenses
- MS PRO Duo or SD/SDHC Card Slots • Up to 7 fps
- Up to ISO 12800
- Auto HDR capture / DR0 Optimizer
- 720p HD / MP4 with MPEG-4 AAC-LC Audio
- Available in Black, Red or Silver



with 16mm Lens.....#SODSLRNX3A*

with 18-55mm.....#SODSLRNX3K*

14 Mega Pixels

SONY Alpha A390 DSLR

- RAW & JPEG File Formats
- 2.7" Tilttable TFT Photo Clear LCD
- Live View with Quick Auto Focus
- Uses Sony Alpha (compatible with Minolta) Lenses (1.5x factor)
- MS PRO Duo and SDHC Dual Card Slots
- Anti-dust Technology
- Creative Style settings
- 2.5 fps Continuous Shooting
- High Sensitivity (ISO 3200)



Body Only.....#SODSLRA390

14 Mega Pixels

► SONY

Compatible with Maxxum DSLRs

HVL-F42AM.....	\$299.99	HVL-F58AM.....	\$499.99
----------------	----------	----------------	----------

Digital Lenses

16/2.8 Fish-eye.....	\$849.99
20/2.8 (720).....	\$599.99
35/1.4 (550).....	\$1,369.99
50/2.8 Macro (550).....	\$479.99
85/1.4 Carl Zeiss (720).....	\$1,369.99
100/2.8 Macro (550).....	\$679.99
135/1.8 Carl Zeiss (770).....	\$1,479.99
135/2.8 STF (720).....	\$1,249.99
300/2.8 G APO.....	\$6,299.99
500/8 Reflex.....	\$749.99
11-18/4.5-5.6 DT (770).....	\$699.99
16-35/2.8 ZA SSM Carl Zeiss (770).....	\$1,899.99
16-80/3.5-4.5 DT Carl Zeiss (620).....	\$749.99
16-105/3.5-5.6 G DT (620).....	\$599.99
18-200/3.5-6.3 DT (620).....	\$529.99
18-250/3.5-6.3 DT (620).....	\$579.99
24-70/2.8 Carl Zeiss (770).....	\$1,599.99
70-200/2.8 G APO (770).....	\$1,799.99
70-300/4.5-5.6 G (620).....	\$849.99
75-300/4.5-5.6 G (550).....	\$249.99
1.4x Teleconverter.....	\$479.99

52mm - Neutral or Portrait.....	#EXWB52*.....	\$69.95
58mm - Neutral or Portrait.....	#EXWB58*.....	\$79.95
62mm - Neutral or Portrait.....	#EXWB62*.....	\$84.95
67mm - Neutral or Portrait.....	#EXWB67*.....	\$89.95
72mm - Neutral or Portrait.....	#EXWB72*.....	\$94.95
77mm - Neutral or Portrait.....	#EXWB77*.....	\$99.95
82mm - Neutral or Portrait.....	#EXWB82*.....	\$104.95

Digital White Balance Filters
ExpoDisc is an easy to use custom white balance solution that eliminates the inconvenience and inconsistencies of other methods.

- Use in Ambient, Studio or Mixed Light
- Easy to Use, Durable, Compact



OLYMPUS 50mm f/2 Macro ED Zuiko Digital Lens

- Designed exclusively for Digital SLRs
- Ideal for macro photography and also as a portrait lens
- Magnification 1:2
- ED glass element
- Min. focus: 9.45"
- 52mm filter diameter
- Weight: 10.6 oz



PENTAX 50-200mm f/4-5.6 SMCP-DA ED WR AF Digital Lens

- Designed exclusively for Digital SLRs
- Ideal for portraits, sports, and scenery
- Weather resistant
- Quick-Shift Focus System
- Min. focus: 3.6'
- 52mm filter diameter
- Weight: 9 oz



SONY HVL-F58AM Shoe-Mount Digital Flash

- Zoom Head (24-105mm)
- Bounce & Swivel Head
- Guide No. 190"
- TTL Dedication
- Vari-Power
- High-Speed Sync
- Auto WB Adjustment
- Wireless Ratio Control
- Weight: 15.6 oz



SONY 16-80mm f/3.5-4.5 Carl Zeiss T* DT Digital Lens

- Designed exclusively for Digital SLRs
- Ideal for snapshots, portraits, interiors, or outdoor scenery
- 35mm equiv: 24-120mm
- Min. focus: 13.8"
- 62mm filter diameter
- Weight: 15.5 oz



The Professional's Source™

bhphotovideo.com



800-947-9980
212-444-6666

Fax:
212-239-7770

Quick Dials

Digital SLR's and Accessories.....#64
Digital Point & Shoots and Accessories.....#61

We Buy, Sell and Trade
Used Equipment

Store & Mail Order Hours:
Sunday 10-5 • Mon.-Thurs. 9-7
Friday 9-1 • Saturday Closed

Free Interactive
HDSLR GUIDE

bhphoto.com/HDSLRhub



The Professional's Source™

When in New York,
Visit our SuperStore

420 Ninth Ave.
Corner of 34th Street
New York, N.Y. 10001



- ▶ Over 70,000 square feet of the latest gear
- ▶ The most knowledgeable Sales Professionals
- ▶ Hands-on demos
- ▶ Convenient free parking available

Subscribe to our
free Catalog
bhphoto.com/catalog
212-444-6633



Canon Digital Rebel XS DSLR

- 2.5" LCD Monitor
- Live View Function
- Uses Canon EF Lenses (1.6x factor)
- SD/SDHC Card Slot
- Auto Lighting Optimizer
- ISO 100-1600
- USB 2.0
- Picture Style Settings
- Integrated Cleaning System
- 3 fps Continuous Shooting



Kit with 18-55mm #CAEDRXSKB

10 Mega Pixels

Canon Digital Rebel T2i DSLR

- 3" Clear View LCD with Advanced Live View
- Uses Canon EF Lenses (1.6x factor)
- SD/SDHC Card Slot
- 3.7 fps Continuous Shooting
- ISO Expandable to 12,800
- RAW and/or JPEG
- Eye-Fi Menu Status Indicator Support



Body Only..... #CAEDRT2I
Kit with 18-55mm IS..... #CAEDRT2IK

18 Mega Pixels

Canon EOS-60D DSLR

- 1920 x 1080 HD Video Capture
- DIGIC 4 Image Processor
- SD/SDHC/SDXC Card Slot
- Works with all Canon EF & EF-S Lenses
- Vari-Angle Clear View 3.0" Flip-Out LCD
- HDMI Output to HDTV
- 5.3 fps Continuous Shooting
- ISO 6400 - Expandable to 12800



Body Only..... #CAE60D

18 Mega Pixels

Canon EOS-5D Mark II DSLR

- Record HD Video • 1080p Movie Mode
- Full-Frame Sensor • Live View Mode
- 3" High Resolution LCD Screen
- Uses Canon EF Lenses
- CF, MD Card Slot
- Dust and Weather Resistant
- Self-Cleaning Sensor
- 3.9 fps Burst Mode
- 9-point AF Sensor Array
- ISO Range 50-25600



Body Only..... #CAE5D2
Kit with 24-105mm IS..... #CAE5D224105

21 Mega Pixels

Canon EOS-7D DSLR

- Record HD Video • 3" LCD
- Uses Canon EF Lenses
- CF, MD Card Slot
- Dust and Weather Resistant
- Selectable Video Exposure and Frame Rates
- 19-Point, All Cross-Type AF System
- ISO 100-6400 (expandable to 12800) • 8 fps Burst Mode



Body Only..... #CAE7D
Kit with 28-135mm IS..... #CAE7D28135

18 Mega Pixels

Canon EOS-1D Mark IV DSLR

- HD Video Recording
- Selectable Video Exposure + Frame Rates
- Self-Cleaning Sensor
- 3" LCD Monitor
- Uses Canon EF Lenses
- SD/SDHC & CF card slots
- 10 fps Burst Mode
- Dust and Weather Resistant
- 45 Point AF System
- High Sensitivity (ISO 102,400)



Body Only..... #CAE1D4*

16 Mega Pixels

▶ Canon SLR Lenses and Flashes

CALL FOR AVAILABLE REBATES

IMP		USA		IMP		USA		IMP		USA	
EOS Flash System (USA)				EF Lenses				EF "L" Lenses			
270EX.....	—	\$144.00		35/2 (52e).....	\$309.00	\$329.00		85/1.2 USM II (72e).....	\$1,949.00	\$1,970.00	
430EX II.....	—	\$280.00		50/1.8 (52e).....	\$94.95	\$99.95		100/2.8 IS USM Macro (67e).....	—	\$944.00	
580EX II.....	—	\$445.00		50/2.5 Macro (52e).....	\$259.95	\$265.00		135/2.0 USM (72e).....	\$980.00	\$999.95	
MR-14EX Ringlight.....	—	\$494.00		50/1.4 USM (58e).....	\$339.00	\$349.00		180/3.5 USM Macro (72e).....	\$1,360.00	\$1,370.00	
MT-24EX Twin Flash.....	—	\$726.95		MP-E 65/2.8 1x-5x Macro (58e).....	\$919.00	\$929.00		200/2.8 USM (72e).....	\$749.00	\$759.00	
EF-S Lenses for Digital Only				85/1.8 USM (58e).....	\$369.95	\$379.95		200/2.0 IS USM (52e).....	\$5,199.00	\$5,300.00	
Compatible with the 20D, 30D, 40D, 50D				100/2 USM (58e).....	\$429.95	\$434.95		300/4.0 IS USM (77e).....	\$1,259.00	\$1,269.00	
& Digital Rebel only				100/2.8 USM Macro (58e).....	\$509.00	\$519.00		300/2.8 IS USM (52e rear).....	CALL	CALL	
60/2.8 USM Macro (52e).....	\$399.00	\$422.00		135/2.8 (52e).....	\$484.00	\$494.00		400/5.6 USM (77e).....	\$1,199.00	\$1,229.00	
10-22/3.5-4.5 USM (77e).....	\$739.00	\$770.00		28-135/3.5-5.6 IS USM (72e).....	\$399.95	\$409.95		400/2.8 IS (52e rear).....	CALL	CALL	
15-85/3.5-5.6 IS USM (72e).....	—	\$720.00		70-300/4-5.6 IS USM (58e).....	\$529.00	\$549.00		500/4 IS USM (52e rear).....	\$6,049.00	\$6,140.00	
17-55/2.8 IS USM (67e).....	\$1,040.00	\$1,060.00		70-300/4.5-5.6 DO IS USM (58e).....	\$1,229.00	\$1,250.00		600/4.0 IS (52e rear).....	\$7,900.00	\$8,050.00	
17-85/4-5.6 IS USM (67e).....	CALL	CALL		75-300/4.0-5.6 III (58e).....	\$154.95	\$159.95		16-35/2.8 USM II (82e).....	\$1,499.00	\$1,520.00	
18-55/3.5-5.6 IS (58e).....	\$159.95	\$170.00		75-300/4.0-5.6 III USM (58e).....	\$189.95	\$200.00		17-40/4.0 USM (77e).....	\$729.00	\$750.00	
18-135/3.5-5.6 IS (67e).....	\$429.95	\$450.00		TS-E MF Lenses				24-70/2.8 USM (77e).....	\$1,329.00	\$1,349.00	
18-200/3.5-5.6 IS (72e).....	\$574.95	\$595.00		17/4.0 "L".....	\$2,179.00	\$2,200.00		24-105/4 IS USM (77e).....	\$1,049.00	\$1,059.00	
55-250/4.0-5.6 IS USM (58e).....	CALL	CALL		24/3.5 "L" II.....	CALL	\$1,969.00		28-300/3.5-5.6 IS USM (77e).....	\$2,399.00	\$2,420.00	
EF Lenses				45/2.8.....	\$1,210.00	\$1,229.00		70-200/4.0 USM (67e).....	\$639.00	\$649.00	
15/2.8.....	CALL	CALL		90/2.8.....	\$1,199.00	\$1,210.00		70-200/4.0 IS USM (77e).....	\$1,189.00	\$1,210.00	
20/2.8 USM (72e).....	\$459.95	\$469.95		EF "L" Lenses				70-200/2.8 USM (77e).....	\$1,289.00	\$1,300.00	
24/2.8 (58e).....	\$319.95	\$329.95		14/2.8 USM II.....	\$2,100.00	\$2,120.00		70-200/2.8 IS USM (77e).....	CALL	CALL	
28/2.8 (52e).....	\$244.95	\$249.00		24/1.4 II (77e).....	\$1,579.95	\$1,599.00		100-400/4.5-5.6 IS USM (77e).....	\$1,589.00	\$1,610.00	
28/1.8 USM (58e).....	\$449.00	\$459.00		35/1.4 USM (72e).....	\$1,349.95	\$1,369.95		1.4x II Teleconverter.....	\$299.00	\$309.00	
				50/1.2 USM (72e).....	\$1,449.00	\$1,459.00		2x II Teleconverter.....	\$299.00	\$309.00	

USA = Imported & Warrantied by Canon USA

IMP = Imported & Warrantied by B&H (not qualified for Canon USA Rebates & Warranties)

Canon

580 EX II
Shoe Mount Flash

- Dust- & water-resistance
- Guide No. 190'
- Metal Hot Shoe
- E-TTL II, E-TTL, TTL & Manual
- Bounce & Swivel Head
- Zoom Head (24-105mm)
- Weight 13.2 oz



Canon

10-22mm f/3.5-4.5 EF-S USM
Digital Lens

- Designed exclusively for Digital SLRs
- 35mm equivalent 16-35mm
- Min. Focus 9.5"
- 3 aspherical lens elements
- 3.5-27 f/Stop Range
- 77mm filter diameter
- Weight 13.6 oz



Canon

24-70mm f/2.8 EF "L" USM
Zoom Lens

- Sealed and gasketed against dust and moisture
- Internal Focusing
- UD Element
- Two Aspherical Elements
- 2.8-22 f/Stop Range
- Focus 1.25' to Infinity
- 77mm filter diameter
- Weight 33.6 oz



Canon

70-200mm f/2.8 EF "L" IS II USM
Telephoto-Zoom Lens

- Improved Optical Image Stabilization provides up to 4 stops correction
- Min. Focus 3.9'
- Dust- & moisture-resistant
- 77mm filter diameter
- 52.56 oz



Nikon. D3000 DSLR

- Self-Cleaning Sensor
- 3" LCD Monitor
- Accepts Nikon AF Lenses (1.5x factor)
- ISO 100-1600
- Fast Shutter Response
- SD, SDHC Card Slot
- In-camera Editing
- 3 fps Burst Mode
- 11-point Autofocus System
- Nikon Inc. limited warranty included

Kit with 18-55mm VR DX#NID30001855



Nikon
TOTAL IMAGING SYSTEM DEALER
10 Mega Pixels

Nikon. D3100 DSLR

- HD 1080p Video w/ Sound & Autofocus
- 3" LCD • Live View
- Uses Nikon AF Lenses (1.5x factor)
- SD/SDHC Card Slot
- 11-point Autofocus
- 3 Frames per Second Shooting
- ISO 100 to 3200 (Expand to 12800 Hi2)
- Self Cleaning Sensor
- Nikon Inc. limited warranty included

Kit with 18-55mm VR#NID31001855



Nikon
TOTAL IMAGING SYSTEM DEALER
14 Mega Pixels

Nikon. D90 DSLR

- D-Movie mode record 720p HD movie clips
- 3" LCD Monitor • Active D-Lighting
- Uses Nikon AF Lenses (1.5x factor)
- SD/SDHC Card Slot
- In-Camera Image Editing
- Scene Recognition System
- GPS geo-tagging • ISO 100-3200
- Self-Cleaning Sensor • 4.5 fps Burst
- Nikon Inc. limited warranty included

Body Only.....#NID90
Kit with 18-105mm VR.....#NID9018105



Nikon
TOTAL IMAGING SYSTEM DEALER
12 Mega Pixels

Nikon. D300s DSLR

- Dust and Weather Resistant
- Self-Cleaning Sensor • 6 fps Burst
- HD Video Recording
- 3" LCD Monitor • Live View
- Accepts Nikon AF Lenses (1.5x factor) • Stereo Audio Input
- CF and SD/SDHC Card Slots
- 51-point AF with 3D focus tracking
- ISO Sensitivity from 200 to 3200
- Nikon Inc. limited warranty included

Body Only.....#NID300S
Kit with 18-200mm VR II.....#NID300S18200



Nikon
TOTAL IMAGING SYSTEM DEALER
12 Mega Pixels

Nikon. D700 DSLR

- Self Cleaning Sensor • 5 fps Burst
- FX-format CMOS (full frame)
- 3" VGA LCD Monitor • Live View
- 51-point AF System
- Uses Nikon AF Lenses
- CompactFlash Card Slot
- Dust and Water Resistant
- Active D-Lighting Mode
- HDMI Video Out • ISO 6400
- Nikon Inc. limited warranty included

Body Only.....#NID700
Kit with 24-120mm VR.....#NID70024120



Nikon
TOTAL IMAGING SYSTEM DEALER
12 Mega Pixels

Nikon. D3s DSLR

- RAW/JPEGs & 720p HD Video @ 24fps
- FX-format (full-frame) CMOS Sensor
- In-Camera RAW Processing
- 3" 920,000-Dot LCD with Live View
- Compatible with most Nikkor Optics
- Built Tough, Fully Weathersealed
- ISO Sensitivity up to 102,400
- Buffers Up to 48 RAW or 130 large JPEGs
- Dual CF Card Slots
- Nikon Inc. limited warranty included

Body Only.....#NID3S



Nikon
TOTAL IMAGING SYSTEM DEALER
12 Mega Pixels

► Nikon. SLR Lenses and Flashes

IMP		USA		IMP		USA		IMP		USA	
AF Flashes				D-Type AF Lenses				D-Type AF Lenses			
SB-400	CALL	CALL		14/2.8 D ED	CALL	\$1,649.95		300/4.0 D AF-S ED-IF (770)	\$1,199.95	\$1,349.95	
SB-600	CALL	CALL		16/2.8 D (390) with Hood	\$824.95	\$899.95		300/2.8 G AF-S VR (520-R)	CALL	CALL	
SB-900	CALL	CALL		20/2.8 D (620)	\$529.00	\$564.95		400/2.8 G AF-S VR ED (520)	CALL	CALL	
R1 Wireless Twin Flash	CALL	CALL		24/2.8 D (520)	\$344.95	\$359.95		500/4.0 G AF-S VR ED (520)	CALL	CALL	
R1C1 Wireless Twin Flash System	CALL	CALL		24/1.4 G AF-S ED (770)	\$2,129.95	\$2,199.95		600/4.0 G AF-S VR ED (520)	CALL	CALL	
				24/3.5 D ED PC-E (770)	\$1,929.95	\$1,989.95					
				28/2.8 D (520)	\$239.95	\$259.95		14-24/2.8 G AF-S ED-IF	\$1,559.95	\$1,784.95	
				35/2.0 D (520)	\$309.95	\$359.95		16-35/4.0 G AF-S ED VR (770)	\$1,074.95		
				45/2.8 D ED PC-E Micro (770)	\$1,799.95	\$1,849.95		17-35/2.8 D AF-S ED-IF (770)	\$1,449.95	\$1,759.95	
				50/1.8 D (520)	\$109.95	\$119.95		24-70/2.8 G AF-S ED-IF (770)	CALL	\$1,719.95	
				50/1.4 D (520)	\$274.95	\$329.95		24-85/2.8-4.0 D IF (720)	\$659.95	\$689.95	
				50/1.4 G AF-S (580)	CALL	CALL		24-120/4.0 G AF-S ED VR (770)	—	\$1,299.95	
				60/2.8 D Micro (620) (1:1)	\$419.95	\$459.95		28-300/3.5-5.6 G AF-S ED VR (770)	\$999.95	\$1,049.95	
				60/2.8 G AF-S ED Micro (620)	\$519.95	\$539.95		70-200/2.8 G AF-S ED-IF VR II (770)	CALL	CALL	
				85/1.8 D (620) with Hood	\$399.95	\$429.95		70-300/4.0-5.6 G (620)	\$129.95	\$154.95	
				85/1.4 D IF (770)	\$1,054.95	\$1,224.95		70-300/4.5-5.6 G AF-S VR (670)	\$474.95	\$519.95	
				85/1.4 G AF-S (770)	—	\$1,699.95		80-200/2.8 D with Collar (770)	\$1,029.95	\$1,099.95	
				85/2.8 PC-E Micro (770)	\$1,769.95	\$1,789.95		80-400/4.5-5.6 D VR (770)	\$1,449.95	\$1,649.95	
				105/2.8 G AF-S ED-IF VR Micro (620)	\$779.00	\$889.95		200-400/4 G AF-S ED-IF VR (520)	CALL	CALL	
				105/2.0 DC D with Hood (720)	\$999.95	\$1,079.95		TC-14E II (1.4x) Teleconverter	CALL	CALL	
				180/2.8 D ED-IF (720)	\$779.95	\$899.95		TC-17E II (1.7x) Teleconverter	CALL	CALL	
				200/4 D ED-IF Micro w/Case (620)	\$1,599.95	\$1,649.95		TC-20E III (2x) Teleconverter	CALL	CALL	
				200/2 G AF-S ED-IF VR (520)	\$3,999.00	\$4,799.00					

USA = Imported & Warranted by Nikon USA (AF lenses include 1 year warranty plus 4 years extended service coverage)

IMP = Imported & Warranted by B&H (not qualified for Nikon USA Rebates & Warranties)

Nikon. 24-70mm f/2.8 G AF-S ED-IF Zoom Lens

- Optimized for edge-to-edge sharpness on both the Nikon FX (full-frame) and DX-format image sensors
- Rugged construction, dust and moisture resistance
- Minimum focus 1.2'
- 77mm filter diameter
- Weight 32 oz



Nikon. 18-200/3.5-5.6 DX G VR II AF-S ED-IF Digital Lens

- Designed exclusively for Digital SLRs
- 35mm equiv. 27-300mm
- VR II Vibration Reduction
- SWM (Silent Wave Motor)
- 3.5-22 f/Stop Range
- Focus 1.6' to Infinity
- 72mm filter diameter
- Weight 19.8 oz



Nikon. 70-200/2.8 G AF-S ED-IF VR II Telephoto-Zoom Lens

- VR II Vibration Reduction
- 3.5-22 f/Stop Range
- SWM (Silent Wave Motor)
- Close Focusing to 4.6'
- 77mm filter diameter
- Weight 3.2 lbs



Nikon. SB-900 Speedlight i-TTL Shoe Mount Flash

- Guide No. 131'
- Recycling Time 4.5 Secs
- Bounce & Swivel Head
- Zoom Head (17-200mm)
- Stroboscopic Effect
- AF-Assist Illuminator
- Safety lock on flash shoe
- Weight 14.6 oz



The Professional's Source™

bhphotovideo.com



800-947-9980
212-444-6666

Fax:
212-239-7770

Quick Dials

Digital SLR's and Accessories..... #64

We Buy, Sell and Trade
Used Equipment

Store & Mail Order Hours:
Sunday 10-5 • Mon.-Thurs. 9-7
Friday 9-1 • Saturday Closed

Free Interactive
HDSLR GUIDE

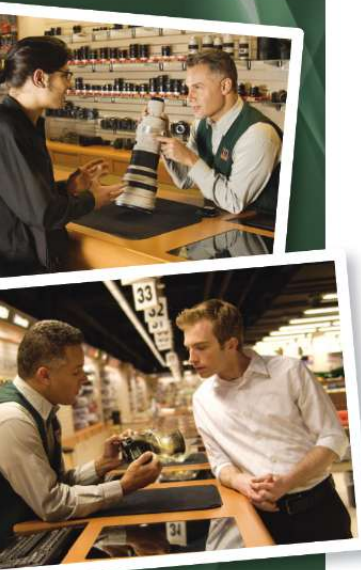
bhphoto.com/HDSLRhub



The Professional's Source™

When in New York,
Visit our SuperStore

420 Ninth Ave.
Corner of 34th Street
New York, N.Y. 10011



- ▶ Over 70,000 square feet of the latest gear
- ▶ The most knowledgeable Sales Professionals
- ▶ Hands-on demos
- ▶ Convenient free parking available

Subscribe to our
free Catalog
bhphoto.com/catalog
212-444-6633



TAMRON AF LENSES

Six-Year Warranty

Manual Focus Lenses
In Stock - Call for Prices

Di - for both digital & film SLR cameras • Di-II - for Digital SLRs Only

C = Canon N = Nikon P = Pentax SM = Sony/Minolta ** Price After Rebate

	SKU #	Available for	Rebate	Price
Di-I	60/2.0 LD IF Macro (55ø)	#TA6020DI* C, N, SM	\$50	\$474.00**
Di-I	90/2.8 Macro (55ø)	#TA9028M* C, N, P, SM	\$50	\$449.00**
Di-I	180/3.5 LD IF Macro (72ø)	#TA18035* C, N, SM	\$50	\$689.00**
Di-II	10-24/3.5-4.5 (77ø)	#TA102435* C, N, P, SM	\$50	\$449.00**
Di-II	17-50/2.8 XR LD IF Aspherical (67ø)	#TA175028* C, N, P, SM	\$45	\$454.00**
Di-II	17-50/2.8 XR VC LD IF Asph. (67ø)	#TA175028*Q C, N	\$70	\$579.00**
Di-II	18-200/3.5-6.3 (62ø)	#TA1820035* C, N, P, SM	\$60	\$239.00**
Di-II	18-250/3.5-6.3 (62ø)	#TA1825035* C, N	—	\$299.00
Di-II	18-270/3.5-6.3 VC	#TA1827035* C, N	\$80	\$549.00**
Di	28-75/2.8 XR (67ø)	#TA287528* C, N, P, SM	—	\$499.00
Di	28-80/3.5-5.6 (58ø)	#TA288035* C, N, P, SM	—	\$89.00
Di	28-200/3.8-5.6 Asp XR IF Macro (62ø)	#TA2820038* C, N, P, SM	\$50	\$249.00**
Di	28-300/3.5-6.3 XR LD (62ø)	#TA2830035X* C, N, P, SM	\$50	\$369.00**
Di	28-300/3.5-6.3 XR VC (62ø)	#TA2830035* C, N	—	\$629.00
Di-II	55-200/4.5-5.6 LD Macro (52ø)	#TA552004* C, N, SM	—	\$199.00
Di	70-200/2.8 LD IF Macro (77ø)	#TA7020028M* C, N, P, SM	—	\$769.00
Di	70-300/4.5-5.6 VC USD	#TA703000* C, N, SM	\$50	\$399.00**
Di	75-300/4.0-5.6 LD (62ø)	#TA753004* C, N, P, SM	—	\$164.00
Di	200-500/5.6-6.3 LD IF (86Cø)	#TA2005005* C, N, SM	\$30	\$919.00**

Tokina AF LENSES

DX - for Digital SLRs Only (** Also Available for Sony Alpha DSLR)

	Canon EOS	Nikon AF	Price
DX	35/2.8 Pro Macro (55ø)	#T03528PDXC	\$279.00
DX	10-17/3.5-4.5 ATX Fisheye	#T0101735CAF	\$75.95
DX	11-16/2.8 Pro (77ø) **	#T0111628PDXC	\$599.95
DX	12-24/4.0 Pro II (77ø)	#T012244DXC	\$499.95
DX	16-50/2.8 Pro (77ø)	#T016502DXNA	\$549.00
DX	16.5-135/3.5-5.6 (67ø)	#T016.513535C	\$449.00

SIGMA AF LENSES & FLASHES

DC - for Digital SLRs Only • DG - Optimized for Digital SLRs

	H - HSM Model with Canon, Nikon, Sigma R - Rear Slip-in Gelatin Filter Slot	Canon	Nikon	Olympus	Pentax	Sigma	Sony/Minolta	Price
DC	4.5mm f/2.8 EX Circular Fisheye HSM ^R	#SI4528EXDC	#SI4528EXDCN	—	#SI4528EXDCP	#SI4528EXDCSI	#SI4528EXDSO	\$999.00
DG	8/3.5 EX Circular Fish-Eye ^R	#SI835CA	#SI835NA	—	—	#SI835SI	—	\$899.00
DG	10mm f/2.8 EX Fisheye HSM ^R	#SI1028EXDC	#SI1028EXDCN	—	#SI1028EXDCP	#SI1028EXDCSI	#SI1028EXDCSO	\$649.00
DC	15/2.8 EX Diagonal Fish-Eye ^R	#SI1528DGC	#SI1528DGN	—	#SI1528DGP	#SI1528DGS	#SI1528DGM	\$609.00
DG	24/1.8 EX DF Aspherical Macro (77ø)	#SI2418MCAF	#SI2418MNAF	#SI2418MOAF	#SI2418MPAF	#SI2418MSA	#SI2418MSAF	\$449.00
DG	28/1.8 EX DF Aspherical Macro (77ø)	#SI2818MCAF	#SI2818MNAF	—	#SI2818MPAF	#SI2818MSA	#SI2818MSAF	\$349.00
DC	30mm f/1.4 EX HSM (62ø)	#SI3014DCCAF	#SI3014DCNAF	#SI3014DCOAF	#SI3014DCPAF	#SI3014DCSA	#SI3014DCMAF	\$439.00
DG	50mm f/1.4 EX (77ø) ^R	#SI5014C	#SI5014N	#SI5014OL	#SI5014PE	#SI5014SI	#SI5014SOM	\$499.00
DG	50/2.8 EX Macro (55ø)	#SI5028MDGCAF	#SI5028MDGNAF	—	#SI5028MDGPAF	#SI5028MDGSA	#SI5028MDGM	\$299.00
DG	85/1.4 EX HSM (77ø)	#SI8514C	#SI8514N	—	#SI8514P	#SI8514SI	#SI8514S	\$899.00
DG	105/2.8 EX Macro (58ø)	#SI10528MDGCA	#SI10528MDGNA	#SI10528MDGOA	—	#SI10528MDGSA	#SI10528MDGMA	\$479.00
DG	150/2.8 EX APO Macro HSM (72ø)	#SI15028AMDGC	#SI15028AMDGN	#SI15028AMDGO	—	#SI15028AMDGS	—	\$729.00
DC	300/2.8 APO EX HSM	#SI30028DGC	#SI30028DGN	—	#SI30028DGP	#SI30028DGS	#SI30028DGM	\$2,999.00
DC	8/16/4.5-5.6 HSM	#SI8164556C	#SI8164556N	—	#SI8164556PE	—	#SI8164556SO	\$699.00
DC	10-20/4.5-5.6 EX HSM (77ø)	#SI102045DCAF	#SI102045DCAF	#SI102045DOLP	#SI102045DP	#SI102045DSA	#SI102045DSAF	\$479.00
DC	10-20/3.5 EX HSM (82ø)	#SI102035C	#SI102035N	—	#SI102035P	#SI102035SI	#SI102035S	\$649.00
DG	12-24/4.5-5.6 EX ^R	#SI122445CAF	#SI122445NAF	—	#SI122445PAF	#SI122445SA	#SI122445MAF	\$859.00
DC	17-50/2.8 EX DC OS (77ø)	#SI175028CA	#SI175028CN	—	—	—	#SI175028SO	\$669.00
DC	17-70/2.8-4.5 Macro (72ø)	#SI177028DCCA	#SI177028DCN	—	—	#SI177028DCSA	#SI177028DCMA	\$369.00
DC	17-70/2.8-4.0 OS Macro HSM (72ø)	#SI177028DCC	#SI177028DCNQ	—	#SI177028DCP	#SI177028DCSI	#SI177028DCSO	\$449.00
DC	18-50/2.8-4.5 OS (67ø)	#SI185028DCC	#SI185028DCN	—	#SI185028DOP	#SI185028DOSG	#SI185028DOS	\$199.00
DC	18-50/2.8 EX Macro (72ø)	#SI185028MCAF	#SI185028MCHN	#SI185028MOAF	#SI185028MPAF	#SI185028MSAF	#SI185028MSAQ	\$419.00
DC	18-125/3.8-5.6 OS (Optical Stabilizer) (67ø) ^R	#SI1812535OSC	#SI1812535OSN	—	#SI1812535OSP	#SI1812535OSI	#SI1812535OSS	\$339.00
DC	18-200/3.5-6.3 IF Aspherical (62ø)	#SI1820035C	#SI1820035GN	—	#SI1820035PAF	#SI1820035SA	#SI1820035MAF	\$249.00
DC	18-200/3.5-6.3 OS (Optical Stabilizer) (72ø)	#SI1820035C	#SI1820035N	—	—	#SI1820035S	—	\$369.00
DC	18-250/3.5-6.3 OS HSM (72ø)	#SI1825035C	#SI1825035N	—	#SI1825035P	#SI1825035SI	#SI1825035CSN	\$479.00
DG	24-70/2.8 EX Aspherical (82ø)	#SI247028DGA	#SI247028DGNA	—	#SI247028DGP	#SI247028DGS	#SI247028DGM	\$569.00
DC	24-70/2.8 EX IF HSM (82ø)	#SI247028C	#SI247028NF	—	#SI247028P	#SI247028S	#SI247028SM	\$899.00
DC	50-150/2.8 EX HSM II (67ø)	#SI5015028EXC	#SI5015028EXN	—	#SI5015028PAF	#SI5015028EXS	#SI5015028MAF	\$749.00
DC	50-200/4.5-6.3 OS HSM (55ø)	#SI5020045DCC	#SI5020045DON	—	#SI5020045DOP	#SI5020045DSG	#SI5020045DOS	\$159.00
DC	50-500/4.5-6.3 APO OS HSM (95ø)	#SI505004563C	#SI505004563N	—	#SI505004563P	#SI505004563SI	#SI505004563SM	\$1,599.00
DG	70-200/2.8 EX Macro II HSM (77ø)	#SI7020028C	#SI7020028N	—	#SI7020028PA	#SI7020028SA	#SI7020028SO	\$799.00
DG	70-200/2.8 EX OS HSM (77ø)	#SI7020028CQ	#SI7020028NI	—	#SI7020028P	—	#SI7020028SOQ	\$1,699.00
DG	70-300/4.5-5.6 DL Macro Super II (58ø)	#SI703004SCAF	#SI70300456N	—	#SI703004PAF	#SI703004SA	#SI703004MAF	\$159.00
DG	70-300/4.5-5.6 APO Macro Super II (58ø)	#SI703004DGA	#SI70300456AN	—	#SI703004DGP	#SI703004DGS	#SI703004DGM	\$209.00
DG	70-300/4.5-6.3 OS (62ø)	#SI7030045C	#SI7030045N	—	#SI7030045P	#SI7030045SI	#SI7030045SM	\$399.00
DG	120-300/2.8 EX APO IF HSM (105ø)	#SI120300DGA	#SI120300DGN	—	—	#SI120300DGS	—	\$2,999.00
DG	150-500/5.6-6.3 APO OS HSM	#SI150500C	#SI150500N	—	#SI150500P	#SI150500SI	#SI150500SM	\$999.00
DG	1.4x EX APO Tele-Converter	#SI1.4XDGCAF	#SI1.4XDGNAF	—	#SI1.4XDGPAF	#SI1.4XDGSA	#SI1.4XDGMAF	\$249.00
DG	2x EX APO Tele-Converter	#SI2XDGCAF	#SI2XDGNAF	—	#SI2XDGPAF	#SI2XDGSA	#SI2XDGMAF	\$299.00
DG	EF-530 ST Flash	#SIEF530STC	#SIEF530STN	—	#SIEF530STP	#SIEF530STS	#SIEF530STSM	\$149.00
DG	EF-530 Super Flash	#SIEF530C	#SIEF530N	—	#SIEF530P	#SIEF530S	#SIEF530SM	\$219.00
DG	EM-140 TTL Ringlight	#SIEM140DGC	#SIEM140DGN	—	#SIEM140DGP	#SIEM140DGS	#SIEM140DGM	\$379.00

SIGMA
18-200mm f/3.5-6.3 DC OS
Digital Lens

- Designed exclusively for Digital SLRs
- Focus 1.5' to Infinity
- Mag. ratio of 1:3.9
- 72mm filter diameter
- Weight 21.6 oz



SIGMA
18-50mm f/2.8 EX Macro DC
Digital Lens

- Designed exclusively for Digital SLRs
- Minimum focus 7.9"
- Super Multi Layer (SML)
- 72mm filter diameter
- Weight 15.9 oz



TAMRON
60mm f/2.0 LD IF Macro Di-II
Digital Lens

- Designed exclusively for Digital SLRs
- Minimum Focus 9.1"
- 55mm filter diameter
- Weight 14.1 oz



Tokina
11-16mm f/2.8 Pro DX AT-X
Fisheye Digital Lens

- Designed exclusively for Digital SLRs
- WR (Water Repellent) coating
- Minimum Focus 1'
- Magnification ratio 1:11.6
- Weight 1.2 lb



BAGS & CASES

DPS 3N1 Sling/Backpacks

3N1 bags providing fast equipment access and ultimate freedom allowing 3 carrying options in one while morphing from sling to backpack and back again fast and easy.

	10 Small	20 Med.	30 Large
SKU #	#KA31SBS	#KA31SBM	#KA31SBL
Color	Black	Black	Black
SLRs	1	1	1
Lens/Flash	2	4	6
Accessories	Yes	Yes	Yes
Price	\$89.95	\$99.90	\$129.90



Lowepro Fastpack Backpacks

Protects your equipment and provides storage for accessories. Side-entry compartments let you quickly access gear and accessories, even while you're on the move.

	200	250	350
SKU #	#LOFP200*	#LOFP250*	#LOFP350*
Color	Black, Blue, Red	Black, Blue, Red	Black, Blue, Red
SLRs	1	1	1
Lens/Flash	3	4	4
Laptop	No	15.4"	17.4"
Price	\$74.95	\$89.95	\$112.95



tamrac Aero Backpacks

Speed Pack's Dual Entry System allows camera access via side door or front panel. Weatherproof exterior and foam padded interior compartments for a custom equipment fit.

	Speed Pack 75	Speed Pack 85
SKU #	#TA3375*	#TA3385*
Color	Black, Rust	Black, Rust
SLRs	1	1
Lens/Flash	3	4
Laptop	No	17"
Price	\$99.99	\$129.99



FILTERS

HOYA

B&H SPECIAL! Buy 3 or more Hoya Filters & Get 10% Off.

	52mm	58mm	67mm	72mm	77mm
UV, Skylight (1B)	\$13.35	\$14.85	\$22.35	\$34.35	\$38.85
UV, Skylight (1B) HMC	\$19.35	\$22.35	\$32.85	\$40.35	\$49.35
UV, Skylight (1B) Super HMC	\$26.85	\$35.85	\$41.85	\$52.35	\$56.85
Circular Polarizer	\$35.89	\$40.35	\$58.35	\$70.35	\$82.35
Circular Polarizer HMC	\$70.35	\$76.35	\$92.85	\$130.35	\$169.35
Circular Polarizer Ultra Thin Super HMC	\$74.85	\$83.85	\$101.85	\$149.85	\$187.35
"Moose" Warm Circular Polarizer	\$50.85	\$59.85	\$86.85	\$107.85	\$128.85
80A, B, C, 81A, B, C, 82A, B, C, 85, B, C	\$17.85	\$20.85	\$32.35	\$40.35	\$49.35
K2 Yel, X0 Yel/Gm, Grn X1, Or G, Red 25A	\$17.85	\$20.85	\$32.85	\$40.39	\$49.35
K2 Yel, X0 Yel/Gm, Grn X1, Or G, Red 25A HMC	\$23.89	\$26.85	\$38.85	\$46.35	\$56.85
Close Up Set	\$40.35	\$49.35	\$68.85	\$88.35	\$97.35
Intensifier - Blue, Green Field, Enhancement (Red)	\$38.35	\$49.35	\$62.85	\$70.35	\$83.85
Neutral Density 2x, 4x, 8x	\$17.85	\$20.85	\$32.85	\$40.35	\$49.35
Neutral Density 2x, 4x, 8x HMC	\$23.85	\$26.85	\$38.85	\$46.35	\$56.85
Star 6, Star 8	\$23.85	\$26.85	\$40.35	\$46.35	\$53.85

heliopan

Made exclusively with glass from Schott (Zeiss) the world's finest optical glass supplier.

	55mm	58mm	67mm	72mm	77mm
Skylight (1B), UV	\$39.99	\$41.99	\$62.99	\$77.99	\$89.99
Skylight (1B), UV SH-PMC	\$72.99	\$78.99	\$103.99	\$131.99	\$157.99
Circular Polarizer	\$109.99	\$116.99	\$145.99	\$173.99	\$187.99
Circular Polarizer SH-PMC	\$155.99	\$165.99	\$206.99	\$233.99	\$261.99
#5, #8, #11, #13, #15, #22, 81A, 81B, 81C	\$49.99	\$51.99	\$78.99	\$96.99	\$108.99
Digital Filter	\$176.99	\$180.99	\$222.99	\$261.99	\$301.99

FILM - B&W AND COLOR

COLOR PRINT FILM

	Kodak				FUJIFILM			
	Gold		Gold Max		IMP		Superia	
	GA 100	GB 200	GC 400		Imported from Europe	CA 200	CH 400	
135-24	2.19	2.49	1.99			1.99	1.99	
135-36	2.79	—	2.99			1.99	—	
	Portra		Ektar		USA			
	160NC	160VC	400NC	800	100	Pro	160C	160S
135-36	5.49	5.79	5.99	9.50	4.35		5.75	4.99
120 Roll	3.69	3.99	4.30	5.99	3.69		3.79	3.49
220 PP (5)	48.70	—	39.95	49.95	—		—	7.95

COLOR SLIDE FILM

	Kodak				FUJIFILM			
	Ektachrome Professional E Series				Fujichrome Sensia			
	100 VS	100 G	200		100	100	100	100
135-36	6.99	7.50	9.95		4.79	6.95	5.99	7.55
120 Roll	5.25	5.59	—		—	5.99	4.59	5.49
220 PP (5)	54.95	—	—		—	—	11.89	10.99

BLACK & WHITE PRINT FILM

	Kodak						Fujifilm					
	Plus-X	Tri-X	TMX	TMV	TMZ	BW	Pan F+	FP4+	HP5+	Delta Pro	XP-2 Super	
135-36	125	400	100	400	3200	400 CN	50	125	400	100	400	
120 Roll	4.25	3.45	3.99	3.75	7.25	4.29	5.69	5.09	3.89	5.31	5.52	
	4.99	3.75	3.95	3.59	—	—	4.21	3.97	3.58	3.90	4.12	

TRIPODS

GITZO Explorer Series

Six Layer, pultrusion (spun), 100% carbon fiber tubes, "G Lock" leg locks. Legs and center column. Can be locked at a wide range of angles making it the perfect wilderness field tripod. Requires Head.

	GT2531EX	GT2541EX
SKU #	#GIT2531EX	#GIT2541EX
Load Capacity	26.4 lbs	26.5 lbs
Max. Height	66.9"	64.6"
Folded Length	25.2"	21.3"
Weight	4.1 lbs	4.1 lbs
Price	\$674.90	\$724.90



Manfrotto 190X Series

Improved castings for reduced weight without compromising strength and stability. XB feature slow angle adapter, XProB features vertical/horizontal quick flip center column. Requires Head.

	190XDB	190XB	190XPROB
SKU #	#MA190XDB	#MA190XB	#MA190XPROB
Load Capacity	11 lbs	11 lbs	11 lbs
Max. Height	57.5"	57.1"	57.5"
Folded Length	21"	20.9"	22.4"
Weight	3.5 lbs	4 lbs	4 lbs
Price	\$104.90	\$139.90	\$149.90



Manfrotto 055X Series

Similar in design and features to the 190X series but with increased operating height & max load capacity. 055XB features low angle adapter, 055XProB features vertical/horizontal quick flip center column. Requires Head.

	055XDB	055XB	055XPROB
SKU #	#MA055XDB	#MA055XB	#MA055XPROB
Load Capacity	15.4 lbs	15.4 lbs	15.4 lbs
Max. Height	70"	70"	70.3"
Folded Length	24"	24"	25.7"
Weight	4.6 lbs	5 lbs	5.3 lbs
Price	\$149.90	\$174.90	\$179.90



SINGH-RAY Filters in stock

B+W

B&H SPECIAL! Buy 3 or more B+W Filters & Get 5% Off.

	55mm	58mm	67mm	72mm	77mm
UV	\$21.00	\$23.00	\$33.50	\$42.00	\$47.50
UV Multi-Coated	\$38.50	\$38.50	\$52.00	\$64.50	\$88.00
Circular Polarizer	\$63.00	\$65.00	\$81.50	\$93.50	\$105.00
Circular Polarizer Multi-Coated	\$90.00	\$93.50	\$117.00	\$134.50	\$160.50
81A, B, KR3, 6, 12, 15	\$26.50	\$26.50	\$36.00	\$42.00	\$49.00
KB1.5, 3, 6, 12, 15, 20	\$28.50	\$28.50	\$35.00	\$40.50	\$47.50
#021, 023, 041, 060, 061, 090	\$24.50	\$24.50	\$36.00	\$42.00	\$49.00
Graduated (N.D. & Colors)	\$46.50	\$47.50	\$58.50	\$68.00	\$82.50
ND .9, 1.8, 3.0, 4.0, 6.0	\$42.00	\$42.00	\$67.50	\$84.00	\$94.50
Close-Up Lenses 0.25 - 5.0	\$24.50	\$24.50	\$36.00	\$42.00	\$49.00

TIFFEN

Ten -Year Warranty Made in USA Multicoated Filter Technology

	52mm	58mm	62mm	72mm	77mm
812 Warming	\$64.95	\$74.95	\$99.95	\$109.95	\$129.95
Grad ND 0.6	\$74.95	\$84.95	\$109.95	\$119.95	\$139.95
Circular Polarizer	\$109.95	\$129.95	\$159.95	\$199.95	\$219.95
Ultra Clear	\$49.95	\$59.95	\$69.95	\$74.95	\$79.95
Haze 86	\$54.95	\$64.95	\$74.95	\$84.95	\$99.95
ND 1.2	\$64.95	\$74.95	\$99.95	\$109.95	\$129.95
ND 0.6	\$64.95	\$74.95	\$99.95	\$109.95	\$129.95
Soft FX3	\$74.95	\$84.95	\$109.95	\$119.95	\$139.95
Star 4 pt 2	\$64.95	\$74.95	\$99.95	\$109.95	\$129.95



The Professional's Source™

bhphotovideo.com



800-947-9980
212-444-6666

Fax:
212-239-7770

Quick Dials

Bag and Cases	#73
Triods	#73
Filters	#73
Film/Processing	#71

We Buy, Sell and Trade
Used Equipment

Store & Mail Order Hours:
Sunday 10-5 • Mon.-Thurs. 9-7
Friday 9-1 • Saturday Closed



bhphoto.com/HDSLRhub

"The brilliance of the sterling silver setting pairs nicely with the superior fire of the DiamondAura® in the Stauer 3-Stone Classique Ring"

**— JAMES T. FENT, Stauer
GIA Graduate Gemologist**



Receive these scintillating DiamondAura® Classique sterling silver stud earrings **FREE!**

Read details below.

The Fifth C?

Cut, Color, Carat, Clarity...Chemistry?

Is it possible that the mind of a scientist can create more beauty and romance than Mother Nature? The laboratories at DiamondAura® were created with one mission in mind: *Create brilliant cut jewelry that allows everyone to experience more clarity, more scintillation and larger carat weights than they have ever experienced.* So, we've taken 2 ½ carats of our lab-created DiamondAura® and set them in the most classic setting—the result is our most stunning, fiery, faceted design yet! In purely scientific measurement terms, the refractory index of the DiamondAura is very high, and the color dispersion is **actually superior** to mined diamonds.

Perfection from the laboratory.

We named our brilliant cut stones DiamondAura, because, "they dazzle just like natural diamonds but without the outrageous cost." We will not bore you with the incredible details of the scientific process,

COMPARE FOR YOURSELF AT 2 ½ CARATS		
	Mined Flawless Diamond	DiamondAura® Compares to:
Hardness	Cuts Glass	Cuts Glass
Cut (58 facets)	Brilliant	Brilliant
Color	"D" Colorless	"D" Colorless
Clarity	"IF"	Clear
Dispersion/Fire	0.044	0.066
2 ½ c.t.w. ring	\$60,000+	\$145

but will only say that it involves the use of rare minerals heated to an incredibly high temperature of nearly 5000°F. This can only be accomplished inside some very modern and expensive laboratory equipment. After several additional steps, scientists finally created a clear marvel that looks even better than the vast majority of mined diamonds. According to the book *Jewelry and Gems—the Buying Guide*, the technique used in DiamondAura offers, "The best diamond simulation to date, and even some jewelers have mistaken these stones for mined diamonds."

The 4 C's. Our DiamondAura 3-Stone Classique Ring retains every jeweler's specification: color, clarity, cut, and carat weight. The transparent color and clarity of DiamondAura emulate the most perfect diamonds—D Flawless, and both are so hard they will cut glass.

The brilliant cut maximizes the fire and radiance of the stone so that the light disperses into an exquisite rainbow of colors.

Rock solid guarantee. This .925 sterling silver ring is prong-set with a 1 ½ carat DiamondAura round brilliant in the center, showcased between two DiamondAura round brilliants of ½ carat each. Adding to your 4 C's, we will include the DiamondAura stud earrings for FREE! Try the DiamondAura 3-Stone Classique Ring for 30 days. If for any reason you are not satisfied with your purchase, simply return it to us for a full refund of the purchase price and keep the stud earrings as our gift.

Not Available in Stores

DiamondAura® 3-Stone Classique Ring

(2 ½ c.t.w.) • \$145 + S&H

FREE stud earrings with purchase of Classique Ring—a \$59.95 value!

Available in ring sizes 5-10

Call to order toll-free, 24 hours a day, 7 days a week.

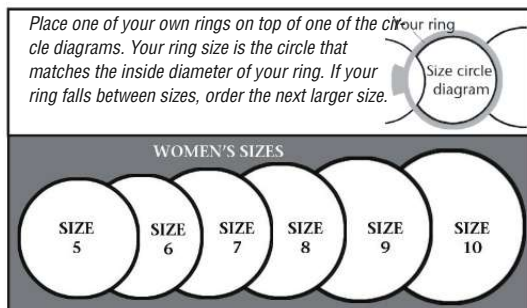
1-888-201-7095

Promotional Code DAR811-02

Please mention this code when you call.

Stauer
HERITAGE OF ART & SCIENCE

14101 Southcross Drive W.,
Dept. DAR811-02
Burnsville, Minnesota 55337
www.stauer.com



 **1.888.888.9083**

A collection of professional photography equipment is displayed on a reflective black surface. In the background, a Profoto D4 power pack is visible on the left, featuring four digital displays showing 3.3, 5.2, 3.0, and 6.9. To its right is a large white lens mount. In the center foreground, a Phase One camera is shown. To its right is a Canon EOS 5D Mark II camera with a 24-105mm lens. Further right is a Nikon D5 camera. On the far right, two lenses are stacked vertically: a Canon EF 100mm f/2.8L IS II macro lens and a Nikon 105mm f/1.4E-ED lens. A black camera grip with a 'H' logo is visible on the far left.

CANON

EOS-60D Starter Kit

Includes: Canon EOS-60D body, 18-135mm IS Lens, Calumet LP-E6 Replacement Battery, 4GB SD Card, Calumet 67mm UV MC, Calumet 8x12 Lens Cleaning Cloth, Calumet CV283 Camera Bag

EC2761K

\$1,499.99



CANON

EOS Rebel T2i 2-Lens Kit

Includes: Canon T2i body, Canon 18-55mm IS Lens, Canon EF-S 55-250mm f/4-5.6 IS Lens, Canon LP-E8 Li-Ion Battery, 4GB SD Card, Calumet 58mm UV MC, Calumet 8x12, Lens Cleaning Cloth, Calumet CV283 Camera Bag

EC2851K3

\$1249.99



CANON

EOS-7D Kit with 18-135mm

Includes: Canon EOS-7D body, Canon 18-135mm Lens, Canon EW-73B Lens Hood, 67mm UV Filter, LP-E6 Battery, 4GB CF Card, 3-Year Extended Warranty, Calumet CV408 Camera Bag

EC27102KW

\$1999.99



CANON

Powershot S95

with 4GB SD & Warranty

Includes: Canon Powershot S95, 4GB SD Card, 3-Year Extended Warranty

EC22486KW

\$449.99

Was \$ 476.97



CANON

SD4000 IS

with 4GB SD & Warranty

Includes: Canon Powershot SD4000 IS (Black), 4GB SD Card 3-Year Extended Warranty

EC23300KW

\$329.99

Also available in Silver (EC23301KW) and Red (EC23302KW)



CANON

G12 Kit

with 4GB SD Card, Case & Warranty

Includes: Canon Powershot G12, 4GB SD Card, Calumet PSU-65 Case, 3-Year Extended Warranty

EC22375KW

\$529.99

Was \$594.96



CANON

Powershot SX30IS

w/4GB SD & Warranty

Includes: Canon Powershot SX30 IS, 4GB SD Card 3-Year Extended Warranty

EC22494KW

\$449.99

Was \$ 506.97



CANON

Powershot SD1400IS (Orange)

with 4GB SD & Warranty

Includes: Powershot SD1400IS (Orange), 4GB SD Card, 3-Year Extended Warranty

EC23008KW

\$239.99

Also available in Black (EC230081KW), Silver (EC230082KW) and Pink (EC230083KW)



CANON

Pro9000 Mark II Printer

with Additional Ink Set

Includes: Replacement 8 color multipack of CLI-8 ink tanks for use with the Canon Pro9000 printer.

EC17921K1

\$559.99



CANON

HF S21 Vixia HD Camcorder

Features 64GB internal flash drive and two SD memory card slots

EC7186

\$1399.99



CANON

HF M32 Vixia HD Camcorder

Features a 64GB internal flash drive and an SD memory card slot.

EC72995

\$999.99




calumetphoto.com

1-888-888-9083

Use code POPSHIP for free ground shipping!

NIKON**D3000 Starter Kit**

with 18-55mm f/3.5-5.6G VR Lens
Includes: D3000 body, 18-55mm Lens, 3-Year Extended
Warranty, 4GB SDHC Card, CV283 Camera Bag.

NZ0300KW

\$559.99**NIKON****D5000 Starter Kit**

with 18-55mm f/3.5-5.6G VR Lens
Includes: D5000 body, 18-55mm Lens, 3-Year Extended
Warranty, 4GB SDHC Card, CV283 Camera Bag.

NZ0501KW

\$769.99**NIKON****D7000**

with 18-55mm f/3.5-5.6G VR Lens

NZ0701

\$1499.95**NIKON****D3100**

with 18-55mm
f/3.5-5.6G VR Lens

NZ0310

\$699.95**NIKON****Nikon S80 Coolpix (Red)**

NZ20711

\$329.95

Also available in Silver/Brown (NZ20712),
Black (NZ20713), Blue (NZ20714), Pink
(NZ20715), Gold (NZ20716)

**NIKON****Coolpix S6000 (silver)**

with 4GB Card & Warranty
Includes: Nikon Coolpix S6000, 3-Year
Extended Warranty, 4GB SDHC Card.

NZ2493KW

\$199.99

Kits also available in Black (NZ24934KW),
Red (NZ24935KW) and Bronze (NZ24936KW).

NIKON**Coolpix P100**

with 4GB Card & Warranty
Includes: Nikon Coolpix P100, 3-Year
Extended Warranty, 4GB SDHC Card.

NZ40191KW

\$399.99**NIKON****Coolpix L110**

with 4GB Card & Warranty
Includes: Nikon Coolpix L110, 3-Year
Extended Warranty, 4GB SDHC Card.

NZ31703KW

\$279.99**NIKON****NEW!****Coolpix P7000**

NZ40163

\$499.95**Coolpix S8100**

NZ24951

\$299.95**EPSON****Stylus Photo R1400 Printer**

- Print 13 x 19" enlargements fast
- High-capacity Claria ink cartridges
- Automatic color and lighting correction
- Direct printing onto CDs/DVDs

IM50185

\$299.99
**Prints
Directly on
CDs/DVDs**
EPSON**Stylus Photo R1900 Printer**

- UltraChrome Hi-Gloss 2 pigment ink
- Thick paper support for fine art media
- Roll paper support for printing panoramas

IM50154

\$549.99
**Photo and
Matte Black
Inks!**
EPSON**Stylus Photo R2880 Printer**

- UltraChrome K3 with Vivid Magenta
- Advanced Black-and-White Photo Mode
- Panoramas up to 13" x 44" long!

IM50159

\$799.99
**Exhibition
Quality
Prints**

CALL OR VISIT OUR WEBSITE FOR THE LATEST PRICING AND REBATE INFORMATION

CANON



Prime Lenses

Description	Part No.	Price
EF 14mm f/2.8L II USM	CA40382	\$2,395.95
EF 15mm f/2.8 Fisheye	CA4040	\$719.99
EF 50mm f/1.2L USM	CA40450	\$1,619.00
EF 50mm f/1.4 USM	CA4046	\$389.95
EF 85mm f/1.2L II USM	CA40512	\$2,199.00
EF 85mm f/1.8 USM	CA40515	\$419.95
EF 100mm f/2 USM	CA4049	\$479.99
EF 100mm f/2.8L IS Macro USM	CA40529	\$1,049.00
EF 200mm f/2.8L IS USM	CA40544	\$5,999.00



Full Frame Zoom Lenses

Description	Part No.	Price
EF 16-35mm f/2.8L II USM	CA406091	\$1,699.00
EF 17-40mm f/4.0 L USM ZOOM	CA40611	\$839.99
EF 24-70mm f/2.8L USM ZOOM	CA40644	\$1,449.00
EF 24-105mm f/4L IS USM	CA40646	\$1,249.00
EF 28-135mm f/3.5-5.6 IS USM	CA4070	\$479.95
EF 70-200mm f/2.8 L USM	CA4078	\$1,449.00
NEW EF 70-200mm f/2.8 L IS II	CA40782	\$2,499.00
EF 70-200mm f/4.0 L USM	CA4079	\$709.99
EF 70-200mm f/4L IS USM	CA40792	\$1,349.00
EF 70-300mm f/4-5.6 IS USM	CA40861	\$649.99
EF 75-300mm f/4-5.6 III	CA4088	\$199.99
EF 100-400mm f/4.5-5.6L IS USM	CA4084	\$1,799.00



APS-C Sensor Lenses

Description	Part No.	Price
EF-S 60mm f/2.8 Macro	CA40616	\$449.99
EF-S 10-22mm f/3.5-4.5 USM	CA40606	\$859.99
EF-S 15-85mm f/3.5-5.6 IS USM	CA40608	\$799.99
EF-S 17-55mm f/2.8 IS USM	CA40617	\$1,199.00
EF-S 18-55mm f/3.5-5.6 IS	CA406142	\$199.99
EF-S 18-135mm f/3.5-5.6 IS USM	CA40619	\$499.99
EF-S 18-200mm f/3.5-5.6 IS	CA40621	\$699.99
EF-S 55-250mm f/4-5.6 IS	CA40737	\$299.00

NIKON



Prime Lenses

Description	Part No.	Price
24mm f/1.4G ED AF-S	NT21113	\$2,199.95
35mm f/1.4G AF-S	NT21134	\$1,799.95
35mm f/2.0D AF	NT2114	\$389.95
50mm f/1.8D AF	NT2116	\$134.95
50mm f/1.4G AF-S	NT21157	\$484.95
60mm f/2.8G ED AF-S MICRO	NT21165	\$599.95
85mm f/1.4G AF-S	NT21171	\$1,699.95
85mm f/1.8D AF	NT2119	\$489.95
105mm f/2.8G VR MICRO-NIKKOR	NT21232	\$984.95



Full Frame Zoom Lenses

Description	Part No.	Price
14-24mm f/2.8G ED AF-S	NT21394	\$1,999.95
16-35mm f/4G ED VR AF-S	NT21395	\$1,259.95
24-120mm f/3.5-5.6G ED-IF VR	NT21201	\$669.95
24-120mm f/4G ED VR AF-S	NT21198	\$1,299.95
24-70mm f/2.8G ED AF-S	NT21202	\$1,889.95
24-85mm f/2.8-4D IF AF	NT21265	\$744.95
28-300mm f/3.5-5.6G ED VR AF-S	NT21226	\$1,049.95
70-200mm f/2.8G ED-IF AF-S VR II	NT21276	\$2,399.95
70-300mm f/4.5-5.6G AF-S VR	NT21415	\$589.95
80-200mm f/2.8D ED AF	NT2140	\$1,224.95



APS-C Sensor Lenses

Description	Part No.	Price
DX 10.5mm f/2.8G ED FISHEYE	NT21075	\$774.95
DX 35mm f/1.8G AF-S	NT20192	\$199.95
DX 10-24mm f/3.5-4.5G AF-S	NT21388	\$899.95
DX 16-85mm f/3.5-5.6G ED VR AF-S	NT21362	\$699.95
DX 17-55mm f/2.8G IF-ED AF-S	NT21374	\$1,539.95
DX 18-105mm f/3.5-5.6G VR AF-S	NT21377	\$399.95
DX 18-200mm f/3.5-5.6G VR II	NT21379	\$849.95
DX 22-200mm f/4-5.6G ED AF-S	NT21267	\$199.95
DX 55-200mm f/4-5.6 ED AF-S VR	NT21268	\$249.95
DX 55-300mm f/4.5-5.6G ED VR	NT21270	\$399.95

TAMRON



Prime Lenses

Description	Canon	Nikon	Price
SP 90mm Di f/2.8 Di MACRO	TR1096	TR10971	\$499.99
SP 180mm f/3.5 Di MACRO	TR1105	TR1100	\$739.00

Full Frame Zoom Lenses

Description	Canon	Nikon	Price
SP 28-75mm f/2.8 XR Di LD	TR2715	TR27101	\$499.99
28-200mm f/3.8-5.6 XR Di	TR35170	TR35173	\$299.99
28-300mm XR Di LD ASP(IF)	TR3821	TR3822	\$419.99
28-300mm f/3.5-6.3 XR VC Di	TR38251	TR38261	\$629.99
SP 70-200mm f/2.8 Di	TR39500	TR39502	\$769.99
70-300mm f/4-5.6 Di	TR35910	TR35913	\$199.99
SP 70-300mm f/4-5.6 VC	TR39550	TR39551	\$449.99
SP 200-500mm f/5-6.3 Di LD IF	TR4000	TR4005	\$949.99

APS-C Sensor Lenses

Description	Canon	Nikon	Price
SP 60mm f/2 Di II 1:1 MACRO	TR10650	TR10651	\$524.99
SP 10-24mm f/3.5-4.5 Di-II	TR20090	TR20091	\$499.99
SP 17-50mm f/2.8XR Di II	TR20300	TR20303	\$499.99
SP 17-50mm f/2.8 VC Di II	TR20290	TR20293	\$649.99
18-200mm f/3.5-6.3 XR Di II	TR20310	TR20316	\$289.99
18-250mm f/3.5-6.3 XR Di -II	TR20320	TR203260	\$329.99
18-270mm f/3.5-6.3 Di-II VC	TR20330	TR20331	\$629.99

OLYMPUS



Pen Cameras and Lenses

Description	Part No.	Price
Olympus E-PL1 (Black)	OM05010	\$549.99
Olympus E-PL1 (Black) w/14-42mm	OM05012	\$599.99
Olympus E-PL1 (Champagne) w/14-42mm	OM05014	\$599.99
Olympus E-PL1 (Slate Blue) w/14-42mm	OM05016	\$599.99

Olympus E-P2 (Black)	OM05020	\$849.99
Olympus E-P2 (Black) w/14-42mm	OM05022	\$899.99
Olympus E-P2 (Black) w/17mm	OM05024	\$899.99

Pen 17mm f/2.8	OM0600	\$299.99
Pen ED 9-18mm f/4.0-5.6	OM0640	\$699.99
Pen ED 14-42mm f/3.5-5.6	OM0650	\$299.99
Pen ED 14-150mm f/4.0-5.6	OM0660	\$599.99
FL-14 Flash	OM0700	\$199.99
SEMA-1 External Mic Set	OM0740	\$89.99
VF-2 E-P2 Electronic Viewfinder	OM0732	\$249.99


calumetphoto.com

1-888-888-9083

Use code POPSHIP for free ground shipping!

CALUMET


Genesis 300B Monolight

CF0505

- AC/DC operation
- Compatible with Elinchrom light modifiers

NEW LOW PRICE!**\$189.99****AC/DC Operation!**

CALUMET

Genesis Power Port f/300B

The Power Port's battery can be charged in the studio or in the car and provides up to 200 flashes at full power.

CF0506 **\$149.99**

Please note: This battery is NOT compatible with the original Genesis 200/400 line.

Genesis 300B w/Power Port**BUY BOTH AND SAVE!**CF0506K **\$289.99**

CALUMET

Genesis 200 1-Light Softbox Kit

One each of Genesis 200, Calumet 10' Light Stand, Calumet 24 x 32" Nova Soft Box.

CF0502K2

\$299.99

CALUMET

Genesis 400 1-Light Softbox Kit

One each of Genesis 400, Calumet 10' Light Stand, Calumet 24 x 32" Nova Soft Box.

CF0514K2

\$369.99

CALUMET

RC1188 Rolling Case

RM2202

\$179.99**NEW!**
RC2065 Rolling Case

RM2214

\$199.99**NEW!**

CALUMET

Aluminum Tripods

7114 Small Compact
CK7114

\$59.99

Was \$79.99

**SAVE UP TO \$50**

Description	Part No.	Price	SALE
7316 Medium Compact	CK7316	\$99.99	\$74.99
7500 Large Pro	CK7500	\$129.99	\$99.99
7800 Deluxe	CK7800	\$219.99	\$169.99

CALUMET

8121 Compact Carbon Fiber Tripod w/ Ball Head

CK8121

\$284.99

Was \$379.99

**SAVE 25%**

CALUMET

Carbon Fiber Tripods

8132 CF Tripod
CK8132

\$209.99

Was \$279.99

**SAVE 25%**

Description	Part No.	Price	SALE
8144 CF Tripod	CK8144	\$349.99	\$261.99
8156 CF Tripod	CK8156	\$379.99	\$284.99

CALUMET

CV282 Camera Bag

RM2102

\$44.99

Was \$52.99


CV408 Camera Bag

RM2112

\$49.99

Was \$59.99

**SAVE 20%**

CALUMET

BP935 Backpack

RM2180

\$149.99

Was \$169.99


BP1500 Backpack

RM2184

\$169.99

Was \$199.99

**SAVE 15%**

CALUMET



Description	Part No.
420X 8GB UDMA CF Card	CM6271
420X 16GB UDMA CF Card	CM6277
420X 32GB UDMA CF Card	CM6281
420X 64GB UDMA CF Card	CM6291
150X 4GB CLASS 6 SD-HC	CM6442
150X 8GB CLASS 6 SD-HC	CM6454
150X 16GB CLASS 6 SD-HC	CM6458
150X 32GB CLASS 6 SD-HC	CM6466

CALUMET

Speedlight Modifier System

CF1001

\$119.99

Was \$139.99



CALUMET

Large Lens Gimbal Head

CK7075

\$319.99

Was \$399.99

**SAVE \$80!****UNBELIEVABLE SAVINGS!**

CALUMET

SAVE UP TO \$20!
3-Way QR Pan Head

CK7061

\$43.99

Was \$54.99


HD 3-Way QR Pan Head

CK7064

\$79.99

Was \$99.99



CALL OR VISIT OUR WEBSITE FOR THE LATEST PRICING AND REBATE INFORMATION

BRILLIANT

MONEY-BACK GUARANTEE!



Brilliant Supreme

Description	Part No.	Price
Glossy 8.5x11" 25 sheets	BP1410	\$8.99
Lustre 8.5x11" 100 sheets	BP1420	\$29.99
Glossy 13x17" 25 sheets	BP1430	\$23.99
Glossy 13x19" 25 sheets	BP1440	\$31.99
Glossy 17X22" 25 sheets	BP1445	\$41.99
Glossy 17"x100" roll	BP1465	\$55.99
Glossy 24"x100" roll	BP1470	\$79.99
Glossy 44"x100" roll	BP1475	\$134.99
Lustre 4X6" 100 sheets	BP1507	\$10.99
Lustre 8.5x11" 25 sheets	BP1510	\$9.99
Lustre 8.5x11" 100 sheets	BP1520	\$33.99
Lustre 11x17" 25 sheets	BP1530	\$26.99
Lustre 13x19" 25 sheets	BP1540	\$35.99
Lustre 17X22" 25 sheets	BP1545	\$49.99
Lustre 17"x100" roll	BP1565	\$62.99
Lustre 24"x100" roll	BP1570	\$87.99
Lustre 44"x100" roll	BP1575	\$119.99
C2S Matte 8.5x11" 25 sheets	BP1642	\$7.99
C2S Matte 8.5x11" 100 sheets	BP1644	\$26.99
C2S Matte 11x17" 25 sheets	BP1646	\$16.99
C2S Matte 13x19" 25 sheets	BP1647	\$19.99
C2S Matte 17X22" 25 sheets	BP1648	\$28.99
Matte 17"x100" roll	BP1665	\$46.99
Matte 24"x100" roll	BP1670	\$59.99
Matte 44"x100" roll	BP1675	\$94.99

Brilliant Museum

Description	Part No.	Price
SilverGloss White 8.5X11 25	BP2310	\$34.99
SilverGloss White 11X17 25	BP2320	\$63.99
SilverGloss White 13X19 25	BP2330	\$93.99
SilverGloss White 17X22 25	BP2340	\$123.99
SilverGloss White 17"x39" ROLL	BP2350	\$94.99
SilverGloss White 24"x39" ROLL	BP2360	\$125.99
SilverGloss White 44"x39" ROLL	BP2370	\$229.99
SilverGloss Natural 8.5X11 25	BP2410	\$34.99
SilverGloss Natural 11X17 25	BP2420	\$63.99
SilverGloss Natural 13X19 25	BP2430	\$93.99
SilverGloss Natural 17X22 25	BP2440	\$123.99
Satin Matte White 8.5X11 25	BP2510	\$26.99
Satin Matte White 11X17 25	BP2520	\$53.99
Satin Matte White 13X19 25	BP2530	\$69.99
Satin Matte White 17X22 25	BP2540	\$96.99
Satin Matte White 17"x39" ROLL	BP2550	\$76.99
Satin Matte White 24"x39" ROLL	BP2560	\$99.99
Satin Matte White 44"x39" ROLL	BP2570	\$189.99
Satin Matte Natural 8.5X11 25	BP2610	\$26.99
Satin Matte Natural 11X17 25	BP2620	\$53.99
Satin Matte Natural 13X19 25	BP2630	\$69.99
Satin Matte Natural 17X22 25	BP2640	\$96.99
Sample Pack		
8.5X11 8 sheets (two of each type)	BP2710	\$7.99

SANDISK

Memory Cards

EXTREME	Part No.
SDHC 4GB	IM18719
SDHC 8GB	IM18720
SDHC 16GB	IM18721
SDHC 32GB	IM18722
CF 8GB	IM18730
CF 16GB	IM18731
CF 32GB	IM18732
ULTRA	Part No.
SDHC 4GB	IM18617
SDHC 8GB	IM18618
SDHC 16GB	IM18619
SDHC 32GB	IM18620
CF 4GB	IM18612
CF 8GB	IM18613
CF 16GB	IM18614



CLICKFREE



Back Up Drives

Description	Part No.
C2 250GB Portable Drive	DA5107
C2 500GB Portable Drive	DA5110
Accessory Docking Station f/C2	DA5140
Zipper Case (Black) f/C2 & C2n	DA5143
C2 1TB Desktop Drive	DA5113
C2n 500GB Back-up with cord	DA5119
C2n 1TB Desktop Drive	DA5122
Clickfree Transformer f/Hard Drive	DA5145

TAMRAC

Evolution 6 Sling Bag (Black)

TQ5785

\$109.99

Available in Brown/Tan (TQ5786)



Evolution 8 Sling Bag (Black)

TQ5787

\$149.99

Available in Brown/Tan (TQ5788)



KATA



FREE Monopod!

3N1 Sling Backpack w/FREE Calumet Monopod

Description	Part No.	Price	SALE
3N1-11	KV05311K1	\$128.98	\$99.99
3N1-22	KV05322K1	\$148.98	\$119.99
3N1-33	KV05333K1	\$178.98	\$149.99

Each Sling Backpack above comes with a **FREE** Calumet Monopod

CALUMET

Background Papers

53"x36" or 107"x36"

\$28.99-\$47.99



GITZO

GK2380QVR Vintage Tripod Kit

GZ2380B

\$975.99



MANFROTTO

055XPROB Tripod

with 804rc2 Head and **FREE** Calumet Carrying Case

BG12163K1

\$259.99

SAVE \$40



ADOBE



PhotoShop CS5 w/Lightroom

SAVE 30%

Description	Part No.	Price
PhotoShop CS5 (Win)	IM1041K	\$859.99
PhotoShop CS5 (Mac)	IM1042K	\$859.99
PhotoShop CS5 Upgrade (Win)	IM1043K	\$269.99
PhotoShop CS5 Upgrade (Mac)	IM1044K	269.99

LACIE

Lacie Portable Storage

iamaKey, XtremKey, Rugged HD & More

Starting at \$17.99



G-TECH

G-Tech Professional Backup

High-Speed Hard Drives and RAID Solutions

Starting at \$129.99



calumetphoto.com

1-888-888-9083

Use code POPSHIP for free ground shipping!

CALUMET



Travelite 750ws 1-Light Kit with Case

Kit contains one each of: 750w/s Travelite, light stand, umbrella and rolling case.

CE1307

\$629.99

CALUMET



Travelite 1500ws 2-Light Kit with Case

Kit contains: Two 750w/s Travelites, two light stands, two umbrellas and one rolling case.

CE1310

\$1,149.99

CALUMET



Travelite 1500ws 2-Light Kit w/Case (f/LiteLink)

Kit contains: Two 750w/s Travelites, two light stands, two umbrellas and one rolling case, one LiteLink Radio Card and one LiteLink Transceiver.

CE1310K

\$1,249.99

CALUMET



Travelite 1500ws 2-Light Kit w/Case (f/Pocket Wizard)

Kit contains: Two 750w/s Travelites, two light stands, two umbrellas and one rolling case, one Pocket Wizard Radio Card and one Pocket Wizard Transceiver.

CE1310K1

\$1,299.99

CALUMET

Nova Strip Bank*

9x36

RM3109

\$59.99

Was \$89.99

Additional Sizes

Description	Size	Part No.	Price	SALE
Nova Strip Bank	14x46	RM3114	\$149.99	\$99.99

**SAVE
OVER
30%**

CALUMET



SpeedRings

Description	Part No.	Price
SpeedRing w/Insert f/Travelite-Bowens	RM6410K	\$79.99
SpeedRing w/Insert f/Balcar	RM6415K	\$79.99
SpeedRing w/Insert f/Speedotron	RM6420K	\$79.99
SpeedRing w/Insert f/Profoto	RM6430K	\$109.99
SpeedRing w/Insert f/Genesis	RM6445K	\$79.99
SpeedRing w/Insert f/Comet	RM6450K	\$79.99
SpeedRing w/Insert f/Photogenic	RM6465K	\$79.99

CALUMET



Travel-Pak Battery System for Travelites

Description	Part No.	Price
Small Travel-Pak Battery set	BW7693	\$579.99
High Capacity		
Travel-Pak Battery Set	BW7694	\$689.99
Small Battery Only	BW7690	\$189.99
High Capacity Battery Only	BW7691	\$219.99
13' Head Cable	CE1111	\$74.99
26' Head Cable	BW7632	\$74.99

**CALL US TODAY
1.888.888-9083**

**M-F: 8-6
SAT: 9-5:30 CST**

Photographers are waiting
to help, call today.

CALUMET

Light Stands

- Professional quality offers maximum support
- Made of lightweight black aluminum

STARTING AT

\$20.99

Description	Part No.	Reg. Price	+3 PRICE
Calumet Backlite Stand	MF6020	\$24.99	\$20.99
Calumet Low Stand	MF6025	\$39.99	\$31.99
Calumet Ultra Compact Stand	MF6027	\$36.99	\$29.99
Calumet 8' Kit Stand	MF6030	\$39.99	\$33.49
Calumet 10' Stand	MF6040	\$44.99	\$37.99
Calumet 10' AC Stand	MF6045	\$52.99	\$44.99
Calumet 13.5' HD Stand	MF6060	\$64.99	\$51.99
Calumet 13.5' HD AC Stand	MF6065	\$69.99	\$55.99
Calumet Cine Stand w/Casters	MF6070	\$134.99	\$109.99

**BUY 3
AND
SAVE***

* Must be three of the same stand to get quantity discount.

CALUMET

**Save \$98
When You
Buy All 3!**



Description	Part No.	Price	SALE
Posing Stool	MF6100	\$74.99	—
Posing Table	MF6105	\$82.99	—
Posing Table w/Stool	MF6105K	\$157.98	\$99.99
Posing Table w/Stool and Background Stand	MF6100K1	\$277.97	\$199.99
Posing Table w/Stool & HD Background Stand	MF6100K2	\$307.97	\$209.99

CALUMET



6' Light Boom w/HD Stand and Casters

MF6210K

\$139.99 Was \$169.99

6' 10" Wall Boom

MF6230

\$89.99 Was \$109.99

BroadwayPhoto.com

LATEST GEAR @ GREATEST PRICES

21 Days Satisfaction Guarantee
Government & School PO's Accepted

Call Toll Free Now!

1-800-262-0106

Hours: Mon-Thu: 9AM - 9PM / Fri: 9AM - 4PM / Sat: CLOSED / Sun: 9AM - 5PM

DIGITAL SLR CAMERAS

ONLY \$

SONY DSLR-A290 Kit

- Includes 18-55 Lens
- 14.2 Megapixels

\$399⁹⁹



SONY DSLR-A850

- 24.6 Megapixels
- 3.0" LCD Screen

\$1549⁹⁹



SONY SLT-A33 Kit

- Includes 18-55 Lens
- 14.2 Megapixels

\$549⁹⁹



SONY DSLR-A560 Kit

- Includes 18-55 Lens
- 14.2 Megapixels

\$549⁹⁹



SONY DSLR-NEX5A Kit

- Includes 16mm Lens
- 14.2 Megapixels

\$499⁹⁹



SONY DSLR-A390 Kit

- Includes 18-55 Lens
- 14.2 Megapixels

\$419⁹⁹



SONY DSLR-A900

- 24.6 Megapixels
- 3.0" LCD Screen

\$2129⁹⁹



SONY SLT-A55V Kit

- Includes 18-55 Lens
- 16.2 Megapixels

\$549⁹⁹



SONY DSLR-NEX3K Kit

- Includes 18-55 Lens
- 14.2 Megapixels

\$449⁹⁹



SONY DSLR-NEX5K Kit

- Includes 18-55 Lens
- 14.2 Megapixels

\$539⁹⁹



Rebel XS Kit

- Includes 18-55 Lens
- 10.1 Megapixels

\$409⁹⁹



Rebel T1i Kit

- Includes 18-55 Lens
- 15.1 Megapixels

\$589⁹⁹



EOS 50D

- 15.1 Megapixels
- 3.0" LCD Screen

\$729⁹⁹



EOS 7D

- 18.0 Megapixels
- 3.0" LCD Screen

\$1209⁹⁹



EOS 1D Mark IV

- 16.1 Megapixels
- 3.0" LCD Screen

\$3799⁹⁹



Rebel XSi Kit

- Includes 18-55 Lens
- 12.2 Megapixels

\$549⁹⁹



Rebel T2i Kit

- Includes 18-55 Lens
- 18.0 Megapixels

\$709⁹⁹



EOS 60D

- 18.0 Megapixels
- 3.0" LCD Screen

\$849⁹⁹



EOS 5D Mark II

- 21.1 Megapixels
- 3.0" LCD Screen

\$2069⁹⁹



EOS 1Ds Mark III

- 21.1 Megapixels
- 3.0" LCD Screen

\$5449⁹⁹



OLYMPUS

E620 Kit

- Incl. 14-42 & 40-150
- 12.3 Megapixels

\$499⁹⁹



OLYMPUS

EPL1 Kit

- Incl. 14-42 Lens
- 12.3 Megapixels

\$429⁹⁹



OLYMPUS

PEN E-P2 Kit

- Incl. 14-42 Lens
- 12.3 Megapixels

\$669⁹⁹



Panasonic

DMC-G10 Kit

- Incl. 14-42 Lens
- 12.1 Megapixels

\$409⁹⁹



Panasonic

DMC-G2 Kit

- Incl. 14-42 Lens
- 12.1 Megapixels

\$549⁹⁹



Panasonic

DMC-GF1 Kit

- Incl. 20mm Lens
- 12.1 Megapixels

\$629⁹⁹



PENTAX

K-x Kit

- Incl. 18-55 Lens
- 12.4 Megapixels

\$409⁹⁹



PENTAX

K7

- 14.6 Megapixels
- 3.0" LCD Screen

\$749⁹⁹



PENTAX

K-r Kit

- Incl. 18-55 Lens
- 12.4 Megapixels

\$449⁹⁹



Nikon

D5000 Kit

- Incl. 18-55 Lens
- 12.3 Megapixels

\$609⁹⁹



Nikon

D90

- 12.3 Megapixels
- 3.0" LCD Screen

\$669⁹⁹



Nikon

D90 Kit

- Incl. 18-105 Lens
- 12.3 Megapixels

\$919⁹⁹



D700

- 12.1 Megapixels
- 3.0" LCD Screen

\$1979⁹⁹



D3s

- 12.1 Megapixels
- 3.0" LCD Screen

\$4249⁹⁹



D3x

- 24.5 Megapixels
- 3.0" LCD Screen

\$6099⁹⁹



D7000 Kit

- Incl. 18-105 lens
- 16.2 Megapixels

CALL



D3100 Kit

- Incl. 18-55 Lens
- 14.2 Megapixels

\$549⁹⁹



D5000

- 12.3 Megapixels
- 2.7" LCD Screen

\$539⁹⁹



FREE
TRIPOD, CLEANING SYSTEM & TAPE

CAMCORDER

ONLY \$

VIXIA HF-M30

- 15x HD Video Lens
- 8GB Internal Drive

\$369⁹⁹



VIXIA HF-M300

- 15x Optical Zoom
- 2.7" LCD Screen

\$319⁹⁹



VIXIA HF-M32

- 15x Optical Zoom
- 2.7" LCD Touch Screen

\$669⁹⁹



VIXIA HF-S20

- 10x HD Video Lens
- 32GB Internal Drive

\$669⁹⁹



VIXIA HF-S200

- 10x HD Video Lens
- 3.5" LCD Screen

\$609⁹⁹



VIXIA HF-S21

- 10x HD Video Lens
- 3.5" LCD Screen

\$899⁹⁹



FS-300.....\$219.99
HF-M31.....\$569.99
HF-R10.....\$309.99

HF-R100.....\$299.99
XF300.....\$599.99
XF305.....\$689.99

XH-A1S.....\$2949.99
XL2.....\$2999.99
XL-H1A.....\$4899.99

Panasonic

SDR-H85

- 70x Optical Zoom
- 2.7" LCD

\$219⁹⁹



HDC-SD60

- 25x Optical Zoom
- 2.7" LCD Screen

\$349⁹⁹



HDC-TM700

- 12x Optical Zoom
- 3.0" LCD Screen

\$709⁹⁹



AG-HMC150.....\$2599.99
AG-HMC40.....\$1649.99
AG-HMC70.....\$1499.99

AG-HPX170.....\$3149.99
AG-HVX200A.....\$2849.99
HDC-HS300.....\$779.99

HDC-HS60.....\$489.99
HDC-HS700.....\$999.99
HDC-SDT750.....\$1149.99

ONLY \$

HDR-CX150

- 25x Optical Zoom
- 2.7" LCD Screen

\$369⁹⁹



HDR-XR550V

- 10x Optical Zoom
- 240GB HD

\$899⁹⁹



NEXVG10

- Includes 18-200 Lens
- 3.0" LCD Screen

\$1499⁹⁹



HDR-CX550V

- 10x Optical Zoom
- Full HD Recording

\$779⁹⁹



HDR-XR350V

- 12x Optical Zoom
- 160GB HD

\$629⁹⁹



HDR-FX7

- 20x Optical Zoom
- 3.5" Wide LCD

\$1749⁹⁹



DCR-SR68.....\$269.99
DCR-SR88.....\$299.99
HDC-AX2000.....\$2749.99

HDC-CX110.....\$319.99
HDC-CX350.....\$299.99
HDC-FX1000.....\$2549.99

HDC-XR150.....\$409.99
HDC-MC50U.....\$1299.99
HDC-NX5U.....\$3499.99



Next Day Air Available
Worldwide Shipping

Se habla Español!
Call Toll Free Now!

1-800-262-0106

Hours: Mon-Thu: 9AM - 9PM / Fri: 9AM - 4PM / Sat: CLOSED / Sun: 9AM - 5PM

DIGITAL CAMERAS

Canon

PowerShot D10
- 12.1 Megapixels
- 2.5" LCD Screen
\$229⁹⁹

PowerShot S95
- 10 Megapixels
- 3.0" LCD Screen
\$319⁹⁹

PowerShot SD4000 IS
- 10.0 Megapixels
- 3.8x Optical Zoom
\$269⁹⁹

PowerShot SX210 IS
- 14.1 Megapixels
- 14x Optical Zoom
\$259⁹⁹

PowerShot SX130 IS
- 12.1 Megapixels
- 12x Optical Zoom
\$199⁹⁹

PowerShot G11
- 10.0 Megapixels
- 2.8" LCD Screen
\$414⁹⁹

PowerShot S95
- 10.0 Megapixels
- 3.8x Optical Zoom
CALL

PowerShot SD4500IS
- 10.0 Megapixels
- 3.0" LCD Screen
\$269⁹⁹

PowerShot SX30 IS
- 14.1 Megapixels
- 35x Optical Zoom
\$319⁹⁹

PowerShot G12
- 10.0 Megapixels
- 5x Optical Zoom
\$419⁹⁹

PowerShot A3100.....\$139.99	PowerShot SD1400.....\$189.99	PowerShot SD940.....\$189.99
PowerShot SD1300.....\$149.99	PowerShot SD3500.....\$249.99	PowerShot SD980.....\$214.99

Sony

CyberShot DSC-HX5V
- 10.2 Megapixels
- 3.0" LCD Screen
\$274⁹⁹

CyberShot DSC-WX5
- 12.2 Megapixels
- 5x Optical Zoom
\$249⁹⁹

CyberShot DSC-H55
- 14.1 Megapixels
- 10x Optical Zoom
\$189⁹⁹

CyberShot DSC-HX1
- 14.1 Megapixels
- 3" LCD Screen
\$319⁹⁹

CyberShot DSC-W370
- 14.1 Megapixels
- 7x Optical Zoom
\$174⁹⁹

CyberShot DSC-T99
- 14.1 Megapixels
- 4x Optical Zoom
\$209⁹⁹

CyberShot DSC-TX9
- 12.2 Megapixels
- 4x Optical Zoom
\$319⁹⁹

CyberShot DSC-TX5
- 10.2 Megapixels
- 3.0" Touch Screen
\$259⁹⁹

CyberShot DSC-TX7
- 10.2 Megapixels
- 3.5" Touch Screen
\$279⁹⁹

CyberShot DSC-W350
- 14.1 Megapixels
- 2.7" LCD Screen
\$164⁹⁹

CyberShot DSC-S2100.....\$99.99	CyberShot DSC-W310.....\$119.99	CyberShot DSC-W330.....\$144.99
CyberShot DSC-TX1.....\$249.99	CyberShot DSC-W320.....\$239.99	CyberShot DSC-WX1.....\$229.99

Nikon

CoolPix P100
- 10.0 Megapixels
- 3.0" LCD Screen
\$299⁹⁹

CoolPix S8000
- 14.2 Megapixels
- 3.0" LCD Screen
\$229⁹⁹

CoolPix S5100
- 12.0 Megapixels
- 5x Optical VR Zoom
\$149⁹⁹

CoolPix S6000
- 14.0 Megapixels
- 7x Optical VR Zoom
\$189⁹⁹

CoolPix S3000
- 12.0 Megapixels
- 4x Optical VR Zoom
\$114⁹⁹

CoolPix L110
- 12.1 Megapixels
- 3.0" LCD Screen
\$199⁹⁹

CoolPix S1100pj
- 14.0 Megapixels
- Built-in Projector
\$279⁹⁹

CoolPix S4000
- 12.0 Megapixels
- 3.0" Touch Screen
\$149⁹⁹

CoolPix P7000
- 10.1 Megapixels
- 7.1x Optical Zoom
\$419⁹⁹

CoolPix S80
- 14.1 Megapixels
- 3.5" Touch LCD Screen
\$259⁹⁹

CoolPix L19.....\$84.99	CoolPix P90.....CALL	CoolPix S630.....\$199.99
CoolPix L20.....\$89.99	CoolPix S570.....\$144.99	CoolPix S70.....\$219.99

Panasonic

Lumix DMC-FZ35
- 12.1 Megapixels
- 18x Optical Zoom
\$279⁹⁹

Lumix DMC-FZ100
- 14.1 Megapixels
- 24x Optical Zoom
\$369⁹⁹

Lumix DMC-TS2
- 14.1 Megapixels
- 4.6x Optical Zoom
\$279⁹⁹

Lumix DMC-FX700
- 14.1 Megapixels
- 5x Optical Zoom
\$289⁹⁹

Lumix DMC-ZS7
- 12.1 Megapixels
- 12x Optical Zoom
\$249⁹⁹

Lumix DMC-FZ40
- 14.1 Megapixels
- 24x Optical Zoom
\$289⁹⁹

Lumix DMC-LX5
- 10.1 Megapixels
- 3.0" LCD Screen
\$379⁹⁹

Lumix DMC-TS10
- 14.1 Megapixels
- 4x Optical Zoom
\$199⁹⁹

Lumix DMC-FX75
- 14.1 Megapixels
- 5x Optical Zoom
\$229⁹⁹

Lumix DMC-ZS5
- 12.1 Megapixels
- 12x Optical Zoom
\$209⁹⁹

Lumix DMC-FH20.....\$159.99	Lumix DMC-FP1.....\$119.99	Lumix DMC-LX3.....\$369.99
Lumix DMC-FH3.....\$144.99	Lumix DMC-FP3.....\$159.99	Lumix DMC-ZR3.....\$209.99

OLYMPUS

SP-600UZ
- 12.0 Megapixels
- 15x Optical Zoom
\$159⁹⁹

SP-800UZ
- 14.0 Megapixels
- 30x Optical Zoom
\$249⁹⁹

Stylus Tough 6020
- 14.0 Megapixels
- 5x Optical Zoom
\$209⁹⁹

STYLUS 8010
- 14.0 Megapixels
- 5x Optical Zoom
\$289⁹⁹

FE-4020.....\$99.99	Stylus 5010.....\$139.99	T-100.....\$74.99
FE-47.....\$94.99	Stylus Tough 3000.....\$154.99	X-560WP.....\$79.99

Kodak

EasyShare Z981
- 14.0 Megapixels
- 26x Optical Zoom
CALL

EasyShare Zi8
- 5.0 Megapixels
- Records HD Video
CALL

EasyShare M580
- 14.0 Megapixels
- 8x Optical Zoom
CALL

PlaySport ZX3
- Records in HD
- Waterproof
CALL

EasyShare C182.....CALL	EasyShare M575.....CALL	Mini Video.....CALL
EasyShare M550.....CALL	EasyShare M590.....CALL	PlayTouch.....CALL

SAMSUNG

TL210
- 12.2 Megapixels
- 5x Optical Zoom
\$129⁹⁹

TL220
- 12.0 Megapixels
- 4.6x Optical Zoom
\$139⁹⁹

TL225
- 12.2 Megapixels
- 4.6x Optical Zoom
\$189⁹⁹

CL80.....\$259.99	ST100.....CALL	TL350.....\$239.99
HZ50W.....\$259.99	ST600.....CALL	TL500.....\$299.99

FUJIFILM

FinePix S1800
- 12.2 Megapixels
- 18x Optical Zoom
\$169⁹⁹

FinePix S2550
- 12.0 Megapixels
- 18x Optical Zoom
\$179⁹⁹

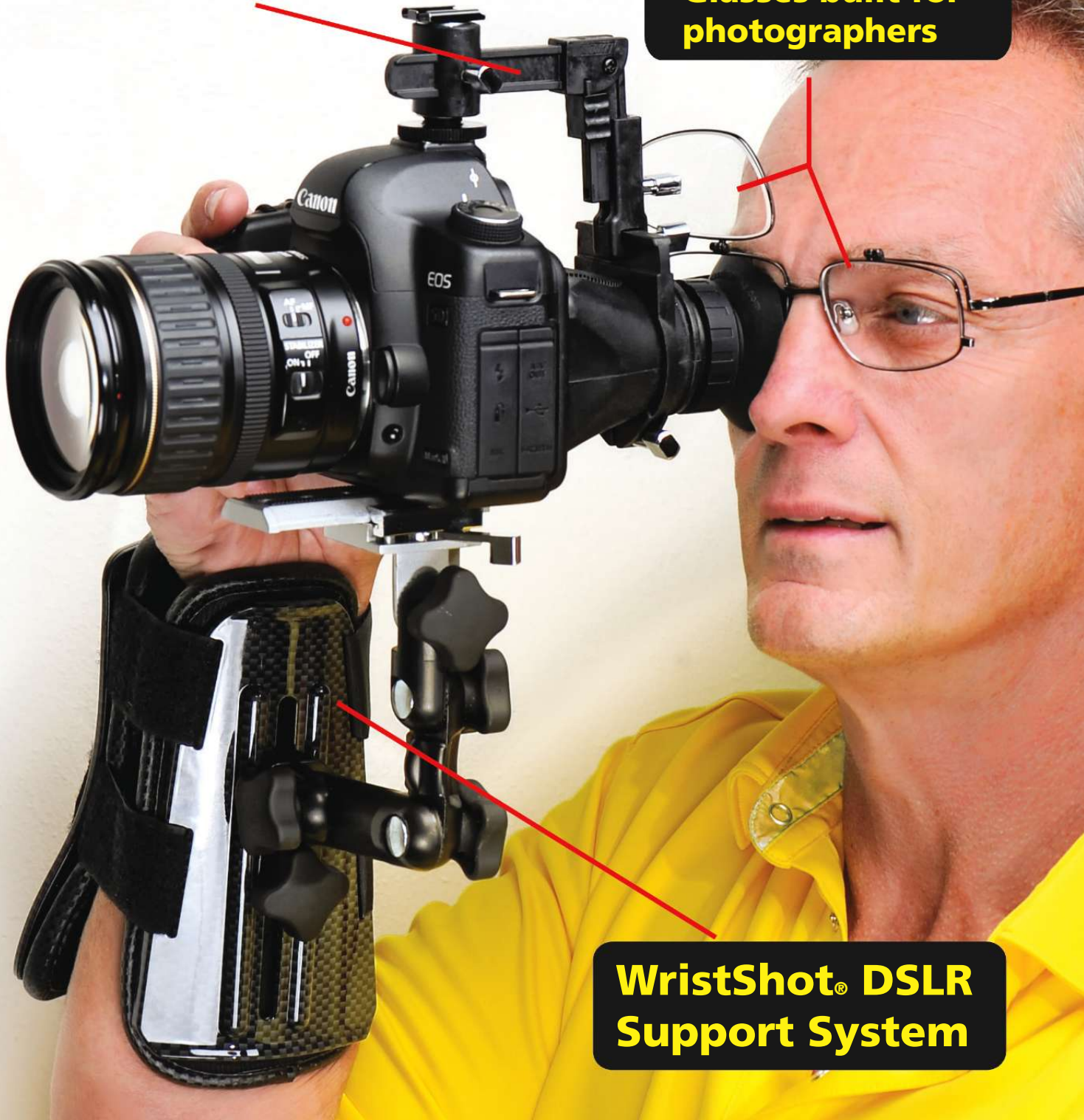
FinePix HS10
- 10.0 Megapixels
- 30x Optical Zoom
\$329⁹⁹

FinePix F300-EXR.....\$249.99	FinePix 2800-EXR.....CALL	FinePix S2800HD.....CALL
FinePix F80-EXR.....\$219.99	FinePix Real 3D W3.....\$374.99	FinePix XP10.....\$149.99

Policy: To order use Visa, Mastercard, Discover, American Express, Diners Club, C.O.D. orders are welcome, or mail in bank cashier's certified check. For personal checks and Money Orders please allow two weeks from the date we deposit the check. Orders by mail, please print name, address and phone number clearly to avoid delay. Minimum shipping charges \$9.99. For cost of merchandise up to \$500 - 5% for cost of merchandise from \$500 to \$1000 - 5.5%, and for merchandise \$1000 and up - 6%. Some items carry an international warranty. US warranty may be additional. All merchandise is brand new and factory fresh. Prices are subject to change. Please check our website for our current prices. 21 days to return or exchange. Camera equipment 15 days to return. No money back guarantee. No cash. 6-21 days minimum 5% restocking fee. Digital and video returns or exchanges 7 days. No returns except without return authorization number (Please call for details). Special order items are non-refundable. Shipping and handling fee non-refundable. Prices may reflect mail-in rebate. Not responsible for typographical errors. We reserve the right to limit quantities. Thank you and enjoy your order!

**Cinema Kit Pro for
DSLR Video Capture**

**Titanium
PhotoFrames™
Glasses built for
photographers**



**WristShot® DSLR
Support System**

Inspired Photography Tools™

www.HoodmanUSA.com 800.818.3946



True PDF release: storemags & fantamag

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

INKJET PAPER

ProJet



SOME OF OUR POPULAR
SURFACES INCLUDE:

ProJet Papers:

- Double Sided Matte
- Double Sided Card Stock
- Photo Gloss
- Double Sided Semi Gloss
- Smooth Silk
- Royal Satin

ProJet Elite Papers:

- Linen Texture
- Picture Rag Cooltone
- Picture Rag Warmtone

PREMIUM INKJET PAPER AT ECONOMICAL PRICES

Improve the output of your inkjet printer and the appearance of treasured memories! Choose a top quality high-grade inkjet paper that will never let you down.

Whether you select a ProJet paper for everyday use or one of the ProJet Elite papers with over 20 special surfaces, we have a paper that will make you proud of every image you print. Your photos will look like a million dollars, and only you will know how much you saved!

Sizes available from 4x6" up to 17x22" as well as sheets and rolls. For a complete listing and prices visit adorama.com

ORIENTAL

photo
Premier

MUSEO
DIGITAL PHOTO ARTS

EPSON®

CANSON®

HARMAN

INKPRESS

ILFORD

Canon

INNOVA

PICTORICO

hp

MOAB
BY LEGION PAPER

Hahnemühle
FINEART

Kodak

**For Our Full
Selection Of
DIGITAL PAPER**

visit us at
adorama.com



CASES

FLASHPOINT

CS770 Lighting Kit Case

Made of high impact corrugated polymer that is covered with foam and then rugged Softex™ material. The reinforced, padded walls protect your flash heads and other gear. Includes a divider shelf that runs across the length of the case; separating the flash gear and the light stands & umbrellas. Smaller vertical dividers are repositionable so you can customize the case to accommodate your equipment.

Internal Dimensions: 38"L x 10"H x 9.75"W

was \$169.95

\$119.95



FLASHPOINT

Joe Farace Reporter Backpack II

Has a camera cradle that will hold a digital pro camera with a 100-400 lens, 9 repositionable dividers to hold several lenses, a flash and lots more.

Separate compartment holds a 17" laptop (G5).

Made of weather resistant, black, Softex nylon . 19.5" x 13" x 9.8"

Accepts All Slinger USA attachment accessories.

was \$79.95

\$49.95



FLASHPOINT

Mary Farace Daypack Backpack

Holds a Digital SLR with a 50-200mm Lens plus Accessories.

Perfect for a trip to the zoo, picnics, car shows, or photo safaris.

Makes a great gift for your favorite photographer.

Measures 14" x 12" x 6" so it easily fits within airline regulations for carry-ons.

9 repositionable dividers allow you to customize the case for more lenses.

was \$49.95

\$29.95



THE ULTIMATE IN PHOTO SHOPPING: adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

Tokina®

12-24mm
f/4 AF PRO DX AT-X II

- Exclusively for Digital SLR cameras
- Fast internal focusing with Tokina's One-Touch focus clutch mechanism



Kenko

Pro 300 AF Converters

KENKO Teleplus Pro 300 are designed specifically to be used with telephoto lenses of 100mm or above, and work best with telephoto lenses of 200mm to 500mm. They will maintain the resolution of the prime lens, even at the corners

1.4x Pro
DG Series.....\$194.95
2x Pro
DG Series.....\$199.95
3x Pro.....\$209.00



TAMRON®

6 YEAR
WARRANTY
TAMRON
USA

18 - 270mm
f/3.5-f/6.3
DI-II VC Lens

- A unique ultra high power zoom lens
- World's first and greatest zoom ratio of 15X
- Minimum focusing distance of 19.3"
- Zoom lock mechanism
- New outer design

\$150.00 Rebate
Exp. 12/31/10



Vivitar

Series 1 85mm f/1.4 Manual
Lens for Nikon Film & Digital
SLR Cameras

- Compact and lightweight
- Constant f/1.4 aperture
- Great for Portraits
- Can be used with film & digital SLR cameras

#VV8514NK
\$327.95



PROPTIC

LENSES

8MM F/3.5 Manual focus FISHEYE lens
Full 180° coverage on digital SLRs with APS size sensors, Computer design produces clear crisp images. F/22 Extensive Depth-of-Field

Ideal for travel photographers who want to add new perspectives to their work. Perfect for architectural interiors, landscapes, and special effects photography. And for infra-red explorers this lens will open up a new world.
Available for: Canon EOS, Nikon, Pentax, Sony

Multi-Coated 2x Tele-Converter

Designed to be used with longer telephoto lenses w/ various mounts

2x #Pro2x **\$109.95**

1.4x #Pro1.4x **\$89.95**

500 F 6.3 MIRROR LENS

Compact, Lightweight
Faster than standard 500 F8 Lenses.
Great for nature & Landscape
Photography, Available for all SLR's

500 F8**\$89.95**
800 F8**\$224.95**



\$279.95



Compare features / Compare values Sigma delivers

SD-15 Digital SLR

Digital SLR Camera Body
with 14 Megapixel, Foveon X3
Direct Image Sensor

- Key Features:
- DDRII buffer memory
 - Durable focal plane shutter mechanism
 - High speed continuous shooting
 - Large 3.0" LCD monitor
 - Built-in Flash



EF 530 DG ST Flash

Powerful guide
number of 174
Covers a focal
length from 24mm
to 105mm.
Autozoom function



EF 530 DG Super Flash

Powerful guide
number of 174
Focal length from
24mm-105mm.
Autozoom
function
Wireless TTL



18-50mm F2.8 EX DC

DC Series for Digital cameras
IF (Inner Focus) EX-finished
ASP Aspherical Lens



10-20mm F4-5.6 EX DC HSM

DC Series for Digital cameras
HSM (Hyper Sonic Motor)
EX-finished



17 - 70mm f/2.8-4.5

DC Macro AutoFocus Wide Angle
Zoom Lens for Sigma Cameras



30mm F1.4 EX DC HSM

The most appropriate coating
for digital SLR cameras Equipped with
HSM (Hyper Sonic Motor) system



SIGMA Made Exclusively in Japan

Perfecting the way photographers work

LENSES FOR AUTO-FOCUS & MANUAL CAMERAS

Lens Mount	Price	Sony	Canon	EOS	Nikon	AF	Pentax	Sigma	Olympus
4.5 f2.8 EX DC HSM Cir Fisheye	\$999	✓	✓	✓	✓	✓	✓	✓	✓
8/3-5 DG Fisheye	\$899	✓	✓	✓	✓	✓	✓	✓	✓
10 2.8 EX DC HSM Fisheye	\$649	✓	✓	✓	✓	✓	✓	✓	✓
15/2.8 EX DG Fisheye	\$609	✓	✓	✓	✓	✓	✓	✓	✓
20/1.8 EX-DG	\$519	✓	✓	✓	✓	✓	✓	✓	✓
24/1.8 EX-DG	\$449	✓	✓	✓	✓	✓	✓	✓	✓
28/1.8 EX-DG	\$349	✓	✓	✓	✓	✓	✓	✓	✓
30/1.4 EX-DC	\$439	✓	✓	✓	✓	✓	✓	✓	✓
50 1.4 EX DG HSM	\$499	✓	✓	✓	✓	✓	✓	✓	✓
50 2.8 EX DG Macro	\$299	✓	✓	✓	✓	✓	✓	✓	✓
70/2.8 EX DG Macro	\$499	✓	✓	✓	✓	✓	✓	✓	✓
105/2.8 EX-DG	\$479	✓	✓	✓	✓	✓	✓	✓	✓
150 2.8 EX DG Macro APO	\$729	✓	✓	✓	✓	✓	✓	✓	✓
300/2.8 APO EX-DG	\$2,999	✓	✓	✓	✓	✓	✓	✓	✓
500/4.5 APO DG	\$4,699	✓	✓	✓	✓	✓	✓	✓	✓
800/5.6 EX APO DG HSM	\$7,399	✓	✓	✓	✓	✓	✓	✓	✓
10-20/4.5-5.6 EX-DC	\$479	✓	✓	✓	✓	✓	✓	✓	✓
10-20/3.5 EX DC HSM	\$649	✓	✓	✓	✓	✓	✓	✓	✓
12-24/4.5-5.6 EX-DG Asph	\$859	✓	✓	✓	✓	✓	✓	✓	✓
17-70/2.8-4.5 DC Macro	\$369	✓	✓	✓	✓	✓	✓	✓	✓
17-70/2.8-4.5 DC OS Macro HSM	\$449	✓	✓	✓	✓	✓	✓	✓	✓
18-50/2.8 DC EX Macro	\$419	✓	✓	✓	✓	✓	✓	✓	✓
18-50/2.8-4.5 DC OS HSM	\$299	✓	✓	✓	✓	✓	✓	✓	✓
18-125/3.8-5.6 DC OS HSM	\$339	✓	✓	✓	✓	✓	✓	✓	✓
18-200/3.5-6.3 DC OS	\$439	✓	✓	✓	✓	✓	✓	✓	✓
18-200/3.5-6.3 DC	\$319	✓	✓	✓	✓	✓	✓	✓	✓
18-250/3.5-6.3 DC OS HSM	\$529	✓	✓	✓	✓	✓	✓	✓	✓
24-70/2.8 IF EX-DG HSM	\$899	✓	✓	✓	✓	✓	✓	✓	✓
24-70/2.8 EX-DG Macro	\$569	✓	✓	✓	✓	✓	✓	✓	✓
50-150 2.8 EX DG HSM II	\$749	✓	✓	✓	✓	✓	✓	✓	✓
50-200 4.5-6.3 DC OS HSM	\$299	✓	✓	✓	✓	✓	✓	✓	✓
50-500/4.5-6.3 EX DG APO HSM	\$1,059	✓	✓	✓	✓	✓	✓	✓	✓
70-200/2.8 EX HSM Macro II	\$799	✓	✓	✓	✓	✓	✓	✓	✓
70-300/4.5-6.3 APO DG Macro	\$209	✓	✓	✓	✓	✓	✓	✓	✓
70-300/4.5-6.3 DG OS	\$399	✓	✓	✓	✓	✓	✓	✓	✓
70-300/4.5-6.3 DL-Mac DG	\$1,159	✓	✓	✓	✓	✓	✓	✓	✓
100-300/4.5 DG EX HSM	\$1,119	✓	✓	✓	✓	✓	✓	✓	✓
120-300 2.8 EX HSM DG APO	\$2,999	✓	✓	✓	✓	✓	✓	✓	✓
120-400 F4.5-6.3 DG APO OS HSM	\$899	✓	✓	✓	✓	✓	✓	✓	✓
150-500 5/6.3 DG APO HSM OS	\$999	✓	✓	✓	✓	✓	✓	✓	✓
200-500 2.8 EX DG APO	\$28,999	✓	✓	✓	✓	✓	✓	✓	✓
300-800/5.6 EX DG APO HSM	\$8,699	✓	✓	✓	✓	✓	✓	✓	✓
1.4X APO Extender	\$249	✓	✓	✓	✓	✓	✓	✓	✓
2X APO Extender	\$299	✓	✓	✓	✓	✓	✓	✓	✓

AUTO FOCUS FLASHES

EF 530 DG Super	\$219	✓	✓	✓	✓	✓	✓	✓	✓
EF 530 DG ST	\$149	✓	✓	✓	✓	✓	✓	✓	✓
EM 140 DG	\$379	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available — Not Available

SHIPPING INSTRUCTIONS See Our Web Site WWW.ADORAMA.COM For Shipping Charges And Relevant Information.

STORE: 212-675-6789

Store & Mail Order Hours: Mon.-Thurs. 9-8:00pm

• Fri to 3:30 (Store till 2:00) • Sun. 9:30-5:00

ADORAMA INC.
Source for the Educated Photographer

True PDF release: storemags & fantamag

LAB * LENS TEST

TOKINA AT-X 16-28MM F/2.8 PRO FX AF

CONTINUED FROM PAGE 94

On our Test Lab's optical bench, the lens produced Excellent-range sharpness and contrast. Its SQF numbers were significantly stronger than those of the 16-35mm f/4 VR Nikkor, especially in the middle of the zoom range.

Its most remarkable strength? An unparalleled ability to control distortion. DxO Analyzer 3.2 tests found only Imperceptible distortion across the focal lengths. (See test scores on page 94.) No lens this wide has come this close to distortion-free imaging in recent memory—the comparable Canon's distortion was Slight to Visible at the wide end. Equally remarkable: The Tokina produced no edge falloff at any focal length.

Its 1.75X zoom range is a bit stingy, and the lens is not image-stabilized—significant because neither Canon nor Nikon offers sensor-based stabilization in their DSLR bodies.

Nonetheless, with nearly flawless optics, this lens is in a lofty class by itself. Here's hoping all the future AT-X Pro FX glass is as strong. —Julia Silber

SUBJECTIVE QUALITY FACTOR

Our standard
lens test, SQF
rates sharpness
by print size.

Size	5x7	8x10	11x14	16x20	20x24
2.8	95.8	95.8	93.5	89.1	83.7
4.0	97.1	96.2	94.1	90.2	85.6
5.6	96.9	95.9	93.7	89.7	84.2
8.0	96.9	96.0	93.8	89.7	84.8
11.0	96.8	95.8	93.6	89.3	84.1
16.0	96.4	95.3	92.7	87.8	81.8
22.0	95.8	94.5	91.4	85.4	78.1

Size	5x7	8x10	11x14	16x20	20x24
2.8	97.1	96.2	94.1	90.3	85.9
4.0	97.1	96.2	94.1	90.2	85.6
5.6	97.2	96.3	94.4	90.9	86.9
8.0	97.2	96.3	94.3	90.7	86.5
11.0	96.9	95.9	93.7	89.6	84.6
16.0	96.5	95.4	92.9	88.2	82.5
22.0	95.9	94.7	91.8	86.1	79.2

Size	5x7	8x10	11x14	16x20	20x24
2.8	96.4	95.3	92.7	87.7	81.7
4.0	96.8	95.8	93.5	89.1	83.8
5.6	97.0	96.0	93.9	89.8	85.0
8.0	97.0	96.0	93.9	89.9	85.2
11.0	96.8	95.9	93.6	89.3	84.3
16.0	96.5	95.4	92.9	88.2	82.5
22.0	95.9	94.7	91.7	86.0	79.1

KEY A+ A B+ B C+ C D F

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

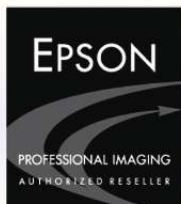
30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

PROFESSIONAL PRINTERS



Stylus R2880

8 Color 13" Wide Inkjet Color Printer, 5760 x 1440
Optimized dpi with USB 2.0 Interface, PictBridge



Stylus Photo R1900

13" Wide Inkjet Color Printer,
8 Color, with USB 2.0



Canon

PIXMA PRO 9000 MARK II

Maximum 4800 x 2400 dpi FINE print head
technology 8-color ChromaLife100 dye ink
system Support for fine art paper up to 13" x 19"
two separate paper paths,
including front feeder for
heavyweight paper types



Canon

PIXMA MP990

Photo All-In-One Printer, 9600 x 2400 Color dpi,
USB Interface, 8.5" x 11.7" Prints,
for Mac & Windows



PHOTOSMART B8550

Compact 13" x 19" Photo Inkjet Printer
with USB Interface, for Mac & Windows



UP TO \$500 MAIL-IN REBATE WHEN PURCHASING A PRINTER TOGETHER WITH CERTAIN DSLR DIGITAL CAMERA

DIGITAL CAMERAS



For our full selection of:
SLR and Point & Shoot Cameras
Click with confidence at adorama.com



MINOX

SAMSUNG

FUJIFILM Vivitar

Panasonic

SONY RICOH

Kodak SIGMA

OLYMPUS CASIO

Canon
AUTHORIZED DEALER



THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

Canon

Authorized
DEALER

We carry the
full line and
accessories



Panasonic

Authorized DEALER

We carry the full pro line
and accessories



SONY

Authorized USA
DEALER

We carry the full line
and accessories



JVC

Authorized DEALER

We carry the
full line
and accessories



VIDEO TRIPODS

Libec

LS38(2A) Tripod
System
• Supports 17.6 lbs
• Maximum
Height 63"
• 75 mm ball
• Spreader & Case
included



MILLER

• Mini DV Systems
& DV CAM
• Arrow 25 Systems:
• Arrow 40 Systems:
• Arrow 55 Systems:
• Pro jibs • Pedestals



CARTONI

• Action Pro
• Focus
series
• Laser • Gamma
• Delta
• Master



VIDEO EDITING

Adobe

• Premiere Pro
• After Effects
• Audition
• Creative Suite
• Production
Studio



matrox

Digital Video Solutions
Professional Realtime Native
HDV and DV Editing System
with Adobe Premiere Pro
CS3 Software
for Windows



Professional strength storage
solutions for demanding
applications!

• G-RAID4 • G-DRIVE Q
• G-DRIVE-mini
• G-SAFE



VIDEO LIGHTS

**LITE
PANELS™**

• Heat-free LED technology
• Produces bright,
soft light integrated dial
for instant 100%
to 0 dimming



Frezzi

• Standard Mini-Fills
• Dimmer Mini-Fills
• Dimmer Lead Mini-Fills
• Standard Micro-Fills
• Dimmer Micro-Fills
• 10 Watt Micro-Sun
Gun HMI'S



bescor

• 20w/35w Multi-Purpose Light
• Light & Battery Combo Kits
• Studio 12v DC Broadcast Light
• Light & Battery
Combo Kits
• Dual Use AC/DC
Commercial Light



FLASHPOINT

SHOE MOUNTABLE LED

112 LED
Dimmable
Video Light

#FPL112

\$79.95



PROOPTIC

Complete Line of:
• Fish eye,
• Wide angle
• Telephoto lenses



CAVISION

Broadcast Series
3-Element Zoom-Through
Converter Lenses,
Matte boxes &
Filters



ARRI

• Tungsten lighting
• Fresnel lighting
• HMI lighting
• Fluorescent
lampheads



COOL-LUX

PRO TOOLS FOR THE TRADE

• Digi-Lux Dimmable
• Mini cool lights
• Micro lux lights
• Soft lights
• Mini soft lights
• Hollywood kits



zyllight

• Dimmable
with no color shift

• Adjustable color
temperature
• Color correction,
• Unlimited
color control



lowel

Blender,
120V & 240V LED
Light Head
with 4 Diffusers



FOCAL

Complete Line of Fish eye
wide angle and
Telephoto lenses



10XO

• Add on lenses
• Lens controllers
• Noga arms
• Chrosziel Pro
Matte Boxes



VIDEO AUDIO

SENNHEISER

Authorized Dealer

Complete line of
Shotgun
professional wired and Wireless
microphones



AZDEN

• Amateur wire-
less mics
• Professional
wireless mics
• Dual Channel
• Shotgun Mixer



ZOOM

• H4N Handy Audio
Recorder
• Q3 Handy
Video Recorder
• R16 Multi-Track
Recorder



VIDEO STABILIZING SYSTEM

GLIDECAM

Complete line of
stabilizers and vests from
the small Mini DV
cameras to the
full size camera



Varizoom

Full line of
Controls,
Stabilizers
and Batteries for
the prosumer and
cameras



STEADICAM

• Merlin
• Flyer
• Pilot
• Accessories



VIDEO CASES

Petrol

Petrol Compact Camcorder
Bag for Mini-DV/HD
removable dividers
fits official carry on
regulations.



**porta
brace**

Tough nylon oxford mate-
rial waterproof
coating,
quick to
deploy



**porta
brace**

Ideal for compact pro mini DV/HD
Camcorders DuPont 1000 Denier
Cordura, water repel-
lent finish



**anton
bauer**

The source of
professional
Batteries, chargers
and battery
adaptors



bescor

A complete
line of
battery packs
& Belts



I.D.

The professional's choice
for V mount and NP style
batteries and chargers



42 West 18th Street New York, N.Y. 10011
info@adorama.com adorama.com

ADORAMA INC.
Source for the Educated Photographer

STORE: 212-675-6789

Store & Mail Order Hours: Mon.-Thurs. 9-8:00pm
• Fri to 3:30 (Store till 2:00) • Sun. 9:30-5:00

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

DIGITAL PHOTO FRAMES

COBY**DP-1452 14"**

with MP3 Player,
Wooden Frame

CYDP1452

**TouchConnect****10" WI-FI**

ICDPJ155

800 x 480
Pixels, with
Internal
802.11b/g and
2 GB Flash
Memory

**Kodak****Easysshare D830 8"**

with Quick Touch Border
and 512MB Internal Memory

IKKD830

**SONY****DPF-X1000/B 10.2"**

with 15:9 Aspect
Ratio LCD, USB Input,
Bluetooth,
Capacity Up to
4,000 Images
and HDMI
Output

ISODPFX1000B

**PANADIGITAL****Panimage 10.1"**

Black & White
Interchangeable Mats

PANP11003DW

**Estarling****Mustek****TRICOD INC.****TAO****PHILIPS****IMPECCA****SUNPAK****Digital Spectra****PORTABLE****USA****IMPECCA****SUNPAK****FLASHPOINT****Finger Shooting Glove**

Shoot in the cold with your gloves on your hand allows
you to use thumb and index fingers.

- Quick-release will keep the gloves in place
- Slip resistant pad palm with abrasion overlay
- Adjustable Strap, allows you to wear it around the Wrist to help prevent loss of glove
- Easy openable thumb and index finger design allows easy access to everything you need on your device

FPSGL **\$19⁹⁵**

Available in 3 sizes



NEW

PHOTO ACCESSORIES

westcott**Green Screen
Digital Photo Kit**

with 5' x 7' Green Screen,
Wall Mounts & Software

#WEDPK

\$69⁰⁰**Vertex Light Modifier, for
any Portable Shoe Mount
Electronic Flash**

#LTPVERTEX

\$36⁵⁰**FLASHPOINT****Gimbal Head 1N with Quick Release**

used with lenses that are
too heavy to be supported
by a standard style ball
head. There are separate locking
controls for vertical and horizontal
movements and the drag control
allows for better control when
panning.

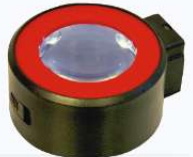
#FPGH

\$239⁰⁰

POPULAR
PHOTOGRAPHY
BEST BUYS 2010

**VisibleDust****Brite Vue XL
Sensor Loupe 7x**

#CPVLS7

\$89⁰⁰**flipx bac**

ANGLE VIEWFINDER

3" Angle Viewfinder

and LCD Screen Protector
for Digital Cameras

#CZFB3B

\$18⁹⁵**GARYFONG****Origami Diffuser -
Fold Flat Flash
Diffuser**

#GAO

\$29⁰⁰**b-grip**

Easy Access Belt Clip Holder
for Cameras and
Camcorders

#CZPOP9

\$49⁰⁰**Honlphoto**

Speed
Strap for Shoe Mount Flashes

#FAHSS

\$9⁰⁰**FLASHPOINT****Tilt adapter**

for Nikon lenses
to -m4/3 camera

#CZPUYS

\$179⁰⁰**NEW****FLASHPOINT****Soft Box, 16" x 16"**

#FASSB

\$39⁰⁰

For Shoe Mount Flashes

- It allows you to use the flash softbox either on your camera, or on a light stand.
- Converts flash from a harsh directional light into a much softer diffused light.
- Folds flat for easy storage.



THE ULTIMATE IN PHOTO SHOPPING: adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

Your pop-up flash pictures don't have to be UGLY!!

Professor Kobré's
Lightscoop™
"produces nuanced,
natural, flattering light
on your subject; the
before-after difference
is incredible."
David Pogue, *New York Times*



\$19.95
Exclusive
At Adorama.com



Simply redirect the pop-up
flash with Professor Kobré's
Lightscoop to produce
pro-like lighting
with these cameras:

Canon 100, 200, 300, 400,
Canon Rebel XT, 400, XT,
350, Nikon D40, D40x, D50,
D60, D70, D70s, D80, D100,
D200, D300, Pentax K100,
K200, K1000, K200D,
Sigma SD14, Fuji FinePix
Pro S series.

Standard Lightscoop shown.
Warning Lightscoop also
available.

Patent Pending.

FILTERS

heliopan



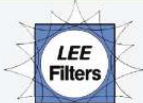
See our web site for our
full line of heliopan Filters

cokin



10% OFF
When You Buy
3 Cokin Filters

We are one of the largest Cokin
Stocking Dealers in the USA



See our web site for our
full line of LEE Filters



5% OFF
When You Buy
3 B+W Filters

HOYA FILTERS



10% OFF
When You Buy
3 Hoya Filters

TIFFEN Digital HT™



Take a virtual reality tour of Digital HT
filter effects at tiffen.com

Digital HT™

A Major Breakthrough in Multi-Coated Filter Technology

Tiffen's Digital HT filters are available as:

- Digital Ultra Clear™
- Haze 86
(with 86% UV absorption)
- Circular Polarizer
- 812° Warming Filter
- ND 0.6
- ND 1.2
- Soft/FX® 3
- Star 4 Point 2
- Color-Grad® ND 0.6



In sizes 52mm-82mm with
distinctive soft pouch for storage.

- Superior Transmission
- Easy-to-Clean Surface
- Low-Profile Filter Ring
- Distinctive Titanium Finish
- Anti-Reflective Lock Ring
- Water-White Glass
- Scratch Resistant
- Tough and Durable
- 10-Year Warranty
- Made in USA

TIFFEN Dfx

digital filter suite

Unlike other
digital software,
Tiffen Dfx offers
effects that simulate the extensive
range of Tiffen's world renowned opti-
cal filters, plus much, much, more.

Available as a Stand-alone application
and as a plug-in for Apple Aperture,
Final Cut Pro, Adobe After Effects,
Photoshop and Avid Editing Systems.

Go to tiffen.com
for free 15-day trial version.



Tiffen Digital Filter Kits

Pre-assorted Kits

No guesswork!
Get more – pay less

Also Available
DV Video Kits

Digital Enhancing Kit

Digital Ultra Clear, Circular Polarizer, 812°, ENHANCING®, Pouch

Digital Pro SLR Kit

Digital Clear, Color-Grad® ND 0.6, Pro-Mist® 2, Cleaning Cloth, Pouch

Wedding Portrait Kit

Warm Soft/FX® 3, Black Pro-Mist® 3, Warm Pro-Mist® 3, Pouch

Wide Angle Kit

Wide Angle UV Protector, Circular Polarizer, ENHANCING®, Pouch



U.S. POSTAL SERVICE STATEMENT OF OWNERSHIP, MANAGEMENT, AND CIRCULATION (Required by 39 USC 3685)

1. Publication Title: Popular Photography;
2. Publication No. 0504-890; 3. Filing
Date: 9/30/10; 4. Issue Frequency:
Monthly; 5. No. of Issues Published
Annually: 12; 6. Annual Subscription Price:
\$14.00; 7. Complete Mailing Address of
Known Office of Publication: Bonnier
Corporation, 2 Park Avenue, New York,
NY 10016; 8. Complete Mailing Address
of Headquarters or General Business
Office of Publisher: Bonnier Corpora-
tion, 2 Park Avenue, New York, NY
10016; 9. Full Names and Complete
Mailing Addresses of Publisher, Editor,
and Managing Editor: Publisher: Gregg R.
Hano, Bonnier Corporation, 2 Park
Avenue, New York, NY 10016; Editor:
Miriam Leuchter, Bonnier Corporation, 2
Park Avenue, New York, NY 10016;
Managing Editor: None. 10. Owner:
Bonnier Corporation, 460 N. Orlando
Ave., Suite 200, Winter Park, Orange
County, Florida 32789; Terry L. Snow, P.O.
Box 8500, Winter Park, Orange County,
Florida 32790; 11. Known Bondholders,
Mortgagees, and Other Securities: None;
12. Tax Status (for completion by
nonprofit organizations authorized to
mail at nonprofit rates): Has Not
Changed During Preceding 12 Months;
13. Publication Title: Popular Photogra-
phy; 14. Issue Date for Circulation Data
Below: September 2010; 15a. Total
Number of Copies: 411,540 (September
2010: 405,397); b. Paid Circulation: (1)
Mailed Outside-County Paid Subscrip-
tions Stated on PS Form 3541: 322,406
(September 2010: 322,759); (3) Paid
Distribution Outside the Mails Including
Sales Through Dealers and Carriers,
Street Vendors, Counter Sales, and
Other Paid Distribution Outside USPS:
26,922 (September 2010: 26,801); c. Total
Paid Distribution: 349,328 (September
2010: 349,560); d. Free or Nominal Rate
Distribution: (1) Free or Nominal Rate
Outside-County Copies Included on PS
Form 3541: 543 (September 2010: 829);
(3) Free or Nominal Rate Copies Mailed
at Other Classes Through the USPS: 286
(September 2010: 124); e. Total Free or
Nominal Rate Distribution: 829
(September 2010: 953); f. Total Distribu-
tion: 350,157 (September 2010: 350,513);
g. Copies not Distributed: 61,383
(September 2010: 54,884); h. Total:
411,540 (September 2010: 405,397); i.
Percent Paid: 99.76% (September 2010:
99.73%).

adorama.com • 800.223.2500

Store & Mail Order Hours: Mon.-Thurs. 9-8:00pm

• Fri to 3:30 (Store till 2:00) • Sun. 9:30-5:00

ADORAMA
Source for the Educated Photographer

True PDF release: storemags & fantamag

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

MP3 PLAYERS



In Store Sales Only

SanDisk

Sansa Clip+ Series

1, 2, 4 GB MP3 Player,
(Red, Black, Silver, Pink, Blue)

COWON

V5 MP3

4.8-inch Display, 720p Video Playback, HD TV-Out,
SD/SDHC Expansion Slot
Music & Video Player, Voice Recording, Picture &
Text Viewer, Flash, Games

J3

16M Color 3.3" AMOLED / Jet Effect 3.0 & BBE+
Micro SD Card / Slot Built-in Speaker
Bluetooth / G-Sensor / TV-Out
Music / Videos / Pictures / Documents / FM Radio
Voice Recorder / Flash Player / Dictionary
64 Hrs of Music & 11 Hrs of Video Playback

COBY

MP-705

4, 8, GB Super Slim MP3 & Video Player
with 2" TFT LCD & Touchpad Control

MP-836

4, 8, 16, GB MP3 & Video Player with 3" LCD
High-Resolution Touchscreen TFT LCD Display,

WIDE FORMAT PRINTERS



Stylus Pro 4880

17" Colorburst Inkjet Printer,
2880 x 1440 DPI Resolution,
16-bit Printer Drivers
with USB 2.0 & Ethernet
Interfaces



Canon

imagePROGRAF iPF6100

Photo Inkjet Large Format Printer
8" - 24" Paper Width, with Ethernet and
USB 2.0 Interface



SCANNERS

EPSON

Perfection

V700

Photo Photo
Flatbed
4800x9600
dpi, 48 bit,
built-in 8"x10" Transparency Unit, USB
2.0 & FireWire



plustek

OpticFilm 7500iAI Film Scanner

for 35mm Slides
and Negatives,
Color CCD Image
Sensor Technology,
USB 2.0 Interface



FLASHPOINT

3-in-1 Digital Photo / Negative Films / Slides Scanner with built-in 2.4" LCD Screen

Users can view their scanned photos through a digital picture
frame or upload to a computer.
Simply plugging it into an AC outlet.

\$119⁹⁵



PrimeFilm 7250 Pro3

35mm Film Scanner
with 7200dpi,
USB & Firewire
Interface



Canon

CanoScan 9000F

Flatbed
Scanner with
9600 x 9600
Optical dpi,
USB 2.0
Interface



DIGITAL STORAGE

EPSON

Multimedia Storage & Viewer,
with USB 2.0 Interface & 4" LCD

P3000 40 GB.....IESP3000
P6000 80 GB.....IESP6000
P7000 160 GB.....IESP7000



Wolverine

ESP Multi-Media Player with built-in 7 in
1 Memory Card Reader 3.6" wide view
angle TFT LCD with adjustable Back Light
multiple features

80 GB.....WVESP80
120 GB.....WVESP120
160 GB.....WVESP160



DIGITAL FOCI

Photo Safe II,
Portable Picture
Storage Hard
Drive with Card
Reader, USB
Interface.



IOBIO

Giga VuSonic Multimedia
Photo Storage System and
Viewer for Professionals

Giga Vu Sonic Pro Picture Store

160 GBICDGV5160
250 GB.....ICDGV5250
500 GB.....ICDGV5500

Giga One Sonic Portable Storage Device

120 GBICDGI1S120
160 GBICDGI1S160
200 GB.....ICDGI1S200



HYPERDRIVE

Memory Card Backup Device SPACE

- Fastest Memory Card Backup
- Fastest USB Transfer Speed
- Most Powerful Battery
- Directly accept 18 different card types
- Unlimited capacity



Space	Color	Color "0"	UDMA
40GB	40GB	40GB	—
80GB	80GB	80GB	120GB
120GB	120GB	120GB	160GB
160GB	160GB	160GB	250GB
—	250GB	250GB	320GB
—	—	500GB	500GB

FLASHPOINT

Portable Picture & Data Storage Hard Drive
with USB Interface & Memory Card Reader

320 GB

159.95

500 GB

199.95

NEXT TO DI

NVS2500 Video Storage
Pro Portable Backup
Storage Device

500 GB

1999.99

memoryKICK

MediaCenter HDD
Portable Multimedia
Photo Viewer & Manager
with USB 2.0 Interface
- Silver

120 GB **259.99**



INKS, RIBBONS, & TONERS

See Our Web Site
for A Full Listing of

Inks, Ribbons, & Toners



OLYMPUS SONY Kodak hp

EPSON brother hiti Canon

MEMORY CARDS



SEE OUR WEB SITE FOR OUR FULL LINE & PRICES

Customer Relations 800-815-0702 212-741-0466
Mon-Thurs. 9-4:30, Fri. 9-1, EST • FAX # 212-463-7223

ADORAMA INC.
Source for the Educated Photographer

STORE: 212-675-6789
Store & Mail Order Hours: Mon.-Thurs. 9-8:00pm
• Fri to 3:30 (Store till 2:00) • Sun. 9:30-5:00

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

FLASHPOINT

Budget Studio Flash 100/160

- This economically priced AC strobe will allow you to create professional lighting results.
- The 110 volt unit plugs into any standard household socket.
- It has a circular flash tube that is daylight balanced at 5600 K, a guide number of 90 at ISO 100 and a recycling time of 4 seconds. It also comes with a 60 watt modeling lamp.
- The Budget Studio Flash can be triggered through the camera with its 12' sync cord (included), by another flash being fired and activating the built-in photo slave or through its open-flash test button.
- Specs: 6-1/2" long, 3-1/2" diameter. Weighs only 15 ounces.

- All the features of the Adorama Budget Studio Flash and has:
- More power GN 150 at iso 100
- User replaceable flash tube

Replacement
Flash Tube #FPBFFT **\$19.95**



#LTBF **\$49.95**



#FPBF160 **\$59.95**

SSB 20"x27" Softbox with fluorescent Bulb



20" x 27" softbox is easy to assemble, just snap the hardware into place. No rods to struggle with; no speed rings to align with the rods. The unit comes with an 70 watt flicker-free fluorescent, spiral bulb. An energy saver bulb. The Flashpoint SSB can be used with Digital Cameras or Camcorders and is great for shooting portraits, or still life. And, when you're done (after removing the bulb) the unit folds together easily like an umbrella.

\$39.95

Flashpoint 2-Light SoftBox Kit
w/ Stands & Carrying Case #FPSBK2 **\$119.95**

BARNDOORS

Four leaf barndoors designed to direct light and prevent light spill or camera lens flare

#LTBBD **\$9.95**



SNOOT

Restricts light output to a narrow beam. It can be used as a hair light or for creative highlights,

#LTBSH **\$11.95**



FILTER SET

Yellow, Green, Red & Blue

#LTBFS



\$9.95

SOFT BOXES

For the Budget Monolights.

12"x12" #LTBSB12 **\$19.95**
18"x18" #LTBSB18 **\$29.95**
20"x28" #LTBSB2028 **\$29.95**
24"x36" #LTBSB2436 **\$39.95**



AC Master Slave

with PC Connection, Guide Number of 90 at ISO 100.

#LTACS **\$19.95**



AC Slave Flash

Guide number 90 at ISO 100.

#LTACMS **\$18.95**



"C" Shaped Adjustable Bracket

with 2 Shoes & 2 Tripod Screws

- Sturdy construction weighs only 13 oz.
- 3 section telescopic tube extends to 26 1/2", retract to 12" and vertically
- Reduces Shadows and "Red Eye"

#FABC **\$12.95**



Large Spring "A" Clamp

with 1-1/8" Opening & 5" Jaw Length

#LTCA2C **\$4.95**



3" Spring Clamp with 2" opening

Good for holding backgrounds, wires.

#LTCA2 **\$3.45**



Pro Clamp with Reversible Mounting Stud. 1/4 x 20 and 3/8 Screw Threads.

Can be securely mounted on any tube from .5" to 2.1"

#LTPC

\$16.95



100 watt Light

with 12V Battery, Charger and Car Adapter

Color temp- 3200K
100 watt bulb, large lead acid battery, and cigarette adapter for continuous lighting

#FPVL100

\$72.95



Fluorescent Bulbs

	Buy One	Buy 4+
24w	\$5.25	\$5.25ea.
30w	\$6.95	\$6.95ea.
45w	\$7.99	\$6.95ea.
70w	\$19.95	\$18.95ea.
85w	\$19.95	\$18.95ea.
125w	\$23.95	\$21.95ea.

#FPFB



BUY A FLASHPOINT BUDGET KIT & SAVE

Budget Studio Flash Kit #1 \$199.95

- OPTION 1
- 2 - Budget Studio Flashes
 - 2 - 7" Light stands
 - 2 - 33" White Umbrellas with Black Cover
 - 1 - Deluxe carrying case
 - 1 - Barndoors For Budget & Ac Slave
 - 1 - Snoot F/Budget Flash

#LTBK1 **WITH 100 FLASH**

- OPTION 2
- 2 - Budget Studio Flashes
 - 2 - 7" Light stands
 - 1 - 33" White Umbrellas with Black Cover
 - 1 - Deluxe carrying case

#FPBK1 **WITH 160 FLASH**



Two Light Softbox kit

with Fluorescent Bulbs, Stands and Carrying Case

A fluorescent lighting system for the really complex lighting needs! Photograph large products for the internet with professional results. comes with softboxes for a soft light effect. This is truly a studio or location kit ready for anything!

#LT02S **\$109.95**



3 Light Fluorescent Outfit

with Stands, Umbrellas, Bulbs, 5.5" Reflector and Deluxe Case.

(LTSP7)

\$159.95



Customer Relations 800-815-0702 212-741-0466
Mon-Thur. 9-4:30, Fri. 9-1, EST • FAX # 212-463-7223

ADORAMA INC.
Source for the **Educated Photographer**

STORE: 212-675-6789
Store & Mail Order Hours: Mon.-Thurs. 9-8:00pm
• Fri to 3:30 (Store till 2:00) • Sun. 9:30-5:00

True PDF release: storemags & fantamag

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM

FREE SHIPPING

on thousand of items!
for complete details, call or
visit us online at adorama.com

30 DAYS MONEY-BACK

satisfaction guarantee
for complete details, call or
visit us online at adorama.com

WE BUY & TRADE

used photo/video equipment
for more details visit adorama.com/sell

FLASHPOINT

A/C - D/C Monolight

Designed with the latest in high-tech features. It is compact, lightweight and delivers the performance that gives you a definite competitive edge.

The Flashpoint M series is supplied with an AC cord for out-of-the-box use. Using our DC battery power pack (FP2PP) converts it into a portable unit that can be used outdoors.

They have variable flash power settings, a flash-ready indicator and a built-in slave.

- Choice of AC or DC powered operation (Battery power pack (FP2PP) sold separately).
- Rugged Housing • Flash Ready Light
- Step less Power Output Control from Full Power down to 1/32 Power
- User Replaceable Flash Tube and Modeling Lamp
- Separate Modeling Lamp Controls
- Built-in Slave. Can be Turned Off
- Low Sync Voltage, only 6 volts! Safe for all cameras.

Available Kits

- 320M 150 w/s
- 620M 300 w/s
- 1220A 600 w/s
- 1820A 900 w/s
- 2420A 1200 w/s



SEE OUR WEB SITE FOR THE FULL LINE OF FLASHPOINT LIGHTING KITS



4 Leaf Barndoor
\$29.95



Snoot
#FP2SN \$44.50



16" Soft Flood Reflector (Beauty Dish)
#FP2BD16W \$44.95



9"x36"E \$49. 32"x48"E \$64.
16"x70"E \$59. 30"x60" \$69.
24"x24"E \$39. 36"x36"E \$79.
24"x36" \$59. #FP2SB



#FPFT
320 \$29.95
620A \$34.95
1220A/1820A \$39.95
2420 \$49.95



CLAMP
with 8" Flex Arm
\$9.95



CLAMP
with small Ball & Socket Head
\$9.95



"Q" SERIES OF LIGHT MODIFIERS FOR SHOE MOUNT STROBES

They are great for on-location photography or work in a small studio.

"Q" kit

Consists of a beauty dish reflector, snoot, diffuser dome and an accessory pack for the beauty dish reflector.

\$139.95



Beauty Dish Reflector.....\$4.95

Accessory Pack\$4.95

Diffuser Dome.....\$4.95

Snoot\$4.95

BELLE DRAPE

Muslin Backgrounds

Our Muslins Feature:

- Lightweight – easy to carry
- Available in 2 size '10x'12 & '10x'24
- Rich vibrant colors because of layering techniques during dyeing.
- 100% Cotton Muslin Backgrounds
- Color never fades or loses its vibrancy or depth.
- 4" hemmed loop for hanging on a crossbar
- Dozens Of Colors In Solids, Splatters, Old Masters and Scenics

Get 10% OFF When You Buy Any 3 Belle Drape Backgrounds



For A Complete Selection See Our Web Site

STARTING AT
\$39.95

#BD

Cool Light 4, Kit

16" Reflector with 10' Air Cushined Light Stand and Four 24W Fluorescent Bulbs, 480 Watt Equivalent.

- 16" reflector with hardware to plug in AC. and to mount an umbrella. Flicker-free noiseless operation.

- Separate switch for each bulb.



FREE DIFFUSER

#FPCL4

\$99.95

Cool Light 4

- 1- 16" Reflector
- 4- 45W Fluorescent Bulb
- 1- 10' Air Cushined light stand

#FPCL4K

\$79.95

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM

PHOTO ACCESSORIES

FLASHPOINT

5-in-1 Collapsible Disc Reflector,

Translucent,
White, Black,
Silver & Soft Gold

Perfect for reducing contrast, warming skin tones, eliminating shadows or just softening light. They can be hand held or attached to a light stand with the extendable Reflector Holder



22" #FPPR5122

\$17.95

32" #FPPR5132

\$29.95

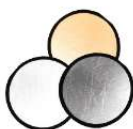
42" #FPPR5142

\$33.95

Circular Collapsible Disc Reflector

Available in: Silver/White, Gold/White, Silver/Gold.

Sizes: 12" – 52"



Portable Reflector Bracket

Sizes: 22" – 58"

Shown With Stand & Translucent Reflector

#LTPRB

\$29.95



Power Zoom Shoe Mount Flash

940AF TTL, Red focus assist beam for low light
Dedicated for Canon, Nikon, & Sony

#FA940

\$129.95



Shoe Mount Twin Strobe

RL1200 Universal- can be used
with Digital or Film Cameras. GN138

#FARL1200

\$69.95



DESHADOW BOX 16"X16"

Portable Still Life Studio In-A-Bag,
with 16" x 16" Soft Light Box, Halogen
Lamps, Blue Background Sweep,
Custom Carrier & Camera Stand

VRDS81616

32.95



ADORAMA INC.
Source for the **Educated Photographer**

COSTA RICA

CONTINUED FROM PAGE 81



through November). Scout tripod holes beforehand (best views are on the way to Tabacón hot springs from La Fortuna), as skies may clear only very briefly. Look for a foreground—tree groupings most commonly—that can be used to frame the volcano and give scale to the scene. If you're

blessed with a clear view,chimp your LCD histogram for the best-looking exposure, especially if shooting at night.

Wildlife, Free and Captive

You'll encounter plenty of wildlife as you motor from lodge to lodge. You may get good photos of coati-mundi, deer, armadillo, sloth,

**GLIDING
LEAF FROG
NEAR JACO**

Tim Fitzharris used image stabilization to shoot handheld with a Canon EOS 5D and 70-200mm f/4L Canon EF IS lens with 25mm extension tube; f/8 at 1/125 sec, ISO 640.

**HOWLER
MONKEY,
OSA
PENINSULA**
Fitzharris had his EOS 3 with 500mm f/4L lens on a tripod with gimbal head; 1/500 sec at f/5.6 on Fujichrome 100.

anteater, and giant iguanas.

Visit the numerous *ranarios* (for frogs and snakes) and *mariposarios* (for butterflies), advertised in tourist centers (Arenal Volcano, Manuel Antonio National Park). The creatures often are in natural walk-through enclosures. In private *ranarios*, for a small fee handlers will place specimens in settings of your choice.

WILDLIFE ON-THE-RUN TIPS:

Keep your camera ready to use by leaving it turned on, setting controls for autofocus and aperture-priority autoexposure at maximum aperture, activating image stabilization, and mounting a moderate telephoto or telezoom lens (300mm) with lenshood.

Costa Rica protects more than 25 percent of its land in parks and preserves, making it a vast playground for nature photographers. Do your research and start packing! 🌿

**WHERE TO GO**

For an overview of Costa Rican travel, visit www.costaricabureau.com. Here are some of my favorite stops, all in beautiful settings.

WILDLIFE LODGES**■ Rancho Naturalista**

Two hummingbird photo locales, a fruit feeder (refilled each morning) and a unique hummingbird bathing site lure a variety of subjects, including the rare snow-capped hummingbird. (www.ranchonaturalista.net)

■ Savegre Mountain Lodge

Nestled in a secluded pocket valley beside a trout stream, these hummingbird feeders literally swarm all day long. Just down the road is a photo-dependable hangout for the highly-sought resplendent quetzal. (www.savegre.co.cr)

■ Lookout Inn Lodge

High on a hill above the Pacific next to Corcovado National Park on the Osa Peninsula, this wilderness site is the place to shoot scarlet macaws in flight. Best time is when they are feeding in the date grove below the lodge. (www.lookout-inn.com)

BEACH SITES**■ Playa Carillo**

Near the laid-back town of Samara in Guanacaste, this beach boasts excellent sunrise/sunset orientation, sand, rocks, and palm groves, plus large undeveloped sweeps of sand.

■ Manuel Antonio National Park
Costa Rica's top tourist destination, this compact collection of beaches offers all-natural settings with boulder, sand, lagoon, and palm-fringed forests, accessorized with tame monkeys.

■ Mal Pais

This surfer-friendly outpost on the Nicoya Peninsula is a gateway to off-the-beaten-path beaches (Santa Teresa, Hermosa, Playa Carmen) best accessed by four-wheel drive along the primitive coastal route.

Nature photographer and filmmaker Tim Fitzharris is author of the best-selling National Audubon Society series of photography guides and producer/director of the feature film, *A Far Away Life* (www.afarawaylifemovie.com). See lots of his images at www.timfitzharris.com.

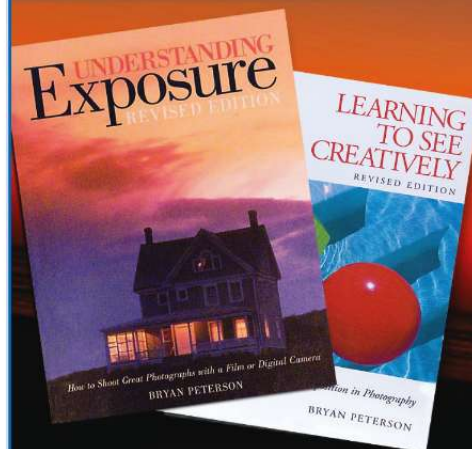
THE ULTIMATE IN PHOTO SHOPPING:
adorama.com

WE'RE GIVING AWAY
THOUSANDS OF DOLLARS
IN CASH AND PRIZES

Think you
have the
**PERFECT
PICTURE?**

Bryan F. Petersen, world re-renowned author and photographer and the founder of PPSOP.net, the world's #1 on-line photo school AND Adorama are thrilled to announce the most ambitious and rewarding photography contest in the world!

Get all the details now at:
www.ppsop.net/contest



the PERFECT PICTURE school of photography
www.PPSOP.net

ADORAMA INC.
Source for the Educated Photographer

adorama.com

SAME DAY SHIPPING

on orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items

UNDERWATER



Print File

ARCHIVAL PAGES

Sheets.....	25	100
35mm Slide Pages	9.95	29.95
Most Negative Pages	6.95	19.95
Ultima Negative Pages.....	8.50	28.95
Contact Pages.....	9.95	39.95
Print Pages.....	9.95	—
Work Box 2.5"	14.75	



PRO ALBUMS

We Carry The Complete Lines



- Albums & Folios
- Photomounts
- Presentation Boxes
- Photo Lacquer
- Mounting Board
- Proof Albums
- Memory Mates
- CD Holders
- and much more

RENAISSANCE
RENAISSANCE ALBUMS

CAPRI
ALBUM

flora
PROFESSIONAL ALBUMS™

B. Oshrin
Since 1895 Ltd.

TAP

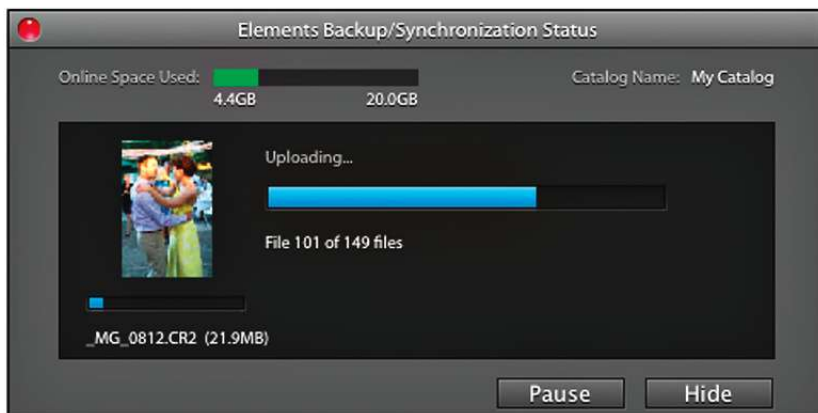
Professional Photo Packaging™

Florence

LEATHER ALBUM DESIGNS
THE PROFESSIONALS' CHOICE

ADORAMA INC.
Source for the Educated Photographer

LAB * SOFTWARE REVIEW ADOBE PHOTOSHOP ELEMENTS 9



CONTINUED FROM PAGE 98

ing between pages is fairly slow. You can't move images from one page to another, and if you choose more pictures than the layouts can fit, whatever's left over is unceremoniously excised. For shorter books made from medium-resolution photos, though, it's just fine.

Online Backup

The Photoshop.com service is becoming an even bigger part of Elements. Sign up for free, and you get 2GB of online storage. To facilitate automatic online backup, toss your photos into an album and check the box for Backup/Sync. Elements will automatically back them up to Photoshop.com behind the scenes, and keep you apprised of its progress in a small pop-up window. If you run Elements on multiple computers, you can use Photoshop.com to sync their photo libraries. Either way, your pictures will be available anywhere online.

And if you share to Photoshop.com via an online album, you'll be able to show what's synced to your family and friends. The viewing interface is well-designed and, if you permit it, your viewers will be able to download high-res files and either print them at home or order prints via Shutterfly. It's much more elegant, less clut-

Backup and Sync runs in the background, uploading while you work on other things. Check the status window (above) to see how it's going.

tered, and slightly more private than many photo-sharing sites, and a great choice if lots of people are itching to see your pictures.

If you shoot mostly JPEGs and share a lot of pictures, you should consider an upgraded membership: For \$50 per year, you'll get 20GB of online storage. Note, though, that if you shoot a lot of RAW, or want to back up edited TIFF files, you'll likely run out of this expanded space in short order. But lovers of slideshow, collage, and greeting-card graphic themes will enjoy the extra, seasonal content that also comes with the upgrade to Photoshop.com Plus.

Is Elements for You?

Despite the happy addition of some sophisticated editing tools, Elements remains a program best for hobbyists rather than truly committed photographers.

The biggest reason? Its handling of RAW files. Sure, a version of Adobe Camera Raw is included, but ACR's tools are slight compared with those in Lightroom or Photoshop. For instance, there's no syncing settings between shots, no built-in lens correction or retouching tools, and no exporting in batches.

THE ULTIMATE IN PHOTO SHOPPING:

adorama.com

SAME DAY SHIPPINGon orders placed till 6:00PM EST
Monday thru Thursday, Friday till 1:00PM
on most in-stock items**FREE SHIPPING**on thousand of items!
for complete details, call or
visit us online at adorama.com**30 DAYS MONEY-BACK**satisfaction guarantee
for complete details, call or
visit us online at adorama.com

Once you open your file, you're stuck converting down to the sRGB color space (Elements doesn't support others, not even Adobe RGB) if you want to retouch it in the Editor. And while sharing RAW files or adding them to a slideshow is possible, the process takes forever compared with doing this using JPEGs.

So if you have a DSLR and plan to get into shooting RAW, Lightroom or Apple Aperture is probably a better purchase. On the other hand, if you already use one of those programs but are looking for a way to do retouching with layers without breaking the bank, Elements will work as your external editor—that is, as long as you don't mind working in sRGB and 8-bit instead of 16-bit color.

Rival Corel PaintShop Photo Pro X3 has very similar strengths and weaknesses—its edits are also limited to the sRGB color space, and it also excels at organizing and sharing. Corel has Curves, which Elements lacks, but Elements has the benefit of some more elegant algorithms inherited from Photoshop, making for often comparatively smoother and speedier fixes. PC users who are on the fence may be equally happy with either, but, because Corel is PC-only, Mac users won't have that choice.

Elements doesn't offer an upgrade option, so it will only be worth trading up to this version if you're currently using versions 6 or 7. The transition from 8 to 9 is too subtle to make a repurchase advisable, unless you are a Mac user clamoring for the Organizer.

Still, for photographers who don't have a robust image editor yet, and who shoot mostly JPEGs and want a quick way to organize, share, and fix their photos, Elements remains one of the best—and most economical—options out there.

—Debbie Grossman

SOFTWARE**Photoshop Lightroom 3**Simplify photography
from shoot to finish**Design Standard CS5**Consists of
• InDesign® CS5
• Photoshop® CS5
• Illustrator® CS5
• Acrobat 8
Professional**Creative Suite 5 Design Premium**Same as the Standard Plus:
• Photoshop® CS5
Extended
• Flash® CS5
Professional
• Dreamweaver CS5**Eye-One**

Display 2, LT Monitor
Clr Profiling Solution\$149
ColorMunki Photo\$399
Display 2, Complete
Monitor Color Profiling Solution\$199
Basic Pro Clr Management Solution\$995
Basic UV Cut\$899
Proof Cmpnt W/Pc Train\$1149
Xt Cmpnt W/Pc Train\$1299
Xt UV Comp W/Pc Train\$1299
Xtreme Pro Color Mngmnt\$1495
Xtreme UV Pro Clr Mngmnt\$1495

From capturing images to
digital editing and printing
your work,
Designed for the way
photographers work

Spyder 3 Elite (English)\$224.00
Spyder 3 Print (English)\$349.00
Spyder 3 Studio (English)\$529.00
Spyder 2 Colorimeter suite\$116.95
Spydercube\$44.95
Spyder 3 express\$89.95
Spyder 3 print "SR"\$299.95
Spyder 3 tv\$79.95



Dfine 2.0 Image Editing Software\$79.95
Color Efex Pro 3.0 Complete\$274.95
Color Efex Pro 3.0 Select\$139.95
Sharpener Pro 3.0 Complete\$164.95

Sharpener Pro 3.0 Upgrade\$99.95
Silver Efex Pro\$149.95
Viveza Software\$209.95
Complete Collection
for Lightroom & Aperture\$249.95
Super Bundle: Dfine 2, Viveza,
Color Efex 3, Sharpener 3, Silver Efex \$399

**Adobe Photoshop CS5**Full Version Image Editing
Software with powerful
new photography tools
and breakthrough capa-
bilities for complex image
selections #ABPSC5Classic, Digital
Album Creation
Software,
Full Version 5.1 for Windows 2000 or XP
.....\$429.95

Art Gold, Digital Album
Creation Software
5.1 for Windows 2000 or XP
.....\$599.95

BINOCULARS**EL Series**

SWAROVSKI
OPTIK
10 x 42 EL, Water
Proof Roof Prism
Binocular with
6.3 Degree Angle
of View, Green,
U.S.A. Limited
Lifetime Warranty

**BR Ultravid**

Leica
Water Proof
Wide Angle Roof Prism
Binocular with 6.6 Degree Angle
of View, Black, U.S.A.



We
Stock The Full Line

**Monarch**

Nikon
8 x 42
Monarch,
Water
Proof
& Rubber
Armored Roof Prism
Binocular with 6.3 Degree Angle
of View, U.S.A.

**Yardage Pro**

Bushnell
7 x 26 Pinseeker
1500 Laser

Rangefinder
with Slope
Feature, for Golf,
1,500 Yard Range.

**FL Victory**

ZEISS
10 x 42 FL
Victory,
Water
Proof
Abbe-Koenig
Roof Prism Binocular
with 6.3 Degree Angle of
View, U.S.A.

**VANGUARD**

WINCHESTER
PENTAX
LEUPOLD
PREMIER SELECT
CELESTON
DEALER

FUJINON

MEADE
MINOX
STEINER
SWIFT
tasco

PERSONAL PLANETARIUM**SKYSCOUT**

Introducing the SkyScout from Celestion:
The SkyScout is a revolutionary, one of
a kind, patented handheld device that
instantly identifies and/or locates any cele-
stial object visible to the naked eye, providing
educational and entertaining information, both
in text and audio.

A fun learning tool for all ages, the SkyScout personal planetarium puts the
knowledge of an expert astronomer in the palm of your hand.
Item Includes: Carry Case, Earphones, Hand Strap, USB Cable

**SPOTTING SCOPES**

SPOTTING SCOPES

ADORAMA
Source for the Educated Photographer

www.adorama.com • 800.223.2500



Sun Blessing

Robert Hooman shoots Brooklyn's enclaves

I MOVED TO New York City in 1996, and for the past five or six years I've spent a lot of time photographing Brooklyn. I'm interested most in the differ-

ent communities in various neighborhoods. Though I've been interested in the Hasidim in South Williamsburg, I haven't had many opportunities so far to

See more of Robert Hooman's work at www.roberthooman.com.

photograph them. Many of their events are memorial, and many exclude film or video equipment.

One spring weekend in 2009, I woke very early and heard a news report about the Sun Blessing, an event that's very significant to the community. It only takes place once every 28 years—it's based on a cycle recorded in the Talmudic calendar, and according to their faith it signifies the solar anniversary of the beginning of the world. Seeing that it was very near to where I live, I jumped on my bike with my Nikon D200 and 17–55mm f/2.8 Nikkor lens and headed over.

I arrived near 5 a.m., just before the gathering started. For the first couple of hours I just spoke to the people who were arriving, asking them questions. No one minded me being there, and I think that it helped that it was a celebratory event—they were mainly waiting for the Grand Rebbe to arrive and hear him speak.

They'd erected a platform for him, about 10 feet above the crowd, and at some point someone said to me, "Do you want to go up there? He's not here yet, so you can take some pictures."

The men helped me climb up. It was an ideal vantage point, and it was an overcast day, which made it easier to shoot with just available light.

But soon it got crowded and, since I didn't have any other way to exit, I climbed down to a flatbed truck that was supporting the platform, and that's where I took this photo—right before the Grand Rebbe appeared to speak to them about the Sun Blessing.

I like photographing in Brooklyn because I like learning about the different people who live there, but also because I like having the opportunity to interact with them.

—As told to Lori Fredrickson

NX
100

The Samsung NX100. With the lens that changes everything.



ISO

Aperture

Shutter Speed

White Balance



Introducing the Samsung i-Function lenses.

A compact, interchangeable lens camera system, the Samsung NX100 will transform camera enthusiasts into experts. Just one push of a button on the i-Function lens lets you change settings instantly while previewing them in real time on the brilliant AMOLED screen. Revolutionizing the way you take pictures. Another way Samsung is Dedicated to Wonder.



SAMSUNG

YOU LOOK DOWN INTO ICY WATERS.

IGNORE YOUR SHAKING LEGS.

DROP INTO PURE DARKNESS.

WONDER HOW FROZEN FINGERS CAN STILL WORK.

RACE AGAINST TIME. AND HYPOTHERMIA.

AND AN 1100-LB PREDATOR.

JUST TO GET ONE SHOT.

FINISH STRONG.



Epson Stylus Pro 4880 – \$1,995*



Epson Stylus Pro 3880 – \$1,295*



© Paul Nicklen



Epson Stylus® Photo R2880 – \$799.99*

- Exhibition-quality prints from 13" to 17" wide
- Epson UltraChrome K3® with Vivid Magenta, used by the world's leading photographers for stunning black-and-white and brilliant reds, blues and purples
- MicroPiezo® print head technology for exceptionally precise ink droplet placement
- World-class service from a dedicated support team

EPSON.COM/FINISHSTRONG



*Prices are Manufacturer Suggested Retail Price. Epson, Epson Stylus, Epson UltraChrome K3 and MicroPiezo are registered trademarks and Epson Exceed Your Vision is a registered logomark of Seiko Epson Corporation. All other product and brand names are trademarks and/or registered trademarks of their respective companies. Epson disclaims any and all rights in these marks. Copyright 2010 Epson America, Inc.

EPSON
EXCEED YOUR VISION