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Canon Digital Learning Center

For in-depth information and examples of the best of Canon EOS digital photography, there’s nothing like the Canon Digital Learning Center. Found at photoworkshop.com/canon, the Digital Learning Center is full of educational material generated from a photographer’s perspective. Browse modules on select Canon digital SLR cameras, visit the Pro Corner to learn about digital workflow with Canon Digital Photo Professional software and make the most out of your digital photography. Visit the Explorers of Light gallery where noted professionals teach and inspire us with stunning photography taken with Canon products. Whether a novice or veteran EOS user looking for tips on how to get the most out of your equipment, you’ll find your answer right here.

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EOS TECHNOLOGIES
Canon EOS technologies set the pace and make your vision a reality. Whether you are a seasoned professional or new to DSLR shooting.

EOS SLR CAMERAS
Rugged construction, photographer-friendly features, and compatibility with the entire line of EF lenses and EOS accessories make Canon EOS SLRs benchmarks for performance, ease of use, and quality.

EF LENSES
A unique blend of the world’s most advanced optical, microelectronics, and precision manufacturing technologies, EF lenses are perfected in Canon’s laboratories and proven in the field.

SPEEDLITES
Canon Speedlites are the ideal flash light source for EOS SLRs. They are technologically advanced to provide perfect exposure and illumination with just about any subject.

PHOTO PRINTERS
Canon’s imagePROGRAF, PIXMA and SELPHY photo printers enable photographers to produce professional-grade photoprints simply—anywhere, anytime. They offer photographers cost-effective print production with stunning results.

EOS SYSTEM ACCESSORIES
There are solutions for virtually any shooting situation.

EOS TECHNOLOGIES
From the time of the first Auto Focus SLR cameras, one name has remained synonymous with innovation: Canon EOS. Today, as digital imaging technologies take center stage, Canon EOS continues to lead the way with the Digital Trinity: Canon CMOS Sensors, Canon’s DIGIC II Image Processor and Canon’s superlative collection of EF Lenses. With not only the most advanced designs, but also an incomparable synergy of Canon-designed system components, Canon EOS System is the complete solution to your photo imaging needs, from vision to print.
EOS SLR TECHNOLOGY

The history of Canon EOS SLR cameras is replete with examples of technological innovations that have set new industry standards for performance and usability. And yet, at Canon, technology is never an end in itself. Every technological advance must contribute to innovations that have set new industry standards for performance and usability. And yet, at Canon, the development of new technology is always driven by the need to improve the user’s experience. Does a new feature enable the camera to more quickly respond to changing shooting conditions? Does it enhance the camera’s long-term reliability? Canon EOS advancements endure (and are often imitated) because they enhance the photographic experience, whether you are a seasoned professional or new to SLR shooting. Put simply, Canon EOS SLR technologies are impressive because of the quality of the images they enable you to create.

Autofocus Technology

Autofocus systems with single-lens reflex cameras are capable of automatically focusing on a subject. However, they need to be sophisticated enough to select the correct focusing point, where the image is sharpest. Canon EOS cameras have continuously followed this trend. The EOS 60D, for instance, features a high-speed, low-noise hybrid AF sensor that enables the camera to perform high-speed, low-noise 31-point AF servo AF, advancing beyond the EOS 5D Mark II’s capabilities. The EOS 60D’s AF system combines a contrast-detection AF system with Canon’s own highly sensitive phase-detection AF sensor. This ensures that the photographer can quickly and accurately focus on the subject, even when the subject is moving. The EOS 60D’s AF system also offers an eye-controlled option. Canon EOS SLRs are often imitated because they enhance the photographic experience, whether you are a seasoned professional or new to SLR shooting. Put simply, Canon EOS SLR technologies are impressive because of the quality of the images they enable you to create.

Unsupervised Exposure Control

Unsupervised exposure control is a feature that allows photographers to take pictures without having to worry about the exposure settings. The EOS 60D is equipped with Canon’s new Unsupervised Exposure Control system, offering the photographer a range of metering options even in difficult lighting conditions. The EOS 60D features a high-speed, low-noise hybrid AF sensor that enables the camera to perform high-speed, low-noise 31-point AF servo AF, advancing beyond the EOS 5D Mark II’s capabilities. The EOS 60D’s AF system combines a contrast-detection AF system with Canon’s own highly sensitive phase-detection AF sensor. This ensures that the photographer can quickly and accurately focus on the subject, even when the subject is moving. The EOS 60D’s AF system also offers an eye-controlled option. Canon EOS SLRs are often imitated because they enhance the photographic experience, whether you are a seasoned professional or new to SLR shooting. Put simply, Canon EOS SLR technologies are impressive because of the quality of the images they enable you to create.

Flexible Shutter Modes

Flexibility is a critical attribute of modern photography. DSLRs are capable of capturing images in a variety of conditions, and their capabilities can be further enhanced with the use of advanced software. The EOS 60D is equipped with Canon’s new Unsupervised Exposure Control system, offering the photographer a range of metering options even in difficult lighting conditions. The EOS 60D features a high-speed, low-noise hybrid AF sensor that enables the camera to perform high-speed, low-noise 31-point AF servo AF, advancing beyond the EOS 5D Mark II’s capabilities. The EOS 60D’s AF system combines a contrast-detection AF system with Canon’s own highly sensitive phase-detection AF sensor. This ensures that the photographer can quickly and accurately focus on the subject, even when the subject is moving. The EOS 60D’s AF system also offers an eye-controlled option. Canon EOS SLRs are often imitated because they enhance the photographic experience, whether you are a seasoned professional or new to SLR shooting. Put simply, Canon EOS SLR technologies are impressive because of the quality of the images they enable you to create.

Designed for Professional Performance

The EOS 60D is Canon’s latest flagship DSLR model, offering superior performance and reliability in a compact, portable body. The EOS 60D is built with the same level of ruggedness and durability as Canon’s professional-grade models, making it a reliable choice for even the most demanding shooting conditions. The EOS 60D features a high-speed, low-noise hybrid AF sensor that enables the camera to perform high-speed, low-noise 31-point AF servo AF, advancing beyond the EOS 5D Mark II’s capabilities. The EOS 60D’s AF system combines a contrast-detection AF system with Canon’s own highly sensitive phase-detection AF sensor. This ensures that the photographer can quickly and accurately focus on the subject, even when the subject is moving. The EOS 60D’s AF system also offers an eye-controlled option. Canon EOS SLRs are often imitated because they enhance the photographic experience, whether you are a seasoned professional or new to SLR shooting. Put simply, Canon EOS SLR technologies are impressive because of the quality of the images they enable you to create.
EOS DIGITAL TECHNOLOGY

Among digital camera models, Canon is unique in its
inhouse technology. Canon builds in-house-developed
and manufactured components as part of its EOS
philosophy. This direct control enables Canon to
produce world-class digital cameras that offer a level
of technical performance and ease of use that is truly
distinctive.

Advanced Camera Direct Capabilities

When you think of a digital camera, you probably
think of simple controls and a few buttons. But Canon
canony the EOS system captures an even wider gamut of colors
than you might expect. And Canon’s in-house-developed
software automates even the most critical photographic
applications, your colors will turn out just right.

Superb Ergonomics and Custom Functions

Advancements in EOS technology come not only in
improved capabilities, but also in terms of the user
experience. Many EOS models are designed to
allow advanced camera direct settings to
be adjusted without changing the settings of the
advanced camera direct settings. On the EOS
system, you can create your own personal
settings for any and all situations. These settings
are stored in the memory of the EOS
system, so that when you change
the camera settings, your personal
settings are automatically applied.

Color Management

Color management technology has been
completely revolutionized by Canon. The EOS
system enables you to capture and edit images in
any color space you desire. You can even
create your own custom color
profiles. With the EOS system,
you can adjust your own color
profiles to suit your personal
preferences.

Dust Reduction

In order to eliminate dust and other particles
from your images, Canon’s Dust Reduction
system employs a high-speed, high-pressure air
source to clean the lens. In addition, Canon’s
Dust Reduction system is designed to
automatically detect and remove dust and other
particles from your images.

Image Processing

Image processing is critical to the overall
quality of your photos. Canon’s Digital
Image Processor is designed to
maximize the performance of
the camera’s sensor. The Digital
Image Processor works in concert
with Canon’s CMOS sensors to
achieve even higher levels of
performance. Signal processing
algorithms work with the multi-layered CMOS
sensor to process images in real time. The
Advanced Camera Direct Capabilities

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profiles to suit your personal
preferences. With Canon’s CMS Sensor
cameras, you can capture images in RAW or
Pictor MII modes, as well as JPEG, TIFF, and
Adobe RGB color space for commercial
applications. Advanced users can even set their own balance.

Advanced Camera Direct Capabilities

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settings are automatically applied.
The rich heritage of Canon EOS professional SLRs is abundantly evident in the digital era. Top-of-the-line EOS Digital SLR cameras continue to set new standards for innovation, reliability, speed, versatility, and image quality, providing professional photographers tools for the job that are unequalled and indispensable.

EOS DIGITAL SLR CAMERAS

Unparalleled Resolution and Performance.

An update to the tremendously popular EOS-1Ds, the sleek and rugged EOS-1Ds Mark II is the “must-have” SLR to capture beautiful, super-high-resolution images with speed and precision. With a full-frame 16.7 MP CMOS sensor and Canon’s DIGIC III Image Processor, the 1Ds Mark II captures up to 4 fps for up to 32 JPEG or 11 RAW images in a burst. Startup and writing times have also been dramatically decreased. The 1Ds Mark II is an unprecedented combination of resolution and performance in the history of digital SLRs.

World’s Fastest Digital SLR Refined.

Capable of capturing 8.5 fps for up to 48 full-resolution JPEG images in a burst, the EOS-1D Mark II N outstrips performance standards for digital SLRs. An 8.2 MP Canon CMOS sensor and Canon’s DIGIC Image Processor deliver extraordinary image quality with unmatched speed. The weather resistant, magnesium alloy body and shutter durability of 200,000 cycles ensure pro-class capability. A large 2.5-inch LCD monitor provides a wider viewing angle. The dual (CF+SD) card slots can be used for simultaneous RAW and JPEG capture in separate cards. And the Picture Style feature gives more in-camera control over color, contrast and in-camera sharpening than ever before.

*as of August 2006.
Perfection Refined.

The EOS 30D features Canon’s exclusive 8.2 MP CMOS sensor and DIGIC II Image Processor. After an EOS leading 0.15-second startup, you can shoot 30 JPEG or 11 RAW images in a burst of 5 fps high-speed continuous shooting, or choose low-speed 3 fps continuous shooting. The large 2.5-inch LCD monitor provides an extremely wide viewing angle. Other advanced features include Picture Style, 3.5% spot metering, precision 9-point AF, and the Picture Style feature. The shooting, high megapixel compact body features a new high-performance shutter Part-time Bulb/Double/60 600 shutter.
Limitless Performance. The EOS Digital Rebel XT brings Canon’s 8.0 MP CMOS sensor, DIGIC II Image Processor, and compatibility with over 50 EF lenses (including the EF-S series) to photographers at an extremely attractive price. The Digital Rebel XT can shoot at 3 fps for up to 14 JPEG images and features wide-area 9-point AF in the standard and 15-point AF in Live View. With improved performance across the board, superior ergonomic design, and unprecedented affordability, the Rebel XT is the EOS digital SLR for everyone.*

*as of August 2006.
### EOS DIGITAL SLR COMPARISON CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (Body Only)</th>
<th>Dimensions</th>
<th>Viewfinder Information</th>
<th>Exposure Modes</th>
<th>Metering System</th>
<th>Frames Per Second</th>
<th>Media</th>
<th>Maximum Flash Synchronization Speed</th>
<th>Shutter Speeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOS-1Ds Mark II</td>
<td>4.98 x 3.71 x 2.56 in./126.5 x 94.2 x 65mm</td>
<td>17.1 oz./485g</td>
<td>96% horizontal/vertical at 0.9x</td>
<td>Single, 3.0 fps, 8.5 fps</td>
<td>Multi-Spot readings</td>
<td>Yes</td>
<td>CompactFlash™ (Type I or II)</td>
<td>1/200 sec.; high-speed sync. available with EX-series Speedlites</td>
<td>30-1/4,000 sec. &amp; Bulb, manually selectable in 1/3 or 1/2-stop increments.</td>
</tr>
<tr>
<td>EOS-1D Mark II</td>
<td>4.98 x 3.71 x 2.63 in./126.5 x 94.2 x 64mm</td>
<td>17.2 oz./489g</td>
<td>95% horizontal/vertical at 0.9x</td>
<td>Single, 3.0 fps, 8.5 fps</td>
<td>Multi-Spot readings</td>
<td>Yes</td>
<td>CompactFlash™ (Type I or II)</td>
<td>1/200 sec.; high-speed sync. available with EX-series Speedlites</td>
<td>30-1/4,000 sec. &amp; Bulb, manually selectable in 1/3 or 1/2-stop increments.</td>
</tr>
<tr>
<td>EOS 5D</td>
<td>5.7 x 4.2 x 2.9 in./144 x 105.5 x 73.5mm</td>
<td>35.8 x 23.9mm (Full-frame Canon CMOS)</td>
<td>96% horizontal/vertical at 0.9x</td>
<td>Single, 3.0 fps, 8.5 fps</td>
<td>Multi-Spot readings</td>
<td>Yes</td>
<td>CompactFlash™ (Type I or II)</td>
<td>1/200 sec.; high-speed sync. available with EX-series Speedlites</td>
<td>30-1/4,000 sec. &amp; Bulb, manually selectable in 1/3 or 1/2-stop increments.</td>
</tr>
<tr>
<td>EOS 30D</td>
<td>4.2 x 2.9 x 2.6 in./113 x 73 x 65mm</td>
<td>10.1 Megapixel CMOS</td>
<td>96% horizontal/vertical at 0.9x</td>
<td>Single, 3.0 fps, 8.5 fps</td>
<td>Multi-Spot readings</td>
<td>Yes</td>
<td>CompactFlash™ (Type I or II)</td>
<td>1/200 sec.; high-speed sync. available with EX-series Speedlites</td>
<td>30-1/4,000 sec. &amp; Bulb, manually selectable in 1/3 or 1/2-stop increments.</td>
</tr>
<tr>
<td>EOS DIGITAL REBEL XTi</td>
<td>5.7 x 4.2 x 2.9 in./144 x 105.5 x 73.5mm</td>
<td>35.8 x 23.9mm (Full-frame Canon CMOS)</td>
<td>96% horizontal/vertical at 0.9x</td>
<td>Single, 3.0 fps, 8.5 fps</td>
<td>Multi-Spot readings</td>
<td>Yes</td>
<td>CompactFlash™ (Type I or II)</td>
<td>1/200 sec.; high-speed sync. available with EX-series Speedlites</td>
<td>30-1/4,000 sec. &amp; Bulb, manually selectable in 1/3 or 1/2-stop increments.</td>
</tr>
<tr>
<td>EOS DIGITAL REBEL XT</td>
<td>5.7 x 4.2 x 2.9 in./144 x 105.5 x 73.5mm</td>
<td>35.8 x 23.9mm (Full-frame Canon CMOS)</td>
<td>96% horizontal/vertical at 0.9x</td>
<td>Single, 3.0 fps, 8.5 fps</td>
<td>Multi-Spot readings</td>
<td>Yes</td>
<td>CompactFlash™ (Type I or II)</td>
<td>1/200 sec.; high-speed sync. available with EX-series Speedlites</td>
<td>30-1/4,000 sec. &amp; Bulb, manually selectable in 1/3 or 1/2-stop increments.</td>
</tr>
</tbody>
</table>

**Special Features**
- Built-in 2.5 in. color monitor
- Mirror Lock
- USB 2.0 Hi-Speed
- Compatible with EF-S lenses
- Simultaneous RAW and JPEG image capture
- Depth-of-field Preview
- Magnesium alloy exterior
- Simultaneous RAW and JPEG image capture
- 11 Custom functions with 29 settings
- Built-in PC socket
- EOS DIGITAL REBEL XTi
- EOS DIGITAL REBEL XT

**Optical Viewfinder**
- 3.8% spot metering (linked to metering
- 3.8% center spot metering
- Center-weighted average
- TTL full-aperture metering
- Single, 3.0 fps, 8.5 fps
- Maximum continuous shooting
- Depth-of-field preview
- Six Assist AF Points in central area activated in AI Servo AF
- Nine; Center AF point is cross-type; Hybrid high and standard precision.
- Automatic and manual focusing point selection.

**Exposure Modes**
- Shutter-priority AE
- Programmed Image Control
- Aperture-priority AE
- E-TTL II Flash AE
- AE Lock / FE Lock
- AF-in-focus indicator
- Exposure level display
- White Balance +/-
- Flash Exposure
- CF card full warning
- Nine focusing points
- Hybrid high and standard precision.
- Automatic and manual focusing point selection.

**Shutter**
- Vertical-travel focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled.
- Shutter speeds electronically controlled.
- Vertical-travel focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled.
- Vertical-travel focal-plane shutter with soft-touch electromagnetic release, all speeds electronically controlled.

**Viewfinder Information**
- 96% horizontal and vertical at 0.71x.
- 96% horizontal/vertical at 0.9x
- 95% horizontal/vertical at 0.9x
- 96% horizontal and vertical at 0.71x.
- 96% horizontal and vertical at 0.71x.

**Metering System**
- Multi-Spot readings
- Hi-speed flash sync
- Remaining frames in burst
- JPEG indication
- Multi-Spot readings
- Hi-speed flash sync
- Remaining frames in burst
- JPEG indication
- Multi-Spot readings
- Hi-speed flash sync
- Remaining frames in burst
- JPEG indication
- Multi-Spot readings
- Hi-speed flash sync
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- JPEG indication
- Multi-Spot readings
- Hi-speed flash sync
- Remaining frames in burst
- JPEG indication
- Multi-Spot readings
- Hi-speed flash sync
- Remaining frames in burst
- JPEG indication
- Multi-Spot readings
- Hi-speed flash sync
- Remaining frames in burst
- JPEG indication
35mm SLR Photography at its Finest

With rugged construction, ease-of-use features, and, of course, compatibility with the entire line of EF lenses and EOS accessories, Canon EOS 35mm SLRs are the benchmarks for performance, ease of use, and quality in 35mm SLR photography. Whether professional or novice, there's an EOS 35mm SLR that's perfect for you.

**EOS-1V**

The Ultimate in Professional Vision.

With the world's fastest AF, a continuous shooting speed of up to 10 fps and a comprehensive feature set, the EOS-1V sets the standard for innovation and speed. The EOS-1V has a 15-point AF system, top shutter speed of 1/3000 sec., a flash sync up to 1/180 sec., 5 zones mode-selector, and 5 AF modes. It offers superior ergonomics and low-noise design for longer sessions and silent operation and a shutter tested to 150,000 cycles makes this 35mm camera the ultimate professional tool.

**EOS 35mm Film**

**EOS ELAN 7NE**

The Triumph. A Victory for Photography.

A culmination of 35mm film and advanced analog, the EOS ELAN 7NE combines innovative technology and advanced features, resulting in a fast and easy-to-use SLR camera. Among its features is the world's fastest AF, a continuous shooting speed of up to 10 fps and a comprehensive feature set, the EOS ELAN 7NE is the perfect camera for the serious SLR enthusiast.

The Ultimate in Professional Vision.

With Eye Controlled Focus, a top shutter speed of 1/4000 sec. and 4.0 fps – all in a nearly silent and durable package – the EOS ELAN 7NE is the perfect camera to take your photography to the next level. A fast, 7-point AF system, a brilliant display, Canon's Whisper Drive technology, enhanced CF card handling – plus compatibility with Canon LP lenses, Speedlites, and accessories makes the EOS ELAN 7NE the perfect camera for the serious SLR enthusiast.

**EOS Rebel: Get Into It!**

The EOS Rebel series brings you the essence of refined Canon SLR photography in lightweight, economical cameras. With the Rebel T2 and Rebel K2, there has never been a more affordable way to get into the Canon EOS system. Each Rebel SLR has a host of advanced automatic camera controls that make taking stylish photographs fast and fun. And when you're ready, the expand creative controls will take you to the next level. The ergonomic, award-winning designs and compatibility with nearly all EF lens systems make the Rebel a camera you'll never want to put down.

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**EOS FILM SLR CAMERAS**

**EOS FILM SLR COMPARISON CHART**

<table>
<thead>
<tr>
<th>Camera Model</th>
<th>Film Type</th>
<th>ISO Range</th>
<th>Shutter Speeds</th>
<th>Frame Rate</th>
<th>Flash Sync</th>
<th>Number of Focusing Points</th>
<th>LCD Information</th>
<th>AF System</th>
<th>Memory</th>
<th>Manual Focus</th>
<th>Manual Metering</th>
<th>Data Back Compatibility</th>
<th>Multiple Exposure</th>
<th>AE Program</th>
<th>Off-Camera Ctrl</th>
<th>rewind Method</th>
<th>Battery Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOS-1V</td>
<td>35mm Film</td>
<td>100-6400</td>
<td>30 - 1/4000 sec &amp; Bulb</td>
<td>4.0 fps</td>
<td>1/180 sec</td>
<td>15-point AF</td>
<td>LCD numerals, two analog scales</td>
<td>Auto Switching</td>
<td>auto</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>6 rolls</td>
<td></td>
</tr>
<tr>
<td>EOS 3</td>
<td>35mm Film</td>
<td>100-6400</td>
<td>30 - 1/4000 sec &amp; Bulb</td>
<td>4.0 fps</td>
<td>1/180 sec</td>
<td>7-point AF</td>
<td>LCD numerals, two analog scales</td>
<td>Auto Switching</td>
<td>auto</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>6 rolls</td>
<td></td>
</tr>
<tr>
<td>EOS ELAN 7NE</td>
<td>35mm Film</td>
<td>100-6400</td>
<td>30 - 1/4000 sec &amp; Bulb</td>
<td>4.0 fps</td>
<td>1/180 sec</td>
<td>7-point AF</td>
<td>LCD numerals, two analog scales</td>
<td>Auto Switching</td>
<td>auto</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>6 rolls</td>
<td></td>
</tr>
<tr>
<td>EOS Rebel T2</td>
<td>35mm Film</td>
<td>100-6400</td>
<td>30 - 1/4000 sec &amp; Bulb</td>
<td>4.0 fps</td>
<td>1/180 sec</td>
<td>3-point AF</td>
<td>LCD numerals, two analog scales</td>
<td>Auto Switching</td>
<td>auto</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>6 rolls</td>
<td></td>
</tr>
<tr>
<td>EOS Rebel K2</td>
<td>35mm Film</td>
<td>100-6400</td>
<td>30 - 1/4000 sec &amp; Bulb</td>
<td>4.0 fps</td>
<td>1/180 sec</td>
<td>3-point AF</td>
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<td>Yes</td>
<td>No</td>
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</tr>
</tbody>
</table>
EF LENS TECHNOLOGY

Great images start with great lenses and, in many ways, an SLR is defined by the quality, breadth and scope of the associated system of lenses. For many, Canon EF series lenses alone are reason enough to choose the EOS System. A unique blend of the world’s most advanced optical, microelectronic, and precision manufacturing technologies, EF lenses are perfected in Canon’s laboratories and proven in the field. Whatever you shoot, whatever your budget, there are Canon EF lenses perfect for your needs.

Image Stabilizer

Canon Image Stabilizer (IS) technology makes handheld photography more practical at slow shutter speeds, accommodating more low-light shooting situations than ever before. Camera shake typically occurs at shutter speeds less than 1/focal length, resulting in image blur. Canon Image Stabilizer technology is built into EF lenses and outperforms in-camera stabilization technologies found in other cameras by allowing for more movement of the stabilizing lens group. Especially with telephoto lenses, as the lens focal length increases, the effect of shake and the degree of correction needed to curtail it increase as well. With optical IS in the lens, Canon can equip each IS lens with the stabilizer it needs for effective shake correction. Other systems are limited by low how far they can move an image sensor, and as a result their stabilization is less effective as telephoto lengths get longer. Also, optical IS can be seen right in the viewfinder—impossible with some other stabilizer systems.

Diffractive Optics

Canon’s use of diffractive optics (DO) results in high-performance lenses that are much smaller and lighter than traditional designs. Conventional glass lens elements disperse incoming light, causing chromatic aberration. Canon’s unique multi-layer diffractive elements are constructed by bonding diffractive coatings to the surfaces of two or more lens elements. These elements are then combined to form a single multi-layer DO element. The DO element’s dispersion characteristics are designed to cancel chromatic aberrations at various wavelengths when combined with conventional glass optics. This technology results in smaller lenses with no compromise in image quality. Canon has also developed a new triple-layer type DO lens that uses an advanced diffractive grating to deliver excellent performance, with superior control of color fringing. This configuration is ideal for zoom lens optics and provides significant reductions in size. A good example is the EF 70-300mm f/4.5-5.6 DO IS USM lens, which is 28 percent shorter than the EF 70-300mm f/4-5.6 IS USM lens.

Ultrasonic Motor

Canon developed the world’s first lens-based Ultrasonic Motor (USM) to power the lens auto-focus mechanism. Instead of using electromechanical systems to move the lens elements, Canon can design aspherical elements with extremely precise variable curvature of one or both sides, making possible lighter, more compact lenses.

Focus Preset

Focus Preset enables you to program a focusing distance in the camera’s memory. Normal picture-taking and focusing are resumed once the action moves toward the goal, the user can instantly return to the preset distance by turning a ring on the lens.

L-series Lenses

Most highly regarded among professional photographers, Canon L-series lenses are distinguished by a bold red ring around the outer barrel. What makes them truly distinctive, however, is their remarkable optical performance — the result of sophisticated Canon technologies, such as Ultra-low Dispersion UD glass, Fluorite and Aspherical elements, and Super Spectra Coating. L-series lenses are used in many pro and semi-pro situations, but the EF 300mm f/2.8L IS USM •f/3.5 •1/180 sec. is a must-have for a pro photographer.

Optical IS

Image Stabilizer ON

With optical IS in the lens, Canon can design aspherical elements with extremely precise variable curvature of one or both sides, making possible lighter, more compact lenses.

Spherical Aberration

With higher magnification, spherical aberration may be noticeable. This condition affects all lenses, but particularly those with very fast focal lengths, such as the EF 100mm f/2.8L IS USM •f/2.8 •1/250 sec.

Chromatic Aberration

Fluorite elements have roughly the corrective power of two UD-glass elements, giving these L-series lenses their spectacular performance and relatively compact design.

Aspherical Elements

Wide-angle lenses and fast normal-focal-length lenses often suffer from spherical aberration. When the light rays coming through the center of the lens do not converge at the same point as light rays coming through the lens edge, the image appears blurred because there is a single point of focus. Canon’s Aspherical elements use a varying curved surface to ensure that the entire image plane appears focused. Aspherical optics also help to correct potential distortions as one might find in ultra wide-angle lenses. Finally, Canon can design aspherical elements with extremely precise variable curvature of one or both sides, making possible lighter, more compact lenses.
**EF LENSES**

**Floating System**
Typical lenses correct for optical aberrations only at a predetermined focusing distance. Not surprisingly, at other focusing distances, especially close range, aberrations compromise image quality. With a normal lens With a TS-E lens momentarily locks the AF to prevent the focus from shifting to a passing obstruction. After the focus effect is more pronounced with shorter focal lengths, distorting the building even more. By keeping the camera into focus, you could use a wide-angle lens and a small aperture to keep the building perpendicular all the way to the top. Shift Movements – When you point your camera into its built-in rear filter holder.

**Dust- and Water-Resistant Construction**
EF telephoto lenses are highly dust- and water-resistant thanks to rubber seals at the switch panels, exterior seams, drop-in filter compartments and lens mounts. Moving parts, such as the focusing ring and switches, are also designed to keep out environmental contaminants, providing reliable performance under harsh conditions.

**Full-Time Manual Focusing**
Canon EOS cameras with EF lenses deliver impeccable AF precision. Manual focusing capability, nevertheless, can enhance flexibility. Canon EF Lenses with full-time manual focusing enable the photographer to manually tweak focus without switching out of AF mode. Since AF action does not cause the focusing ring to turn, it can be made wider for improved grip and comfort.

**Circular Aperture**
Canon lenses feature circular aperture diaphragms, employing curved blades to create a smoothly rounded opening as the lens is stopped down. As a result, out-of-focus background highlights are rendered as natural-looking rounded shapes rather than as distracting polygons. These lenses deliver smooth, consistent stop-down action (even at 10 fps), near-client operation and excellent characteristics.

**Inner and Rear Focusing**
An inner focusing lens has the focusing lens groups (in front of the diaphragm, while a rear focusing lens has the focusing lens groups) behind the diaphragm. Both designs allow for compact optical systems that produce faster AF. Because the front of the lens does not rotate to focus, filter orientation remains constant.

**AF Stop Feature**
Pressing the AF Stop button (featured on several EF IS telephoto lenses) momentarily locks the AF to prevent the focus from shifting to a passing obstruction. After the obstruction has cleared, the focus will still be on the subject, and you can quickly resume shooting. AF Stop buttons are positioned at four locations around the lens' potted for easy access.

**TS-E Movements**

<table>
<thead>
<tr>
<th>Shift</th>
<th>Tilt</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0x</td>
<td>180°</td>
<td>TS-E 24mm f/3.5L – Shift was used to adjust the image to keep the building perpendicular all the way to the top.</td>
</tr>
<tr>
<td>3.0x</td>
<td>114°</td>
<td>TS-E 45mm f/2.8 – Reverse tilt and shift greatly into focus effect that allows focusing all the way back.</td>
</tr>
<tr>
<td>2.0x</td>
<td>104°</td>
<td>TS-E 60mm f/4.0L – Tilt was used to achieve a pan effect that allows focusing all the way back.</td>
</tr>
<tr>
<td>1.0x</td>
<td>94°</td>
<td>TS-E 85mm f/1.4L ISUSM – Tilt was used to achieve a tilt effect that allows focusing all the way back.</td>
</tr>
<tr>
<td>0.5x</td>
<td>84°</td>
<td>TS-E 135mm f/2.0L ISUSM – Tilt was used to achieve a tilt effect that allows focusing all the way back.</td>
</tr>
</tbody>
</table>

**Specialty Lenses**

**EF-S Lenses** – Designed for Canon Digital EOS XG, Digital Rebel XT and Digital Rebel XT cameras with APS-C sized sensors (with a 1.6x crop factor), Canon’s EF-S lenses take advantage of the sensor’s smaller size to deliver optimized performance in compact, lightweight designs. The EF-S 17-55mm F/2.8 IS USM is a perfect example of this new technology. With a compact design, a 15mm equivalent range of 27-85mm, and Image Stabilization technology, it’s a superlative walk-around lens... possibly the only lens you’ll need to enjoy basic Canon digital SLR photography.

**Fish-eye** – Perfect for super wide-angle and special effect photography, Canon’s full-frame fisheyes can focus as close as eight inches (20 cm), and delivers exceptionally sharp images throughout its focus range. Up to three gel filters can be inserted into its built-in real filter holder.

**Macro** – Canon’s EF lens lineup has a number of options for true close-up and macro photography. With five macro lenses for precision, and three screw-on close-up lenses for convenience—in addition to Life-Size Converter EF and Two Extension Tubes—Canon’s Macro lenses and close-up accessories can uncover detail that is impossible for the unaided human eye to detect.

**EF Mount**
In designing the EF lens mount, Canon engineers gave photographers a lot more than a way to quickly attach a lens to a camera body. As the communication conduit between camera and lens, this fully electronic mount system has none of the shock, operational noise, abrasion, play, lubrication requirements, slow response, power operation limitations, or other design restrictions related to mechanical linkage mechanisms. A self-timer system, using the lens’s built-in microcomputer, can even warn of malfunctions through the camera’s display. The EF mount makes possible high-speed autofocus, precise aperture control and preview, automatic compensation with lens extenders, and forward compatibility with new lens technologies—such as USM and IS—as they are developed by Canon.

**About Macro Magnification**
A life-size macro lens—that is, a 1x magnification—records an image on film at its actual size. If you’re photographing a flower for example, and you have a 1x of your actual slide or negative. With an EF IS lens, 28mm F/4.0 lens, you can even warn of malfunctions through the camera’s display. The EF mount makes possible high-speed autofocus, precise aperture control and preview, automatic compensation with lens extenders, and forward compatibility with new lens technologies—such as USM and IS—as they are developed by Canon.

**FOCAL LENGTH COMPARISON**

<table>
<thead>
<tr>
<th>Magnification</th>
<th>Focal Length</th>
</tr>
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<tbody>
<tr>
<td>0.5x</td>
<td>50mm</td>
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<td>0.75x</td>
<td>15mm</td>
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<tr>
<td>1x</td>
<td>20mm</td>
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<tr>
<td>2x</td>
<td>200mm</td>
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<tr>
<td>3x</td>
<td>300mm</td>
</tr>
<tr>
<td>4x</td>
<td>400mm</td>
</tr>
<tr>
<td>5x</td>
<td>500mm</td>
</tr>
</tbody>
</table>

**Canon’s EF lens lineup has a number of options for true close-up and macro photography.**
EF LENSES

Take In the Wider View.
Canon EF fixed-focal-length wide-angle lenses are exceptionally sharp, distortion-free, and fast – making them great choices for low-light shooting. EF ultra-wide zooms deliver stunning perspectives. The added versatility of zooming makes them perfect for enthusiasts and professionals alike.

Ultra-Wide Zoom

Wide-Angle

EF 15mm f/2.8 Fisheye
EF 14mm f/2.8L USM
EF 20mm f/2.8 USM
EF 24mm f/1.4L USM
EF 24mm f/1.4 USM
EF 24mm f/1.8 USM
EF 35mm f/1.4L USM
EF 35mm f/2

Ultra-Wide Zoom

EF 10-22mm f/3.5-4.5 USM*
EF 16-35mm f/2.8L USM
EF 17-40mm f/4 USM
EF 20-35mm f/3.5-4.5 USM

Wide-Angle

EF 15mm f/2.8 Fisheye
EF 14mm f/2.8L USM
EF 20mm f/2.8 USM
EF 24mm f/1.4L USM
EF 24mm f/1.4 USM
EF 24mm f/1.8 USM
EF 35mm f/1.4L USM
EF 35mm f/2

Take In the Wider View.

See It. Capture It.
EF “standard” zooms cover the most popular range of focal lengths for most photographers, from wide-angle through telephoto. This versatility makes them great for a wide range of shooting situations. EF medium telephoto lenses deliver natural perspective with wide maximum apertures that make them ideal for low-light shooting.

Standard Zoom

Standard and Medium Telephoto

EF 17-55mm f/2.8 IS USM*
EF 18-55mm f/3.5-5.6 IS USM*
EF 24-70mm f/2.8L USM
EF 24-105mm f/4L IS USM
EF 28-90mm f/4-5.6 III
EF 28-105mm f/3.5-4.5 II USM
EF 28-135mm f/3.5-5.6 IS USM
EF 28-200mm f/3.5-5.6 USM
EF 35-80mm f/4-5.6 III
EF 50mm f/1.2L USM
EF 50mm f/1.4 USM
EF 50mm f/1.8 II
EF 85mm f/1.2L II USM
EF 85mm f/1.8 USM
EF 100mm f/2 USM

NEW

EF 16-35mm f/2.8L USM
EF 24-105mm f/4L IS USM
EF 50mm f/1.2L USM
EF 85mm f/1.8 USM
EF 100mm f/2 USM

See It. Capture It.

Icons:
- See “EF Lens Technology” section.
- Diagram:
  - Super UD Lens
  - UD Lens
  - Aspherical Lens

* For EOS 30D, 20D/20Da, Digital Rebel XTi, Digital Rebel XT and Digital Rebel camera only.

NEW
Focus Your Attention.

Telephoto lenses make it easy to throw backgrounds out of focus, grab detail, or "get close" to unapproachable subjects... and these EF zoom lenses are superb tools for the job. EF fixed-focal-length telephotos combine great picture quality with fast maximum apertures, making them ideal for handheld shooting in low light.

Telephoto Zoom

EF 55-200mm f/4-5.6 IS II USM
EF 70-200mm f/2.8L IS USM
EF 70-200mm f/2.8L USM
EF 70-200mm f/4L IS USM
EF 70-200mm f/4L USM
EF 70-300mm f/4-5.6 IS USM
EF 75-300mm f/4-5.6 IS USM
EF 75-300mm f/4-5.6 III
EF 100-400mm f/4.5-5.6L IS USM
EF 55-200mm f/4-5.6 DO IS USM •f/4 •1/125 sec.
EF 100-400mm f/4.5-5.6 DO IS USM •f/14 •1/80 sec.

Telephoto

EF 150mm f/2.8L USM
EF 150mm f/2.8 with Softfocus
EF 200mm f/2.8L IS USM
EF 300mm f/2.8L IS USM
EF 300mm f/4L IS USM
EF 300mm f/4L IS USM

Super Telephoto

EF 400mm f/2.8L IS USM
EF 400mm f/2.8L IS USM
EF 400mm f/5.6L USM
EF 400mm f/4 DO IS USM
EF 500mm f/4L IS USM
EF 600mm f/4L IS USM

Extenders

EF 1.4x II
EF 2x II
Extension Tube EF 12 II
Extension Tube EF 25 II

Up Close Detail From Afar.

Distinguished by their white color and seen at major sporting events around the world, the powerful EF super-telephotos are also ideal for nature, scenic, and even outdoor fashion photography. Canon’s ring-type USM delivers unmatched focusing performance, and most feature Canon’s superb Image Stabilization. EF tele extenders and extension tubes add even more power and versatility.
**Solutions for Specialized Shooting.**

Canon’s manual focus TS-E (Tilt-Shift) lenses provide tilt capability to alter the plane of focus and shift capability for perspective correction, offering solutions for numerous applications, from architectural to studio photography. Canon also offers a range of close-up, high-magnification shooting solutions with a lineup of exceptional macro lenses and accessories.
The Finest Accessories for Your Lenses.

To enhance the stellar features of the EF Lens system, there are a number of accessories designed to perform perfectly with your system. Canon offers cases to protect your lenses, hoods and filters to control glare, and a number of adapters to further expand the possibilities of your EF Lenses and your EOS System.

Polarizing Filters

Circular Polarizing Filter PL-C

Polarizing filters enhance picture quality by blocking harmful reflected light. Use it to reduce polarized light reflections from glass and water surfaces or to improve color saturation. Simple to use, these filters polarize light circularly, rather than linearly, so they do not interfere with autofocus or TTL light metering.

DROP-IN — For use with lenses using rear-mounted drop-in filters, this polarizing filter can be rotated from the outside without removing the holder from the lens, enabling precise control.

<table>
<thead>
<tr>
<th>Type</th>
<th>Available Sizes</th>
<th>Screw-in Holder</th>
<th>Drop-in Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL-C</td>
<td>46mm, 52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>For super-telesplenses, Current 46mm, Previous super-teles without 46mm holders.</td>
<td>Screw-in, 46mm, 52mm, 58mm, 67mm, 72mm, 77mm</td>
</tr>
</tbody>
</table>

Softmat Filters

Without Softmat Filter

Using a Softmat Filter for a softer effect

Softmat No. 1 & No. 2

Softmat filters mildly soften the focus for flattering portraits and dreamy landscapes. These filters utilize the effect of diffraction, which occurs when light passing through the transparent part and light passing through the coated part. Use Softmat No. 1 for a gentle soft focus effect, and Softmat No. 2 for a stronger effect.

<table>
<thead>
<tr>
<th>Type</th>
<th>Available Sizes</th>
<th>Screw-in Holder</th>
<th>Drop-in Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1</td>
<td>52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>Screw-in Holder with Extender EF 1.4x/1.7x or EF 2x installed.</td>
<td>Drop-in Holder with Extender EF 1.4x/1.7x or EF 2x installed.</td>
</tr>
<tr>
<td>No. 2</td>
<td>52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>Screw-in Holder with Extender EF 1.4x/1.7x or EF 2x installed.</td>
<td>Drop-in Holder with Extender EF 1.4x/1.7x or EF 2x installed.</td>
</tr>
</tbody>
</table>

Gelatin Filter Holders

Extension Tube EF 25 II & EF 12 II

These close-up accessories are placed between the camera body and lens to enable high-magnification photography. Eight electronic contact points allow communication between the camera and lens to continue as usual. The magnification differs according to the lens, but for standard zoom lenses it is about 0.5x to 1.5x for the EF 25 II and 0.7x or more for the EF 25 II. By using both tubes effectively, the choice of magnifications can be greatly extended. Manual focusing is recommended.

<table>
<thead>
<tr>
<th>Type</th>
<th>Available Sizes</th>
<th>With Extension EF 25 II attached</th>
<th>With Extension EF 12 II attached</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF 25 II</td>
<td>35mm, 52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>Screw-in Holder</td>
<td>Screw-in Holder</td>
</tr>
<tr>
<td>EF 12 II</td>
<td>35mm, 52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>Screw-in Holder</td>
<td>Screw-in Holder</td>
</tr>
</tbody>
</table>

Gelatin Filter Holder System

This convenient holder system allows the use of commercially available square filters without the need for cutting. The holder attaches to the lens through an adapter that fits the filter diameter. A special haul is available for use with the system. Use with 3-inch square type II and 4-inch square type IV gelatin filters. Gelatin filters can be used with most EF lenses.

<table>
<thead>
<tr>
<th>Type</th>
<th>Available Sizes</th>
<th>Available Items</th>
<th>Available Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gelatin Filter Holder II &amp; III</td>
<td>Screw-in Holder</td>
<td>for square type II, 4-inch gelatin filters.</td>
<td>Screw-in Holder</td>
</tr>
<tr>
<td>Gelatin Filter Holder Adapter III &amp; IV</td>
<td>Screw-in Holder</td>
<td>Adapter for lens filter holder can be attached with loupes.</td>
<td>Adapter for lens filter holder can be attached with loupes.</td>
</tr>
</tbody>
</table>

Drop-in Gelatin Filter Holder II

Up to three gelatin filters can be placed in these holders. To use, insert a cut piece of gelatin film between the holder’s filter frame and pressure clip, and screw on to the lens.

<table>
<thead>
<tr>
<th>Type</th>
<th>Available Sizes</th>
<th>With Extender EF 1.4x/1.7x or EF 2x installed</th>
<th>With Extender EF 1.4x/1.7x or EF 2x installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF 25 II</td>
<td>35mm, 52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>Screw-in Holder</td>
<td>Screw-in Holder</td>
</tr>
<tr>
<td>EF 12 II</td>
<td>35mm, 52mm, 58mm, 67mm, 72mm, 77mm</td>
<td>Screw-in Holder</td>
<td>Screw-in Holder</td>
</tr>
</tbody>
</table>

Magnification

<table>
<thead>
<tr>
<th>Magnification</th>
<th>EF 25 II</th>
<th>EF 12 II</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5x</td>
<td>1.5x</td>
<td>1.7x</td>
</tr>
<tr>
<td>0.9x</td>
<td>1.1x</td>
<td>1.3x</td>
</tr>
<tr>
<td>1.2x</td>
<td>1.4x</td>
<td>1.5x</td>
</tr>
<tr>
<td>1.5x</td>
<td>1.8x</td>
<td>2.0x</td>
</tr>
<tr>
<td>1.7x</td>
<td>2.0x</td>
<td>2.0x</td>
</tr>
</tbody>
</table>

For Best Results with your Canon EOS Camera Use Original Canon EF Lenses.

 fuer den Canon EOS-Kamera verwenden Sie Original-Canon EF Objektive.

<table>
<thead>
<tr>
<th>f-stop (f)</th>
<th>AF Maximum Magnification</th>
<th>EF 25 II</th>
<th>EF 12 II</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8</td>
<td>2.8</td>
<td>2.8</td>
<td>2.8</td>
</tr>
<tr>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>5.6</td>
<td>5.6</td>
<td>5.6</td>
<td>5.6</td>
</tr>
<tr>
<td>8.0</td>
<td>8.0</td>
<td>8.0</td>
<td>8.0</td>
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<tr>
<td>11.0</td>
<td>11.0</td>
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<tr>
<td>16.0</td>
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<td>32.0</td>
<td>32.0</td>
<td>32.0</td>
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</tr>
</tbody>
</table>

EF LENS ACCESSORIES
E-TTL II incorporates distance information from compatible EF lenses (see page 27 for details) for more versatile flash control modes. E-TTL II requires the use of E-TTL compatible cameras equipped with EX-series Speedlites, effective in all AE modes, and Manual. E-TTL II is compatible with EOS-3, EOS ELAN 7, Canon EOS Rebel T2 / T2 Date, EOS Rebel K2 / K2 Date, EOS-1D Mark II, EOS-1Ds Mark II, EOS-1D Mark III, EOS Digital Rebel XTi / XT, EOS 30D, EOS Digital Rebel / 600D, and EOS-1D II. E-TTL II is not compatible with the EOS-1, EOS 5D, EOS 30D, and EOS Digital Rebel XTi / XT, or the EOS-1Ds and EOS Digital Rebel XTi XTi XTi XTi / XT.
Perfect Flash Illumination

Canon offers a full range of Speedlite flash units compatible with EOS System cameras for a wide variety of applications and photographers’ needs. They range from simple, economical flashes to high-power, highly advanced Speedlites for professional use.

Speedlites

Speedlite 580EX
- Approx. 25% faster recycling time compared to 550EX.
- Superior evenness of exposure, center to corner of frame.
- Slightly higher max. guide number at 105mm setting (GN 190, feet).
- Auto conversion of flash coverage with compatible digital SLRs.*
- White Balance info communicated instantly to compatible digital SLRs.*
- Full swivel, 180° in either direction (first TTL flash with this ability).
- AF-assist beam now compatible with all AF points on every EOS SLR.
- Select Dial for easy inputs and user control.

Speedlite 430EX
- Approx. 40% faster recycling time compared to 420EX.
- High Guide No. at 105mm setting (GN 141, feet).
- Camera tells Flash about Autozoom (24-105mm): to adjust for camera sensor size.*
- Flash tells Camera about color temperature: to adjust white balance.*
- AF-assist beam compatible with up to nine AF points of an EOS SLR.
- Rear LCD panel and six Custom Functions setting button.
- Built-in wide panel for 14mm angle of view.

Speedlite Transmitter ST-E2
- Dedicated transmitter to control unlimited number of slave flashes.
- For Speedlites 580EX, 430EX and 420EX.
- Controls slave units up to 33 ft. outdoors and 49.5 ft. indoors.

Wireless Flash Photography

Canon’s EX series Speedlites have made multiple-flash photography simple, wireless and automatic. Using either the Speedlite 580EX or the Speedlite Transmitter ST-E2 as a master unit, wireless signals are transmitted to an unlimited number of Speedlites 580EX or 430EX, creating myriad possibilities for lighting, no matter the location.

E-TTL/E-TTL II Wireless Autoflash Control
Up to three groups (front, fill, and background) of slave units can be set up for comprehensive control of flash lighting. The Speedlite slave units can be assigned to groups A, B, or C, with output ratios between groups A and B adjustable from 1:1 to 1:1.8 or 1:1 to 1:8. The output of the group C can be adjusted through flash exposure compensation. You can concentrate on perfect lighting because the E-TTL/E-TTL II wireless flash system controls the total flash output to ensure consistently correct exposure. Also, when Speedlite 580EX is used with EOS Digital, EOS 2v, EOS 3, EOS ELAN 7 series, or EOS Rebel T2 SLRs, you can fire a modeling (preview) flash for a full second at 70v by pressing the depth-of-field preview button. Even with multiple Speedlites, the modeling flash fires according to the ratios you have set. E-TTL/E-TTL II wireless autoflash also supports most other Speedlite features, such as FF Link, FP Flash, Flash Exposure Bracketing/Compensation, and Stroboscopic Flash. Finally, for macro shooting, the Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX can be used as master units, as well.

Wireless Flash Photography

Speedlite 430EX
- Approx. 40% faster recycling time compared to 420EX.
- High Guide No. at 105mm setting (GN 141, feet).
- Camera tells Flash about Autozoom (24-105mm): to adjust for camera sensor size.*
- Flash tells Camera about color temperature: to adjust white balance.*
- AF-assist beam compatible with up to nine AF points of an EOS SLR.
- Rear LCD panel and six Custom Functions setting button.
- Built-in wide panel for 14mm angle of view.

Speedlite Transmitter ST-E2
- Dedicated transmitter to control unlimited number of slave flashes.
- For Speedlites 580EX, 430EX and 420EX.
- Controls slave units up to 33 ft. outdoors and 49.5 ft. indoors.
SPEEDLITE ACCESSORIES

EX-series Speedlite Lineup

<table>
<thead>
<tr>
<th>Speedlite</th>
<th>540EZ</th>
<th>490EZ</th>
<th>480EZ</th>
<th>430EX</th>
<th>220EX</th>
<th>580EX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>70 x 50 x 34mm</td>
<td>70 x 40 x 28mm</td>
<td>67 x 32 x 25mm</td>
<td>64 x 28 x 20mm</td>
<td>60 x 23 x 18mm</td>
<td>57 x 15 x 11mm</td>
</tr>
<tr>
<td>Weight (without battery)</td>
<td>110.4g</td>
<td>102.8g</td>
<td>99.8g</td>
<td>98.3g</td>
<td>92.6g</td>
<td>84.8g</td>
</tr>
<tr>
<td>Compatibility</td>
<td>All EOS EFRs</td>
<td>All EOS EFRs</td>
<td>All EOS EFRs</td>
<td>All EOS EFRs</td>
<td>All EOS EFRs</td>
<td>All EOS EFRs</td>
</tr>
<tr>
<td>Max. Guide Number (ISO 100)</td>
<td>141</td>
<td>120</td>
<td>113</td>
<td>105</td>
<td>89</td>
<td>60</td>
</tr>
<tr>
<td>Power Source</td>
<td>AA (Alkaline, rechargeable NiCd, Lithium, Ni-MH) batteries (x4); Battery Pack CP-E3, Transistor Pack E</td>
<td>AA (Alkaline, rechargeable NiCd, Lithium, Ni-MH) batteries (x4); Battery Pack CP-E3, Transistor Pack E</td>
<td>AA (Alkaline, rechargeable NiCd, Lithium, Ni-MH) batteries (x4); Battery Pack CP-E3, Transistor Pack E</td>
<td>AA (Alkaline, rechargeable NiCd, Lithium, Ni-MH) batteries (x4); Battery Pack CP-E3, Transistor Pack E</td>
<td>AA (Alkaline, rechargeable NiCd, Lithium, Ni-MH) batteries (x4); Battery Pack CP-E3, Transistor Pack E</td>
<td>AA (Alkaline, rechargeable NiCd, Lithium, Ni-MH) batteries (x4); Battery Pack CP-E3, Transistor Pack E</td>
</tr>
</tbody>
</table>

Macro Lites

- **Macro Ring Light LR-14EX**
  - Twin-lens ring light designed for close-up photography with EF Macro lenses.
  - Flash tubes can fire together or independently.
  - Compatible with all EOS bodies.
  - Supports E-TTL/E-TTL II Wireless Autoflash in conjunction with one or more compatible EX Speedlites.
  - Incandescent focusing lamps and two forms of modeling flash permit preview of lighting effects.

- **Macro Twin Lite MT-24EX**
  - Attaches to all Canon EF macro lenses (EF 180mm f/3.5L requires Macro Lite Adapter 2).
  - Twin flash heads can be rotated over 80° angle around lens in 5 degree increments.
  - Heads can be swiveled or bounced and can be removed from mounting ring for added control.
  - Powerful Guide Number of 78 (feet, at ISO 100), full E-TTL control and E-TTL features including FEL, Hi-speed sync, and FE back.

Other Speedlite Accessories

- **Compact Battery Pack CP-E3**
  - Additional rechargeable Ni-Cd Pack TP batteries are available separately. They can also be freely interchanged with Battery Magazine TP. The charger TP recharges a Ni-Cd Pack TP in approximately 1.5 hours.

- **Battery Magazine TP**
  - This magazine holds six commonly available C-size alkaline batteries. Included with Transistor Pack E, it is available separately for instant battery changes during shooting. Can be used in place of the Ni-Cd Pack TP. Connecting Cord ET is also available separately.

Recycling Times and Shooting Capacities (580EX, 480EX, MR-14EX, and MT-24EX)

- **With the 580EX**
  - Recycling Time (SEC) | 350-2,450 | 350-2,200 | 350-1,900 | 350-1,600 |
  - Shooting Capacity (No. of Flashes) | 400-2,800 | 400-2,500 | 400-2,200 | 400-2,000 |

- **With the 480EX**
  - Recycling Time (SEC) | 350-1,900 | 350-1,500 | 350-1,000 | 350-600 |
  - Shooting Capacity (No. of Flashes) | 450-2,800 | 450-2,500 | 450-2,000 | 450-1,500 |

- **With the MR-14EX**
  - Recycling Time (SEC) | 350-1,600 | 350-1,200 | 350-1,000 | 350-700 |
  - Shooting Capacity (No. of Flashes) | 400-2,800 | 400-2,500 | 400-2,200 | 400-2,000 |

- **With the MT-24EX**
  - Recycling Time (SEC) | 350-1,000 | 350-600 | 350-400 | 350-200 |
  - Shooting Capacity (No. of Flashes) | 450-2,800 | 450-2,500 | 450-2,000 | 450-1,500 |

Other Speedlite Accessories

- **Transistor Pack E**
  - A high-performance battery pack with interchangeable power supplies. Available as Transistor Pack E (six alkaline batteries in Battery Magazine TP) or Transistor Pack E Ni-Cd Set (Ni-Cd Pack TP and charger). Both versions include Connecting Cord ET.

- **Macro Ring Lites**
  - Twin flash heads can be rotated over 80° angle around lens in 5 degree increments.
  - Heads can be swiveled or bounced and can be removed from mounting ring for added control.
  - Powerful Guide Number of 78 (feet, at ISO 100), full E-TTL control and E-TTL features including FEL, Hi-speed sync, and FE back.

- **Compact Battery Pack CP-E3**
  - For off-camera applications of Speedlite flash. This adapter will accept one Speedlite and a connecting cord to the camera.

- **Battery Magazine TP**
  - This magazine holds six commonly available C-size alkaline batteries. Included with Transistor Pack E, it is available separately for instant battery changes during shooting. Can be used in place of the Ni-Cd Pack TP. Connecting Cord ET is also available separately.
Power Drive Booster / Battery Pack Chart

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight (without batteries)</th>
<th>Compatibility</th>
<th>Power Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-E2 Battery Magazine</td>
<td>1.8 oz./50g</td>
<td>EOS-1V HS, 1V, 1N, 300, 30D, 20Da, 10D, D60, D30, Rebel 2000</td>
<td>Ni-Cd or Ni-MH alkaline, lithium, eight AA-size batteries</td>
</tr>
<tr>
<td>Booster PB-E2</td>
<td>17.1 oz./484g</td>
<td>EOS-1V HS, 1V, 1N, 300, 30D, 20Da, 10D, D60, D30, Rebel 2000</td>
<td>Lithium, Ni-MH or Ni-Cd rechargeable Ni-Cd, Ni-MH AA-size (Alkaline, 2CR5 lithium battery (x1), 6V Ni-Cd, Ni-MH)</td>
</tr>
<tr>
<td>Ni-MH Pack NP-E2</td>
<td>9.8 oz./280g</td>
<td>EOS-1V HS, 1V, 1N, 300, 30D, 20Da, 10D, D60, D30, Rebel 2000</td>
<td>Nickel-Metal Hydride batteries (x4)</td>
</tr>
<tr>
<td>BM-E2 Battery Magazine</td>
<td>12.5 oz./354g</td>
<td>EOS-1V HS, 1V, 1N, 300, 30D, 20Da, 10D, D60, D30, Rebel 2000</td>
<td>Nickel-Metal Hydride batteries (x4)</td>
</tr>
</tbody>
</table>

Ergonomic Grips

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grip GR20</td>
<td>3.9 oz./110g</td>
<td>EOS RT, 630*, 620*, 650* RS, 1N, 1, A2/A2 E, RT*, 630*, 620*, 650*</td>
</tr>
<tr>
<td>Grip GR2C</td>
<td>5.3 oz./150g</td>
<td>EOS-1D Mark II N, 1D Mark II N, 1D Mark II, 1D, 5D, 30D, 20D, 20Da, 1Ds, 1D Mark II N, 1D Mark II, 1D, 5D, 30D, 20D, 20Da, 1N, 1, A2/A2 E, RT*, 630*, 620*, 650*</td>
</tr>
<tr>
<td>Grip GR27</td>
<td>9.5 oz./271g</td>
<td>EOS-1D Mark II N, 1D Mark II N, 1D Mark II, 1D, 5D, 30D, 20D, 20Da, 1Ns, 1D Mark II N, 1D Mark II, 1D, 5D, 30D, 20D, 20Da, 1N, 1, A2/A2 E, RT*, 630*, 620*, 650*</td>
</tr>
</tbody>
</table>

Remote Control & Date Back

Canon accessories are the perfect choice to enhance your EOS System’s performance. Whether through recording data or controlling your camera remotely, there’s no substitute for Canon’s own accessories.

- **Remote Controller and Switches**
  - Connects compati-
  - Allows independent
  - Simple and easy
  - DS-5700
  - Allows independent
  - Shutter release lock
  - Works like a Shutter
  - Remote switch to
  - Remote controller to
  - Remote switch to
  - Remote switch to
  - Remote controller to
  - Remote controller to

- **Remote Control Accessories**
  - Connects compati-
  - Remote switch to
  - Remote controller to
  - Remote controller to
  - Remote controller to

- **Grips**
  - Connects compati-
  - Remote switch to
  - Remote controller to

**Power Supplies**

To add more power, ergonomics and speed to your EOS SLR body, consider one of Canon’s professional quality power boosters and grips. Check out the chart below to find the best match for your EOS SLR.
Battery Grips

<table>
<thead>
<tr>
<th>Battery Grip</th>
<th>Battery Type</th>
<th>Functions</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG-E4*</td>
<td>NP-E3</td>
<td>AF-frame-select button, Shutter-Release button, AE/FE Lock button, Main Dial, Quick-transmission button, Main Dial setting button, Main Dial setting button.</td>
<td>10D, D60, D30, Digital Rebel EOS Digital Rebel XTi, Digital Rebel XT</td>
</tr>
<tr>
<td>BG-ED3</td>
<td>BP-511/ BP-512/ BP-514</td>
<td>Power directly from an AC power source when connected to a power supply.</td>
<td>EOS-1Ds Mark II, 1D Mark II N, 5D, 30D, 20D or Digital Rebel EOS Digital Rebel XTi, Digital Rebel XT</td>
</tr>
<tr>
<td>PS400 plus DC Coupler DR-400</td>
<td>NP-E3</td>
<td>AF-frame-select button</td>
<td>10D, D60, D30, Digital Rebel</td>
</tr>
</tbody>
</table>

Batteries, Charges, and Adapters

<table>
<thead>
<tr>
<th>Battery Charger</th>
<th>Battery Pack</th>
<th>Functions</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-2LW</td>
<td>NB-2LH</td>
<td>Battery pack has a total capacity of 1,000 mAh.</td>
<td>EOS Digital Rebel XTi, Digital Rebel XT</td>
</tr>
<tr>
<td>CB-2LW</td>
<td>NB-2LH</td>
<td>(Approx. 4.0 megapixels)</td>
<td>EOS-1Ds Mark II, 1D Mark II N, 5D, 30D, 20Da</td>
</tr>
<tr>
<td>CB-2LW</td>
<td>NB-2LH</td>
<td>(Approx. 4.3 megapixels)</td>
<td>EOS-1D Mark II, 300D, 20D, 10D, Digital Rebel XTi, Digital Rebel XT</td>
</tr>
</tbody>
</table>

Power Supply

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Battery Pack</th>
<th>Functions</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFC-200D6/ 400</td>
<td>BP-511/ BP-512/ BP-514</td>
<td>Successively charges two batteries.</td>
<td>EOS-1Ds, 1D</td>
</tr>
<tr>
<td>IFC-450D4/ 200PCU</td>
<td>BP-511/ BP-512/ BP-514</td>
<td>Reduces charging time.</td>
<td>EOS-1D Mark II N, 1D Mark II, 1D</td>
</tr>
<tr>
<td>IFC-120D6</td>
<td>BP-511/ BP-512/ BP-514</td>
<td>Power directly from an AC power source when connected to a power supply.</td>
<td>EOS 30D, 20Da</td>
</tr>
</tbody>
</table>

Battery Grip B8-11

<table>
<thead>
<tr>
<th>Battery Grip</th>
<th>Battery Type</th>
<th>Functions</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>B8-11</td>
<td>NP-E3</td>
<td>Power directly from an AC power source when connected to a power supply.</td>
<td>10D, D60, D30, Digital Rebel</td>
</tr>
</tbody>
</table>

Battery Grip B8-12

<table>
<thead>
<tr>
<th>Battery Grip</th>
<th>Battery Type</th>
<th>Functions</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>B8-12</td>
<td>NP-E3</td>
<td>Power directly from an AC power source when connected to a power supply.</td>
<td>EOS Digital Rebel XTi, Digital Rebel XT</td>
</tr>
</tbody>
</table>

Wireless File Transmitter WFT-E1A

- Enables file transfer to a remote server through a Wireless Access Point connection.
- Supports EOS-1Ds Mark II, 1D Mark II N, 5D, 30D, 20D or Digital Rebel EOS Digital Rebel XTi, Digital Rebel XT for Battery Pack NB-2LH.
- Can communicate directly with a local computer equipped with a wireless USB adapter or via a wired Ethernet connection. It can also be connected to a remote server through a Wireless Access Point connection.
- Built-in wireless signal processing chip and the WFT-E1A is an indispensable tool for shooting fashion or events, allowing photographers to connect to a remote server through a Wireless Access Point connection.
- To a MAC or Windows. Cables used to connect the EOS to a television set or video output device can be used to output image data.
- Can communicate directly with a local computer equipped with a wireless USB adapter or via a wired Ethernet connection. It can also be connected to a remote server through a Wireless Access Point connection.

Memory Cards

- CompactFlash (CF) and SD Cards:
  - Each memory card is a variety of capacities including 1GB, 2GB, 4GB, and 6GB.

Interface & Video Cable

- 0.5 to 2.0: 125 steps
- 2.5 to 7.5: 10 steps
- 10 to 25: 4 steps

Video OUT: 1.0 to 2.5Vp-p, 75Ω, Balanced Output

- **Interface & Video Cable:** The connection is via a video interface (AV OUT port) located on the EOS digital SLR camera.

- **CompactFlash (CF) and SD Cards:** The connection is via a memory card slot located on the EOS digital SLR camera.

- **Battery Grip:** The connection is via a power interface (DC IN port) located on the EOS digital SLR camera.
For further customization, many of Canon’s EOS cameras are compatible with a vast choice of eyecups, dipter lenses and more for greater versatility in a number of shooting situations.

* Used with Dioptric Adjustment Lens E. ** Except Digital Rebel, Rebel T2, Ti and Rebel K2

EOS-3, A 2/A2E, ELAN 7 series, and Eyecup Ed-E for vertical shots.

Compatibility
- EOS-1Ds Mark II, 1Ds, 1D Mark II N, 1D Mark II, 1D, D2000, 1 V HS, 1V, 1N RS, 1N, 1 and 3 EOS-1D Mark II N

These Dioptric Adjustment lenses provide users with enhanced viewfinder visibility. It is especially helpful for eyeglass wearers when photographing wide angles. The lens can be rotated for vertical shots.

EOS SYSTEM ACCESSORIES

Shooting Accessories

**Dioptric Adjustment Lens E.** For more customization, many of Canon’s EOS cameras are compatible with a vast choice of eyecups, dipter lenses and more for greater versatility in a number of shooting situations.

For further customization, many of Canon’s EOS cameras are compatible with a vast choice of eyecups, dipter lenses and more for greater versatility in a number of shooting situations.

For general photography and astrophotography or for copy work and when combining the focusing screen and installing new screen. Be sure to set camera’s Custom Function 00-1.

*Anti FOG Eyepiece* These wrap-around, semi-transparent lenses provide users with enhanced viewfinder visibility. It is especially helpful for eyeglass wearers when photographing wide angles. The lens can be rotated for vertical shots.

Compatibility
- EOS-1n RS

This matte field screen is particularly useful for accurate exposure when using microprism screens. A circle centered in the center of the split image is used for determining accurate focus and when adjusting, the margin is easily visible. The Focusing Screen Ee-D is also offered. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-C: Laser-Matte with split-image. It is used for general photography and for accurate exposure. This screen is provided with the EOS-1s, but is recommended for use with microprism focusing screens. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-B: New Split Cross-Hair with f/2.8 and faster. It is ideally suited for use with all lenses. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-A: Precision Matte with f/5.6 or faster. It’s ideally suited for use with all lenses. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-D: Laser-Matte with microprism. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-H: Laser-Matte with microprism. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-N: New Laser-Matte with microprism. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-R: New Laser-Matte with microprism. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-CIII: Laser-Matte with split-image. This is the standard screen for EOS 5D. The outer oval-shaped area defines the coverage of the 45 AF points; the inner circle is used for square cropping. Partial or spot metering is recommended.

Ee-CII. It can be used in any area on the screen. Focus can be checked anywhere on the screen. It is about 1/2-stop more vividly than with the standard Ee type screens.

Ee-4: The Type-4 screen can also be attached to 35mm EOS-1 series and EOS-1 series cameras. It provides users with enhanced viewfinder visibility. It is especially helpful for eyeglass wearers when photographing wide angles. The lens can be rotated for vertical shots.
Canon offers a comprehensive line of accessories for the photographer on the go. Canon’s camera cases are built specially to protect EOS models, and the bags can accommodate a number of different camera configurations. These are all built to the highest standards, and are the perfect complement to the EOS System.

### Case
- **Description**: Durable water-repellant nylon and easy access for smaller items. Durable water-repellant nylon and padded dividers. Also Custom Media pouches provide storage spaces with fast access.
- **Dimensions**: Size: 10” x 14.75” x 5” (W x H x D)
- **Inside**: 13” x 9.5” x 6.25” (W x H x D)

### Bag
- **Description**: Designed for easy access and to hold your important gear.
- **Dimensions**: Size: 12” x 8” x 6” (W x H x D)
- **Inside**: 10” x 14.75” x 5” (W x H x D)

### Professional Gadget Bag 1EG
- **Description**: Digital Gadget Bag 200DG Plus a built-in waist belt covering to keep your gear safe and sound. Fully padded pockets and zippered er protection and the weather flapped top. Waterproof, urethane-coated material.
- **Dimensions**: Inside: 14.2” x 8.7” x 8.3” (W x H x D)
- **Storage**: Gadget Bag 1EG. Plus a built-in waist belt covering to keep your gear safe and sound. Fully padded pockets and zippered er protection and the weather flapped top. Waterproof, urethane-coated material.

### Deluxe Gadget Bag 10EG
- **Description**: Custom Gadget Bag 100EGPlus a built-in waist belt covering to keep your gear safe and sound. Fully padded pockets and zippered er protection and the weather flapped top. Waterproof, urethane-coated material.
- **Dimensions**: Inside: 10” x 14.75” x 5” (W x H x D)
- **Storage**: Custom Gadget Bag 100EGPlus a built-in waist belt covering to keep your gear safe and sound. Fully padded pockets and zippered er protection and the weather flapped top. Waterproof, urethane-coated material.

### Semi-Hard Case
- **Description**: A lightweight, high-quality monopod featuring a quick release and photo platform. Quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 59.33” extended/21.67” folded
- **Weight**: 1.25 lbs
- **Description**: Lightweight tripod featuring a built-in quick release and photo platform. quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 63.0” extended/20.5” folded
- **Weight**: 1.3 lbs

### Rubber Frame Ef Dioptric Adjustment
- **Description**: A lightweight, high-quality monopod featuring a quick release and photo platform. Quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 59.33” extended/21.67” folded
- **Weight**: 1.25 lbs
- **Description**: Lightweight tripod featuring a built-in quick release and photo platform. quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 63.0” extended/20.5” folded
- **Weight**: 1.3 lbs

### Dioptric Adjustment Lens E
- **Description**: A lightweight, high-quality monopod featuring a quick release and photo platform. Quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 59.33” extended/21.67” folded
- **Weight**: 1.25 lbs
- **Description**: Lightweight tripod featuring a built-in quick release and photo platform. quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 63.0” extended/20.5” folded
- **Weight**: 1.3 lbs

### Eyecup Ed-E
- **Description**: A lightweight, high-quality monopod featuring a quick release and photo platform. Quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 59.33” extended/21.67” folded
- **Weight**: 1.25 lbs
- **Description**: Lightweight tripod featuring a built-in quick release and photo platform. quick release and photo platform. Lightweight tripod featuring a built-in quick release.
- **Dimensions**: 63.0” extended/20.5” folded
- **Weight**: 1.3 lbs

### EOS SYSTEM CHART
PHOTO PRINTERS

PHOTO PRINT TECHNOLOGY

Built upon a foundation of leading-edge technologies, the EOS System puts photographers in touch with their minds’ eyes, enabling them to capture images of beauty and clarity that had once existed only in their imaginations. Canon’s commitment to photographic excellence, however, does not end with image capture. Combining Canon’s unparalleled expertise in photography, photocopier, and printing technologies, Canon imagePROGRAF and PIXMA photo printers are redefining output quality, performance and convenience. Deliberately extruding ink and print head technologies, sophisticated filters with advanced color controls, professional software support and compatibility with a broad selection of papers and specialty media, Canon photo printers are surpassing the expectations of demanding photographers and imaging professionals. They are the perfect complement to your EOS System with results that are nothing short of stunning!

Large Format Printer Technology

Photographers seeking to produce their own gallery-grade inkjet prints have had limited choices until now. Understanding the demands of professional photographers—especially those who shoot with the EOS System—Canon has responded with the imagePROGRAF iPF5000 and iPF9000. Both feature impressive new technologies that bring unprecedented quality and performance to large format photo printing. It’s never been simpler or more cost-effective to produce gallery-quality prints at home or in the studio.

LUCIA 12-Color Pigment Ink Set

Canon’s newly developed LUCIA (‘light’ in Latin) 12-color pigment ink set delivers a substantially wider color gamut than ink sets used in competitors’ printers. This greater range of available colors produces vibrant, color-rich prints that rival or beat those produced in the photo lab. The LUCIA ink set includes three levels of gray—black or matte black, gray and photo gray—to deliver high-quality black and white photo prints with exceptional d-max and wide tonal ranges. To ensure long-lasting prints with excellent archival characteristics, these inks are pigment-based, making prints ideal for display or sale. Canon’s imagePROGRAF printers ship with a starter set of all 12 inks.

PhotoLithographic User-Replaceable Print Heads

Canon’s FINE (Full-photolithography Inkjet Nozzle Engineering) print heads ensure accurate and detailed ink delivery, no matter the medium being used for printing. This new, advanced head design uses less ink than other 15,360-nozzle heads, which results in substantial cost savings and fewer nozzles requiring maintenance. The print heads are user replaceable, while offering dual-tasking capabilities with no service calls, saving time and money.

16-Bit Printing Support

While conventional inkjet printers support 8 bits per-channel, Canon’s imagePROGRAF and PIXMA photo printers support advanced 16-bit printing. This enables printing directly from Digital Photo Professional 2.1. Also included is an export module for printing in 16-bit Expressions, directly from Adobe® Photoshop®. These features provide the photographer with the full tonal dynamic range of large 16-bit images from capture to output. Images and print specifications are maintained throughout the workflow. These features provide the photographer with the full tonal dynamic range of large 16-bit images from capture to output. Images and print specifications are maintained throughout the workflow. These features provide the photographer with the full tonal dynamic range of large 16-bit images from capture to output. Images and print specifications are maintained throughout the workflow. These features provide the photographer with the full tonal dynamic range of large 16-bit images from capture to output. Images and print specifications are maintained throughout the workflow.
PHOTO PRINTERS

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Photo Printing Redefined

Canon photo printers deliver professional, lab-quality prints of images taken by EOS digital cameras with convenience and speed. Augmented by new ink sets and technology that improve the quality of color and black and white prints, Canon’s new imagePROGRAF and PIXMA photo printers have redefined professional photo output.

Professional Quality Photos for Big Ideas.

Capable of quickly printing high-quality prints up to 13" x 19", Canon’s PIXMA Pro9000 raises the bar thanks to its combination of speed and quality. Its FINE print heads produce a maximum resolution of 4800 x 2400 dpi and ChromaLife100 dye-based inks create long lasting, beautiful photos. Canon’s Easy-PhotoPrint Pro software, including plug-ins for Digital Photo Professional V2.1 and Adobe Photoshop CS/CS2, combine with a new printer driver for advanced color control, ensuring accurate prints from the start.

NEW

PIXMA Pro9000

Superb Color reproduction with Canon’s LUCIA 12-Color pigment Ink Set

With Canon’s imagePROGRAF, IPP5000, as compared to dye sublimation ink, Canon’s exclusive 28-color pigment set provides an enormous range of colors and greys, for vibrant, detailed color and black and white images. With Canon’s imagePROGRAF, you’ll be amazed at the results thanks to over 28,000 nozzles. Matte Black and Black Ink cartridges are both loaded at the same time, enabling automatic switching without wasting time or ink.

IPP5000

Style & Photo Lab Quality Performance with 3.5” Color LCD Viewer

The new PIXMA iP6700D is the perfect printer for serious photography, with or without a computer. Featuring an extra large 3.5-inch color LCD viewer, plus compatibility with select memory and PictBridge devices, the iP6700D has built-in red-eye reduction and image enhancement capabilities, for enhancement on-the-fly. Using Canon’s LUCIA system ink and FINE print head, both capable of 9600 x 2400 dpi with droplets as small as one picoliter, it makes impressive prints, even double-sided, fast.

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NEW

PIXMA iP6700D

NEW

PIXMA MP810

NEW

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NEW

PIXMA iP6700D

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NEW

PIXMA iP6700D

NEW

PIXMA MP810

NEW

PIXMA MP810
### Photo Printers & Compact Photo Printers

<table>
<thead>
<tr>
<th>Printer Type</th>
<th>Model</th>
<th>Print Head</th>
<th>DPI</th>
<th>Image Repeat</th>
<th>Input Media</th>
<th>Print Head Nozzles</th>
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<tbody>
<tr>
<td>Photo Printer</td>
<td>PIXMA Pro9000</td>
<td>4800x2400</td>
<td>– / –</td>
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<tr>
<td>Photo Printer</td>
<td>PIXMA iP6700D</td>
<td>9600x2400</td>
<td>– / –</td>
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<td>Photo Printer</td>
<td>PIXMA iP6310D</td>
<td>–</td>
<td>– / –</td>
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<tr>
<td>Photo Printer</td>
<td>PIXMA iP1700</td>
<td>–</td>
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<td>Photo Printer</td>
<td>PIXMA mini260</td>
<td>–</td>
<td>– / –</td>
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<tr>
<td>Photo Printer</td>
<td>SELPHY CP730/CP720</td>
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### Photo All-In-One

<table>
<thead>
<tr>
<th>Printer Type</th>
<th>Model</th>
<th>Print Head</th>
<th>DPI</th>
<th>Image Repeat</th>
<th>Input Media</th>
<th>Print Head Nozzles</th>
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<tbody>
<tr>
<td>Photo All-In-One</td>
<td>PIXMA MP810</td>
<td>48-bit internal</td>
<td>– / –</td>
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<tr>
<td>Photo All-In-One</td>
<td>PIXMA MP510</td>
<td>48-bit internal</td>
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<td>PIXMA MP460</td>
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<td>Photo All-In-One</td>
<td>PIXMA MP830</td>
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<tr>
<td>Photo All-In-One</td>
<td>CANON All-in-one CN</td>
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### Color Image Scanners

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<th>Scanner Type</th>
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<th>DPI</th>
<th>Image Repeat</th>
<th>Input Media</th>
<th>Print Head Nozzles</th>
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</thead>
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<tr>
<td>Color Image Scanner</td>
<td>CanoScan 9950F</td>
<td>Up to 4800x9600</td>
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<tr>
<td>Color Image Scanner</td>
<td>CanoScan LiDE 25</td>
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<tr>
<td>Color Image Scanner</td>
<td>CanoScan LiDE 4600F</td>
<td>–</td>
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</tbody>
</table>

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**Notes:**
- All printers support USB 2.0 High Speed and Firewire. The Canon Pixma Pro9000 supports IrDA (infrared), Bluetooth, SD Card, XD-Picture Card, Memory Stick Duo, Memory Stick Pro Duo, RS-MMC, MultiMediaCard, and minSD. It requires an additional adapter which must be purchased separately.
- All scanners support Network, Macintosh, Windows, and Linux operating systems.
- All printers support direct printing from a number of digital media files. For additional information, see the manual included with the printer.
- All scanners support Macintosh and/or Windows operating systems. Canoscan LiDE 4600F supports Mac OS X v.10.2 or higher operating systems, the printer will operate at USB 1.1 specifications.
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**Copy/Scan Functions Special Features:**
- **Copy:**
  - Duplex Printing
  - Copy/Scan Capabilities
  - One Cable for USB and Power
  - Supports negatives
  - Film Automatic Enhancement
  - 2-sided ADF
  - Level 3

- **Scan:**
  - Flatbed
  - Film Automatic Enhancement
  - 2-sided ADF
  - Film Automatic Enhancement
  - 2-sided ADF

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**Ordering Information:**
- For additional information, see the manual included with the printer.
- For additional information, see the manual included with the scanner.
- All scanners support Macintosh and/or Windows operating systems. Canoscan LiDE 4600F supports Mac OS X v.10.2 or higher operating systems, the printer will operate at USB 1.1 specifications.