Canon

EOS-1N

Now it's Canon. The professional choice.

EOS-1N: We've taken your favorite camera

EOS-1N

EOS-1N RS

In five short years, the EOS-1 has become the preferred choice of working photographers the world over.

A standard by which others are measured. But the time has come for it to give way to the new generation. Presenting the EOS-1N. Designed with input from many demanding

and made it even better.

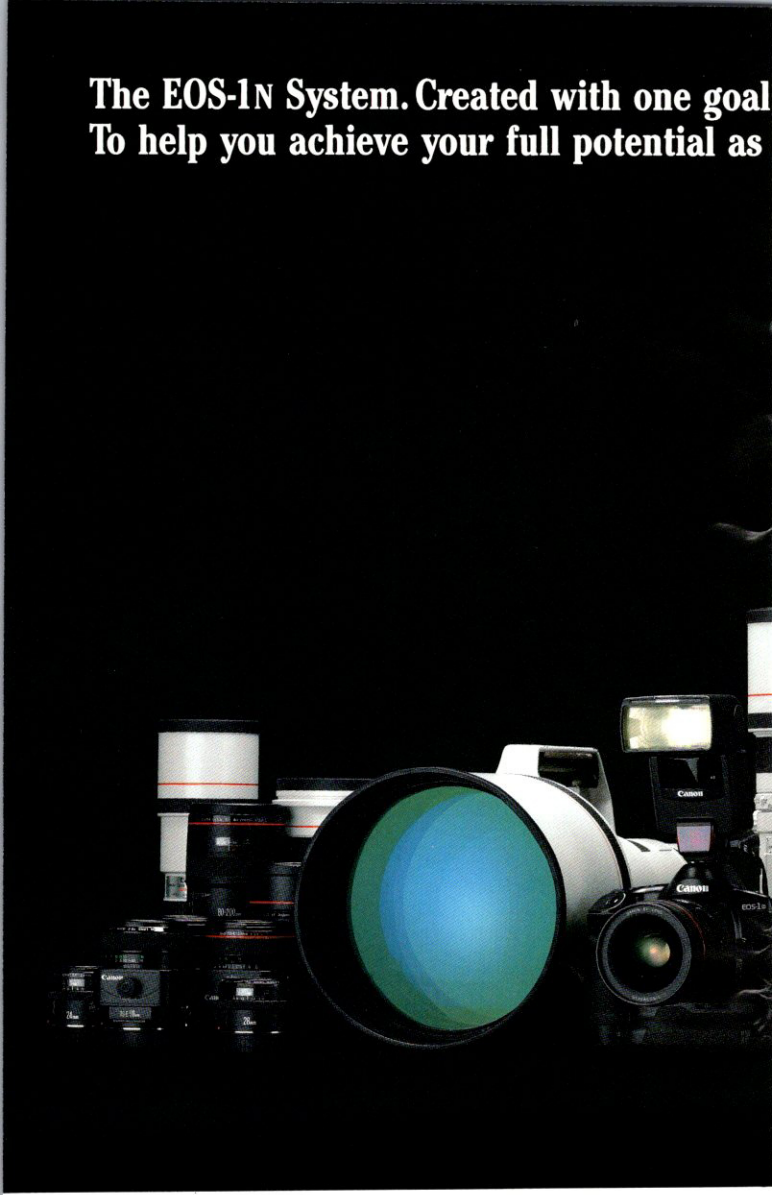
EOS-1N with
Power Drive Booster E1

EOS-1N with
Battery Pack BP-E1

The EOS-1N RS will be available in spring 1995.

professionals. This is a camera destined for greatness. A camera that will be a true extension of your eye and your mind. A versatile, high-precision tool that will allow you to fully express your own creativity.

The EOS-1N System. Created with one goal To help you achieve your full potential as



The EOS-1N is your entree into the comprehensive Canon EOS system. We encourage you to exploit its advantages, including the EF lens line — the world's largest selection of autofocus lenses for SLRs.* Each individual lens features a remarkable degree of sophistication and versatility — qualities that are maximized in conjunction with the EOS-1N. Canon's advanced design philosophy allows every aspect of the EOS system to be upgraded, including lenses, flash units, interchangeable backs and more. So the entire system will always be on the cutting edge of

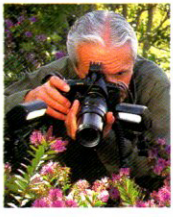
in mind:
a photographer.

photographic excellence.

New system accessories include the Speedlite 540EZ, a powerful flash unit with a multitude of improvements including an exposure confirmation signal, and Battery Pack BP-E1, a compact power supply grip that features a choice between 6-volt lithium and AA-size batteries. The EOS-1N system you see here is nearly complete. The only thing that's still necessary is you, the photographer, ready to achieve the full potential of your expertise and creativity with a superb photographic system.

*As of September 1994.

Brief explanation of the creation of the EOS-1N: We asked professionals what they



The EOS-1N was designed to build on the strengths of the EOS-1, a camera that revolutionized the professional market, and to incorporate new technologies and design concepts to fill professionals' wish lists. A partial listing of its advanced features would include: Five-point autofocus using a new high-precision Multi-BASIS (Base-Stored Image Sensor) for

needed. We listened. We produced.

wide-area coverage. Faster shooting speed — up to 6 frames/sec with Power Drive Booster E1. Choice of 5 metering modes, including 16-zone evaluative metering. Three-zone flash metering linked to the focusing point. Super-quiet rewinding. And six more (total 14) Custom Functions, including mirror lock, for enhanced operational flexibility.

The EOS-1N's design goals are realized wit

At Canon, we are in pursuit of the ideal camera, a camera that could be compared to the human eye. To get one step closer to our goal, we have linked focus and exposure in a sophisticated way: the AIM (Advanced Integrated Multi-point control) system. This exclusive system gives you greater accuracy and greater flexibility — exactly what the EOS-1N was designed for.

h the AIM system.

The EOS-1N's autofocus system provides maximum flexibility.

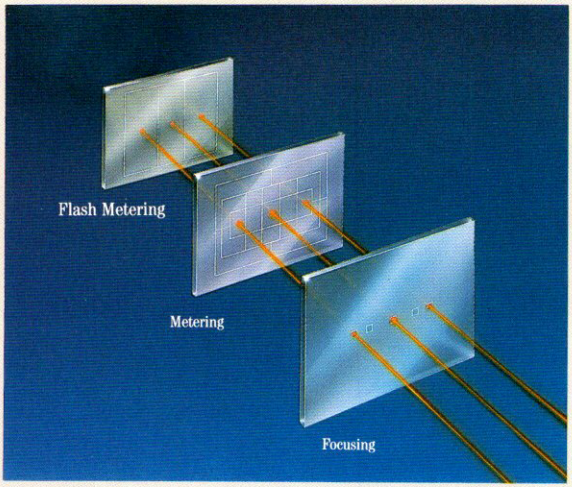
Select the focusing point you want for fast, versatile AF.
The EOS-1N uses an innovative 5-Point Autofocus system that provides a higher degree of versatility than ever. You can manually choose any of the five focusing points; once selected, the point is superimposed in red and autofocusing is instantaneous. With its high speed and accuracy, this is an AF system you can rely on in a wide variety of situations.

You can also let the camera select the optimum focusing point for you.
As you point the camera at the scene you wish to photograph, the AF system automatically evaluates it and determines which of the five points offers the optimum focus for the shot's composition. It selects the point, superimposes it in red, and sets the precise focus.

Custom Function 11

If the subject is approaching or moving away diagonally across the frame, the Quick Control dial provides ultra-fast focusing point selection to help you track the motion.

AIM enables focusing and metering to work together for optimum results.



The EOS-1N uses a 16-zone SPC (silicon photocell) sensor for extremely accurate and versatile exposure metering. During Evaluative Metering, for example, readings are taken from each of the 16 zones and compared with predefined algorithms to determine optimum exposure settings. The five central zones are also the locations of the areas used by the camera's 5-Point Autofocus system to accomplish high-precision metering according to subject position. Autofocus and metering thus work together simultaneously to ensure that both focus and exposure centered on the main subject are ideal. This is why we call the entire system AIM: Advanced Integrated Multi-point control. What's more, if you want to move off-center and set exposure for a specific area, you can select any of the five points manually and use Spot Metering to set the exposure for the area centered on that point.
For flash photography, the 3-zone TTL flash metering pattern is linked to the five focusing points, enhancing the flash exposure precision for the main subject by taking its position into consideration.

Advanced technology delivers ultra-precise focusing.

The EOS-1N's autofocus system makes use of our latest generation Multi-BASIS (Base-Stored Image Sensor) technology. This is a new multi-point sensor that features four vertical sensors on the left and right sides, in addition to the reliable cross-type sensor for the center focusing point (|+|), as found in the EOS-1. The cross-type sensor consists of a horizontal sensor and an extra vertical sensor that activates with lenses of f/2.8 or faster, for superior focusing precision. It provides enhanced focusing versatility, as well as superior wide-area coverage. The range of problematic situations for autofocus is greatly reduced, making overall autofocusing performance even more reliable.

Unfailing accuracy at all lighting levels.

The autofocus system operates to professional standards of accuracy at light levels from EV 18 down to 0. It focuses quickly and precisely in dimly lit rooms, twilight conditions, and other situations where even manual focusing is difficult due to limited visibility. And when combined with certain dedicated Speedlites, autofocus is possible even in pitch dark conditions, with the help of the auxiliary light emitted from the flash unit. Having accurate AF operation available for these tough situations creates new possibilities for sophisticated photography.

One-Shot AF locks in razor-sharp focus.
In the One-Shot AF mode, the EOS-1N focuses automatically using the 5-Point AF system, and locks in when focusing is completed. Until then, the shutter doesn't work, so out-of-focus shots are eliminated. When using evaluative metering, exposure is determined simultaneously with autofocusing.

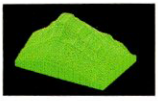
AI Servo AF maintains clarity when shooting moving subjects.
With AI Servo AF, the camera continues to focus on a moving subject, so you can concentrate on the picture composition and best timing for shutter release. When the subject reaches a certain speed toward or away from you, Focus Prediction Control automatically engages, assessing its speed and direction to forecast where it will be at the instant of exposure. The first frame has shutter release priority, so you can shoot regardless of whether AF is completed or not. When shooting continuously, subsequent frames are controlled by focus priority. The EOS-1N's high-speed AF is capable of capturing the action at 3 frames/sec., which can be increased up to 5 frames/sec. with Focus Prediction Control by using the optional Power Drive Booster E1.

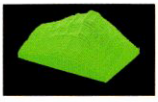
Custom Function 4

One of the most valuable and unique features of the EOS-1N is its ability to provide independent control of autofocus and shutter release. Custom Function 4 is particularly effective for photography of moving subjects in conjunction with AI Servo AF.

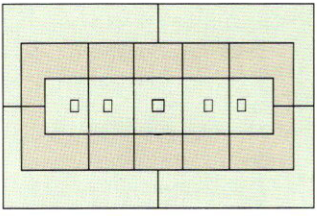
Sophisticated, versatile metering gives you a choice: experiment freely with it.

16-Zone Evaluative Metering





16-Zone Evaluative Metering for exceptionally fine precision.
The EOS-1N's Evaluative Metering system gives you high metering precision, providing optimum exposure for a wide variety of conditions, including backlit scenes or extremely bright or dark subjects. The key is a microprocessor-controlled metering system that evaluates lighting conditions in 16 different zones. And thanks to Canon's advanced AIM system, subject position is also evaluated using the active focusing point as the most heavily weighted area, so exposure is based on the reading from the primary subject.



16-Zone Evaluative Metering Pattern

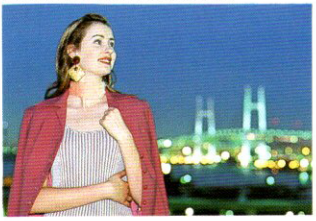
Spot Metering Linked to the Focusing Points

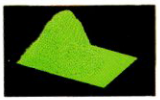
*All metering sensitivity patterns are based on Canon's standard test lighting conditions, and do not exactly match the sample photos.

Spot Metering and Fine Spot Metering modes.
Both of these modes are extremely selective. By using Custom Function 13, you can choose Spot Metering to measure the light from the single zone centered on any selected focusing point (about 3.5% of the image area). This is another noteworthy feature of the AIM system. Fine Spot Metering is even more precise, reading the area occupying only the central 2.3% of the image area (identified by the circular mark on the EOS-1N's standard focusing screen). These modes thus allow specific, precise metering of the key areas of your photograph.

forget about exposure or

3-Zone Flash Exposure Metering





3-Zone Flash Exposure Metering.

The EOS-1N is equipped with a dedicated 3-zone metering sensor aimed at the film plane, to meter the amount of light from the flash actually reaching the film through the lens, for precise flash exposure control. Moreover, thanks to the AIM system, operation of this 3-zone sensor is linked to the five focusing points, increasing flash exposure precision by automatically weighting the exposure to the zone where the active focusing point is located.

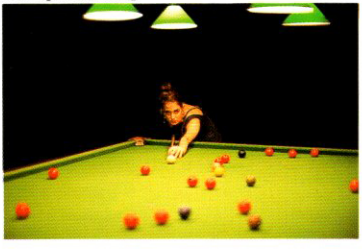
Partial Metering mode.

Partial Metering limits readings to the center section, about 9% of the image area. You'll find it effective for situations where you want an accurate reading of the lighting in a certain area, without influence from bright or dark surroundings.

Convenient exposure compensation.

When you want to use exposure compensation for fine adjustments after metering, the EOS-1N's Quick Control Dial makes it fast and convenient.

Fine Spot Metering



Custom Function 8

Custom Function 8 exchanges Center-Weighted Average Metering for Evaluative Metering. In this mode, the metering system takes readings from the entire viewfinder area with maximum emphasis on the central area – regardless of subject position. Unlike Evaluative Metering, Center-Weighted Average Metering leaves the matter of exposure compensation completely up to the photographer, providing yet another creative tool that's always available on demand.

Custom Function 6

Allows selection of Tv, Av and exposure compensation stop increments.

0: Tv/Av 1/3-stop, exposure compensation 1/3-stop
1: Tv/Av 1-stop, exposure compensation 1/3-stop
2: Tv/Av 1/2-stop, exposure compensation 1/2-stop

Our sophisticated film transport system extends your capabilities.

Built-In Motor Drive for rapid continuous shooting.

The EOS-1N features a built-in high-performance film transport motor that gives you a choice of two modes. The single exposure mode advances the frame once each time the shutter is pressed. In the continuous exposure mode, the built-in motor drive advances film at a speed of up to 3 frames/sec.

The standard camera body uses a 6-volt lithium battery, while the optional Battery Pack BP-E1 accepts four AA-size batteries as well as a 6-volt lithium.

Power Drive Booster E1 lets you fire away at six frames per second.

If your requirements include shooting faster than three frames a second, the optional Power Drive Booster E1 is what you need. Attach it to the EOS-1N to increase film winding speed to up to 6 frames/sec., powered by eight AA-size batteries. Continuous exposure while tracking the subject's motion with Focus Prediction Control is possible at up to 5 frames/sec. For additional convenience, it has shutter and AE lock buttons positioned on the base, so you can operate the camera in a vertical position with as much ease as in the normal position.

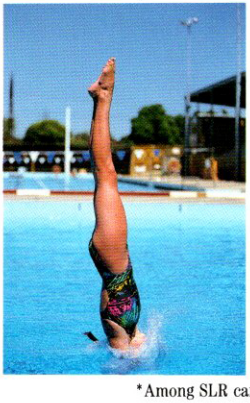
The EOS-1N's rewind isn't quiet... it's silent.

Through the use of a high performance motor, new gears, and a new mechanism, we achieved a special Silent Rewind mode. The resulting figures whisper for themselves: a noise level of 59dB in the normal mode (even with the Power Drive Booster E1), and an all-but-noiseless 48dB in the Silent Rewind mode.

The EOS-1N RS: when you want to *really* see what you're shooting.

The EOS-1N RS is an extremely high-performance camera featuring real-time operation. It enables you to precisely capture the decisive moment by providing a release time lag of only **6 milliseconds** (the world's shortest*) and by keeping the viewfinder image constantly visible. How is this possible? Through the use of a new hard-coated pellicle mirror with the unique characteristic of allowing light to pass through and reflecting it at the same time. And since the mirror mechanism is fixed in place, the camera is free from mirror movement shock and operating noise is much lower.

The benefits of real-time operation are numerous for flash photography, too. You can confirm flash synchronization because the viewfinder image remains constantly visible. You can easily determine optimum release timing during second-curtain synchro flash photography. And you can also monitor the special effects of stroboscopic flash photography.



*Among SLR cameras as of September 1994.

Continuous shooting at 10 frames per second.
The EOS-1N RS incorporates a high-speed motor exclusive for film wind, giving you the capability of shooting continuous exposures at the rate of up to **10 frames** per second in the RS mode. Moreover, mechanical, and even electronic manual focusing during continuous shooting is possible.

Designed for professional efficiency the serious pho

14 Custom Functions let you make the EOS-1N *your* camera. Custom Functions allow you to "fine-tune" the camera to suit your style of photography, as well as to change modes easily to match varying conditions. They make the EOS-1N supremely flexible and completely *yours*.

Custom Functions

1 Sets automatic film rewind to high-speed mode or quiet mode or cancels automatic rewind.
2 Leaves the film leader outside the cartridge after rewinding.
3 Allows manual film speed setting of DX-coded film.
4 Initiates autofocus or locks focus by pressing AE lock button.
5 Shutter speed is set by Quick Control Dial and aperture value is set by Main Dial.
6 Sets shutter speed and aperture value in 1-stop or 1/2 stop increments, and sets the exposure compensation amount in 1/2 stop increments.
7 Electronic manual focus adjustment possible by setting focus mode switch with USM lenses.
8 Evaluative metering switches to center-weighted average metering.
9 Changes the exposure bracketing sequence and conditions of automatic cancellation when using AEB.
10 Prohibits superimposed focusing points in the viewfinder.
11 Changes the focusing point selection method.
12 Selects the exposure with the mirror locked up.
13 Links spot metering to the manually selected focusing point.
14 Cancels automatic flash reduction control.

Custom Function Set Button
Battery Check Button
Film Winding Mode Selector
Clear Button

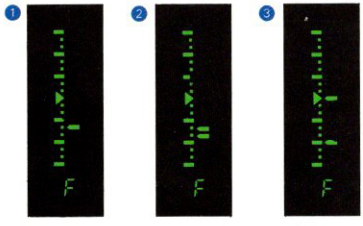
tographer will appreciate.

Two control dials give you extensive control options.
Any serious photographer will tell you: the more control, the better. The EOS-1N gives you more control, so you can achieve better photography. The key is *two* convenient control dials.

The Main Dial allows you to set a variety of basic functions, such as AF operation, exposure control and metering pattern. It also selects shutter speeds or aperture values, as well as the Custom Functions.

The Quick Control Dial is one of the reasons why the EOS-1N is a superb camera. The most effective way to use it is as an exposure compensation dial for fine tuning to your preference, when you let the bottom, especially useful is the real time exposure indicator at the side, a part of its display examples are shown below.

Sophisticated viewfinder.
The viewfinder presents a field of view that is virtually 100% vertically and horizontally, ensuring that you see exactly what you are photographing. It has -3 to $+1$ built-in dioptric adjustment for those who wear glasses, and the eyepiece has a built-in shutter. The bright display provides a wealth of information at the side and along the bottom. Especially useful is the real time exposure indicator at the side, display examples of which are shown below.



1 1-1/3 stops underexposure

2 1-1/2 stops underexposure

3 Difference between the locked exposure value and the continuously metered exposure value when changing picture composition after AE lock.

The EOS-1N feels more than good in your hands: it feels professional.
The contoured shape fits your hand naturally, with the key controls right under your fingers. The large Quick Control Dial on the back is easily turned with your thumb (and can be locked out whenever you want), whether the camera is held horizontally or vertically. And a leather-pattern molded rubber coating on the palm door further improves your grip. The large LCD display panel presents various information in pictorial form, for easier visibility. You'll know this is a remarkable camera as soon as you hold it, but the more you operate it, the more you'll appreciate its superior design.

High-performance shutter
A new shutter unit is employed in the EOS-1N. It features a blazingly fast top speed of 1/8000th sec., a maximum flash sync speed of 1/250th sec., and ultra-high precision. What's more, by reducing the weight and load of the shutter blades with the use of carbon fiber and duralumin materials, durability has been further enhanced.

The EOS-1N's sophisticated technology is well protected.
The EOS-1N gives you delicate control and fine precision, but have no fear — this is a tough, hard-working camera. The body is made of glass-fiber reinforced polycarbonate resin, a material that passes our severest durability tests, in conjunction with a solid aluminum alloy diecast. The camera is also extremely dust- and water-resistant, thanks to a fully sealed cover, the elimination of external slide switches, and other features. Reliability is further improved by the use of double contacts at the key electrical positions. Flawless operation is confirmed from −4°F to 113°F (−20°C to 45°C), and to 85% humidity, based on our standard test method.

7 different exposure modes let you nail the shot you want, then explore new possibilities.

Shutter-Priority AE

Intelligent Program AE

This mode calculates and sets both shutter speed and aperture, and is the one you'll rely on for average photographic situations.
A particularly nice touch is that it automatically takes into account the focal length of the lens being used. If the shutter speed is too slow to hand-hold the lens, the program sets a larger aperture, permitting a faster shutter speed. The result is instant protection against camera shake. Even when a zoom lens is used, the selected focal length is noted and the program reacts to ensure optimum settings. If you want to change the shutter speed or aperture, simply turn the Main Dial, and Intelligent Program AE will alter the setting accordingly.

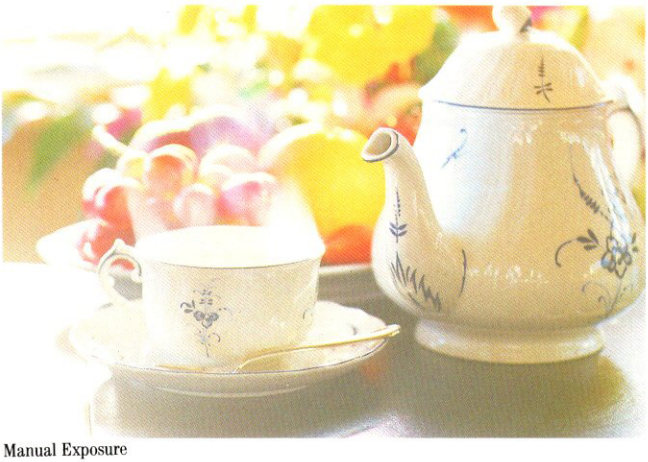
Aperture-Priority AE (Av)

In this mode, you use the Main Dial to select your desired aperture, and the camera decides the appropriate shutter speed for correct exposure. Aperture-Priority AE lets you control the depth of field: large apertures for out-of-focus backgrounds and small apertures for a deep focus zone. The values are normally set in 1/3-stop increments, but Custom Function 6 allows you to switch to 1/2- or 1-stop increments.

Shutter-Priority AE (Tv)

Again, the Main Dial is used to control the setting. It selects the shutter speed, with the camera then determining the best aperture. Speeds can be set in 1/3-stop increments from 30 seconds to 1/8000th second (as in Av mode, Custom Function 6 will change the increments). Naturally, the faster speeds are effective for freezing fast action (and 1/8000 will freeze virtually anything), but it's interesting to experiment with slower speeds for small or large amounts of blur to show the subject's motion or to emphasize the direction of its movement.

Aperture-Priority AE



Manual Exposure

Depth-of-Field AE

A remarkably easy way to get your desired depth of field. All you do is focus the nearest point you want to be sharp, then do the same for the farthest point. Then compose the picture and shoot. The EOS-1N selects the best focus point and aperture value so that everything between the two points appears sharp, as well as the shutter speed according to the selected aperture value for optimum exposure. (Not available with EOS-1N RS)

Manual Exposure

In the Manual mode, you gain full control, using the Main Dial to set shutter speed and the Quick Control Dial for aperture settings. Or if you prefer, these functions can be reversed with Custom Function 5. The viewfinder display shows both your settings, as well as the exposure value metered by the camera.

A-TTL Flash AE mode

A-TTL, the standard flash exposure mode for EOS flash photography, stands for "Advanced Through-the-Lens" exposure control. That it's "through-the-lens" means that the light value of the flash illumination actually reaching the film through the lens is what determines the exposure. For this purpose, the EOS-1N contains a dedicated three-zone sensor aimed at the film plane, to control the flash exposure while taking the subject's position into consideration.

+1/3 Stop Overexposure

Multiple Exposures

The term "advanced" refers to a unique pre-exposure flash burst emitted automatically to measure the flash-to-subject distance. In Program modes, the EOS-1N's built-in microprocessor compares the aperture value required for correct background exposure based on the A-TTL program, to an aperture value based on flash-to-subject distance as revealed by the A-TTL preflash. By choosing the smaller aperture of the two, the system provides correct exposure up to the maximum range for the Speedlite regardless of the lighting conditions, plus more depth of field for close-ups.

Multiple Exposures

This function lets you expose the same frame up to nine times — you preset using the Main Dial. Great for creative effects.

Auto Exposure Bracketing

This just-to-be-sure feature provides three sequential exposures, shifting the exposure value up and down. You set the bracketing range, choosing from F13 stops in 1/3-stop increments. You can also use AEB for creative experimentation.

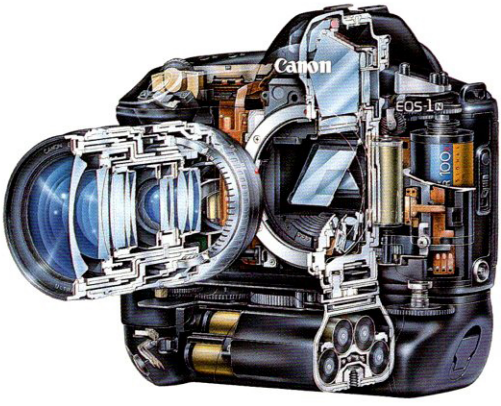
Custom Function 9

Custom Function 9 allows selection of bracketing order.

Correct Exposure

– 1/3 Stop Underexposure

Unmatched technology gives you the capability to take the world's finest photographs.

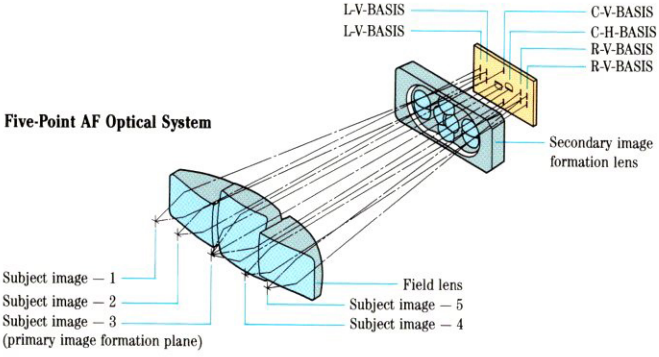


Autofocus system

The EOS-1N employs a new-generation Multi-BASIS (Base-Stored Image Sensor) featuring five focusing points for improved wide-area coverage (||+||). It also provides exceptionally high precision, due to three main features. The first is a cross-type sensor that matches the performance of the EOS-1. The second is an on-chip gain circuit that boosts the signals from the individual pixel amplifiers 20 times, for higher sensitivity and better S/N (signal-to-noise) ratio. The third is a control circuit that allows focusing of low contrast subjects down to 90 : 80. In addition, an AF-dedicated microprocessor provides faster autofocusing than the EOS-1, even with five focusing points compared to one, thanks to faster computation speed.

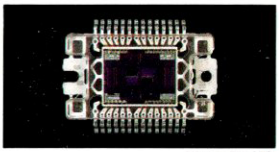
TTL-CT-SIR Ranging System

The TTL-CT-SIR (Through-the-Lens Cross-Type Secondary Image Registration) phase detection system determines focus by driving the lens after completing a sophisticated process of signal detection and analysis. The basic optical system used for rangefinding samples 12 light beams passing through the shooting lens, arranged in six pairs (five vertical and one horizontal). The mid-air image formed at the primary image formation plane (focus plane) is reproduced on the Multi-BASIS (Base-Stored Image Sensor) via four pairs of secondary image formation lenses which are designed and manufactured with sub-micron precision. The vertical component of the central cross-

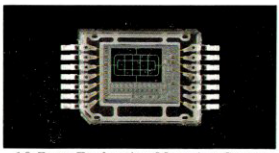


Five-Point AF Optical System

type sensor requires use of an EF lens with maximum aperture of f/2.8 or faster, while all other sensors are effective with EF lenses of f/5.6 maximum aperture or faster.



Multi-BASIS



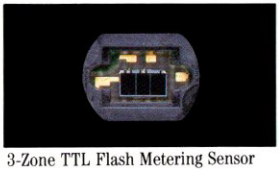
16-Zone Evaluative Metering Sensor

16-Zone Evaluative Metering

The EOS-1N employs Canon's most advanced light metering system, featuring a 16-zone silicon photocell (SPC) sensor. The main microprocessor uses complex algorithms to evaluate luminance in each of the 16 zones. Differences in brightness are compared, allowing the camera to recognize a wide range of lighting situations, including difficult ones such as backlighting. And because the EOS-1N features Canon's AIM system, the active focusing point is taken as the central zone, ensuring that the exposure is based on readings from the main subject. Subject size and surrounding conditions are factored in to make the final exposure decision. The metering system also detects variations in subject reflective luminance level. When the level is high, it compensates to obtain high-lighted depiction, and when low, it compensates to obtain shadow depiction.

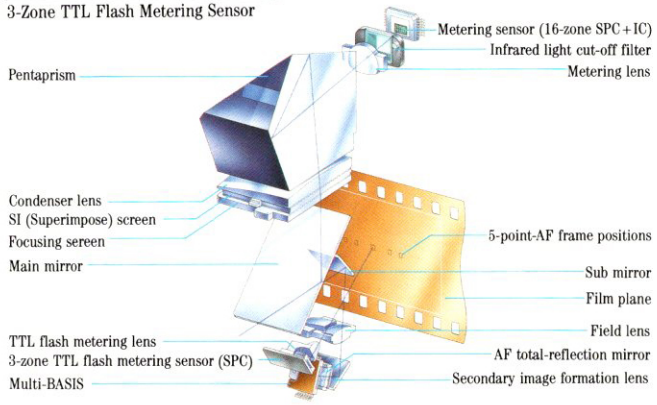
Ultra-quiet mechanism

We put a great deal of effort into rewind noise reduction when designing the EOS-1N, and the results are impressive. First, we used a smooth and quiet coreless motor. Second, we changed the motor's initial output gear from the pinion gear type used in the EOS-1 to a worm gear, for significantly less noise and smooth transmission of drive power. Third, we gave the entire rewind unit a floating support system first introduced in the EOS Elan, placing rubber bushings between the body and front plate at six locations. This isolates vibrations from the rewind unit, resulting in quieter operation. Finally, we added a Silent Rewind mode, which uses PWM (Pulse Width Modulation) control to reduce the speed of the rewinding motor for even quieter operation.



3-Zone TTL Flash Metering Sensor

Metering Optical System Configuration



Canon EF lenses and related technology make a lar to the EOS-1N system's awesome capabilities.

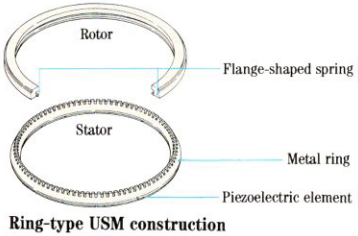
A great camera requires great lenses, and Canon's EF lens group fully complements the capabilities of the EOS-1N. Because lens selection is an important factor in taking great photographs, the EF lens group gives you a choice of 42 lenses covering focal lengths from ultra-wide-angle 14mm to super-super telephoto 1200mm. Supporting these lenses are a number of exclusive Canon technologies that ensure the highest levels of performance.

Large-diameter, fully electronic mount

The EOS-1N's fully electronic mount for EF lenses is designed to provide the data transmission speed and reliability that are essential for high-speed operation. Thanks to advanced microprocessors, not only does data transfer take place at high speed, but all relevant information is sent to the camera's microprocessor as soon as the lens is mounted, so you're ready to shoot immediately. An important Canon innovation is the use of electronic contacts rather than mechanical parts. In addition to reducing noise, this enables the placement of self-controlled autofocus and aperture drive mechanisms in the lenses.

Canon USM: the world's most advanced lens motor

Many of the EF lenses are powered by Canon's exclusive Ultrasonic Motors (USM), which contribute greatly to the EOS-1N's silent, super-fast autofocusing performance. Ultrasonic motors are characterized by high power output, high-speed rotation for fast autofocusing, quick and accurate stopping for exceptional precision in high-speed focus prediction sequences, and virtually noiseless operation.



Ring-type USM construction

Full-time manual focus

Most Ultrasonic EF lenses are also equipped with a full-time manual focusing function that allows instant override of the autofocus setting for superior operability. This is an excellent example of the EOS system's seamless integration of manual control with automatic operation to provide the photographer with ultimate control over the fundamental aspects of photographic expression.

ge contribution

with EF 100mm f/2.8 Macro·1/15·f/16·ISO 100

Other focusing options

L-series EF super-telephoto lenses offer even more exciting options: focusing speed control lets you adjust the sensitivity of manual focusing to half, normal, or double speed to suit the subject. Focus preset memorizes a distance setting so you can return to it in a fraction of a second — ideal for sports.

Accurate EMD control

All Canon EF lenses employ an Electro-Magnetic Diaphragm (EMD) that electronically controls the lens diaphragm by a stepping motor and is designed for use with the electronic mount. This device's extremely high control precision greatly contributes to consistent exposure accuracy with every EF lens. It also enables one-touch depth-of-field preview in all exposure modes.

Unsurpassed aspherical lens technology

Canon aspherical lens elements improve the optical performance of wide-angle and moderate length lenses by causing all incoming light to focus in the same plane, resulting in higher resolution and drastically reduced flare. Additional benefits include superior correction of distortion in wide-angle lenses as well as significant reductions in the size, weight and cost of variable aperture zoom lenses. The current EF lens lineup features more than a dozen aspherical lenses, including several representative examples from our renowned professional L-series.

Fluorite and UD glass

Canon's fluorite and UD glass lens elements (employed in several L-series EF super-telephoto lenses) feature extraordinary partial dispersion characteristics, enabling them to effectively reduce secondary spectrum to an extremely low level, realizing virtually ideal chromatic aberration compensation.

Uncorrected

Corrected with shift

TS-E lenses

"TS" stands for "tilt-shift," which describes how these lenses can be used: they allow you to literally tilt and shift the optical axis. Only Canon offers lenses that can do both. Tilting the lens adjusts the angle of the focal plane, allowing you to control overall image sharpness. Shifting the lens provides extended control over the reproduction of straight lines in the subject.

EF lenses: select the lens that's exactly right for ev

EF20-35mm
f/2.8L

EF20-35mm
f/3.5-4.5 **USM**

EF28-70mm
f/2.8L **USM**

EF28-80mm
f/3.5-5.6II **USM**

EF35-350mm
f/3.5-5.6L **USM**

EF70-210mm
f/3.5-4.5 **USM**

EF75-300mm
f/4-5.6 **USM**

EF100-300mm
f/5.6L

TS-E24mm
f/3.5L

TS-E45mm
f/2.8

TS-E90mm
f/2.8

EF35mm
f/2

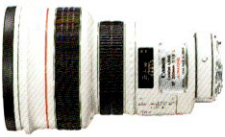
EF50mm
f/1.0L **USM**

EF50mm
f/1.4 **USM**

EF50mm
f/1.8II

EF50mm f/2.5
Compact-Macro

Life-Size
Converter EF



EF200mm f/1.8L **USM**

EF200mm f/2.8L **USM**

EF300mm f/2.8L **USM**

EF400mm f/5.6L **USM**

EF500mm f/4.5L **USM**

EF1200mm f/5.6L **USM**

EF Lens Accessories

Close-up Lenses

An economical, easy way to get closer to your subject. High performance, double-element achromatic formulas; two types available for 250mm and 500mm focal lengths. Multi-layer coating offers optimum color balance. Designed for 52mm, 58mm, 72mm and 77mm threads. (250mm type for ø72 and ø77 threads not available.)

Extension Tubes EF25 & EF12

Extend the close-focusing range of most EF lenses. Primarily for macro, but also helpful with telephoto lenses. Manual focusing is recommended and spot metering should not be used.

PL-C Filters

Polarizing filters reduce reflections in substances like glass or water and help to bring out a blue sky. Available in 52mm, 58mm, 72mm and 77mm sizes for most EF lenses. Canon also offers an exclusive 48mm drop-in type adjustable PL-C filter for use with all EF super telephoto lenses.

ery situation.

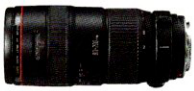
EF28-105mm
f/3.5-4.5 **USM**

EF35-80mm
f/4-5.6 **USM**

EF35-80mm
f/4-5.6II

EF35-105mm
f/4.5-5.6 **USM**

EF35-135mm
f/4-5.6 **USM**



EF80-200mm f/2.8 L

EF80-200mm
f/4.5-5.6

EF100-300mm
f/4.5-5.6 **USM**

EF15mm
f/2.8 Fish-eye

EF14mm
f/2.8L **USM**

EF20mm
f/2.8 **USM**

EF24mm
f/2.8

EF28mm
f/2.8

EF85mm
f/1.2L **USM**

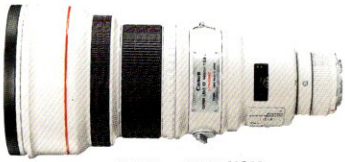
EF85mm
f/1.8 **USM**

EF100mm
f/2 **USM**

EF100mm
f/2.8 Macro

EF135mm f/2.8
with Softfocus

EF300mm f/4L **USM**



EF400mm f/2.8L **USM**

EF600mm f/4L **USM**

Extender
EF2×

Extender
EF1.4×

Softmat Filters

Available in two strengths, Softmat filters mildly soften the focus for flattering portraits and dreamy landscapes.

Gelatin Filter Holders

Often used by professional photographers to compensate for variations in lighting quality and film emulsion numbers. Available in 52mm, 58mm, 72mm and 77mm sizes for most EF lenses. Supplied in 48mm drop-in size with EF super telephoto lenses.

EF Lens Specifications

Lens	Angle of View (Horizontal • Vertical • Diagonal)	Construction (groups-elements)	No. of Diaphragm Blades
EF 14mm f/2.8L USM	104° • 81° • 114°	10-14	5
Fish-eye EF 15mm f/2.8	141°54′ • 91°73′ • 180°	7-8	5
EF 20mm f/2.8 USM	84° • 62° • 94°	9-11	5
EF 24mm f/2.8	74° • 53° • 84°	10-10	6
EF 28mm f/2.8	65° • 46° • 75°	5-5	5
EF 35mm f/2.0	54° • 38° • 63°	5-7	5
EF 50mm f/1.0L USM	40° • 27° • 46°	9-11	8
EF 50mm f/1.4 USM	40° • 27° • 46°	6-7	8
EF 50mm f/1.8II	40° • 27° • 46°	5-6	5
EF 50mm f/2.5 Compact-macro	40° • 27° • 46°	8-9	6
Life-size Converter EF (exclusive for EF 50mm f/2.5 Compact-macro)	—	3-4	—
EF 85mm f/1.2L USM	24° • 16° • 28°30′	7-8	8
EF 85mm f/1.8 USM	24° • 16° • 28°30′	7-9	8
EF 100mm f/2 USM	20° • 14° • 24°	6-8	8
EF 100mm f/2.8 Macro	20° • 14° • 24°	9-10	8
EF 135mm f/2.8 (with softfocus)	15° • 10° • 18°	6-7	6
EF 200mm f/1.8L USM	10° • 7° • 12°	10-12	8
EF 200mm f/2.8L USM	10° • 7° • 12°	7-9	8
EF 300mm f/2.8L USM	6°50′ • 4°35′ • 8°15′	8-10	8
EF 300mm f/4L USM	6°50′ • 4°35′ • 8°15′	7-8	8
EF 400mm f/2.8L USM	5°10′ • 3°30′ • 6°10′	9-11	8
EF 400mm f/5.6L USM	5°10′ • 3°30′ • 6°10′	6-7	8
EF 500mm f/4.5L USM	4° • 2°45′ • 5°	6-7	9
EF 600mm f/4.0L USM	3°30′ • 2°20′ • 4°10′	8-9	8
EF 1200mm f/5.6L USM	1°45′ • 1°10′ • 2°05′	10-13	8
EF 20-35mm f/2.8L	84°~54° • 62°~38° • 94°~63°	12-15	6
EF 20-35mm f/3.5-4.5 USM	84°~54° • 62°~38° • 94°~63°	11-12	5
EF 28-70mm f/2.8L USM	65°~29° • 46°~19°30′ • 75°~34°	11-16	8
EF 28-80mm f/3.5-5.6II USM	65°~25° • 46°~17° • 75°~30°	9-9	5
EF 28-105mm f/3.5-4.5 USM	65°~19°20′ • 46°~13° • 75°~23°20′	12-15	5
EF 35-80mm f/4-5.6 USM	54°~25° • 38°~17° • 63°~30°	8-8	5
EF 35-80mm f/4-5.6II	54°~25° • 38°~17° • 63°~30°	8-8	5
EF 35-105mm f/4.5-5.6 USM	54°~19°20′ • 38°~13° • 63°~23°30′	12-13	5
EF 35-135mm f/4-5.6 USM	54°~15° • 38°~10° • 63°~18°	12-14	5
EF 35-350mm f/3.5-5.6L USM	54°~6° • 38°~4° • 63°~7°	15-21	8
EF 70-210mm f/3.5-4.5 USM	29°~9°20′ • 19°30′~6°20′ • 34°~11°20′	10-14	8
EF 75-300mm f/4-5.6 USM	27°~6°50′ • 18°11′~4°35′ • 32°11′~8°15′	9-13	7
EF 80-200mm f/2.8L	25°~10° • 17°~7° • 30°~12°	13-16	8
EF 80-200mm f/4.5-5.6 USM	25°~10° • 17°~7° • 30°~12°	7-10	5
EF 100-300mm f/5.6L	20°~6°50′ • 14°~4°35′ • 24°~8°15′	10-15	8
EF 100-300mm f/4.5-5.6 USM	20°~6°50′ • 14°~4°35′ • 24°~8°15′	10-13	8
TS-E 24mm f/3.5L	74° • 53° • 84° (without tilt or shift)*2	9-11	8
TS-E 45mm f/2.8	44° • 33° • 51° (without tilt or shift)*2	9-10	8
TS-E 90mm f/2.8	22°37′ • 15°11′ • 27° (without tilt or shift)*2	5-6	8
Extender EF 1.4×	—	4-5	—
Extender EF 2×	—	5-7	—
Extension Tube EF 25	—	—	—
Extension Tube EF 12	—	—	—

- Extension Tube EF 25 is compatible with most EF lenses except: EF 14mm f/2.8L USM, Fish-eye EF 15mm
  50mm f/1.0L USM and the wide end of EF 20-35mm f/2.8L, EF 28-70mm f/3.5-4.5II, EF 28-80mm f/2.8-4L
- Extension Tube EF 12 is not compatible with the EF 14mm f/2.8L USM and the Fish-eye EF 15mm f/2.8

*1 Data based on EOS models with exposure display in 1/2-stop increments. It varies slightly with the EOS-1,

Extender EF 1.4×			
When used with EF Lens	200mm f/1.8L USM	200mm f/2.8L USM	300mm f/2.8L USM
Focal Length, Max. Aperture	280mm f/2.5	280mm f/4	420mm f/4
Focusing	Autofocus	Autofocus	Autofocus
Max. Magnification	0.12×	0.22×	0.15×

Extender EF 2×			
When used with EF Lens	200mm f/1.8L USM	200mm f/2.8L USM	300mm f/2.8L USM
Focal Length, Max. Aperture	400mm f/3.5	400mm f/5.6	600mm f/5.6
Focusing	Autofocus	Autofocus	Autofocus
Max. Magnification	0.18×	0.32×	0.22×

- Use of the Extenders EF 1.4× and EF 2× decreases the effective aperture of the prime lens by one f/stop
- The EOS Camera viewfinder data and LCD panel display the effective aperture. There is no change necessa

*1 Data based on EOS-1, EOS-1N and EOS-1N RS. Exposure display varies slightly with other models.

Minimum Aperture	Closest Focusing Distance	Maximum Magnification (×)	Filter Size (mm)	Length × Max. Diameter (mm/in)	Weight (g/oz)
22	0.25m/0.8ft	0.1	Gelatin	89 × 77/3-1/2″ × 3-5/16″	560/19.6
22	0.2m/0.7ft	0.14	Gelatin	62.2 × 73/2-7/16″ × 2-7/8″	330/11.6
22	0.25m/0.8ft	0.14	72	70.6 × 77.5/2-3/4″ × 3-1/16″	405/14.2
22	0.25m/0.8ft	0.16	58	48.5 × 67.5/1-15/16″ × 2-5/8″	270/9.5
22	0.3m/1ft	0.13	52	42.5 × 67.4/1-11/16″ × 2-5/8″	185/6.5
22	0.25m/0.8ft	0.23	52	42.5 × 67.4/1-11/16″ × 2-5/8″	210/7.4
16	0.6m/2ft	0.11	72	81.5 × 91.5/3-3/16″ × 3-5/8″	985/2.2 lbs.
22	0.45m/1.5ft	0.147	58	50.5 × 73.8/2″ × 2-15/16″	290/10.2
22	0.45m/1.5ft	0.15	52	41 × 68.2/1-5/8″ × 2-11/16″	130/4.6
32	0.23m/0.8ft	0.5	52	63 × 67.6/2-1/2″ × 2-11/16″	280/9.8
—	0.24 ~ 0.42m/ 0.8 ~ 1.4ft	1	—	34.9 × 67.6/1-3/8″ × 2-11/16″	160/5.6
16	0.95m/3.1ft	0.11	72	84 × 91.5/3-5/16″ × 3-5/8″	1,025/2.3 lbs.
22	0.85m/2.8ft	0.13	58	71.5 × 75/2-13/16″ × 2-15/16″	425/14.9
22	0.9m/3ft	0.137	58	73.5 × 75/2-7/8″ × 2-15/16″	460/16.1
32	0.31m/1ft	1	52	105.3 × 75/4-1/8″ × 2-15/16″	650/22.8
32	1.3m/4.3ft	0.124	52	98.4 × 69.2/3-7/8″ × 2-3/4″	390/13.7
22	2.5m/8.2ft	0.09	48 DI	208 × 130/8-3/16″ × 5-1/8″	3,000/6.6 lbs.
32	1.5m/4.9ft	0.16	72	136.2 × 83/5-3/8″ × 3-1/4″	790/27.7
32	3m/9.8ft	0.11	48 DI	253 × 125/9-15/16″ × 4-15/16″	2,855/6.3 lbs.
32	2.5m/8.2ft	0.13	77	213.5 × 90/8-3/8″ × 3-9/16″	1,300/2.9 lbs.
32	4m/13.1ft	0.11	48 DI	348 × 167/13-11/16″ × 6-9/16″	6,100/13.4 lbs.
32	3.5m/11.5ft	0.12	77	256.5 × 90/10-1/8″ × 3-1/2″	1,250/2.8 lbs.
32	5m/16.4ft	0.11	48 DI	390 × 130/15-3/8″ × 5-1/8″	3,000/6.6 lbs.
32	6m/19.7ft	0.11	48 DI	456 × 167/17-15/16″ × 6-9/16″	6,000/13.2 lbs.
32	14m/45.9ft	0.09	48 DI	835.3 × 228/32-7/8″ × 8-15/16″	16,500/36.3 lbs.
22	0.5m/1.6ft	0.09 (at 35mm)	72	89 × 79.2/3-1/2″ × 3-1/8″	570/20
27*-1	0.34m/1.1ft	0.13 (at 35mm)	77	68.9 × 83.5/2-11/16″ × 3-1/4″	340/11.9
22	0.5m/1.6ft	0.18 (at 70mm)	77	117.6 × 83.2/4-5/8″ × 3-1/4″	880/30.8
22 ~ 38*-1	0.38m/1.3ft	0.25 (at 80mm)	58	68.5 × 65.6/2-11/16″ × 2-5/8″	210/7.4
22 ~ 29	0.5m/1.6ft	0.19 (at 105mm)	58	75 × 72/2-15/16″ × 2-13/16″	365/12.8
22 ~ 32	0.38m/1.3ft	0.25 (at 80mm)	52	61 × 65/2-3/8″ × 2-9/16″	170/6
22 ~ 32	0.38m/1.3ft	0.25 (at 80mm)	52	61 × 65/2-3/8″ × 2-9/16″	170/6
22 ~ 27*-1	0.85m/2.8ft	0.16 (at 105mm)	58	63 × 68/2-1/2″ × 2-11/16″	280/9.8
22 ~ 32	0.75m/2.5ft	0.15 (at 135mm)	58	86.4 × 72/3-3/8″ × 2-3/4″	425/14.9
22 ~ 32*-1	0.6m/2ft	0.25 (at 135mm)	72	167.4 × 85/6-9/16″ × 3-5/16″	1,385/3.05 lbs.
22 ~ 27*-1	1.2m/3.9ft	0.17 (at 210mm)	58	121.5 × 73/4-3/4″ × 2-7/8″	550/19.3
32 ~ 45	1.5m/4.9ft	0.25 (at 300mm)	58	122.1 × 71/4-13/16″ × 2-13/16″	495/17.3
32	1.8m/5.9ft	0.13 (at 200mm)	72	185.7 × 84/7-5/16″ × 3-5/16″	1,330/2.9 lbs.
22 ~ 27*-1	1.5m/4.9ft	0.16 (at 200mm)	52	78.5 × 69/3-1/8″ × 2-11/16″	260/9.1
32	1.4m/4.6ft	0.26 (at 300mm)	58	166.6 × 75/6-9/16″ × 2-15/16″	695/24.3
32 ~ 38*-1	1.5m/4.9ft	0.2 (at 300mm)	58	121.5 × 73/4-3/4″ × 2-7/8″	540/18.9
22	0.3m/1ft	0.14	72	86.7 × 78/3-7/16″ × 3-1/16″	570/20
22	0.4m/1.3ft	0.158	72	90.1 × 81/3-9/16″ × 3-3/16″	645/22.6
32	0.5m/1.6ft	0.293	58	88 × 73.6/3-7/16″ × 2-7/8″	565/19.9
—	—	—	—	27.3 × 67.6/1-1/16″ × 2-11/16″	200/7
—	—	—	—	50.5 × 67.6/1-15/16″ × 2-11/16″	240/8.4
—	—	—	—	27.3 × 67.6/1-1/16″ × 2-11/16″	125/4.4
—	—	—	—	12.3 × 66.5/1/2″ × 2-5/8″	66/2.3

f/2.8, EF 20mm f/2.8 USM, EF 24mm f/2.8, TS-E 24mm f/3.5L, EF 28mm f/2.8, TS-E 45mm f/2.8, EF USM and EF 28-80mm f/3.5-5.6 USM

EOS-1N and EOS-1N RS. *2 Image circle = φ58.6mm/φ2-5/16″ DI: Drop-in filter

300mm f/4L USM	400mm f/2.8L USM	400mm f/5.6L USM	500mm f/4.5L USM	600mm f/4L USM
420mm f/5.6	560mm f/4	560mm f/8	700mm f/6.3*1	840mm f/5.6
Autofocus	Autofocus	Manual Focus	Manual Focus	Autofocus
0.18×	0.16×	0.12×	0.15×	0.15×

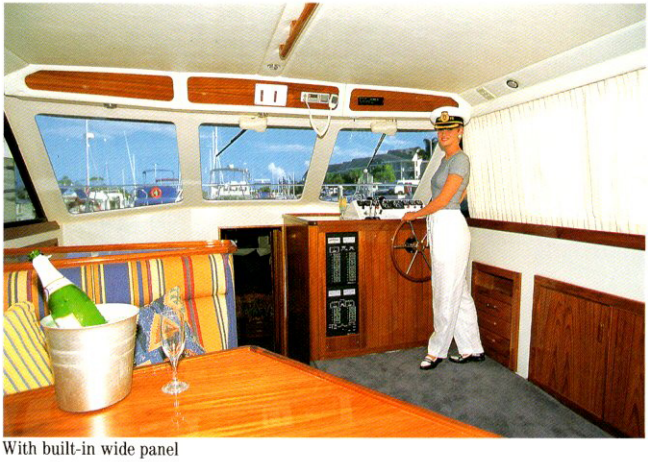
300mm f/4L USM	400mm f/2.8L USM	400mm f/5.6L USM	500mm f/4.5L USM	600mm f/4L USM
600mm f/8	800mm f/5.6	800mm f/11	1000mm f/9*1	1200mm f/8
Manual Focus	Autofocus	Manual Focus	Manual Focus	Manual Focus
0.26×	0.23×	0.175×	0.22×	0.21×

or 2 f/stops respectively.
y in normal metering procedures with EOS cameras or external exposure meters.

Canon Speedlites: Making light work for you, not against you.

Speedlite 540EZ

This powerful, high-output auto-zoom flash (maximum GN 54/177, ISO 100 — m/ft.) is compatible with focal lengths ranging from 24mm wide angle to 105mm medium telephoto. With its built-in wide panel, it is capable of covering the angle of an ultra-wide 18mm lens. The 540EZ has an extremely broad range of features — a partial list includes A-TTL and TTL auto flash control (exposure can be confirmed after the shot), AF auxiliary light compatible with 5-point focusing, stroboscopic flash with up to 100 consecutive bursts at 100Hz. Flash-fill ratio compensation over ±3 stops in 1/3-stop increments, first/second curtain sync, and enhanced tilting capability from −7° for close-ups to +90° for bounce flash. A large LCD panel provides a wide range of status information, including a coupling range indicator.



With built-in wide panel

Speedlite 480EG

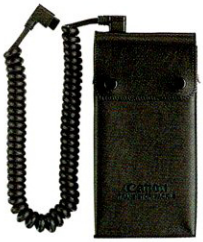
A high-output grip-type flash with twin xenon tubes for extremely flat, uniform light distribution. Wide and tele panels provide coverage angles for 20mm and 135mm focal lengths. Other features are: TTL auto flash, external sensor auto flash control with four auto flash control apertures, variable power manual flash control, bounce flash capability and quick charge function with the optional Transistor Pack E.

Speedlite 300EZ

Easy to use in any situation, the 300EZ provides fully automatic exposure control. Features include A-TTL and TTL flash exposure modes, internal automatic zoom from 28mm to 70mm, rapid-fire flash and second curtain sync.

Macro Ring Lite ML-3

This is a close-up flash for use with Macro lenses. The flash ring contains two flash tubes, each of which can be switched on or off for creative shadow control. Two small lamps are built in as a focusing aid, and TTL automatic flash exposure control with exposure confirmation signal is provided.



Transistor Pack E

Compatible with the Speedlites 540EZ and 480EG. Can be used with the Battery Magazine TP which holds 6 C-size batteries or the NiCd Pack TP.

Compact Battery Pack E

For exclusive use with the Speedlite 540EZ. Powered by 6 AA Batteries.

Off-Camera Shoe Cord 2

Maintains all on-camera flash functions for one Canon Speedlite used off-camera, at distances up to 60 cm/2 ft.

Off-Camera Shoe Adapter

Off-camera Speedlites are placed in this accessory, which accepts one connecting cord.

TTL Hot Shoe Adapter 3

Placed in the EOS camera's accessory shoe, this device controls up to 4 off-camera Speedlites.

TTL Distributor

System connector, accepts up to 4 connecting cords.

Connecting Cord 60

60 cm/2 ft. coiled cord, with connections on both ends.

Connecting Cord 300

3 m/9.8 ft. straight cord, with connections on both ends.

EOS-1N Main Accessories

Power Drive Booster E1
This attachment raises film advance speed to 6 frames per second, for rapid-fire continuous shooting. What's more, when shooting with Focus Prediction Control, lens drive continues until the exposure is made. This increases the normal AI Servo AF continuous shooting speed from 2 frames/sec. to 5 frames/sec., while maintaining sharp focus of moving subjects. The Power Drive Booster E1 has its own shutter release and AE lock button positioned on the base, so you can easily operate the camera in the vertical position, a capability professional photographers have told us they really appreciate. You have a choice of power supplies for the Power Drive Booster E1: The supplied Battery Magazine E1, which holds 8 AA-size batteries, or the optional NiCd Pack E1, a sealed rechargeable battery pack that can be recharged in one hour.

NiCd Pack E1
A sealed battery pack containing 8 AA-size high-capacity NiCd batteries. The pack can be inserted directly into the Power Drive Booster E1 and incorporates an integrated release latch. It provides a shooting capacity of approx. 65 rolls of 24-exp. film at normal temperature and approx. 45 rolls at low temperature of −4°F/−20°C.

NiCd Charger E1
A dedicated rapid charger capable of charging two NiCd Pack E1s. By connecting its A and B terminals to two NiCd Pack E1s, the charger automatically charges both packs in succession, switching from A to B when pack A is fully charged. The charger can charge one battery pack in approx. 90 minutes.

Battery Pack BP-E1
Compact, convenient power source holding 4 AA-size batteries (alkaline-manganese LR6 or NiCd KR15/51) in the supplied Battery Magazine BM-1 and one 2CR5 battery in the grip, providing a choice of either type at the flick of a switch. For lighter weight, either type may be used without inserting the other.

Command Back E1

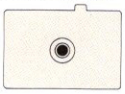
The Command Back E1 provides a variety of timer control operations and data imprinting. There are three timer functions: the self-timer releases the shutter after a preset period of time, the interval timer releases the shutter at fixed intervals from 1 second to 23 hours 59 minutes, and the long release timer holds the shutter open for a preset period of time during bulb operation. A frame counter setting stops the camera after a set number of exposures have been made. The data imprint functions are: date, time, auto-increasing 4-digit frame counter, and a 6-digit personal code including the letters A through F.

Wireless Controller LC-3

An infrared strobe-type wireless control system with remote release capability. The LC-3 has a maximum range of 100m and its release function is equipped with a 2-stage switch. It provides three transmitter channels and can also be set to ALL to allow a single controller to operate any number of cameras equipped with receivers within a given area. Both transmitter and receiver operate on 4 AA-size batteries.

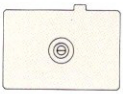
Exclusive Ec-series Focusing Screens

Ec-A: Microprism



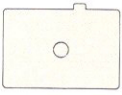
Matte field with microprism focusing spot in the center. Used for general photography with all lenses, best results obtained when using an aperture of f/5.6 or faster.

Ec-B: New Split



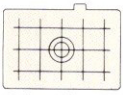
Matte field with split-image focusing spot in the center. Used for general photography with all lenses.

Ec-CII: Laser-matte



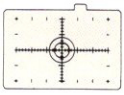
Matte field with spot metering mark in center. Standard screen for EOS-1N body.

Ec-D: Laser-matte with Sections



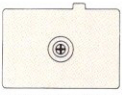
Matte field with sections. Grid lines assist in determining picture composition accurately. Especially well-suited for close-up photography or for copy work using EF macro lenses. Can also be used for general photography with all lenses.

Ec-H: Laser-matte with Scale



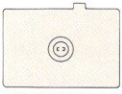
Matte field with vertical and horizontal scales in millimeters. Effective for close-up photography and photomicrography. Useful in determining magnification ratios and composition. Can be used with all lenses.

Ec-I: Laser-matte with Double Cross-Hair Reticle



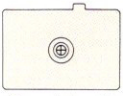
Matte field with clear center spot containing double cross-hair reticle. Focusing is possible using the floating image of the central cross-hair. Particularly useful for photomicrography and astrophotography. Surrounding matte field can be used with all lenses.

Ec-K: New Bright laser-matte



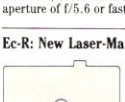
Produces a viewfinder image that is approx. 1 f/stop brighter compared to Ec-CII. Intended for use with lenses of 85mm or longer focal length. Use of fine (2.3%) spot metering or external meter is necessary when using lenses shorter than 85mm or zoom lenses. Can be installed by user, but must be removed at an Authorized Canon Service Facility.

Ec-L: Cross-Split Image



Matte field with cross-split image in the center, which divides the subject in half both vertically and horizontally for accurate manual focusing. Used for general photography with all lenses, best results obtained when using an aperture of f/5.6 or faster.

Ec-R: New Laser-Matte

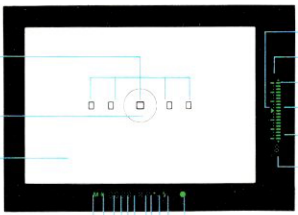


Standard screen provided with the EOS-1N RS. Compensates for the decreased viewfinder brightness due to the low reflection factor of the pellicle mirror. Other characteristics similar to Ec-CII. When used with the EOS-1N, viewfinder image is approx. 1 f/stop brighter compared to Ec-CII.

Exposure compensation is required when using Ec-K in evaluative, partial or center-weighted average metering mode, when combining the focusing screen Ec-R with the EOS-1N, and when combining the focusing screens Ec-A, B, CII, D, H, I and L with the EOS-1N RS. Refer to each focusing screen's instructions for detailed information.

Nomenclature

Viewfinder Information Display



Focusing Points/Spot Metering Position Indicators

Fine Spot Metering Area

Laser-matte Screen Ec-CII

Manual Exposure Indicator
AE Lock/AEB Indicator
Shutter Speed Depth-of-Field AE Indicator
Aperture Value

❶ LCD Panel Illumination Button (☼)
❷ Exposure Compensation Button (⁒)
❸ Main Dial
❹ Shutter Button
❺ Self-Timer Indicator
❻ Grip/Battery Chamber
❼ Strap Fixture
❽ Back Cover Lock Release Button
❾ Back Cover Latch
❿ Lens Release Button
⓫ PC Terminal
⓬ Depth-of-Field Preview Button
⓭ Grip Screw
⓮ Lens Mount
⓯ Mirror
⓰ Tripod Socket
⓱ Booster Coupler Cover
⓲ Booster Coupling Pin
⓳ Booster/Battery Pack Attachment Hole
⓴ X contacts/Accessory Shoe
㉑ Dioptric Adjustment Dial
㉒ Shooting Mode Selector
㉓ AF Mode Selector
㉔ Metering Mode Selector/Flash Exposure Compensation Button
㉕ Viewfinder Eyepiece
㉖ Quick Control Dial Switch
㉗ Film Window
㉘ Main Switch (L, A, •))
㉙ Eyepiece Shutter Lever
㉚ LCD Panel
㉛ Focusing Point Selector (▭)
㉜ AE Lock Button (✱)
㉝ Palm Door
㉞ Quick Control Dial
㉟ Remote Control Socket (cover)
㊱ Film Rewind Button (⊙⁺⁻)

EOS-1N RS

Vertical
Shutter Button

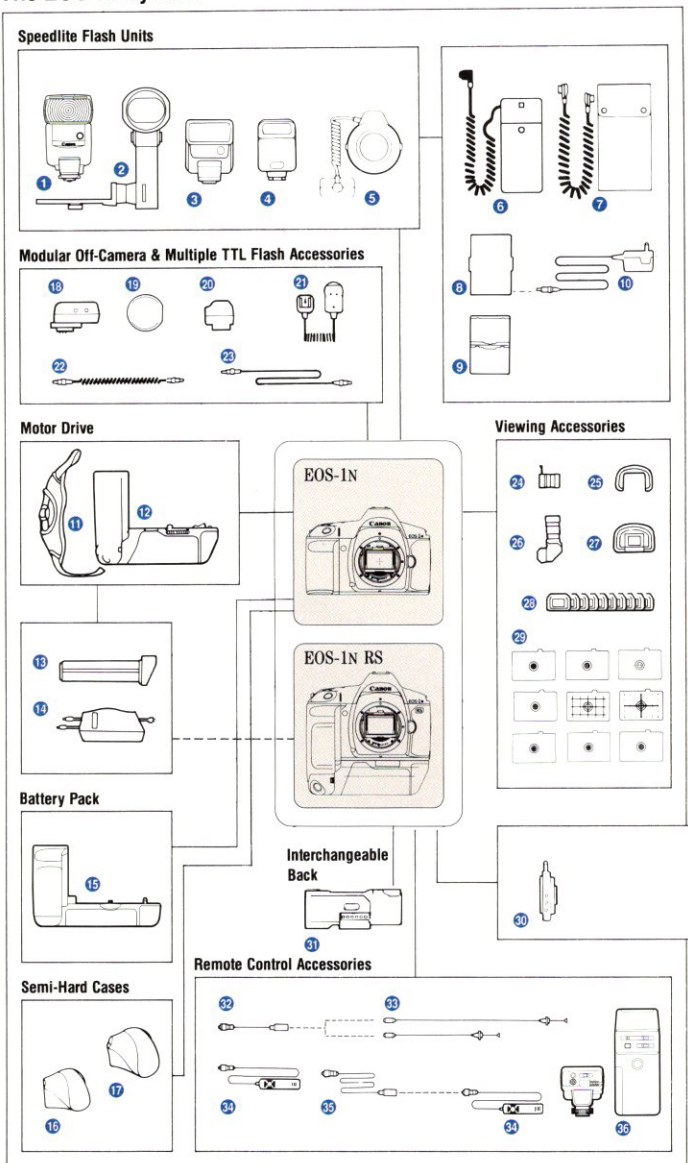
Main Switch (L, A, RS)

Vertical
AE Lock Button

Exposure Step Indicator (▭ : 1-step, □: 1/3-step)
Correct Exposure Indicator
Overexposure Indicator (+3 stops or more)
Exposure Level Indicator
Underexposure Indicator (−3 stops or more)
Remaining Frame Counter (F: more than 9, 9—0)

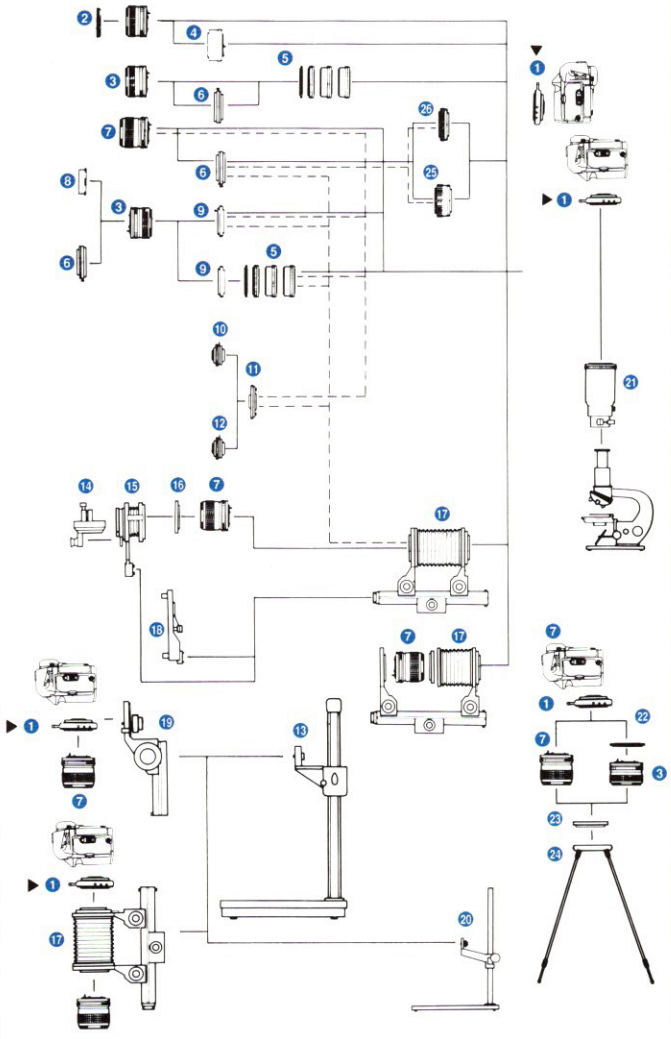
In-focus Indicator
Flash Charge Completion Indicator
Exposure Compensation Indicator Flash Exposure Compensation Indicator

The EOS-1N System



1. 540EZ
2. 480EG
3. 300EZ
4. 200E
5. Macro Ring Lite ML-3
6. Compact Battery Pack E
7. Transistor Pack E
8. NiCd Pack TP
9. Battery Magazine (C-size)
10. NiCd Charger TP
11. Hand Strap E1
12. Power Drive Booster E1
13. NiCd Pack E1
14. NiCd Charger E1
15. Battery Pack BP-E1
16. EH2N-L
17. EH2NLL
18. TTL Hot Shoe Adapter 3
19. TTL Distributor
20. Off-Camera Shoe Adapter
21. Off-Camera Shoe Cord 2
22. Connecting Cord 60
23. Connecting Cord 300
24. Magnifier S
25. Rubber Frame
26. Angle Finder B
27. Standard Eyecup Ec-CII
28. Dioptric Adjustment Lens E
29. Ec Series Focusing Screens
30. Macro Lens Mount Converter FD-EOS
31. Command Back E1
32. Cable Release Adapter T3
33. Release 50
    Release 30
34. Remote Switch 60 T3
35. Extension Cord 1000 T3
36. Wireless Controller LC-3

Close-up accessories that can be combined with the macro-lens mount converter FD-EOS

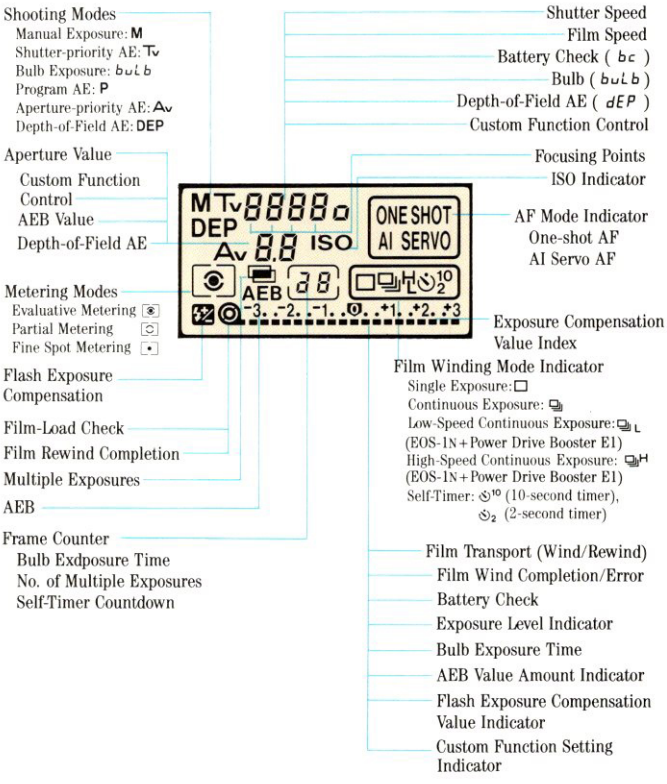


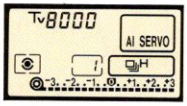
❶	Macro Lens Mount Converter FD-EOS	⓯	Duplicator 35-52R
❷	Close up 450/240	☆⓰	Slide Duplicator Attachment Ring for 48, 52, 55, 58
❸	FD 50mm f/1.4	⓱	Auto Bellows
❹	Extension Tube FD 25U·50U	☆⓲	Macro Stage
❺	Extension Tube M Set	⓳	Focusing Rail
❻	Macro Auto Ring	☆⓴	Copy Stand 4
❼	FD 50mm f/3.5 MACRO	㉑	Photomicro Unit F
☆❽	Macro Hood 2	㉒	Extension Tube M5
☆❾	Macrophoto Adapter MA-52·55·58	☆㉓	Attachment Ring for Handy Stand F 48·52·55·58
❿	Macrophoto Lens 35mm f/2.8	☆㉔	Handy Stand F
⓫	Macrophoto Lens Adapter	㉕	Vari-Extension Tube M30-55
⓬	Macrophoto Lens 20mm f/3.5	㉖	Vari-Extension Tube M15-25
⓭	Copy Stand 5		
☆⓮	Roll Film Stage		

☆ Indicates discontinued products. Availability varies from area to area.

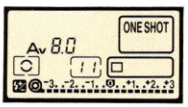
LCD Panel

This diagram shows all the information displayed for explanation only.
The LCD panel never actually appears like this.

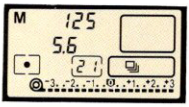




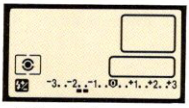
Shooting mode: Shutter-priority AE
AF mode: AI Servo
Metering mode: Evaluative
Film winding mode: High-speed continuous exposure (with Power Drive Booster E1)



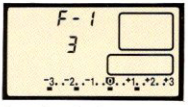
Shooting mode: Aperture-priority AE
AF mode: One-shot
Metering mode: Partial
Film winding mode: Single exposure



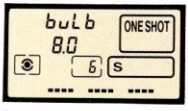
Shooting mode: Manual exposure
AF mode: Manual focus
Metering mode: Spot
Film winding mode: Continuous exposure



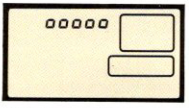
– 1-1/2 stop flash exposure compensation



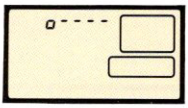
Custom functions in use
Nos.: 1, 5, 10 & 14



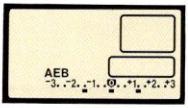
Operation time in bulb mode: 96 sec.



Automatic focusing point selection



Manual focusing point selection: far-left point selected



AEB (Auto Exposure Bracketing) amount: 1-1/3 stop

Specifications

Type and Major Components

•Type: 35mm focal plane shutter SLR (Single-Lens Reflex) camera with multi-point autofocus, auto exposure and built-in motor drive.
•Lens Mount: Canon EF Mount (fully electronic signal-transfer system).
•Usable Lenses: Canon EF lenses.
•Viewfinder: Fixed eye-level pentaprism. Gives approx. 100% vertical and horizontal coverage of actual picture area and 0.72x magnification with 50mm lens at infinity at standard diopter (− 1).
•Focusing Screen (standard): Laser-matte screen with fine spot metering area mark. (Seven optional interchangeable screens are available.)
•Dioptric Adjustment: − 3 to + 1 dpt
•Eyepoint: 20mm
•Shutter: Vertical-travel focal plane shutter; all speeds electronically controlled. Release time lag (excluding AF operation): 64ms (time required to start exposure by pressing the shutter button completely after sub-mirror operation by pressing the shutter button halfway. 200 ms in case that the shutter button is pressed completely at once.)
•Shutter Speed: 1/8000 ~ 30 sec. and bulb. X-sync is 1/250 sec. Can be set in 1/3-stop increments.
•Mirror: Quick return half-mirror. (reflection: transmission=63:37)

Autofocus

•AF Control System: TTL-CT-SIR (Cross Type-Secondary Image Registration) phase-detection type using multi-BASIS (Base-Stored Image Sensor).
•Two AF modes: One-shot and AI Servo with Focus Prediction. Manual focusing possible.
•Focusing points: Five points provided.
•Focusing point selection: Selected automatically by camera or manually by user.
•AF Working Range: EV 0 ~ 18 at ISO 100.
•AF Auxiliary Light: Specified Canon Speedlites automatically project light through an ultra-bright LED (peak sensitivity: 700nm) when required.

Exposure Control

•Light metering: TTL full aperture metering using a 16-zone SPC (Silicon Photo-Cell). Five metering patterns available: 1. 16-zone evaluative metering 2. Center-weighted average metering 3. Partial metering (meters approx. 9% of image area) 4. Spot metering (meters approx. 3.5% of image area) 5. Fine spot metering (meters approx. 2.3% of image area)
•Metering Range: Evaluative and partial metering: EV 0 ~ 20 (normal temp., EF 50mm f/1.4 USM, ISO 100)
Fine spot metering: EV 3 ~ 20 (same conditions as the above)
Usable film speeds: ISO 6-6400 (ISO 25-5000 when automatically set by DX code)
•Exposure Modes: 1. Shutter-Priority AE (1/3, 1/2 or 1-stop increments) 2. Aperture-Priority AE (1/3, 1/2 or 1-stop increments) 3. Depth-of-Field AE 4. Intelligent Program AE 5. A-TTL and TTL Program Flash AE 6. Manual 7. Bulb
•Exposure Compensation: ±3 stops in 1/3-stop or 1/2-stop increments
•Auto Exposure Bracketing: ±3 stops in 1/3-stop or 1/2-stop increments
•Depth-of-Field Preview: With depth-of-field preview button

Film Transport

•Film Loading: Automatic
•Film Wind: Automatic. Two modes available: □ (single exposure) and □ (continuous exposure).
•Maximum Film Winding Speed (shutter speed: 1/250 sec.)

	One-shot AF/ Manual	AI servo AF
□ (continuous exposure)	approx. 3 fps	approx. 2 fps

•Film Rewind: Automatic (approx.5 sec. with 24-exp. film). Mid-roll rewind possible. Rewind noise: 59 dB in normal mode, 48 dB in Silent mode.

Power Source

•Battery: One lithium battery pack (2CR5-6V), housed inside grip. (one 2CR5-6V lithium battery or four AA-size alkaline manganese or Ni-Cd batteries selectable when combining the optional battery pack BP-E1)

•Battery Check: By pressing battery check button. Four energy levels shown in LCD panel.

•Shooting Capacity: (with 24-exp. film)

Power source / Temperature	Battery type		
	EOS-1N alone or with BP-E1	With BP-E1	
	2CR5 lithium	AA-size alkaline	AA-size Ni-Cd
Normal (20°C/68°F)	75 (50) rolls	45 (30) rolls	18 (12) rolls
Low (−20°C/−4°F)	12 (8) rolls	0 (0) rolls	12 (8) rolls

Values in parentheses are for 36-exp. films.

Others

•Custom Functions: 14 custom functions available.

•Flash Contacts: Direct contact at accessory shoe and PC socket (JIS-B type). Simultaneous use is possible.

•Remote Control: 3-pin remote control socket provided.

•Data Display: In viewfinder and LCD panel.

•Multiple Exposures: Up to 9 exposures can be preset.

•Self-Timer: Electronically controlled with 2- or 10-sec. delay selectable.

Size

•Dimensions: 161 × 112.1 × 71.8 mm (W × H × D) [6-5/16″ × 4-7/16″ × 2-13/16″]

•Weight: 855 g/30 oz. without battery
895 g/31.3 oz. with battery

With the Power Drive Booster E1

•Film Wind: Three modes available: □ (single frame), 圖L (low-speed continuous exposure) and 圖H (high-speed continuous exposure).

•Maximum Film Winding Speed
(shutter speed: 1/250 sec.)

	One-shot AF/ Manual	AI Servo AF
圖H (High-speed continuous)	approx. 6 fps	approx. 5 fps
圖L (Low-speed continuous)	approx. 3 fps	approx. 2.5 fps

•Shooting Capacity: (with 24-exp. film)

Power source / Temperature	Battery type	
	AA-size alkaline	Ni-Cd Pack E1
Normal (20°C/68°F)	100 (65) rolls	65 (45) rolls
Low (−20°C/−4°F)	6 (4) rolls	45 (30) rolls

Values in parentheses are for 36-exp. films.

•Power Source: Eight AA-size alkaline batteries, AA-size lithium batteries*, AA-size NiCd batteries, or NiCd Pack E1.

*AA-size lithium batteries can be used with Power Drive Booster E1 models that are marked with the AE lock button indication "✱".

•Dimensions: 157 × 116.4 × 78 mm (W × H × D)
[6-3/16″ × 4-9/16″ × 3-1/16″]

•Weight: 510 g/17.8 oz. without batteries, 710 g/24.8 oz. with 8 alkaline batteries.

EOS-1N RS

Specifications that are not listed below are applied to those of EOS-1N, and to those of EOS-1N with the Power Drive Booster E1 for shooting capacity data.

•Type: 35mm focal plane shutter SLR (Single-Lens Reflex) camera with fixed half-mirror, multi-point autofocus, auto exposure and built-in high-speed motor drive. RS mode with 6 milliseconds release time lag can be selected with the main switch.

•Viewfinder: Fixed eye-level pentaprism. Gives approx. 100% vertical and horizontal coverage of actual picture area and 0.72x magnification with 50mm lens at infinity at standard diopter (− 1) without image blackout.

•Focusing Screen: New laser-matte screen with fine spot metering area mark. (Seven optional interchangeable focusing screens are available, must be exchanged at an Authorized Canon Service Facility).

•Shutter: Double shielded vertical-travel focal plane shutter; all speeds electronically controlled. Release time lag (excluding AF operation) in "RS" mode: 6 ms (0.006 sec.) (time required to start exposure by pressing the shutter button completely after sub-mirror operation by pressing the shutter button halfway).

•Mirror: Fixed hard-coated pellicle mirror (reflection: transmission=35:65)

Autofocus

•AF Working Range: EV-1 ~ 18 at ISO 100

•Autofocus Modes: One-shot and AI Servo with Focus Prediction. (AI Servo is automatically switched to One-shot when the main switch is set to RS mode.) Manual focusing possible. (Electronic manual focusing possible during continuous exposure.)

Exposure Control

•AE Modes: Depth-of-Field AE is not available

•Metering Range: Evaluative and partial: EV 1 ~ 20 (normal temp., EF 50mm f/1.4 USM, ISO 100) Fine spot: EV 2 ~ 20 (same conditions as the above)

•Exposure Compensation: AEB (Auto Exposure Bracketing) can not be set and performed in RS mode. (If AEB is set with the main switch set to "A", it is automatically canceled when the main switch is set to "RS".)

•Depth-of-Field Preview: With depth-of-field preview button. (By pressing the shutter button halfway in RS mode.)

Film Transport

•Maximum Film Winding Speed

(shutter speed: set to 1/000 in the RS mode and to 1/250 sec. for normal mode)

	RS mode	Normal mode	
		One-shot AF/ Manual	AI servo AF
H (High-speed continuous)	10 fps	6 fps	4.7 fps
L (Low-speed continuous)	5 fps	3 fps	2.5 fps

•Film Rewind: Automatic (approx. 4.5 sec. with 24-exp. film). Mid-roll rewind possible. Rewind noise: 60 dB in normal mode, 50 dB in Silent mode.

Others

•Custom Functions: All the functions are applied to those of EOS-1N except for No. 12, which activates or cancels the AF in-focus beep tone.

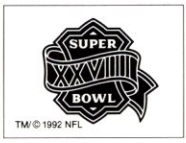
•Power Source: Eight AA-size alkaline batteries, AA-size lithium batteries, AA-size NiCd batteries, or NiCd Pack E1

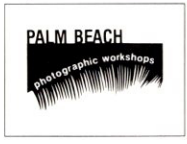
•Dimensions: 161 × 155.9 × 78 mm (W×H×D) [6-5/16″ × 6-1/8″ × 3-1/16″]

•Weight: 1,300 g/2.9 lbs without batteries; 1,500 g/3.3 lbs with 8 alkaline batteries.

All data are based on Canon's Standard Test Method. Products' external appearance and specifications are subject to change without notice.

A SYMBOL IS A PROMISE





Canon's high-performance cameras help photographers, from snapshooters to pros, get just the images they want; filled with split-second action and excitement

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U.S.A. **CANON U.S.A., INC. HEADQUARTERS**
One Canon Plaza, Lake Success, NY 11042, U.S.A.

CANON U.S.A., INC. NEW JERSEY OFFICE
100 Jamesburg Rd., Jamesburg, NJ 08831, U.S.A.

CANON U.S.A., INC. ATLANTA OFFICE
5625 Oakbrook Parkway, Norcross, GA 30093, U.S.A.

CANON U.S.A., INC. CHICAGO OFFICE
100 Park Blvd., Itasca, IL 60143-2693, U.S.A.

CANON U.S.A., INC. LOS ANGELES OFFICE
15955 Alton Pkwy., Irvine, CA 92718, U.S.A.

CANON U.S.A., INC. SANTA CLARA OFFICE
2051 Mission College Blvd., Santa Clara, CA 95054, U.S.A.

CANON U.S.A., INC. DALLAS OFFICE
3200 Regent Blvd., Irving, TX 75063-3145, U.S.A.

CANON U.S.A., INC. HONOLULU BRANCH
1020 Auahi St., Bldg. #8, Honolulu, HI 96814, U.S.A.

CANON U.S.A., INC. WASHINGTON, D.C. OFFICE
5701 General Washington Drive, Alexandria, VA 22312, U.S.A.

CANADA **CANON CANADA INC. HEADQUARTERS**
6390 Dixie Road, Mississauga, Ontario L5T 1P7, Canada

CANON CANADA INC. MONTREAL SERVICE CENTRE
10652 Côte de Liesse, Lachine, Quebec H8T 1A5, Canada

CANON CANADA INC. CALGARY OFFICE
2828 16th Street, N.E. Calgary, Alberta T2E 7K7, Canada

CANON INC. 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146, Japan

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