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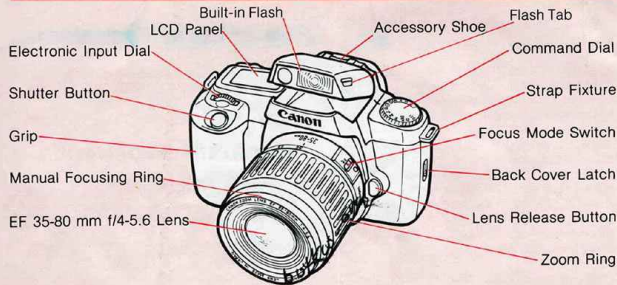
EOS REBEL S

E

English Edition

INSTRUCTIONS

Nomenclature



PROGRAMMED IMAGE CONTROL

- : Portrait
- : Landscape
- : Close-up
- : Sports



- : Green Zone
- : Lock (OFF)
- ISO : Manual Film Speed Setting
- : Self-timer

CREATIVE ZONE

- DEP: Depth-of-Field AE
- M : Manual Exposure
- Av : Aperture-priority AE
- Tv : Shutter-priority AE
- P : Program AE

Introduction

Thank you for selecting a Canon autofocus SLR camera.

EOS Rebel S, developed as Canon's new standard model autofocus SLR camera, is the lightest and most compact camera with a built-in flash in the EOS series.

Features such as simple dial operation and super-fast autofocus make it easier than ever to take great pictures any time.

EOS Rebel S employs AI Focus, which automatically switches between One-shot AF and AI Servo AF* based on the subject's movement. As a result, accurate focusing can be obtained even when the subject is moving toward or away from the camera.

- * One-shot AF: Focusing stops once completed. The original focus remains locked as long as the shutter button is kept pressed halfway.

AI Servo AF: An advanced autofocus mode which continuously focuses moving subjects as long as the shutter button is kept pressed halfway.

- The instructions in this book assume use of the EF 35-80 mm f/4-5.6 zoom lens; however, operations with a different lens are basically the same.

Please read this instruction book carefully for a thorough understanding before using your EOS Rebel S.

Attention

IMPORTANT INFORMATION

The Canon EOS Rebel S will give optimum performance together with specially designed Canon EF lenses, flash units and other Canon brand accessories. It is possible that the use of incompatible lenses or other accessories may result in unsatisfactory performance or damage to your Canon EOS Rebel S. We therefore suggest the use of Canon EF lenses and accessories. Damage to your Canon EOS Rebel S as a result of malfunction or improper connections caused by the use of incompatible products may void its warranty.

While reading these instructions, unfold the front and back flaps for easy reference to the camera's parts.



Precautions !

- 1) This camera is not resistant to water and should not be used outdoors in snow or rain. If accidentally dropped in water, contact an authorized Canon service facility. Keep the camera out of salt spray, and protect it from excessive humidity. If used at the beach, clean it thoroughly afterward with a dry cloth.
- 2) Do not attempt to disassemble the camera yourself. Always take it to an authorized Canon service facility for repair.
- 3) Remove the battery if you do not expect to use the camera for about three weeks or longer.
- 4) When storing the camera, wrap it in a clean, soft cloth and place in a cool, dry, dust-free place. Be sure to keep the camera out of direct sunlight, and away from "hot spots" such as the trunk or rear window shelf of a car. Avoid places where moth balls are used, and in extreme humidity, use a desiccant.
- 5) Carefully check the camera's operation after lengthy storage.
- 6) The battery may explode or cause burns if disassembled, recharged, shorted, exposed to high temperatures, or disposed of in fire.
- 7) Film passing through X-ray examinations at airports may be exposed and ruined even if loaded in the camera. Request a hand-checked inspection to avoid damage.
- 8) Aerosol spray dust removers are not recommended for the shutter curtain.
- 9) Condensation is a problem when bringing cold equipment into a warm room. If the autofocus optics cloud over, accuracy may be seriously affected. Before entering a warm room, put equipment in a plastic bag so condensation forms on the outside of the bag.
- 10) Color reproduction may be adversely affected if the film is left in the camera for a long time: Always develop exposed film promptly.
* Please see p. 54 for camera care information.

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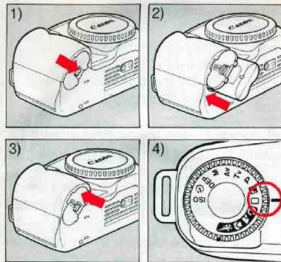
VII. SPECIFICATIONS

I. BASIC OPERATION

First-time SLR users should read this section carefully.


1. Battery Load and Check

[1] Preparations







The camera operates on a 2CR5 lithium battery.

- 1) Slide the battery cover lock down to open. The cover cannot be removed from the camera.
- 2) Insert the battery as shown with the terminals facing toward the shutter button.
- 3) Close the cover and hold it down until it locks with a click.
- 4) Turn the command dial to " P " or " B " to check the battery.

The battery check symbol () in the LCD panel displays the remaining battery power as shown in the illustrations.

- If nothing is displayed in the LCD panel, the battery is probably inserted upside down. Remove the battery and re-insert it correctly.
- See p. 55 for other important battery information.

Battery Check Symbols in the LCD Panel

-  : Battery power sufficient.
-  : Have a new battery handy.
-  : Replace the battery.
-  (blinking): See p. 55.

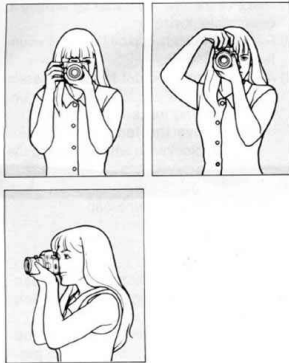
- When not using the camera, always be sure to set the command dial to "L" to prevent battery drain due to accidental pressing of the shutter button.
- Always check the battery condition before taking pictures.
- Carry a spare battery when going on trips or when planning to take many pictures.
- See p. 48 for shooting capacity.

2. Lens Attachment



- 1) Remove the rear lens cap by turning it counterclockwise.
- 2) Remove the body cap by turning it counterclockwise.
- 3) Align the lens' red dot to the camera's red dot and turn the lens clockwise until it stops and locks with a click.
 - **To remove the lens**, turn the lens counterclockwise while pressing the lens release button
- 4) Set the lens' focus mode switch to AF
- 5) Remove the front lens cap.

- The electronic contacts must be clean for proper connection. **Do not touch** these contacts.
- Do not set the lens on its rear end without the lens cap attached to prevent damage to the electronic contacts.




Sharp pictures require **that the camera be held still to prevent unnecessary movement called "camera shake" that can ruin your pictures.** Try the suggested tips below.





- 1) Hold the camera firmly in your right hand. Place the palm of your left hand on the bottom of the camera to support the lens.
- 2) Keep both elbows close to your body.
- 3) Spread your feet apart about shoulder width for a steady natural stance.
- 4) Lightly hold the camera against your nose and look into the viewfinder.

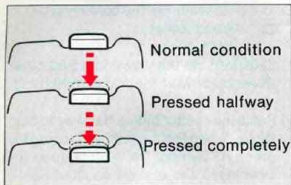
There is no one correct way to hold the camera. **Experiment to find the most comfortable position.** Whenever possible, lean against a steady support such as a tree, wall, or table to help you keep the camera still.

4. Focusing



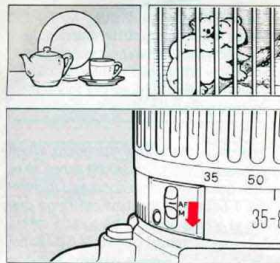
Before practicing, set the command dial to "  " (Green Zone).

- 1) Look through the viewfinder and cover the subject with the focus mark ().
- 2) Press the shutter button **halfway** to start focus. When the subject is in focus, the green AF symbol "  " lights up in the viewfinder and a short double beep is emitted.
- 3) Without letting up on the shutter button, press the shutter button completely to take the picture.
 - In low-light or backlit conditions, the shutter speed or the flash symbol "  " blink in the viewfinder. See p. 17 when the shutter speed blinks or see p. 34 when the flash symbol "  " blinks.



- Shutter button action plays an important part in taking good pictures. A quick stroke with the tip of your finger may cause "camera shake." **Always press the shutter button slowly and gently with the ball of your finger.**
- Be sure not to touch the front of the lens during focusing.
- When the subject cannot be focused, the green AF symbol "●" starts blinking and the shutter will not release. (See the next page.)

Difficult Subjects for Autofocus [Manual Focusing]



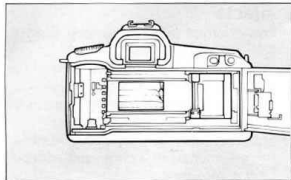
There are a few subjects that may be difficult for the camera to focus. The green AF symbol will blink in the viewfinder to warn you of this condition.

Subjects

- Low-contrast subjects—misty scenes, light-colored or white objects.
- Subjects in extremely low-high situations—a dark room, night scenes.
- Subjects having generally horizontal patterns (window blinds).
- Subjects with an object in front of them—animals in a cage, subjects behind a wire fence.
- Strong, bright reflections—shiny metal, ice, surface of a lake.
- Fast-moving subjects—difficult to keep within the focus mark.

Focus these subjects by setting the lens' focus mode switch to "M" and turning the manual focusing ring until the image is sharp.

1. Film Loading

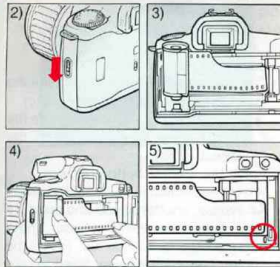


- Always load film out of direct sunlight.
- **Never touch the shutter curtain.** Its precision design makes it sensitive to pressure. When loading film, be careful that the film tip does not touch the shutter curtain.

This camera uses a prewind system. When film is loaded, the camera first winds all of the film onto the take-up spool and then rewinds it back into the film cartridge one frame at a time as each picture is taken. The frame counter on the LCD panel decreases as pictures are taken, allowing you to always see at a glance the remaining frames.

For DX-coded film, the camera automatically sets the film speed when the film is loaded. (For manual film speed setting, see p. 46.)

(2) Taking Pictures



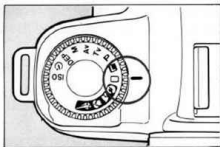
- 1) Make sure the command dial is not at L.
- 2) Open the back cover by sliding the latch down.
- 3) Insert the film as shown with the flat end of the cartridge on top.
- 4) Carefully pull the film tip across until it reaches the orange mark.
- 5) Make sure the film lies flat and close the back cover.

Film winding starts and the frame counter counts up. When the film is completely wound, the shutter is released once; however, no picture is taken. The film cartridge symbol and the number of available frames are displayed in the LCD panel.



- If the film cartridge symbol blinks, the film has not been loaded properly and the shutter will not release. Reload the film.
- Film becomes soft and tears easily in high humidity. Keep it stored in its canister until loading.




2. Basic Picture Taking - Green Zone



This setting for basic operation allows you to begin shooting immediately without making any settings before taking pictures.

- 1) Set the command dial to "  ".
- 2) Compose the picture and make sure the focus mark () covers the subject.
 - If you are using a zoom lens, turn the zoom ring to vary the size of the subject.
- 3) Press the shutter button halfway.

When the subject is in focus, the green AF symbol, shutter speed and aperture value light up in the viewfinder and a short double beep sounds. Press the shutter button all the way down to take the picture.

 - The shutter speed and aperture value are also displayed in the LCD panel.
 - In low light or backlit conditions, the "  " mark blinks in the viewfinder. Switch to flash photography (see p. 34) or use a tripod.



Blinking shutter speed (camera shake warning)

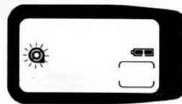
In Green Zone and Programmed Image Control modes, the shutter speed will blink on the LCD panel and in the viewfinder if the shutter speed is too slow to hand-hold. In this case, we recommend switching to flash photography or using a tripod.



Focus Lock

This camera focuses on the subject covered by the focus mark in the center of the viewfinder. For off-center subjects, use focus lock to set the focus and then recompose the picture as desired.

- 1) Cover the subject with the focus mark and press the shutter button halfway.
- 2) Keeping the shutter button pressed halfway, recompose the picture as desired and then press the shutter button all the way down to take the picture.



Film Rewind

When the last picture is taken, the remaining film automatically rewinds into the cartridge. When completed, rewinding stops and the film cartridge symbol blinks in the LCD panel.

If you want to develop the film before the end of the roll, remove the lens and turn the command dial to "ISO". Press both the exposure compensation button and the partial metering button simultaneously.

3. Programmed Image Control (P.I.C.)

With P.I.C., focus and film wind settings as well as shutter speed and aperture value settings are made automatically for four types of pictures: portraits, landscapes, close-ups, and sports. This allows you to take pictures easily and concentrate on composition.

- If the "⚡" mark blinks in the viewfinder, switch to flash photography or use a tripod.
- If the shutter speed blinks to warn of camera shake, we recommend switching to flash photography or using a tripod.



Portrait Settings: One-shot AE/Continuous wind/Evaluative metering

Shallow depth of field is generally used to emphasize the subject, therefore large apertures (small numbers) are set. Focus on the subject's eyes. Continuous film wind helps keep up with the subtle changes in expression.

For effective background blur, separate the subject from the background as much as possible and use a telephoto lens or the telephoto setting on your zoom lens (80 mm on the EF 35-80 mm f/4-5.6).



Landscape Settings: One-shot AF/Single frame wind/Evaluative metering

Deep depth of field is usually the primary concern in landscape photography. This setting automatically sets small apertures (large numbers) for deep depth of field.

Use a wide-angle lens or the wide-angle setting on your zoom lens to create a feeling of expansiveness and depth.




Close-up Settings: One-shot AF/Single frame wind/Partial metering

Move as close as possible to the subject for the maximum magnification.

When using a zoom lens, you can achieve maximum magnification by setting the lens to the telephoto position.



 **Sports** Settings: AI focus AF/Continuous
wind/Evaluative metering

Faster shutter speeds are emphasized to help you keep up with all the action while AI servo tracks the subject's movement. Keep the focus mark on the subject.

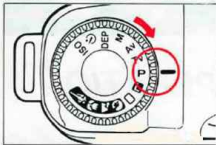
- Continuous shooting is possible by holding the shutter button down.

II. ADVANCED OPERATION

1. Creative Zone

The command dial's "Creative Zone" provides five shooting modes, enabling you to select the mode and values which best match your subject and photographic objectives. Also, with "Creative Zone" modes, you can use functions such as **exposure compensation** and **multiple exposure** (explained in the Applications section) to further expand your creativity.

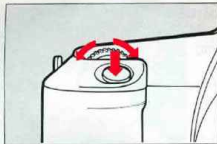
Select the desired mode by turning the command dial.



P: Program AE Settings: AI focus AF/Continuous wind/Evaluative metering
The camera sets both aperture and shutter speed automatically, taking into account the lens in use.

Checking the Exposure

If the exposure data blink, the exposure is not correct. Use a flash in low light situations or use an ND (neutral density) filter in bright situations.



Program Shift

In Program AE mode, the automatically set shutter speed and aperture combination (program) can be changed while maintaining the same exposure.

To shift the program, press the shutter button halfway to display the exposure data and turn the electronic input dial to select the desired shutter speed or aperture value.

- See p. 50 for program shift characteristics.
- Program shift is not possible when using a flash

In the Creative Zone, an **exposure level scale and exposure level mark** appear in the viewfinder and LCD panel in addition to the exposure data (shutter speed and aperture value). The exposure level mark indicates the amount of exposure compensation in the four AE modes and the exposure level in manual exposure mode.

Six-second Timer

Even if you release the shutter button after pressing it down halfway, the exposure data (shutter speed and aperture) in the viewfinder and LCD panel appear for about six seconds.



Tv : Shutter-priority AE Settings: AI focus AF/Continuous wind/Evaluative metering

In this mode the user selects the shutter speed and the camera sets the aperture value for the lighting conditions. This mode is best for taking pictures of moving subjects by controlling the shutter speed. Faster shutter speeds freeze subject motion, while slower shutter speeds can produce artistic blur effects.

- The initial shutter speed setting is always 125 (1/125). Turn the electronic input dial for the desired shutter speed.

Checking the Exposure

Underexposure - The lens' maximum aperture starts blinking. Set a slower shutter speed until it stops blinking.

Overexposure - The lens' minimum aperture starts blinking. Set a faster shutter speed until it stops blinking.



Av: Aperture-priority AE Settings: AI focus AF/Continuous wind/Evaluative metering

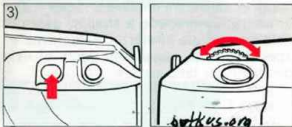
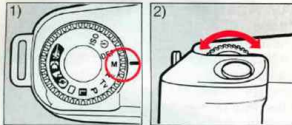
In this mode the user selects the aperture value and the camera sets the correct shutter speed for the lighting conditions. Use this mode for taking portraits, landscapes, and still life photography where depth of field is an important factor. Larger apertures produce a shallow depth of field appropriate for portraits, and smaller apertures produce a deep depth of field desirable for landscapes.

- The initial aperture value setting is always 5.6 (f/5.6). Turn the electronic input dial for the desired aperture value.

Checking the Exposure

Underexposure - The shutter speed of 30" (30 sec.) blinks. Set a larger aperture until the shutter speed stops blinking.

Overexposure - The shutter speed of 1000 (1/1000 sec.) blinks. Set a smaller aperture until the shutter speed stops blinking.



M: Manual Exposure Settings: AI focus AF/Continuous wind/Center-weighted average metering.

This creative mode allows you to completely control exposure by setting both the shutter speed and aperture value.

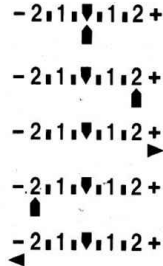
The initial setting is always 1/125 sec. at f/5.6.

1) Set the command dial to "M" and turn the electronic input dial to set the desired shutter speed.

2) While pressing the exposure compensation button, turn the electronic input dial to set the desired aperture value.

3) Press the shutter button halfway and check the exposure data.

- The exposure level mark is displayed in the viewfinder and LCD panel as shown in the illustrations.



Adjust the exposure according to the position of the exposure level mark.

Metered standard exposure: The current settings will result in a correct exposure.

Overexposure: Close the aperture or set a faster shutter speed until correct exposure is obtained.

Overexposure (More than 2 stops)

Underexposure: Open the aperture or set a slower shutter speed until correct exposure is obtained.

Underexposure (More than 2 stops)



DEP: Depth-of-Field AE Settings:
One-shot AF/Single frame wind/Evaluative
metering

Depth-of-Field AE mode places everything
between user set points in the foreground
and background in focus. The points are
set using the focus mark in the viewfinder.

The camera sets the necessary aperture
value and shutter speed to obtain the best
possible results under the existing lighting.

*** This mode cannot be used with flash.**



- 1) Set the command dial to "DEP".
- 2) Place the focus mark on the first point
(a) and press the shutter button halfway.
 - Remove your finger when the green
AF symbol and "dEP 1" light up in the
viewfinder.
- 3) Repeat step #2 for the second point (b);
"dEP 2".
- 4) Recompose the picture and press the
shutter button halfway. After the AF
symbol and exposure data light up,
press the shutter button completely to
take the picture.

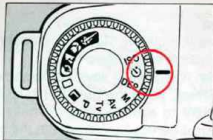
Checking the Exposure

- If the minimum aperture value of the lens in use blinks, clear the focus points by turning the command dial to another position and returning it to DEP. Move back from the subject or switch to a wide-angle lens or zoom lens' wide-angle setting and repeat steps #2 through 4. When the aperture value stops blinking, the distance range will be sharply focused and correct exposure will be obtained.
- If both the shutter speed and the aperture value blink, the exposure is not correct. Use an ND filter in bright situations. The flash can not be combined with this mode.

Additional Information

- To cancel Depth-of-Field AE in mid-operation, set the command dial to another position.
- When using a zoom lens, do not change the focal length after setting the first point. Always set the focal length first.
- Wide-angle lenses are best used in this mode for maximum depth-of-field effect. Lenses with a focal length longer than 200 mm are not recommended for deep depth of field.
- This mode can also be used to minimize depth of field by focusing on the same point both times. A telephoto lens gives portraits the best shallow depth-of-field effect.
- If the focus points are extremely near and far, the shutter speed may be very slow. We recommend using a tripod.

2. ⌚ : Self-timer



⌚ : Self-timer Settings: One-shot AF/Evaluative metering

Use the self-timer function to delay shutter release for 10 seconds and include yourself in the picture. Place the camera on a tripod, table, or other steady surface.

- Shooting mode is automatically set to Program AE.

- 1) Set the command dial to " ⌚ ".
- 2) Compose the picture and press the shutter button to start the timer **while looking into the viewfinder**. A beeper tone sounds to monitor the countdown. Two seconds before the picture is taken, the beeper tone sounds rapidly.
 - Be careful **not to stand in front of the camera** when you press the shutter button.
 - To cancel the self-timer, turn the command dial to another position.

3. Flash Photography

When the "flash" mark blinks in the viewfinder, pull the built-in flash up manually for flash photography.



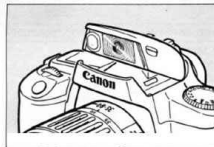
Notes

- 1) Always pull the flash up **gently** by grasping the flash tabs.
- 2) When not in use or when using an external flash, push the built-in flash down **gently** to retract. An external flash **cannot** be used together with the built-in flash.
- 3) For flash photography, do not press the shutter button completely until the "⚡" mark lights steadily in the viewfinder.

Flash Coupling Distance Range

(when using the EF 35-80 mm f/4-5.6)

ISO	WIDE		TELE	
	Color Print Film	Slide Film	Color Print Film	Slide Film
100	0.7-4.3 m 2.3-14.1 ft	1-3 m 3.3-9.8 ft	0.7-3 m 2.3-9.8 ft	1-2.1 m 3.3-6.9 ft
400	0.7-8.5 m 2.3-27.9 ft	1.5-6 m 4.9-19.7 ft	1-6 m 3.3-19.7 ft	1.5-4.3 m 4.9-14.1 ft



- 4) "⚡" will not blink in the "Creative Zone".
- 5) In low-light conditions, the built-in AF auxiliary light is emitted automatically if necessary when the shutter button is pressed halfway.
- 6) Using the following large-diameter lenses may cause shading at the lower part of flash photos:
 EF 200 mm f/1.8 L
 EF 300 mm f/2.8 L
 EF 20-35 mm f/2.8 L
 EF 28-80 mm f/2.8-4 L
 EF 80-200 mm f/2.8 L
 EF 50-200 mm f/3.5-4.5
 EF 50-200 mm f/3.5-4.5 L
- 7) Using a lens of a focal length shorter than 35 mm may cause shading around the edges of flash photos.
- 8) To prevent shading, do not use a lens hood when using the built-in flash.

A subject's eyes may appear red in flash photos due to the light reflected from the retina. To minimize this, have the subject avoid looking directly at the camera. If indoors, turn on additional room lighting.

Viewfinder Information When Using the Flash

Shooting mode	Warning display	Condition	Note
(P) Program AE	During daylight fill-in flash photography, the lens' minimum aperture value blinks.	The background is overexposed.	The subject is correctly exposed.
(Tv) Shutter-priority AE	The lens' minimum aperture value blinks.	The background is overexposed.	The subject is correctly exposed. Blinking may stop if a faster shutter speed is set. ;
	The lens' maximum aperture value blinks.	The background is underexposed.	The subject is correctly exposed. Blinking may stop if a slower shutter speed is set.
(Av) Aperture-priority	The fastest possible x-sync shutter speed 90 (1/90 sec.) blinks.	The background is overexposed.	The subject is correctly exposed. Blinking may stop if a smaller aperture is set.
	The slowest shutter speed 30" (30 sec.) blinks.	The background is underexposed.	The subject is correctly exposed. Blinking may stop if a larger aperture is set.

X-sync Shutter Speed and Aperture Value

Shooting mode	X-sync shutter speed	Aperture value
Program AE	Automatically set to 1/60 - 1/90 sec.	Flash aperture value automatically set according to existing lighting and TTL program.
Shutter-priority AE	Manually set to any desired shutter speed of 1/90 sec. or slower*.	Aperture value automatically set according to the set shutter speed and existing lighting.
Aperture-priority AE	Automatically set between 30'' and 1/90 sec. according to the set aperture value and existing lighting.	Manually set to any desired aperture value.
Manual	Manually set to any desired shutter speed of 1/90 sec. or slower*.	Manually set to any desired aperture value.

* If the shutter speed is set to a value faster than 1/90 sec., the camera will automatically lower it to 1/90 sec.

III. APPLICATIONS

With these functions you can expand your creativity by tailoring the operation of your camera to match shooting conditions or your photographic objectives.

The functions described in the Applications section cannot be set in Green Zone or any of the P.I.C. modes.

1. Partial Metering

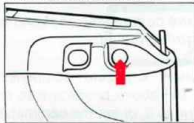


The main light metering system used in this camera is called "evaluative metering." It evaluates the entire picture area by dividing it into three zones to determine the best exposure taking into consideration differences in brightness between the subject and background and the size of the subject. With a backlit subject, for example, the camera automatically compensates to obtain correct exposure for the main subject.

Partial metering, on the other hand, reads only 9.5% of the center of the picture area. This is particularly suited for photography in theaters and other situations when there is a significant difference in brightness between the main subject and background. The exposure setting is automatically locked in partial metering mode, allowing you to freely recompose the picture after metering.

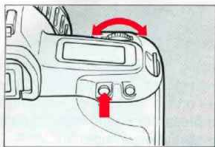


Partial Metering Area Mark



- 1) Compose the picture and focus the subject.
- 2) Keeping the shutter button pressed halfway, place the partial metering area mark on the subject you want metered and press the partial metering button. The partial metering mark " * " appears in the viewfinder. After, " * " lights up, you may remove your finger from the partial metering button. The exposure is locked.
- 3) Continue pressing the shutter button halfway, recompose the picture if desired and press the shutter button completely.

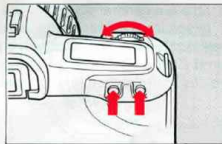
2. Exposure Compensation



Use exposure compensation for intentionally underexposed or overexposed pictures. The compensation range is up to ± 2 stops in half-stop increments. While pressing the exposure compensation button, turn the electronic input dial until the exposure level mark is set to the desired exposure compensation amount.

- *Exposure compensation remains active until canceled.*
- *To cancel* exposure compensation, repeat the above procedure to return the value to 0, or set the command dial to the green zone or to any of the P.I.C. modes.
- When used in the manual exposure mode, the metered standard value is also compensated.

3. Multiple Exposures



Try this function for creative and dramatic effects. Up to nine exposures can be made on the same frame with minimal operation.

- 1) Press the exposure compensation button and the partial metering button together to display "ME" in the LCD panel.
 - 2) Turn the electronic input dial to set the desired number of exposures.
 - 3) Press the shutter button to start.
- "ME" blinks in the LCD panel during multiple exposure operation.
 - The film winds to the next frame after the set number of exposures have been taken.
 - To clear preset exposures, repeat steps #1 and 2 to set the number of exposures to 1.

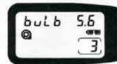
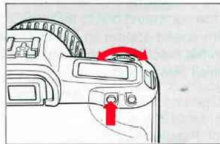
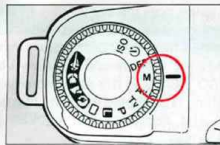
Shooting Hint

For best results, we recommend setting exposure compensation depending on the number of exposures.

Number of exposures	Exposure compensation amount
Two	-1.0
Three	-1.5
Four	-2.0

- This table is a general guideline. The actual exposure compensation amount varies according to the subject and desired effect. This kind of photo requires experimentation for best results.

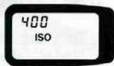
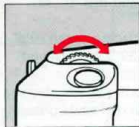
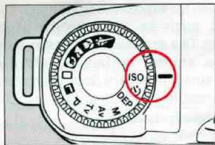
4. Bulb (Long Exposure)



Use bulb for exposures longer than 30 seconds, such as for fireworks or night scenes. **The exposure continues as long as the shutter button is held down.** Make sure the camera does not move during exposure by placing it on a tripod or other steady surface.

- 1) Set the command dial to "M".
 - 2) Turn the electronic input dial until "buLb" (after 30") is displayed.
 - 3) Set the aperture value by turning the electronic input dial while pressing the exposure compensation button.
 - 4) Press the shutter button completely to take the picture.
- Bulb can be combined with the multiple exposure function.

5. Manual Film Speed Setting



When using non DX-coded film or when you want to set the effective speed of a film determined from your own tests, you can manually set the film speed to any value from ISO 6-6400 in 1/3-step increments. The setting is canceled after the film is removed and replaced with another DX-coded film.

- 1) Set the command dial to ISO. "ISO" and a film speed appear in the LCD panel.
- 2) Turn the electronic input dial to set the desired film speed.

IV. REFERENCE

1. Comparisons Between AF Mode and Film Wind Mode

Film wind mode	One-shot	AI Servo
Single	AF lock and AE lock in the evaluative metering mode take place simultaneously on AF completion. The shutter releases only after AF completion.	AF follows the subject and the exposure is determined at the moment of shutter release. The shutter releases only after AF completion.
Continuous	AF lock and AE lock in the evaluative metering mode take place simultaneously on AF completion, then continuous exposure is activated. (Approx. 1 fps maximum.)	AF follows the subject and the exposure is determined at the moment of shutter release. AF is adjusted to follow the subject during the series of exposure. (Approx. 1 fps maximum.) The shutter releases only after AF completion.

2. Film Shooting Capacity

The battery's shooting capacity varies depending on the number of flash use and on the temperature of the environment. Refer to the table below.

Temperature	Without Flash	With 50% Flash	With 100% Flash
Normal (20°C)	75 rolls	40 rolls	15 rolls
Low (-10°C)	45 rolls	25 rolls	10 rolls

- Based on a new 2CR5 lithium battery using the EF 35-80 mm f/4-5.6 lens and 24-exp. film.
- The data are based on Canon's Standard Test Method.

3. Program Lines (Program Characteristics)

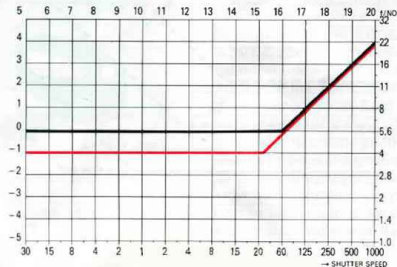
This camera is equipped with advanced "Intelligent Program AE" which chooses the best shutter speed/aperture combinations, taking the lens' focal length into account (for green zone mode and Program AE mode).

In green zone mode, the automatically set

shutter speed blinks when it becomes **0 to 0.5 steps slower than "1/focal length of the lens in use"**. This shutter speed (1/focal length of the lens in use) is generally said to be the limit for hand-held shooting.

- When using the EF 35-80mm f/4-5.6.

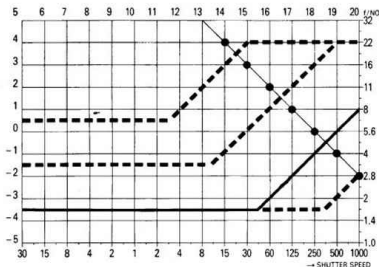
Red : WIDE
Black : TELE



Program Shift Characteristics

(EF 50 mm f/1.8 - example with shift at EV 13)

- Indicates the shutter speed/aperture combinations with program shift.



V. ACCESSORIES

The accessories described in this section are sold separately.



1. Dedicated Canon Speedlites

If you need a flash with a little higher output than that of the built-in flash, attach the extra-compact and simple Speedlite 200E (guide number : 66 ·ft/20 ·m at ISO 100) to the camera. All you have to do is switch it on and point and shoot.

In addition to the **200E**, the powerful **430EZ** zoom flash with the maximum guide number of 141 ·ft/43 ·m (at ISO 100), and the **300EZ** with the maximum guide number of 98 ·ft/30 ·m (at ISO 100) are available. With the 430EZ in particular, advanced functions such as flash output level compensation, stroboscopic flash, second-curtain sync, bounce flash, and slow synchronization are possible in addition to large output. An external battery pack is also available for the 430EZ.



2. Grip Extension GR-70

The grip extension increases the size of the grip to provide a more comfortable and secure hold for large hands. An adjustable padded strap is included for easier handling. Fastens into the tripod socket with a lock nut screw.

3. Dioptric Adjustment Lenses

For eyeglass wearers, there are 10 correction lenses available from +3 to -4 dpt. Conduct a test before purchase for the best match to your prescription and make viewing more comfortable.



4. Lens Hoods and Filters

Use lens hoods and filters to keep unwanted light from entering the lens and provide special effects. Select the right hood size to match your lens and select filters according to your photographic objectives.

- When attaching the hood to the EF 35-80 mm f/4-5.6 Power Zoom, EF 35-80 mm f/4-5.6 or EF 80-200 mm f/4.5-5.6, first screw the hood adapter into the lens and attach the hood to the adapter.
- When attaching both the hood and filter to the EF 35-80 mm f/4-5.6, screw the filter into the hood adapter.

VI. CAMERA CARE

Keep your camera in top condition by following these suggestions for periodic cleaning. See the precautions on p. 5 for other important information.

1. Cleaning the lens surface—

Blow off dust with a blower brush and gently wipe the lens surface with a piece of lens cleaning paper moistened with lens cleaner. Clean in a spiral motion from the center outwards.

2. Cleaning mirror and focusing screen—

Use a blower brush reserved for this purpose only. If more cleaning is necessary, NEVER attempt to do it yourself. Take the camera to an authorized Canon service facility.

3. Cleaning the film chamber—

Use a blower brush to remove accumulated film dust particles that might scratch the film. Be careful NOT TO TOUCH the shutter curtain.

4. Cleaning the film pressure plate and film guide rails—

Lightly wipe the surface with a piece of lens cleaning paper moistened with lens cleaner. Be careful NOT TO TOUCH the shutter curtain.

- Use of aerosol spray dust removers is not recommended.

Liquid Crystal Display/Battery Notes

The LCD panel uses liquid crystal to show exposure information. After about five years, the display may become difficult to read. If this occurs, have it replaced at an authorized Canon service facility. Replacement is at the owner's expense.

Liquid crystal may also respond relatively slowly in temperatures below 32°F/0°C. It may also darken in temperatures around 140°F/60°C. The LCD panel will return when the temperature returns to normal.

Battery Information

Lithium Battery Check

Always check the battery at the following times:

1. When loading a new battery
2. After lengthy storage
3. Before an important shooting assignment
4. In cold weather
5. If the shutter will not release

Battery Use Information

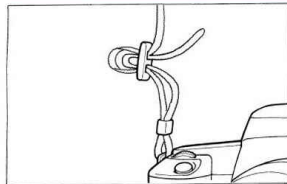
1. Wipe the battery terminals with a clean, dry cloth to ensure proper connection.
2. Remove the battery if you do not expect to use the camera for more than three weeks.
3. Battery performance deteriorates slightly in temperatures below 32°F/0°C. Keep the camera and especially a spare battery close to your body or in an inside pocket to keep it warm until use.

4. The battery may explode or cause burns if disassembled, recharged, shorted, exposed to high temperatures, or disposed of in fire. Be sure to observe all precautions indicated on the battery package. Always keep it out of the reach of children.
5. If the battery check symbol blinks or does not appear in the LCD panel during battery check, exposure will be okay as long as the shutter releases. Film advance and rewind will be impaired by insufficient battery power. If wind or rewind stops due to the exhausted battery, the film cartridge symbol will blink. Film transport resumes after a new battery is loaded.

Blinking "⏏" Display

There are two conditions when the blinking "⏏" will appear in the LCD panel.

1. If the battery is nearly exhausted, the blinking "⏏" will appear when the shutter button is pressed halfway or when the battery is checked.
2. If the remaining battery power does not show a replacement condition, but the camera's self-test process detects an internal malfunction, the blinking "⏏" will appear when the shutter button is pressed halfway.*
 - * In this case, remove the battery once. Wipe the battery terminals and reload it. Check the battery again. If the blinking "⏏" still appears, the camera needs to be examined by an authorized Canon service facility.



Attaching the Strap

Thread the ends of the neckstrap through the fixtures as shown.

VII. SPECIFICATIONS

TYPE AND MAJOR COMPONENTS

Type: 35 mm focal plane shutter SLR (single-lens reflex) autofocus/auto exposure camera, with built-in motor drive and flash.

Lens Mount: Canon EF mount (electronic signal transfer system)

Usable Lenses: Canon EF lenses

Viewfinder: Fixed eye-level pentaprism. Gives 90% vertical and horizontal coverage of actual picture area and 0.75X magnification with 50 mm lens at infinity.

Standard Diopter: Adjusted to -1.

Focusing Screen: Fixed, new laser-matte screen with focus mark and partial metering mark.

Shutter: Vertical-travel, focal plane shutter with all speeds electronically controlled.

Shutter Speed: 1/1000 - 30 sec. and bulb.

Set in 1/2-stop increments. X-sync is 1/90 sec.

AUTOFOCUS

AF Control System: TTL-SIR (Secondary Image Registration) phase detection type using BASIS (Base-Stored Image Sensor). Two modes available: One-shot and AI Focus that automatically switches to One-shot or AI Servo according to subject.

Manual focusing also possible.

AF Working Range: EV 1 - 18 at ISO 100.

AF Auxiliary Light: Automatically projected when necessary by the specified Speedlite.

EXPOSURE CONTROL

Light Metering: TTL full-aperture metering using an SPC (Silicon Photocell).

Three metering patterns available: 3-zone evaluative metering, partial metering which covers approx. 9.5% of the central picture area and center-weighted average metering (only when selecting the manual exposure mode).

Metering Range: EV 2-20 with 50 mm f/1.4 lens at ISO 100.

Shooting Modes:

1. Green Zone (Intelligent Program AE)
2. Programmed Image Control (Portrait, Landscape, Close-up, Sports)
3. Intelligent Program AE
4. Shutter-priority AE
5. Aperture-priority AE
6. Metered Manual
7. Depth-of-Field AE
8. Flash AE (A-TTL or TTL program flash AE with the flash)

Camera Shake Warning: Operates in Green Zone and Programmed Image Control modes. Shutter speed blinks when automatically-set shutter speed is 0 to 0.5 steps slower than "1/focal length of the lens in use."

Multiple Exposures: Up to nine exposures can be preset. Automatically clears upon completion.

Exposure Compensation: +/- 2 stops in 1/2-stop increments.

FILM TRANSPORT

Film Speed Setting: Automatically set according to DX code (ISO 25-5000) or set by user (ISO 6-6400).

Film Loading: Automatic prewind system. After film positioning and back cover closure, the film automatically winds to the end of the roll and stops.

Film Wind: Automatic. One of two modes is automatically set: Single Frame and Continuous (1 fps maximum).

Film Rewind: Automatic rewind at end of roll.

POWER SOURCE

Battery: One six-volt lithium battery (2CR5).

OTHER

Self-timer: Electronically controlled with a 10-sec. delay.

DIMENSIONS

Size: 5-7/8" (W) × 3-13/16" (H) × 2-11/16" (D)

148 (W) × 99.8 (H) × 68 (D) mm

Weight: 15.8 oz. (450 g) without battery
17.2 oz (490 g) with battery

LENSES

		EF 35-80 mm f/4-5.6	EF 80-200 mm f/4.5-5.6
Angle of View	Diagonal	63° - 30°	30° - 12°
	Vertical	30° - 17°	17° - 7°
	Horizontal	54° - 25°	25° - 10°
Optical Construction		8 elements in 8 groups	10 elements in 7 groups
Minimum Aperture		22-32	22-27
Shooting Distance		1.2 ft/0.37 m-infinity	4.9 ft/1.5 m- infinity
Maximum Magnification and Field of View		35 mm 0.12X (200×300mm) 7-7/8"×11-13/16" 80 mm 0.25X (96×144mm) 3-3/4"×5-11/16"	80 mm 0.065X (368×578mm) 14-1/2"×21-9/16" 200 mm 0.156X (152×225mm) 5-15/16"×8-7/8"
Filter Size		52 mm	52 mm
Hood		EW-62	ET-62 II
Case (hard/snap)		LH-C13/ES-C9	LH-C13/ES-C13
Length × Max. Diameter		2-3/8" × 2-11/16" 61 × 68.6 mm	3-1/16" × 2-13/16" 77.8 × 71.2 mm
Weight		6.3 oz. (180 g)	9.7 oz. (275 g)

BUILT-IN FLASH

Type: Built-in TTL automatic flash. Manually retractable. Series control system.

Guide Number (ISO 100): 39·ft/12·m

Flash Coverage Angle: Covers the angle of view of a 35 mm lens

Recycling Time: Approx. 2 sec.

Flash Duration: 1 ms or less

Sync Timing: First curtain sync only.

Flash Control System: TTL automatic control by metering light reflected from the film plane.

Shooting Distance Range: 2.3-14.1 ft/0.7-4.3 m (Based on ISO 100 film. The shooting distance range changes according to film speed.)

AF Auxiliary Light: Automatically emitted when the shutter button is pressed half-way if necessary. Effective distance range: 3.3-13.1 ft/1-4 m

Power Source: Same as that of the br

All data are based on Canon's Standard Test Method.

Subject to change without notice.

