PayPal
DONATE
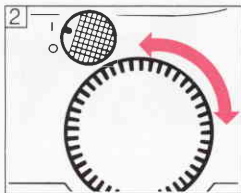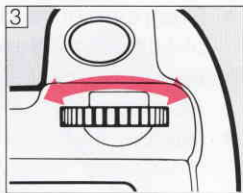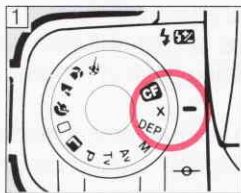
back to my "Orphancameras" manuals /flash and light meter site

Only one "donation" needed per manual, not per multiple section of a manual !
The large manuals are split only for easy download size.

6. X (Flash sync mode)

Use this mode for flash photography using a non-dedicated external flash unit (such as a studio strobe) connected to the camera's PC terminal or accessory shoe. Shutter speed and aperture settings are the reverse of manual exposure operation, with the X-sync shutter speed (1/200, 1/125, 1/90 or 1/60 sec) set with the quick control dial and the aperture value set with the main dial.

- Before use, be sure to check the synchronous shutter speed range of the external flash unit.
1) Set the command dial to X.
2) Set the quick control dial switch to **I**, then turn the quick control dial to the desired X-sync shutter speed.
3) Turn the main dial to set the desired aperture.
4) Take the picture.

[Attention]
The diagram on the right shows the contact points of the camera's PC terminal. please note that if an external flash unit with opposite polarity is attached to the camera, the flash will not operate.

Image zone shooting modes automatically set all camera functions such as metering, film winding and AF mode to the optimum settings appropriate for the selected mode.

- When using an external flash unit in an image zone mode, the picture may not turn out as expected. Do not use an external flash unit with image zone modes.
- If the shutter speed set by the image zone mode falls below "1/focal length of the lens in use," the beeper sounds (2 beeps per second) to warn of possible blurring due to camera shake.
- Refer to page 57 for the function settings in each mode.

☐ (Full Auto)

This setting allows you to take pictures in any situation with point and shoot simplicity. Focusing, exposure and film winding are all set automatically.

- Red-eye reduction operation is possible with the built-in flash (refer to page 28).

AF mode automatic switching function

In Full Auto mode, the camera senses the subject movement and automatically sets One-shot AF if the subject is stationary or AI Servo AF if the subject is moving (refer to page 21).

- When the camera switches to AI Servo AF mode, the in-focus indicator does not function.
- Once the camera switches to AI Servo AF mode, it will not switch back to One-shot AF mode.

꒐ (Portrait)

Set this mode to create a sharply focused subject against a blurred background for flattering portraits.

- Hold the shutter button down to take pictures continuously.
- Red-eye reduction operation is possible with the built-in flash (refer to page 28).

꒐ (Landscape)

Set this mode for vivid landscape pictures with everything sharply focused from near to far. When using a zoom lens, set the lens to a wide-angle position for best effect.

✿ (Close-up)

Set this mode to use the lens' built-in macro function and take striking close-ups of small objects such as flowers and insects. When using a zoom lens, set the lens to telephoto for greatest magnification.

- The light from the flash may be partially blocked by the lens at distances closer than 1 m/3.3 ft.
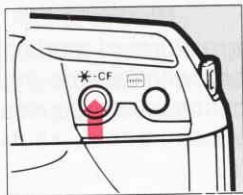- For high-magnification close-ups, we recommend using a macro lens.
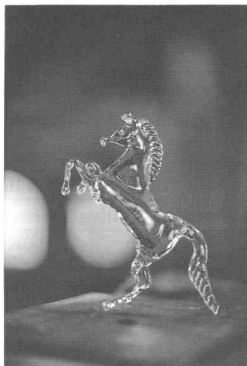
✿ (Sports)

Use this setting for taking pictures of sporting events or other situations with fast-moving subjects. The camera continuously focuses as you follow the subject with the shutter button pressed halfway.

- Pictures can be taken continuously by holding the shutter button pressed.

8. AE Lock

When you press the AE lock button, ✳ lights in the viewfinder to indicate that AE lock is set. Once ✳ appears the exposure remains locked even if you release the AE lock button. AE lock is available in P, Tv, Av and DEP shooting modes.

- When the film winding mode is 🔲 or 🔲ᴴ, the same exposure setting is used for all continuous exposures.

AE lock operation for different AF focusing point selection and metering mode combinations

	Manual focusing point selection	Automatic focusing point selection
Evaluative metering	Locks metered value based on selected AF focusing point	Locks metered value based on selected AF focusing point after focusing is completed with the shutter button pressed halfway.
Spot metering	Locks metered value based on center AF focusing point	
Center-weighted average metering	Locks metered value based on center AF focusing point	

9. AEB (Auto Exposure Bracketing)

Use auto exposure bracketing in AE and manual exposure modes to take a sequence of pictures at different exposures. When this function is set, the exposure is shifted (bracketed) for three successive pictures in the sequence: correct exposure → underexposure → overexposure. The bracketing amount can be set in 1/2-stop increments up to ±2 stops from the metered exposure value.
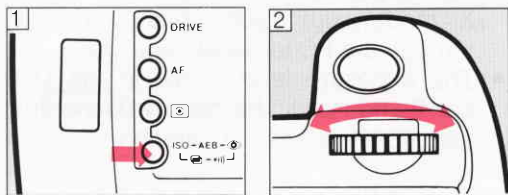
Auto exposure bracketing is particularly effective when using slide film, which produces noticeably different results with even small exposure variations.

- When this function is combined with continuous exposure (🖳) or high-speed continuous exposure (🖳ʜ), holding the shutter button pressed automatically takes three exposures in sequence while shifting the exposure for each picture.


1) Press the function button so that AEB appears in the LCD panel.
2) Turn the main dial to set the desired bracketing amount.
  * The bracketing amount is shown in the LCD panel as both a graphic level display and a numerical value. If "0.5" is set, for example, three pictures are taken in the following sequence: correct exposure (±0 stop), underexposure (-0.5 stop) and overexposure (+0.5 stop).
  * The bracketing amount is also displayed in the viewfinder.

45
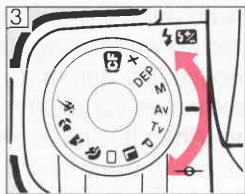
3) Set the command dial to the desired shooting mode and take pictures.

- To cancel auto exposure bracketing, repeat steps 1 and 2 to reset the bracketing amount to 0.
- Auto exposure bracketing is automatically canceled when the battery is replaced.
- Auto exposure bracketing cannot be used in bulb mode or when using flash.
- Auto exposure bracketing can be used in X mode with flash units connected through the PC terminal.
- The exposure level blinks in the LCD panel and viewfinder display during auto exposure bracketing operation.

If you wish to shift the bracketed exposure values toward over- or underexposure, you can add exposure compensation using the quick control dial. In this case the LCD panel may not display the correct values, but exposures will be made correctly.

Auto exposure bracketing is carried out in each mode as follows:
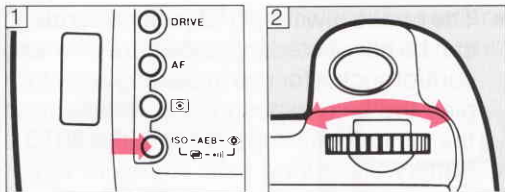**P:** Both the shutter speed and aperture value are shifted.
Av, DEP, M: Only the shutter speed is shifted.
Tv, X: Only the aperture value is shifted.

10. Multiple Exposure

Helpful Hints

When taking multiple exposures on a single frame, you should decrease the exposure value for each exposure using exposure compensation (refer to page 25).

Number of multiple exposures	Compensation amount
2 exposures	-1.0
3 exposures	-1.5
4 exposures	-2.0

The above values should be used only as a guide. The actual compensation amount required depends on the shooting conditions and should be determined by prior testing.

Up to nine exposures can be made on one frame by presetting the number of multiple exposures with the main dial.
1) Press the function button so that 🔳 appears in the LCD panel.
2) Turn the main dial to set the desired number of exposures in the frame counter display area.
3) Take pictures.

- 🔳 blinks in the LCD panel while multiple exposures are being taken.
- To cancel multiple exposure mode in mid-operation, repeat steps 1 and 2 to set the frame counter to a blank display.
- When the preset number of multiple exposures is completed, the film automatically advances to the next frame and multiple exposure mode is canceled.

11. Bulb (Long Exposure) Operation

Use this mode when long exposures are required, such as for pictures of night scenes and fireworks displays. The shutter stays open for as long as you press the shutter button.

Mount the camera on a tripod to prevent camera movement during exposure.

- The remote switch 60T3 (sold separately) can be connected to the camera's remote control socket for use in starting and stopping the bulb exposure. For details, read the instructions supplied with the 60T3.
- Battery life during bulb exposure is approximately 6 hours with a new battery.
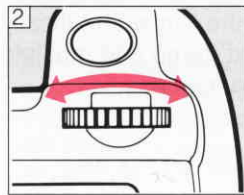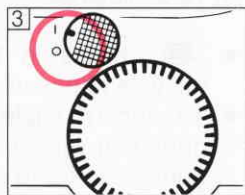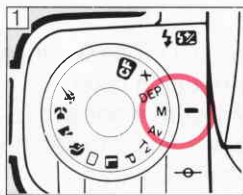
1) Set the command dial to M.
2) Turn the main dial to change the shutter speed until "buLb" appears in the LCD panel. "buLb" is the next position after 30".
3) Set the quick control dial switch to I , then turn the quick control dial to the desired aperture.
4) Press the shutter button for the desired length of time.
   * The viewfinder display extinguishes during the exposure.
   * The word "buLb" blinks in the LCD panel during the exposure.

When using the self-timer, place the camera on a tripod or a steady surface. The picture is taken approximately 10 seconds after you press the shutter button.
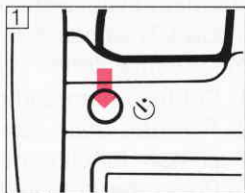
Pressing the shutter button with your eye away from the viewfinder may allow light to enter the viewfinder and trick the metering system into setting a wrong exposure. To prevent this from happening, remove the eye cup from the eyepiece and cover the eyepiece with the cover provided on the strap before pressing the shutter button.

1) Press the self-timer button.
   * ⏱ appears in the LCD panel.
2) Compose the picture and press the shutter button halfway to focus the subject and set the exposure.
3) Press the shutter button completely.
   * A beeper tone is heard and the picture is taken after a 10-second delay. The self-timer lamp starts blinking two seconds before the picture is taken.
4) When finished using the self-timer, press the self-timer button again to cancel the self-timer mode.
● Pressing the self-timer button before the picture is taken will cancel self-timer mode and stop the countdown.
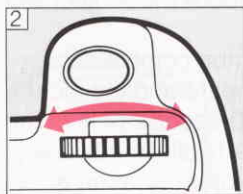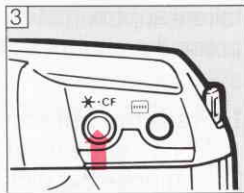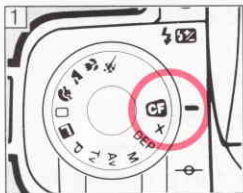
Sixteen types of custom functions are provided to let you customize the camera according to your personal preferences and shooting style. Set the custom functions as follows. The custom function only operates in the creative zone.

1) Set the command dial to **CF**.
2) Turn the main dial to select the desired custom function number.
3) Press the custom function set button to change the setting in the LCD panel to "1".
   *   To reset the selected custom function to the standard setting, press the custom function set button to change the number in the LCD panel to "0".
4) Turn the command dial to a position other than **CF**.
   *   "**CF**" is displayed in the LCD panel.

The number in the LCD panel alternates between 0 and 1 each time the custom function set button is pressed.
1: Sets the custom function to the custom setting.
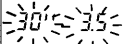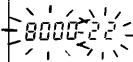0: Resets the custom function to the standard setting.

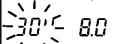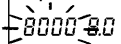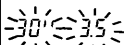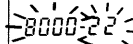## Custom Functions (when the number in the LCD panel is 1)

CF1:	Sets automatic film rewind to high-speed mode.	Film is rewound at approximately twice the speed of standard rewind mode.
CF2:	Leaves the film leader outside the cartridge after rewinding.	This function is useful if you develop your own film or plan to re-load partially-used film after rewinding in mid-roll.
CF3:	Cancels automatic film speed setting with DX-coded film.	Use this function when you wish to compensate the film speed or manually set effective film speeds obtained from independent testing.
CF4:	Switches the autofocus start function from the shutter button to the AE lock button.	When this function is set, autofocus will not start when the shutter button is pressed halfway. The AE lock button simultaneously locks the exposure setting and initiates autofocus. This custom function cannot be used together with CF6 or CF11.
CF5:	Changes single exposure operation to allow the next exposure only after the shutter button is fully returned to the off position.	Setting this function ensures that a fresh meter reading will be taken before each exposure.
CF6:	Changes the function of the AE lock button to temporarily stop autofocusing operation.	Use this function when you wish to temporarily fix the focus at a certain point when shooting sports or action with AI Servo AF. This custom function cannot be used together with CF4.
CF7:	Prohibits firing of the AF auxiliary light during autofocusing.	This function is useful to keep the AF auxiliary light from appearing in other people's pictures in situations where many people are taking pictures of the same scene.
CF8:	Prohibits cancellation of multiple exposure mode after a single frame.	Use this function when making multiple exposures on successive frames to keep from having to reset multiple exposure mode for every frame. To check the current frame number, keep the shutter button held pressed after the last exposure in a multiple exposure sequence.

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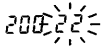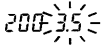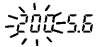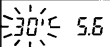
CF9:	Fixes the shutter speed at 1/200 sec when using flash.	When shooting indoors with flash in aperture-priority AE mode, the camera is likely to set a slow shutter speed which can result in blur caused by camera shake. This custom function prevents this from happening by fixing the shutter speed at 1/200 sec regardless of the lighting conditions.
CF10:	Prohibits superimposed AF frames in the viewfinder.	When a subject is focused, the AF frame used for focusing normally lights red in the viewfinder. Setting this custom function stops this from happening.
CF11:	Adds a depth-of-field check function to the AE lock button.	Setting this function lets you use the AE lock button to check the depth of field after the subject is focused and exposure is set. This custom function cannot be used together with CF4.
CF12:	Enables shooting with the mirror locked up.	When the shutter button is pressed completely in self-timer mode, the mirror moves up immediately and the picture is taken two seconds later.
CF13:	Cancels the metering timer function. · Except in DEP mode.	Setting this function cancels the timer which continues metering for six seconds after your finger is removed from the shutter button, thus saving battery power.
CF14:	Changes the sync timing of the built-in flash from first curtain sync to second curtain sync.	Flash firing synchronizes with the travel of the second shutter curtain, providing a more natural effect when using slow shutter speeds.
CF15:	Links spot metering to the selected AF frame. (only when the AF frame is selected by the user).	Setting this function lets you carry out spot metering at the same point as the selected AF frame, eliminating the need to change the scene composition during metering.
CF16:	Cancels automatic flash reduction control.	Setting this function cancels the automatic flash reduction control which normally operates with backlit subjects, thus preventing the underexposure which can occur with subjects backlit by a strong light source such as the afternoon sun.

• If both CF4 and CF6 are set, only CF4 is used.   • If both CF4 and CF11 are set, only CF4 is used.
• When CF12 has been selected, please do not point the camera towards the sunlight. (Scorching of the shutter blades can result.)

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Shooting mode	Blinking display warning		Meaning	Corrective action
P (Program AE)	30 3.5	Shutter speed 30" and maximum aperture of the lens in use.	Subject is too dark.	Use flash.
	8000 22	Shutter speed 8000 and minimum aperture of the lens in use.	Subject is too bright.	Use an ND filter.
Tv (Shutter-priority AE)	125 3.5	Maximum aperture of the lens in use.	Subject will be underexposed.	Turn the main dial to a slower shutter speed.
	125 22	Minimum aperture of the lens in use.	Subject will be overexposed.	Turn the main dial to a faster shutter speed.
Av (Aperture-priority AE)	30 8.0	Shutter speed 30".	Subject will be underexposed.	Turn the main dial to a larger aperture.
	8000 8.0	Shutter speed 8000.	Subject will be overexposed.	Turn the main dial to a smaller aperture.
DEP (Depth-of-field AE)	60 5.6	Calculated aperture value.	Desired depth of field cannot be obtained.	1) Move farther away from the subject and set the near and far points again. 2) When using a zoom lens, set to the wide-angle position.
	30 3.5	Shutter speed 30" and maximum aperture of the lens in use.	Subject is too dark.	Use flash. (Same result as using Program AE.)
	8000 22	Shutter speed 8000 and minimum aperture of the lens in use.	Subject is too bright.	Use an ND filter.

Exposure Warnings When Using Flash

Shooting mode	Blinking display warning		Meaning	Corrective action
P (Program AE)	⟶20022⟵	When using daylight fill-in flash, shutter speed 200 and minimum aperture of the lens in use.	Overall image will be overexposed.	Do not use flash.
Tv (Shutter-priority AE)	20022	Minimum aperture of the lens in use.	Overall image will be overexposed.	Do not use flash.
	20035	Maximum aperture of the lens in use.	Background will be underexposed.	Subject will be properly exposed.
Av (Aperture-priority AE)	⟶200⟵5.6	Shutter speed 200.	Overall image will be overexposed.	Turn the main dial to a smaller aperture.
	⟶30⟵ 5.6	Shutter speed 30".	Background will be underexposed.	Turn the main dial to a larger aperture.

2. Program Line Characteristics

This camera is equipped with advanced "Intelligent Program AE" which chooses the best shutter speed/aperture combinations taking the lens' focal length and minimum and maximum apertures into account. The following graphs show the program lines for a typical lens.

Program Characteristics

Colored solid line: When using the EF 50mm f/1.8
Black solid line: When using the EF 28~105mm f/3.5-4.5 at the 28mm position
Black dashed line: When using the EF 28~105mm f/3.5-4.5 at the 105mm position
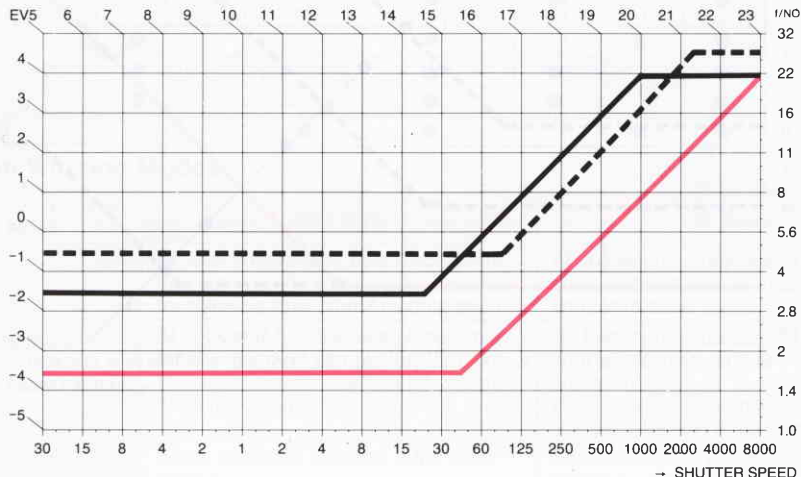
Program Shift Characteristics

*   ● indicates the shutter speed/aperture combinations with program shift.

(EF 50mm f1.8-example with shift at EV12)

→ SHUTTER SPEED
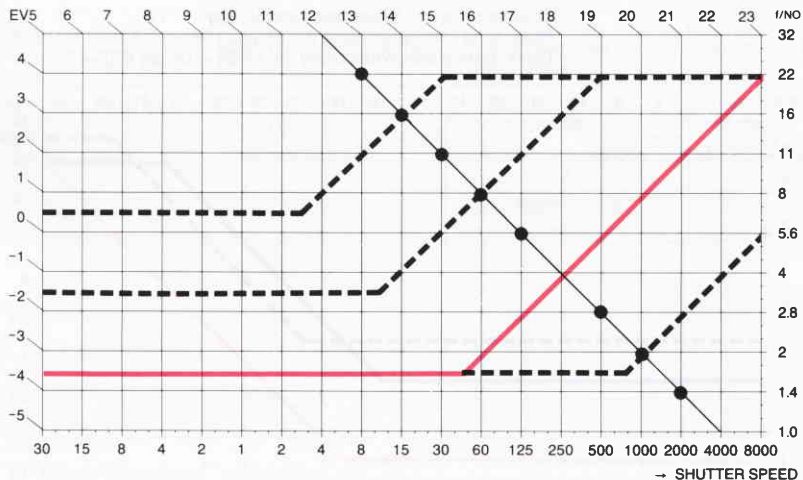
Image Zone Mode Function Combinations

Shooting mode	AF mode			AF focusing point selection	Film winding mode		Metering mode	Built-in flash	
	One-shot	AI Focus	AI Servo	Automatic	Single	Con-tinuous	Evalua-tive	Auto-firing	OFF
□ (Full Auto)		●		●	●		●		●
🐾 (Portrait)	●			●		●	●		●
🏔 (Landscape)	●			●	●		●		●
🌷 (Close-up)	●			●	●		●		●
🏃 (Sports)			●	●		●	●		●

AF and Film Winding Modes

AF mode / Film winding mode	One-shot	AI Servo
□ (Single)	AF lock and AE lock take place simultaneously on AF completion. The shutter releases only after AF completion.	AF follows the subject and the exposure is determined at the instant of shutter release.
🔁 (Continuous)	AF lock and AE lock take place simultaneously on AF completion, then continuous exposure is activated. (Approx. 3 fps maximum.)	AF follows the subject and the exposure is determined at the instant of shutter release. AF is adjusted during the exposure sequence to follow the subject. (Approx. 3 fps maximum.)
🔁ʜ (High-speed continuous)	Same as above. (Approx. 5 fps maximum.)	Same as above. (Approx. 3 fps maximum.)

The accessories described in this section are sold separately.

Vertical Grip (VG10)

This dedicated grip is equipped with a shutter button, AE lock button, main dial, AF focusing point selection button and handstrap (optional) optimally positioned for operation when holding the camera vertically.

Speedlite 430EZ

This professional flash unit is designed with advanced features and a powerful guide number of 141-ft/43-meters (at ISO 100). Three types of external battery packs are available for situations requiring extended flash shooting. The 430EZ utilizes A-TTL program control for easy handling of a wide variety of photo situations and fill-in flash. A built-in flash exposure compensation function lets you adjust the flash output independently from the camera for total lighting control. Other features include stroboscopic flash which can fire the flash up to 10 times per second, second curtain sync for a natural flowing effect with slow-shutter flash shots, slow synchronization and bounce flash.

Focusing Screens

Six interchangeable focusing screens are available to suit various applications. Each comes with a special tool for simple installation.

* This camera is originally equipped with the Standard Matte Screen.

(1) Standard Matte Screen (Ed-N)

Used for general shooting with all lenses.

(2) Screen with Focusing Sensor Marks (Ed-O)

Used for general shooting with all lenses. Contains marks corresponding to the shape of the focusing sensors.

(3) Matte Screen with Grid (Ed-D)

Used for general shooting with all lenses. Contains grid lines for aiding composition. Useful for copying work using macro lenses.

(4) Matte Screen with Scale (Ed-H)
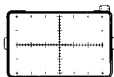
Used for close-up shooting, enlarging and microphotography. Scales provided at the center and edges are useful for determining composition and magnification. Usable with all lenses.

(5) All Matte Screen (Ed-C)

Used for general shooting with all lenses.

The surface of each focusing screen is processed with an extremely high-precision finish. Do not touch the screen with your fingers. When exchanging screens, use the special tool provided with the screen. For details, read the instructions supplied with the screen.

Cases

Keep the camera in its case to protect it while carrying.

Canon offers two special semi-hard cases designed for use with this camera.

Semi-hard Case L (EH7-L): For camera body and EF 35~80mm f/4.5-5.6U or EF 35~105mm f/4.5-5.6U zoom lens.

Semi-hard Case LL (EH7-LL): For camera body and EF 28~105mm f/3.5-4.5U, EF 28~80mm f/3.5-5.6U or EF 35~135mm f/4-5.6U zoom lens.

Dioptric Adjustment Lenses

Attaching a Dioptric Adjustment Lens E to the viewfinder eyepiece makes viewing and focusing easier without glasses for near- and far-sighted users. The built-in viewfinder eyepiece has a power of −1 diopter, and ten eyesight correction lenses are available for adjustment from +3 to −4 diopters. Choose the one which is closest to your eyeglass prescription. We recommend that you actually try the lens before purchasing to make sure you get the one which is best for your eyesight.

A special adapter (sold separately: RUBBER FRAME Ed) is necessary for attachment to this camera.

- A total diopter adjustment range of −5.2 to +5.3 dpt is possible when using the Diopter Adjustment Lenses E with the camera's built-in dioptric adjustment function.
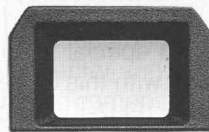
Remote Switch 60T3

This switch connects to the camera's 3-pin remote control socket and allows you to take pictures by pressing the remote switch instead of the camera's shutter button. This is useful for situations where camera shake is likely to occur, such as during close-up photography or when using a super-telephoto lens. Combine with the Extension Cord 1000T3 (extension length: 10 meters/33 feet, sold separately) for taking pictures at a distance from the camera.
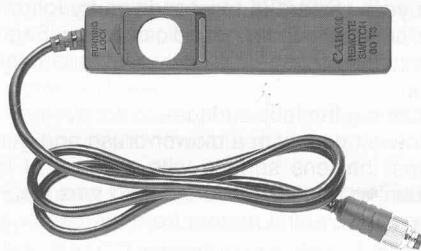
Angle Finder B

The Angle Finder B makes viewing easier for many scientific, copying and close-up photography applications. A special adapter (sold separately: ADAPTER Ed) is necessary for attachment to this camera.

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■ Cleaning

Keep your camera in top condition by following these suggestions for periodic cleaning. See the precautions on page 7 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 **do not** 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 cleaning fluid. Be careful not to touch the shutter curtain.
* Use of aerosol spray dust removers is not recommended.

■ Liquid Crystal Display/Battery Notes
1) LCD Information

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 of around 140°F/60°C. The LCD panel will return when the temperature returns to normal.

2) Blinking Empty Battery Indicator

There are two situations in which the blinking empty battery indicator will appear in the LCD panel: (1) when the battery is nearly exhausted or (2) when the camera's self-test process detects an internal malfunction. If the blinking empty battery indicator appears, perform the following operations:

1. Remove the battery, wipe the battery terminals and reload it. Check the battery again. If the blinking still appears, replace the battery with a new one.

2. Release the shutter once.
   If the battery indicator stops blinking, the problem is corrected and you can continue using the camera normally. If the blinking does not stop, the camera needs to be examined by an authorized Canon service facility.

3) Lithium Battery Information
Always check the battery at the following times:
1. When loading a new battery
2. After lengthy storage
3. If the shutter will not release
4. In cold weather
5. Before an important shooting assignment

Battery Use Information
- Wipe the battery terminals with a clean, dry cloth to ensure proper contact.
- 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.

- 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.
- Remove the battery if you do not expect to use the camera for more than three weeks.

4) Camera Operation with a Low Battery
Even if the battery indicator 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 winding or rewinding stops due to the battery, the film cartridge symbol will blink. Film transport resumes after a new battery is loaded and the film rewind button pressed.

TYPE AND MAJOR COMPONENTS

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

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

Usable Lenses: Canon EF lenses

Viewfinder: Fixed eye-level pentaprism. Gives 92% vertical and 94% horizontal coverage of actual picture area and 0.73x magnification with 50mm lens at infinity.

LCD Panel: Displays necessary information including frame counter, AF mode, film winding mode, metering mode, shutter speed, aperture value, film speed, battery condition and exposure compensation.

Dioptric Adjustment: Built-in eyepiece is adjusted to −1 diopter (eyepoint: 20 mm). Built-in dioptric adjustment knob allows further adjustment from −2.75 dpt to +0.75 dpt.

Focusing Screen: Interchangeable, overall matte screen with AF frames.

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

Shutter Speed: 1/8000 ~ 30 sec. and bulb. Maximum X-sync speed: 1/200 sec.

AUTOFOCUS

AF Control System: TTL-SIR (Secondary Image Registration) phase detection type using Cross-type BASIS (Base-Stored Image Sensor). Two autofocus modes available: One-shot AF and AI Servo AF. Manual focusing also possible.

Focusing Point: Five focusing points provided. Focusing point set automatically by camera, or manually by user.

AF Working Range: EV 0 ~ 18 at ISO 100.

AF Auxiliary Light: Automatically projected when necessary. Operation linked to focusing points.

EXPOSURE CONTROL

Light Metering: TTL full-aperture metering using a 16-zone SPC (silicon photocell). Three metering modes available: evaluative metering, spot metering (covers approx. 3.5% of the central picture area) and center-weighted average metering. (Stop-down metering not possible.)

Metering Range: EV 0 to 20 with 50mm f/1.4 lens at ISO 100 (normal temperature).

Shooting Modes:
1. **Program AE**
2. **Shutter-priority AE**
3. **Aperture-priority AE**
4. **Depth-of-field AE**
5. **Full Auto**
6. **Programmed Image Control** (Portrait, Landscape, Close-up, Sports)
7. **Flash AE** (A-TTL or TTL program flash AE with built-in flash or dedicated speedlite)
8. **X (Flash sync mode)**
9. **Manual exposure**

Camera Shake Warning: Operates in Full Auto and Programmed Image Control modes. Beeper beeps at 2 Hz when automatically-set shutter speed becomes 0 to 0.5 stops slower than "1/focal length of the lens in use."

Multiple Exposures: Up to nine exposures can be preset.

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

Auto Exposure Bracketing: ±2 stops in 1/2-stop increments. Three continuous exposures are taken in sequence: one at the standard metered value, one under, and one over.

FILM TRANSPORT

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

Film Loading: Automatic. Film automatically advances to first frame when back cover is closed.

Film Wind: Automatic using dedicated miniature motor. Three modes are available: single exposure, continuous exposure (3 fps maximum) and high-speed continuous exposure (5 fps maximum).

Film Rewind: Automatic rewind at end of roll using dedicated miniature motor.

OTHER

Self-timer: Electronically controlled with 10-second delay.

Custom Function Control: Sixteen built-in custom functions selectable by user.

POWER SOURCE

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

Battery Check: Battery automatically checked when command dial moved to position other than "L". Battery condition indicator displayed on LCD panel.

SIZE

Dimensions: 154 (W) × 120.5 (H) × 74.2 (D) mm 6-1/16" (W) × 4-3/4" (H) × 2-15/16" (D)

Weight: 664 gr/23.4 oz without battery (body only)

BUILT-IN FLASH

Type: Retractable type TTL automatic zoom flash housed in pentaprism. Bypass control system.

Guide Number (ISO 100, m): 13 (28mm) to 17 (80mm)

Flash Coverage Angle: Automatically zooms to cover the field of view of 28mm, 50mm and 80mm focal lengths.

Recycling Time: Approx. 2 sec.

Flash Control Aperture: Automatically set by TTL program in program modes. Manually set by user in aperture-priority AE, manual exposure and X modes. Automatically set according to ambient light conditions and manually-set shutter in shutter-priority AE mode.

X-sync Shutter Speed: Automatically set to 1/60~1/200 sec in program modes according to TTL flash AE program. Automatically set to 30~1/200 sec in aperture-priority AE mode according to ambient light conditions. Manually set to 1/200 sec or slower in shutter-priority AE and manual exposure modes. Manually set to 1/60, 1/90, 1/125 or 1/200 sec in X mode.

Flash Contacts: X-sync contact. Directly coupled contacts provided on accessory shoe.

All data based on Canon's Standard Test Method. Subject to change without notice.

Eye Cup

Viewfinder Eyepiece

Film Winding Mode Button

AF Mode Button

Film Check Window

Metering Mode Button

Function Button

Back Cover

Tripod Socket/Vertical Grip Socket

Quick Control Dial Switch

Quick Control Dial

AE Lock/Custom Function Set Button

AF Focusing Point Selection Button

Film Rewind Button

3-pin Remote Control Socket

Vertical Grip Positioning Hole

Vertical Grip Connector Cover