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Canon 110ED 20



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E INSTRUCTIONS

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Canon 110 ED 20

The Canon 110 ED 20 is an improved version of 110 ED which won popularity as the best pocket-size camera. With its bright lens, date imprinting mechanism and other remarkable features, the 110 ED 20 will give you the fine resolution of photos. Please read the instructions carefully before using the camera to become acquainted with its many features.

Specifications

Lens: Canon 26mm f/2 lens, with 5 elements in 4 groups.

Focusing: Rectilinear movement of the lens coupled to double image rangefinder.

Automatic Exposure Range: EV 1 (f/2, 2 sec.) to EV 18 (f/16, 1/1000 sec.)

Distance Scale:	ft.	2	3	10	30	∞
	m	0.6	1	3	10	

Shutter: Electronic shutter; 2 sec. – 1/1000 sec.
Shutter safety lock mechanism warning battery exhaustion. Mechanical shutter; 1/125 sec., operated only when the battery chamber cover is removed.

Automatic Flash Mechanism: Automatic flash photography with Canolite ED. The shutter

Viewfinder Information: Rangefinder, field-of-view frame with two different parallax correction marks (1m and 0.6m), overexposure warning lamp (red lamp to the right of the picture frame) and camera shake warning lamp/battery checker/mechanical shutter release signal (yellow lamp to the left of the picture frame), display of date set (appears when the shutter button is pressed half way if the date switch is on).

Film Winding: Single stroke film advance.

Film Loading: Cartridge insertion.

Back Cover Opening: By sliding the knob on the body's back.

Protector Cover: Sliding the cover on the front of the body. Shutter button safety lock mechanism.

Hot Shoe: With direct flash contact.

Aperture Scale: f/2 f/4 f/8 f/16



Power Source: 6V silver oxide battery, Eveready 544 or Mallory PX28.

Date Mechanism: Date imprinting mechanism. Date is set with the date switch and dials on the left side of the camera.

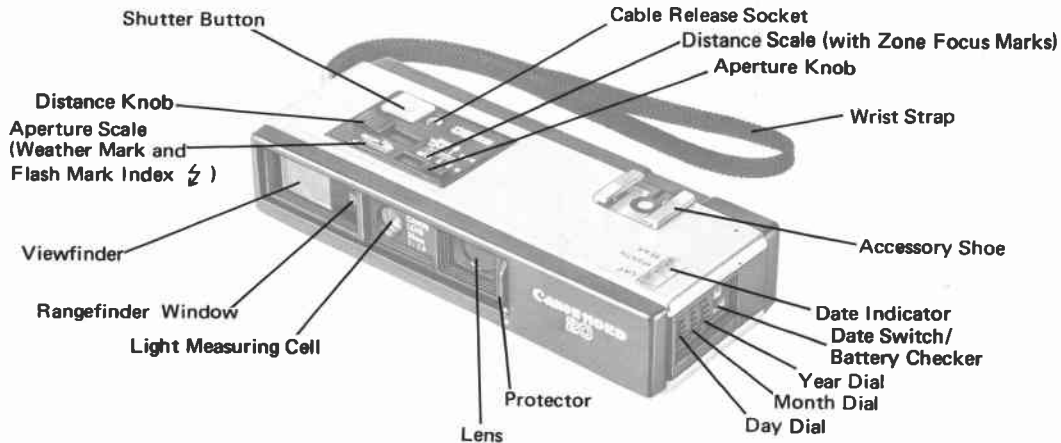
Date Indications: Year; 0, 1-9, 78-88 and ■ (blank)
Month; 0, 1-12 and ■ Day; 0, 1-31 and ■

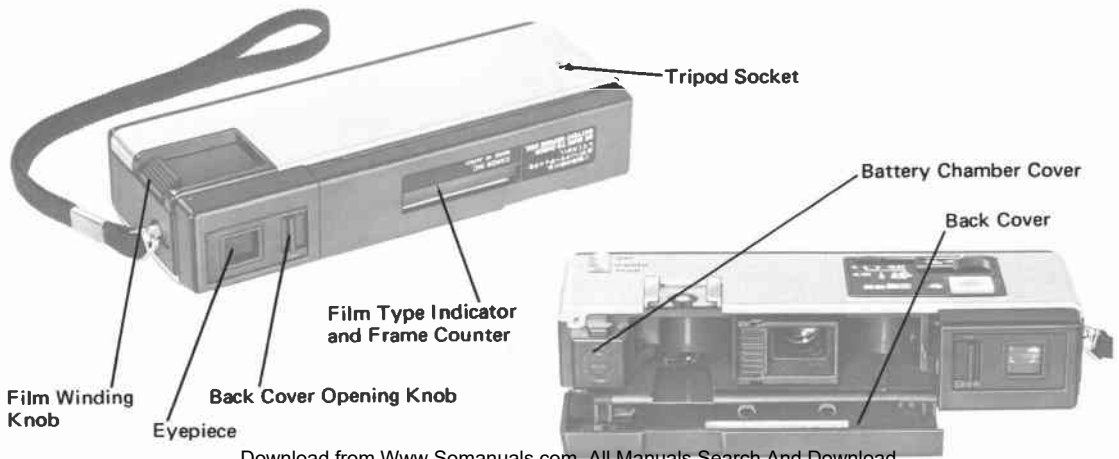
Film Speed: ASA 80 and ASA 400.

Dimensions and Weight: 142 (Width) x 55.5 (Depth) x 28.8 (Height)mm (5-9/16" x 2-3/16" x 1-1/8"), 340g (12 ozs.)

Accessories: Canolite ED, Speedlite Extender, Soft Case, Releases 30, 50, Selftimer 8, Close-up Lens

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Tripod Socket

Battery Chamber Cover

Back Cover

**Film Type Indicator
and Frame Counter**

Back Cover Opening Knob

Eyepiece

**Film Winding
Knob**

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Load the Battery

- 1 Press the knob for opening the back cover in the direction of the arrow and open the back cover.
 - 2 Pull the battery chamber cover towards you.
 - 3 Insert the battery according to the diagram shown inside the back cover. Check to insure that the poles are in their correct positions.
 - 4 Replace the battery chamber cover.
- Since cold weather (below -10°C or 14°F) affects batteries, hold the camera close to your body until just before using it to keep it warm.



Battery Check

Slide down the date switch on the side of the body to "ON". Look into the viewfinder while pressing down the switch. If the yellow lamp on the left lights up, the battery has sufficient voltage. Use a silver oxide battery; either an Eveready 544 or Mallory PX 28 (6V).

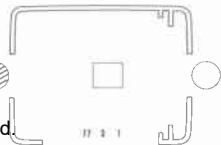
- When the battery is exhausted, the film winding knob will be locked and the shutter can not be released. Replace the battery or switch over to the mechanical shutter.

- After removing the battery chamber cover, the electronic shutter is switched over to the mechanical shutter (1/125 sec.) automatically.



Manual photography is possible under the ordinary outdoor conditions by setting to the proper aperture. Date imprinting can not be used.

Battery Checker/
Camera Shake
Warning Lamp





Insert the Film Cartridge

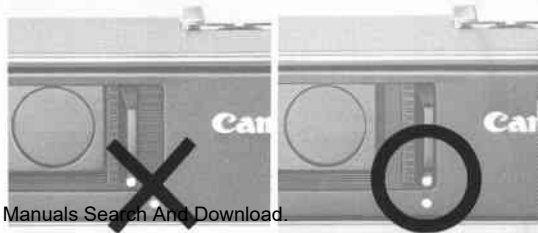
- 1 Open the back cover by sliding the knob on the body's back, and insert the film cartridge as shown in the photograph.
 - 2 Press the back cover closed.
- The switching of film speed is done automatically by the cartridge.

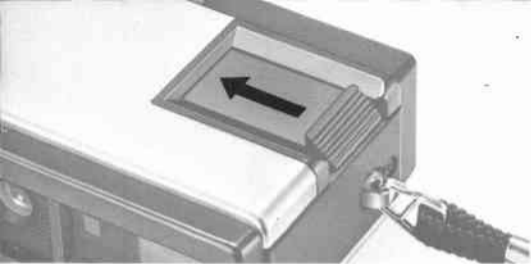


Open the Protector

Open the protector aligning the white dot on the cover with the one on the body.

● Unless the protector is opened completely, the shutter will not release.

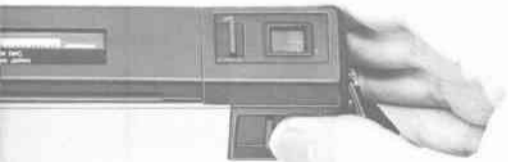




Wind the Film

Slide the winding knob completely in the direction of the arrow. Press the shutter button and winding the film repeatedly until "1" appears in the frame counter.

- If the winding knob does not move, press the shutter button, and then wind the film.



Set the Date

- 1 Set the desired date by turning the three date dials on the left side of the body while looking at the date indicator. The date offers the following sets of numbers.
YEAR 0, 1-9, 78-88, ■ (blank)
MONTH 0, 1-12, ■
DAY 0, 1-31, ■
- 2 Slide down the date switch to "ON".
- 3 When pressing the shutter button lightly while looking into viewfinder, the date is displayed below the picture frame. (The display does not appear unless the date switch





DAY

MONTH

YEAR

is "ON" and the film is wound.)

- The date will be imprinted on the bottom right corner of the picture with the year, month and day appearing from left to right.
- The ■ mark indicated that nothing will be imprinted on the photograph. If date imprinting is not desired, turn off the date switch or set all dials to the ■ marks.
- To prevent blurred date imprinting, continue pressing the shutter button for at least half of a second after releasing the shutter. Then, once the shutter button has completely risen, wind the film.
- To even the row of numbers, adjust the date dials.

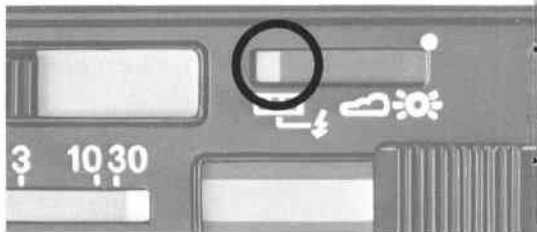
Set the Aperture Scale (Weather Mark)

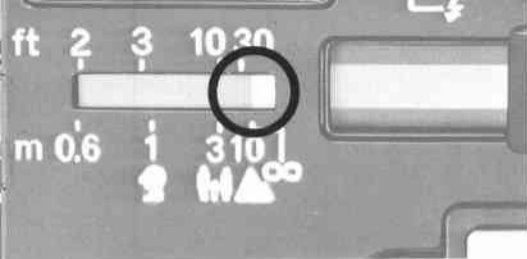
Move the aperture knob and set the aperture scale to the indicated position most appropriate to the shooting conditions.

indoor (f/2) cloudy (f/4) bright sky (f/8) (f/16)



● For close-up photography such as copy work, set the aperture scale to ☁ or ☀. In a dark room, use additional light.





Set the Distance Scale

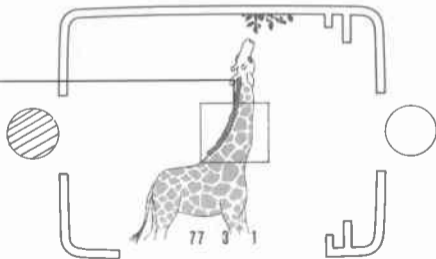
While looking into the viewfinder, slide the distance knob to coincide the two images of the subject.



Out of focus



In focus

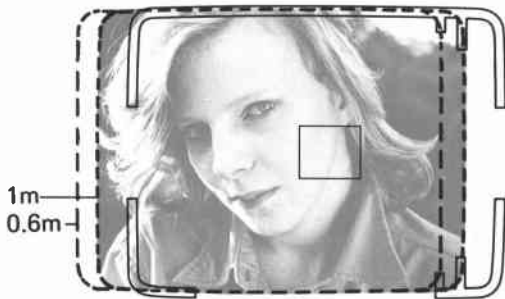


Compose the Picture

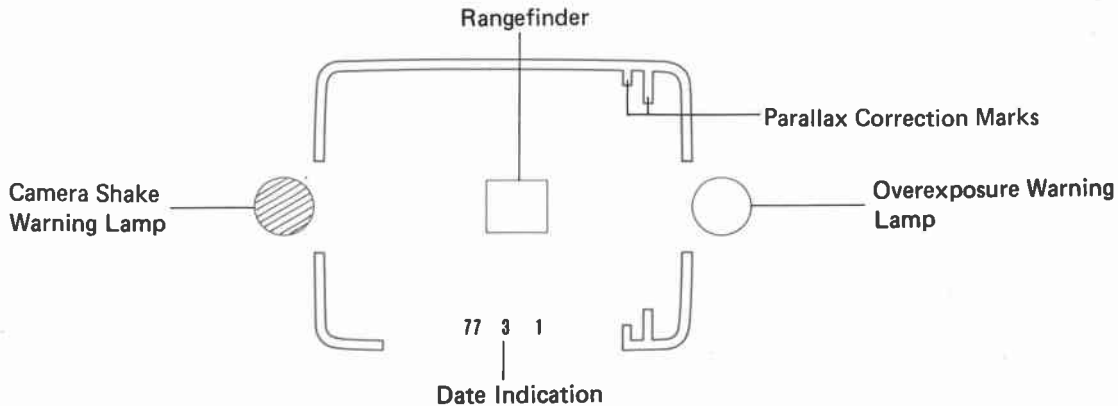
Look into the viewfinder and compose the picture.

- When photographing at a distance closer than 1m, compose the picture in the parallax correction marks with a slight bias to the left so that part of the subject overlaps the left-hand side of the parallax marks.

- When photographing at a distance closer than 0.6m, attach the Close-up Lens 110 to the camera.



Picture Area of Close-Up Photography



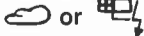
Press the Shutter Button

Look into the viewfinder and press the shutter button gently.

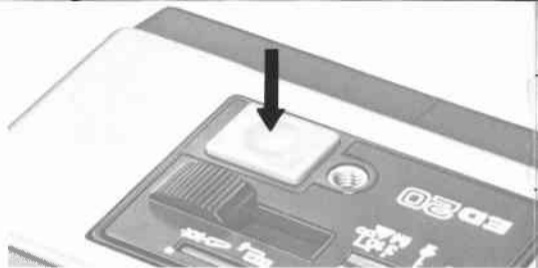
- Hold the camera firmly to prevent a blurred picture.

- When you press the shutter button and a red lamp lights up at the right side of the viewfinder, it indicates overexposure. Reset the aperture knob to a brighter position ($\geq 0 \leq$ or \bullet).

- When a yellow lamp goes on at the left side of the viewfinder, this is a warning against slow shutter speeds causing camera shake because it is not bright enough. Reset the aperture scale to



and use a tripod or switch over to



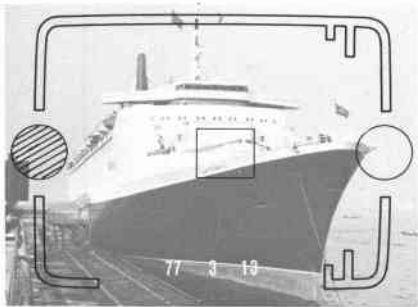
flash photography.

- For long exposures, continue pressing the shutter button until the yellow lamp goes out. Exposures of up to 2 seconds are guaranteed, although exposures greater than 2 seconds may occur under very dim

conditions.


Take the Film Cartridge Out

- 1 After you take the last photograph, wind the film until the film winding knob will not move, to prevent unintentional exposure of the film.
- 2 Open the back cover and take the cartridge out of the camera.



Automatic Flash Photography

If you use Canon's special electronic flash, the Canolite ED, flash photography is as simple as AE photography.

- 1 Attach the Canolite ED to the accessory shoe of the camera.
- 2 Set the aperture scale to .
- 3 Switch the Canolite ED on and make sure the neon lamp lights up.
- 4 Set the distance scale. (Proper distances are 0.8–5m for ASA 80–100 and 1.5–12m for ASA 400.)
- 5 Look into the viewfinder and press the shutter button.





- Be sure to remove the Canolite ED or other flash unit and extender, when not performing flash photography. If the flash remains attached on the camera, the exposure of AE photography will be incorrect.

- Electronic flash units of other makes can be used as long as they have direct contact accessory shoes and a guide number of 14(m). Be sure to set the switch at the manual position.

- When taking flash pictures with a pocket-size camera, light is often reflected off the retinas of fair-complected people so that they appear to have red pupils in photos. To avoid this phenomenon, attach the Canon Speedlite Extender between the camera and the flash.

Holding the Camera

- 1 Hold the camera firmly with both hands.
- 2 When the camera is in a horizontal position, both elbows should be firmly pressed against the body. When the camera is in a vertical position, at least one elbow should be pressed against the body.
- 3 To reduce camera shake, trip the shutter button by trying to gently press together your index finger and thumb while your index finger is on the shutter button and your thumb is on the bottom of the camera.



Care of the Camera

- 1 Do not leave the camera in direct sunlight or in hot places. The rear window of an automobile or inside the trunk can become hot. Be careful because the heat would damage your camera.
- 2 Select a dry place, with a normal temperature to store your camera.
- 3 When the camera will not be in use for a long time, remove the battery. If it is left inside the camera for long, battery leakage may damage the camera's battery contact.
- 4 Do not touch the camera's lens when handling it. If a finger print were left on the lens, wipe gently with lens tissue and a little lens cleaner. Dust should be blown off with a blower.
- 5 Salt and sand will affect your camera. After using the camera on the seaside, wipe it carefully.
- 6 As with any precision, shock and vibration should be avoided.

Canon

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