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Canon EX

INSTRUCTIONS



50mm Standard Lens

Depth-of-Field Scale
(for 50mm Standard Lens)

White Index

Focusing Ring

Self-Timer Lever

Distance Scale
(for 50mm Standard Lens)

Film Speed
Set Ring

ASA Film
Speed Scale

Shutter
Release
Button

Frame Counter

Aperture Control
Ring

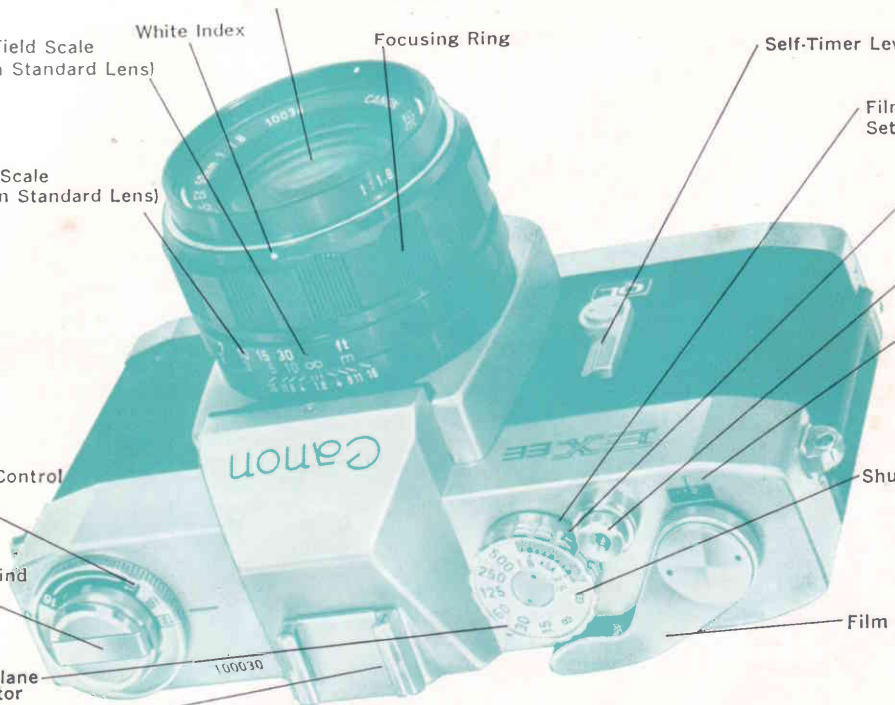
Shutter Speed Dial

Film Rewind
Crank

Film Plane
Indicator

Film Advance Lever

Accessory Shoe



Technical Data

- **Type:** 35mm single-lens reflex camera with Electric Eye.
- **Lens:** Front component convertible type with thread mount. EX 50mm F 1.8 (standard), EX 35mm F 3.5 (wide-angle), EX 95mm F 3.5 (telephoto) and EX 125mm F 3.5 (telephoto).
- **Viewfinder:** Eye-level using pentagonal prism. Aerial image type. 50mm lens has magnification of 0.9x. Combined with microprism screen rangefinder. Contains exposure indicator, f/stop scale and over/under exposure warning marks. Waist-Level Viewer 2 can be attached.
- **Mirror:** Shockless quick return system.
- **Shutter:** Cloth focal-plane shutter with speeds from 1/500 to 1/8 sec. and B. X contact at 1/60 sec. Single pivot dial.
- **Electric Eye Mechanism:** Fully coupled to film speed, shutter speed dial and aperture setting. Shutter speed priority system. Diaphragm closes down to proper f/stop by depressing shutter release button. With F 1.8 lens, ASA 25-800. With F 3.5 lens, ASA 25-500. Film speed is set by turning film speed set ring at index of lens to be used. With ASA 100 film, EV 4.7 (f/1.8 at 1/8 sec.)—EV 17 (f/16 at 1/500 sec.). Powered by one 1.3v M20 (#625) mercury battery.
- **Light Measurement:** Through-the-lens (TTL) system. CdS photocell just above the eyepiece measures light passing through taking lens in fully opened condition. Measures total picture area with emphasizing higher sensitivity at central section.
- **Manual Control of Aperture:** Pre-set possible at any desired f/stop by releasing EE mechanism and turning the aperture control ring.
- **Flash Synchronization:** X contact. Synchronizing possible for FP, M and MF flash bulbs and electronic flash units.
- **Film Rewinding:** By button and crank.
- **Film Advance Lever:** 174° single operation. Possible to wind with several short strokes.
- **Self-Timer:** Built-in. Charged self-timer starts to actuate by depressing shutter release button.
- **Film Loading:** By opening back cover. Back cover lock released by pulling up film rewind crank. Accepts any 35mm film roll in cartridge. QL mechanism for quick loading of film.
- **Frame Counter:** Self-resetting.
- **Size:** 143 x 92 x 84mm (5⁵/₈" x 3⁵/₈" x 3¹/₄").
- **Weight:** 900 grams (1 lb. 15³/₄ oz.)—with 50mm standard lens.

Subject to alterations.

We are highly gratified that you have selected the Canon EX EE—a wise choice that promises you many delightful years of photographic experiences. Canon is recognized the world over as the foremost pioneer in the development of photographic equipment of the highest quality and performance. Whether your new EX EE is for the home or for traveling, make the most of your opportunities!

Before Using . . .

Please read this instruction booklet carefully, and master the manipulations of the various parts of the EX EE completely. Once thoroughly versed in the correct handling of this camera, you can use the Canon EX EE to the fullest extent of its capabilities.

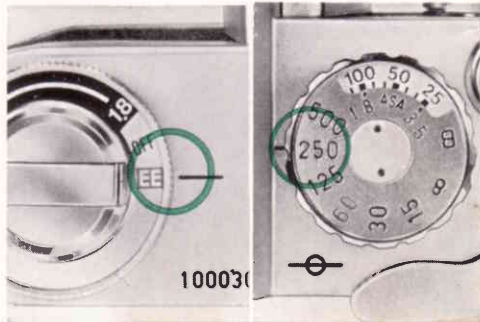
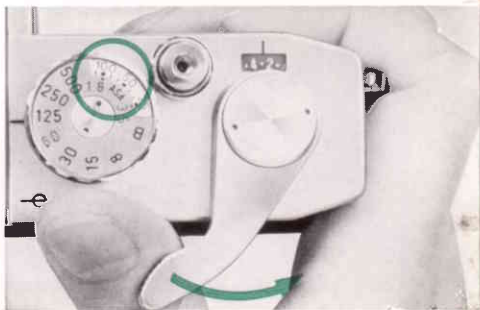
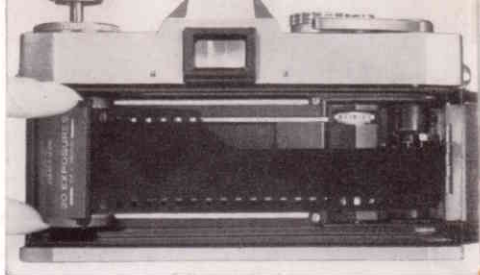


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Follow these simple steps for normal photography with Electric Eye:

- 1** Load the film simply with the QL mechanism.
- 2** Set the ASA film speed to the index of the lens to be used.
- 3** Wind the film advance lever.
- 4** Turn the aperture control ring to "EE".
- 5** Select your desired shutter speed.





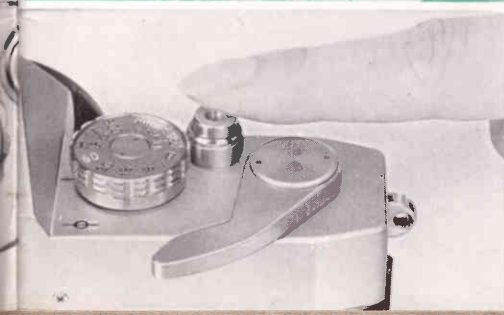
6 Remove the lens cap.



7 Look through the viewfinder and focus.

8 Compose the picture.

9 Check whether the exposure indicator is within the proper range.



10 Depress the shutter release button gently.

Mercury Battery Loading and Checking

Before using your Canon EX EE, load it with the mercury battery packed in a separate envelope. The Electric Eye functions only when the battery is properly loaded.

- 1 Insert a coin into the groove of the battery compartment cover and turn to the left to remove.
- 2 Face the central contact of the mercury battery inwards and insert.
- 3 Replace the cover by turning it to the right.

■ Before inserting, wipe all battery poles clean of fingerprints or stains with a dry cloth. Unclean poles may cause corrosion and damage the contact points of the camera.

■ A 1.3v M20 (# 625) mercury battery should be used—equivalent to Mallory PX-625, Eveready EPX-625.

■ Be sure to insert the battery in the correct direction by referring to the diagram on the compartment cover. Otherwise, the Electric Eye will not function properly and the cover cannot be screwed in.

■ When the camera is not used for a long period, remove the mercury battery and keep in a dry place.





Battery Check

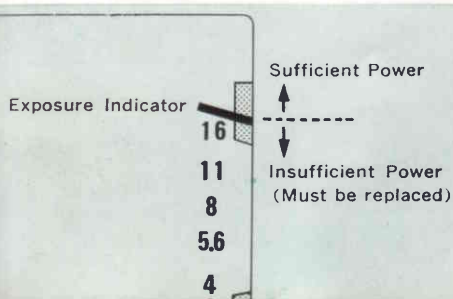
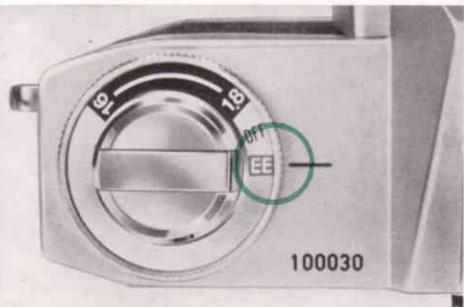
To check the power level of the mercury battery :

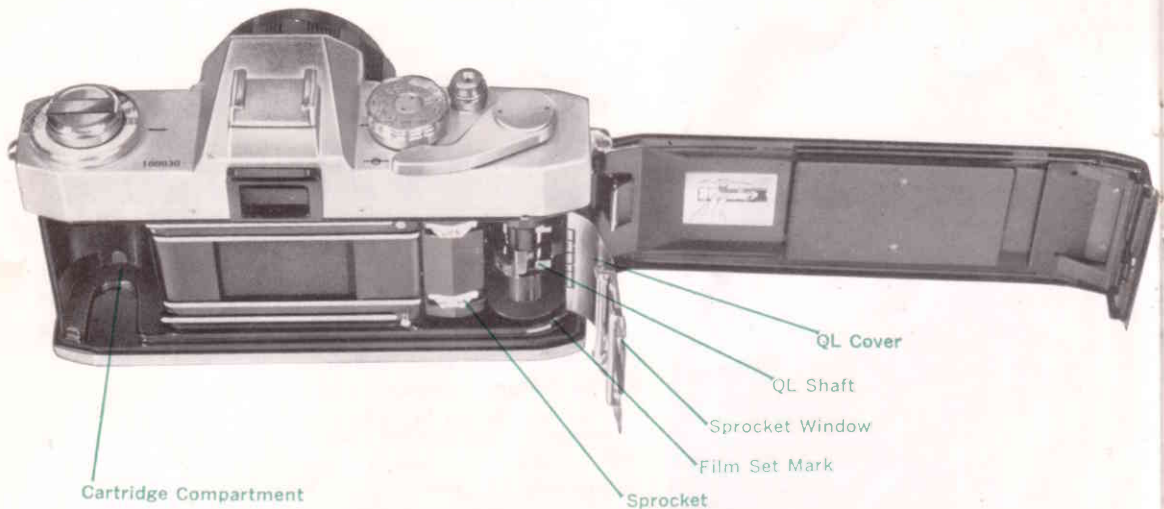
1 Set the film speed scale at ASA 100, the shutter speed dial at the "30" index. For the film speed setting, lift up the outer ring of the shutter speed dial and turn.

2 Turn the aperture control ring to "EE" and aim the camera at the sky or other bright subject. If the exposure indicator inside the viewfinder swings up to or over the "16" index, the battery has sufficient power. Otherwise, the battery must be replaced.

■ Life of the battery in normal use is approximately one year. It is advisable to replace the battery when one year passes after loading.

■ The battery releases current only when the aperture control ring is set at "EE".





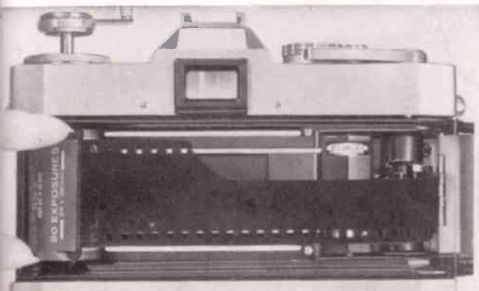
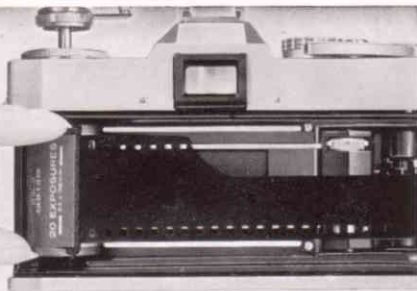
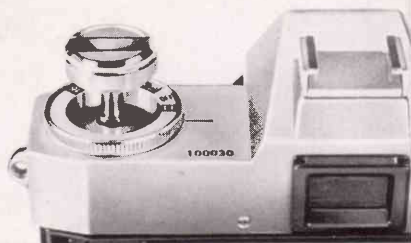
Direction in which film is placed
(emulsified surface facing the back of the lens)



Film Loading

The Canon EX EE accepts any standard 35mm film roll in cartridge for daylight loading. When loading a new film, always avoid direct sunlight.

- 1** Raise the film rewind crank and pull it all the way up. The cover will rise slightly.
- 2** Open the cover fully. When the back cover is opened, the QL cover opens simultaneously.
 - The QL cover automatically opens and closes with the back cover. Do not touch the QL cover.
- 3** Face the film cartridge as illustrated, and insert it into the cartridge compartment. Push the crank back to its former position again. The crank fork will slip into the axis of the film cartridge. In case the crank does not fully return, turn it slightly to the left or right.
- 4** Hold the film cartridge down with the left hand so that it does not rise, and lay the tip of the leader above the "red" film set mark.



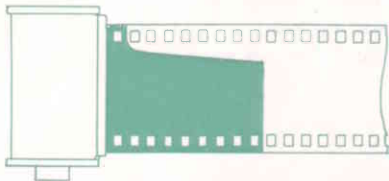
5 Bring down the QL cover to hold the film in place by closing the back cover. Look through the sprocket window to see if the film is correctly engaged on the sprocket.

6 Close the back cover by pressing down on the cover.

■ If the film is sagging, the cartridge will rise and the back cover will not close.

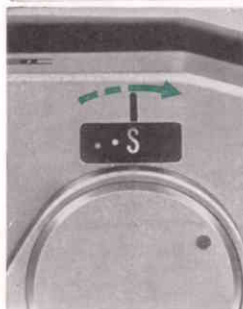
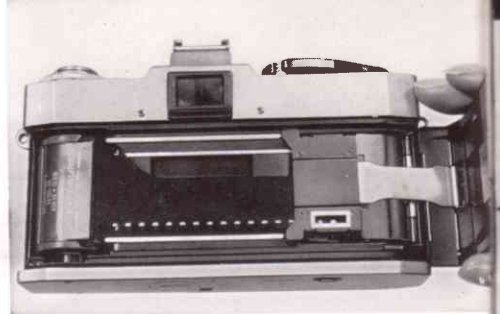
7 Leave the lens cap on and make three blank shots, each time turning the film advance lever. The frame counter will advance from the "S" mark to "0". With one more advance, the camera will be ready for the first shot.

■ When repacking a long-wound film for darkroom loading into an ordinary cartridge, be sure to trim the tip of the leader between perforations.



Checking Correct Film Loading

The film is properly loaded and advanced if the film rewind crank rotates when you wind the film advance lever. If the rewind crank does not rotate, take out the film, as explained on the following page, and reload.



Film Winding



The film advance lever winds the film, cocks the shutter, and prepares the mirror for the next shutter release all in one motion.

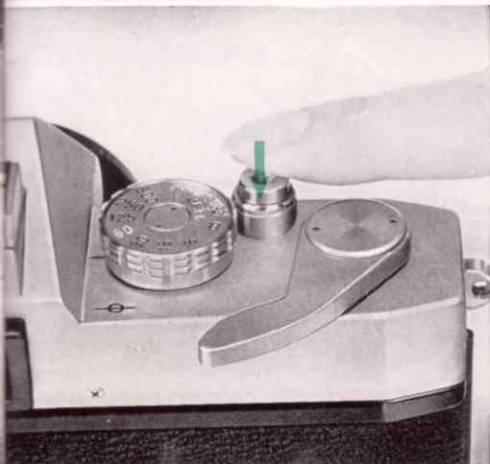
1 Turn the film advance lever until it stops. The film will be advanced one frame and the shutter cocked. The frame counter is simultaneously advanced to the next number.

2 When the shutter release button is depressed, the mirror flips up, the diaphragm simultaneously closes down to the proper f/stop (in case of manual control, to the pre-set f/stop) and the shutter operates. After the shutter is operated, the advance lever can be wound for the next frame.

- Winding may be done by moving the lever with several short strokes.
- After loading the film, make another wind, since the first winding may not be completed.
- The shutter will not function when depressing the shutter release button unless the winding is completed. In such a case, check the winding once more.

Frame Counter

Each winding will advance the number of the frame counter, indicating the number of pictures taken. When the back cover is opened, the indicator automatically returns to starting position "S".



Film Speed Setting

When loading the film, be sure to set the film speed scale at the proper position.

Lift the film speed set ring around the shutter speed dial, and match the proper ASA film speed number with the index of the lens to be used. If the film is ASA 100 and lens being used is the 50mm F 1.8 for example, make the correct setting by matching "100" with the "1.8" index.

The setting should be adjusted whenever replacing the lens with a different lens speed. Otherwise, the proper exposure cannot be obtained.

■ ASA 25-800 with the 50mm F 1.8 lens, and ASA 25-500 with the 35mm, 95mm or 125mm F 3.5 lens, may be used.

ASA 25 · · 50 · · 100 · · 200 · · 400 · · 800

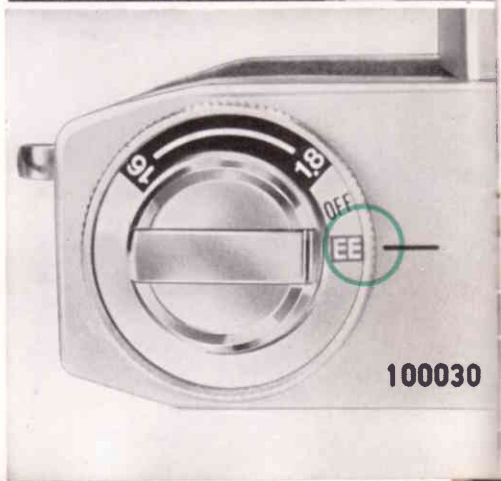
(32) (40) (64) (80) (125) (160) (250) (320) (500) (640)

Figures in parentheses represent intermediate film speeds.

Photography with Electric Eye

For taking pictures with Electric Eye, set the aperture control ring at "EE".

■ The Electric Eye is fully coupled to the ASA film speed, the shutter speed and the aperture. The diaphragm will close down to the proper f/stop and exact exposure is determined by simply depressing the shutter release button.



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Shutter Speed Adjustment

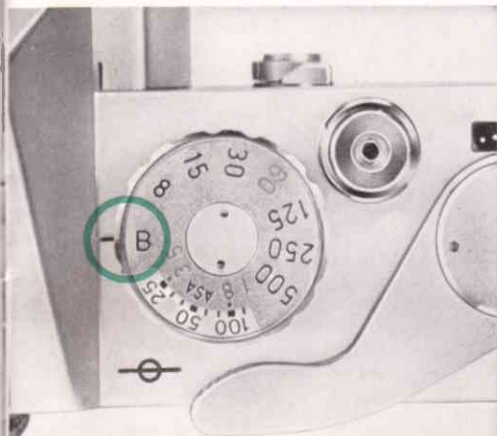
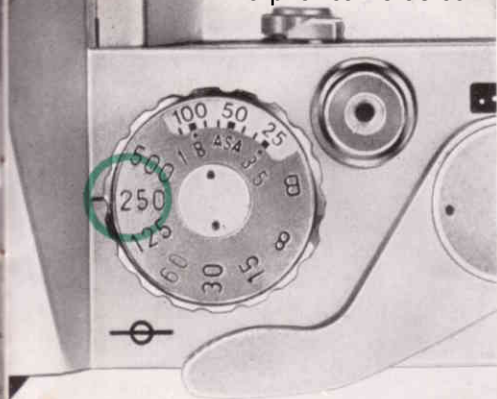
Adjust the shutter speed by turning the shutter speed dial to the desired index number. The index on the dial shows the denominators of 1/500 sec., 1/250 sec., etc.

- Be sure to set the index at a position where the click-stop catches.

- "B" indicates bulb exposure, and is used when making indefinite timed exposures. When the shutter speed dial is set at "B", the shutter remains open as long as the shutter release button is depressed.

- Time exposure, making an exposure over an extended time, is possible by using the lockable cable release and setting the shutter speed dial at "B".

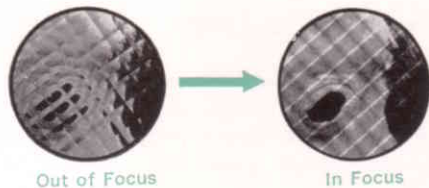
- The "60" index is used for synchronizing an electronic flash unit such as the Canon Speedlite 102. Although the shutter speed at "60" is 1/60 sec., it is equivalent to a very short exposure time during the flash of the electronic flash unit.



Focusing

The center of the viewfinder (circular section) is a micro-prism screen rangefinder made up of microscopic prisms for fast and precise focusing.

While looking through the viewfinder, rotate the focusing ring. It is in focus when the image in the rangefinder becomes sharp and clear.





Composition

The exact picture image to be photographed can be clearly seen through the viewfinder without any parallax. This enables you to determine the exact composition of your scene before depressing the shutter release button.

■ Canon Angle Finder A can be attached to the eyepiece for copying and close-up photographs. In these cases, images are reversed between left and right.

■ Dioptic adjustment lenses are available as optional attachments. When a dioptic adjustment lens is attached to the viewfinder eyepiece, those who are far- or near-sighted can take pictures without glasses. Four different diopters of +1.5, 0, -2.5 and -4 are available.



Checking the Exposure Indicator

Turn the aperture control ring to "EE". Point the camera at the subject and check the position of the exposure indicator inside the viewfinder.

1 You may depress the shutter release button if the indicator is pointing inside the proper exposure range.

2 If the indicator is pointing to the over-exposure warning mark, either the shutter speed dial should be revolved to the higher index side until the indicator moves to the proper exposure range, or a neutral density (ND) filter must be attached to restrict the incoming light.

3 If the indicator is pointing to the under-exposure warning mark, either the shutter speed dial should be revolved until the indicator moves to the proper exposure range, or light source must be increased.

■ Upper splitted part of the under-exposure warning mark applies only to the F 3.5 lenses, i. e., the 35mm wide-angle, 95mm and 125mm telephoto lenses.

■ The Electric Eye mechanism functions only when the aperture control ring is set at "EE".





Coupling Range of the Electric Eye

The Electric Eye couples to the following range of f/stops and shutter speeds with respective film speeds. When using the 50mm standard lens and ASA 100 film, for example, the Electric Eye couples fully within the range of f/1.8 at 1/8 sec. and f/16 at 1/500 sec.

■ The Electric Eye does not function at "B" of the shutter speed dial because "B" is used for indefinite timed exposures.

■ When the Electric Eye is outside the coupling range, the exposure indicator will point to the under-exposure warning mark, and will indicate that proper exposure cannot be obtained.

ASA Film Speeds	With F 1.8 Lens (50mm)		With F 3.5 Lens (35, 95 or 125mm)	
	Shutter Speeds	f/Stops	Shutter Speeds	f/Stops
25-40	1/8-1/125 1/250	f/1.8-16 f/3.5-16	1/8-1/250 1/500	f/3.5-16 f/3.5-11
50	1/8-1/250 1/500	f/1.8-16 f/3.5-16	1/15- 1/500	f/3.5-16
64-100	1/8-1/500	f/1.8-16	1/30- 1/500	f/3.5-16
125-200	1/15- 1/500	f/1.8-16	1/60- 1/500	f/3.5-16
250-400	1/30- 1/500	f/1.8-16	1/125- 1/500	f/3.5-16
500	1/60- 1/500	f/1.8-16	1/250- 1/500	f/3.5-16
640-800	1/60- 1/500	f/1.8-16	—	—

