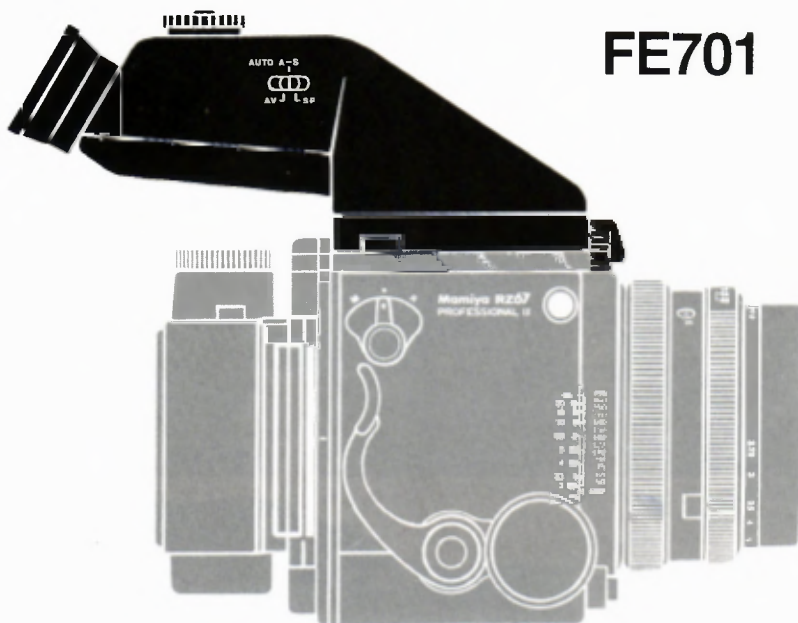


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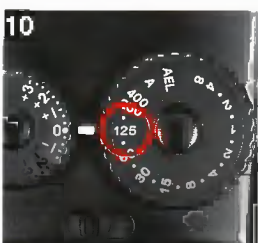
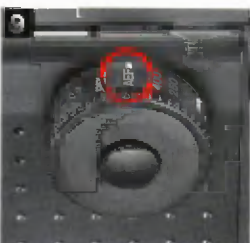
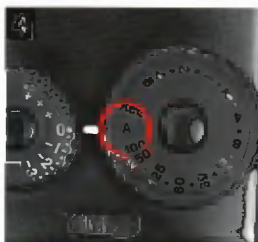
Mamiya

AE Prism Finder



English Instructions

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1**2**

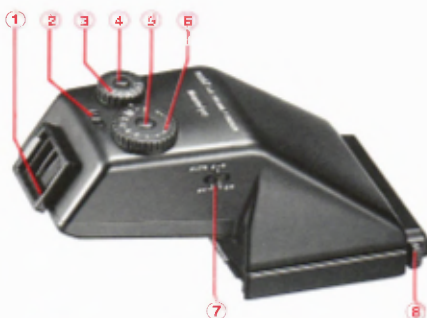
AE Prism Finder FE701

Special Features

1. The AE Prism Finder FE701 has a roof prism and produces an unreversed laterally correct image and electronic-controlled aperture-priority automatic exposure (AE).
2. The AE mode delivers perfectly exposed images once a suitable f/stop has been set on the lens and correct focus established. The metering mode, shutter speed and a number of other functions are displayed on the left side of the viewfinder by either glowing or blinking LEDs.
3. When wishing to select the shutter speed manually, the correct exposure can be obtained by zero-mode metering, utilizing the LEDs on the right side of the viewfinder.
4. In order to provide accurate readings, the AE Prism Finder FE701 features 2 exposure/ speed displays so that intermediate exposure times can be read out.
5. The three metering modes are: Average (AV) , Spot (SP) and Auto-Shift (AUTO A-S).
6. The FE701 is also equipped with an AE Lock (AEL) and exposure compensation ($\pm 3EV$). In the AEL position, when exposure conditions do not permit the AE mode to be used, the exposure value from selected subject is locked in position to enable a proper exposure to result.
7. An electronic warning sound indicates that the shutter speed dial on the camera body is set incorrectly. It must be on AEF.

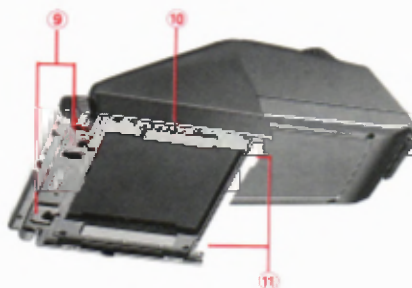
IMPORTANT:

In order for the AE Prism Finder to function, the shutter speed dial on the camera must be set to AEF. Once this is done, the camera dial is disconnected and only the shutter speed dial on the AE finder controls shutter speeds, either automatically when set to "A" or manually when set to any of the "white" speed settings.



Nomenclature

- ① Eye-piece Window
- ② Eye-piece Blind Lever
- ③ Exposure Compensation Dial
- ④ Exposure Compensation Dial Lock Release Button
- ⑤ Auto Function Release Button
- ⑥ Shutter Speed Dial
- ⑦ Metering Mode Selector
- ⑧ Finder Lock/Release Button
- ⑨ Attaching Latches
- ⑩ Electrical Contact
- ⑪ Attaching Pins



Attaching and Removing the Finder

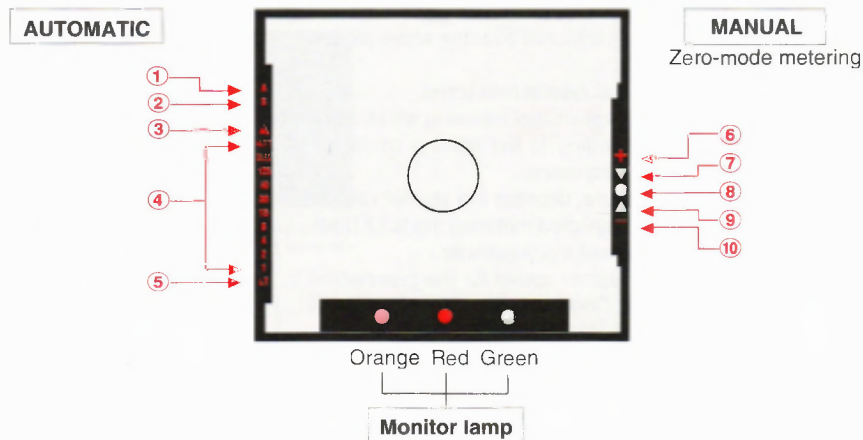
Attaching

- Remove the waist-level finder on the camera body.
 - Also remove the electrical contact cover, if present, or otherwise, the AE Prism Finder cannot be attached. (Photo **1**)
1. Insert the two attaching latches on the front of the finder into the mounting holes on the front of the camera body as illustrated.
 2. Then, while pressing the finder lock/release buttons towards the rear of the finder, push them down, and after lowering the finder on the camera body, release the buttons. (Photo **2**)
- Because of the double safety lock, the AE Prism Finder cannot be removed with a single squeezing action of the finder lock/release buttons; they must be pressed backward and also pushed down in order to remove the finder

Removing

Lift the front of the finder while pushing the finder lock/release buttons.

LED Displays during AE Photography



- | | |
|---|---|
| ① 'Average metering mode' illuminates | ⑥ Red.....overexposure, more than +0.75EV |
| ② 'Spot metering mode' illuminates | ⑦ Orange.....overexposure, +0.25EV~+0.75EV |
| ③ 'Overexposure' blinks | ⑧ Green.....correct exposure, within $\pm 0.25EV$ |
| ④ Shutter speed | ⑨ Orange.....underexposure, 0.25EV~-0.75EV |
| ⑤ 'Long time' illuminates or blinks/
(1~4.8 sec.) 'Underexposure' blinks | ⑩ Red.....underexposure, less than -0.75EV |

Using the AE Prism Finder FE701

AE Photography [AE (Auto) Metering]

- To switch to the AE mode, align "AEF" on the shutter speed dial on the camera body with the white index mark. At any other setting on the shutter speed dial, electronic coupling will not take place making the auto functions inoperative. (Photo **3**)
 - Please note that, if a finder without automatic exposure metering functions (e.g. the waist-level finder) is set to the AEF position and mounted on the camera, the shutter will not release even when the shutter release button is pressed. Simultaneously, an electronic sound will warn of incorrect finder installation.
- Align "A" on the shutter speed dial on the AE Prism Finder with the white index mark. (Photo **4**)
 - When "A" or "AEL" is set to the white index mark, the dial will lock to prevent accidental movement. The lock can be released by turning the dial clockwise or counterclockwise while continuously pressing the center button.
- Set the ISO film speed to the corresponding stop on the film speed dial on the film holder. (Photo **5**)
 - Failure to set the proper film speed will prevent correct exposure data from being transmitted to the AE Finder and may result in wrong exposures.
- For average metering set the metering mode selector to "AV", for spot metering set to "SP" and/or for AV-SP auto-shift metering set to "AUTO A-S". (Photo **6**)
 - At "AV"exposure is measured over the entire picture frame and averaged.
 - At "SP".....only the central area is measured.
 - At "AUTO A-S".....average or spot metering will be automatically selected according to the lighting condition, thus ensuring accurate exposures.
- After selecting the aperture, depress the shutter release button halfway and the selected metering mode LED will illuminate on the left side of the viewfinder.
- In addition, the correct shutter speed for the preselected aperture will illuminate. Continue pressing the button all the way down to release the shutter.
 - If, during AE photography, two shutter speeds glow simultaneously in the finder, an intermediate exposure will result when the shutter is fired.

Intermediate Speeds (Reference)
(No LED display in the viewfinder)

Shutter speed	Intermediate speed
1/400sec	
1/250	
	1/180sec
1/125	
	1/90
1/60	
	1/45
1/30	
	1/22
1/15	
	1/11
1/8	
	1/5.6
1/4	
	1/2.8
1/2	
	1/1.4
1	
	1.4
2	
	2.8
4	

For example, when speeds 1/250 and 1/125 sec. illuminate simultaneously, the shutter will be released at a speed close to the intermediate value of 1/180.

AE Lock [AEL]

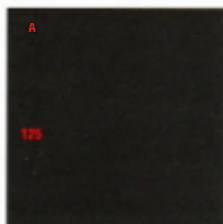
The AE Prism Finder designed to make accurate exposure measurements automatically for most subjects. However, for unusual lighting or special effects, the following two methods of exposure compensation can be utilized.

The AEL position is very useful when making selective exposure measurements of important subject areas which are not in the center. Although AEL can be used with any metering

LED Displays during AE Photography

Correct exposure

Metering mode



Illuminates

Correct value

Metering mode



Illuminates

Correct value

When two shutter speeds illuminate in the viewfinder, an automatically computed averaged value near the intermediate shutter speed will be selected.

Overexposure

Metering mode

Blinks

8 times/sec.



Underexposure

Metering mode

Blinks

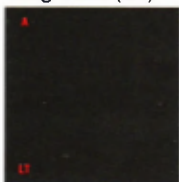
8 times/sec.



Long Time (LT)

Metering mode

Illuminates



Automatically a shutter speed is computed producing an appropriate value between 1 and 4 sec.

AEL Photography

Metering mode

Lock speed

Illuminates

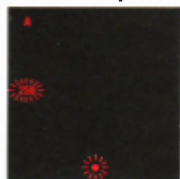


Low Battery Power

Metering mode

Blinks

2 times/sec.



The display speed and red monitor lamp blink.

mode, it is most effective under SP.

Set the shutter speed dial on the AE Prism Finder to the AEL position. (Photo **7**)

Then, while looking through the viewfinder, center the most important part of the subject in the center circle while keeping the shutter release button depressed halfway. In this state, the exposure reading will be memorized. After adjusting for composition as desired, release the shutter.

- When using AEL, if the shutter release button is pressed all the way before the shutter speed LED illuminates in the viewfinder, incorrect exposure may result. Therefore, do not release the shutter until it illuminates.
- Please note that correct "AEL" exposure cannot be obtained when using the remote control unit.

Exposure Compensation Dial

Within $\pm 3\text{EV}$ the dial stops at $1/3$ click-stop intervals. Turning the dial in the "+" direction increases exposure (OVEREXPOSURE), while turning it the "-" direction decreases exposure (UNDEREXPOSURE).

After using the exposure compensation, be sure to return the dial to the "0" (zero) position where the dial will lock to prevent accidental movement. The dial can be unlocked by turning the button in the center of the dial clockwise or counterclockwise. (Photo **8**)

Manual Photography

Manual Metering

- Set the camera shutter speed dial to "AEF".
1. Set the shutter speed dial on the AE Prism to any speed except "A" and "AEL". (Photo **9**)
 2. Select the metering mode ("AV", "A-S" or "SP") with lever 7 on the side of the finder. (Photo **10**)
 3. While pressing the shutter release button half way, the selected metering modes (A or S) will glow on top of the left side of the finder and the speed set on the dial will appear further down.
 4. You now use the manual zero mode by observing the signals on the right side of finder.
 5. Determining the correct exposure:
 - You decide either which shutter speed or which f/stop you want to use. For selected shutter speed, turn lens diaphragm ring until a green dot appears on the right side of the finder. A red + sign on top and - sign on the bottom and orange arrows will guide you whether to move to higher or lower f/stops.
 - Similarly, if you select an f/stop, you turn the Finder's shutter speed dial to faster or slower speeds until you obtain the green dot.

Diopter Correction Lenses

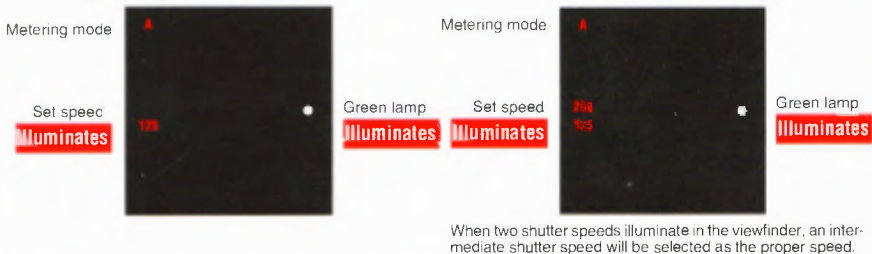
The viewfinder system is adjusted for average eyesight. It is therefore recommended that far-sighted or near-sighted individuals not wearing eyeglasses use a diopter correction lens.

Types of Diopter Correction Lenses

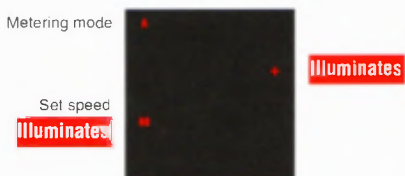
+3, +2, +1, -0.5, -1, -2, -3, -4. Please note that plus lenses are for far-sighted and minus lenses are for near-sighted individuals.

LED/Lamp Displays during Zero-mode Manual Photography

Correct Exposure



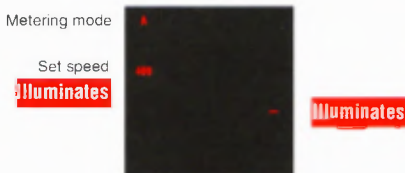
Overexposure



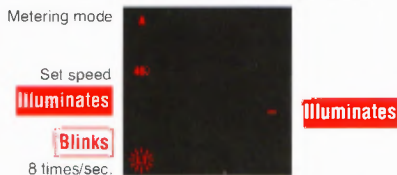
Extreme Overexposure



Underexposure



Extreme Underexposure

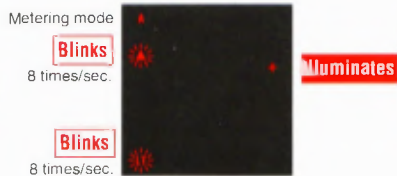


Correct Exposure When Set to 8 Sec.



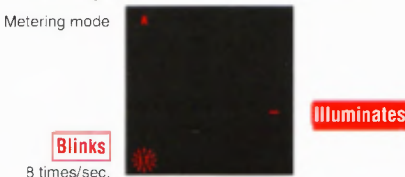
When the shutter speed is set to 8 sec., "LT" blinks to indicate that a long time setting has been made.

Overexposure When Set to 8 Sec.



In the case of an extreme overexposure, Δ also blinks.

Underexposure When Set to 8 Sec.



Low Battery



The set speed and red monitor lamp blink.

Attaching Diopter Correction Lenses

After removing the eyecup, press the diopter correction lens onto the eyepiece frame, and then replace the eyecup. (Photo )

Adjustable Diopter Magnifier (2.4x)

This useful optional accessory attaches to the finder and swings out of the way when not in use. It magnifies the center image 2.4 times, has built-in diopter adjustment from +4 to -6. It makes critical focusing very easy and convenient. Write for information sheet.

Hints on Selecting the Metering Mode

1. If the Average metering mode is used for photographing a subject indoors by a bright window or a subject outdoors against a bright sky or snowscape, the bright background will unduly affect the meter reading, resulting in underexposure. Under these conditions, change to the Spot metering mode which will eliminate adverse background influence and assure accurate exposure. For Spot metering, use the circle in the center of the focusing screen as a reference point.
 2. Use the Average metering mode when creating backlit silhouettes and the Spot metering mode to highlight the subject.
 3. In the Auto-Shift mode, if the area read by Spot metering is more than 1 1/2 stops darker than the area read under Average metering, Spot metering mode is automatically selected. When the area read by the Spot metering is approximately the same value as, or brighter than that under Average metering, Average metering is automatically selected. When the area read by the Spot meter is 3/4 to 1 1/2 stops darker than that read by Average metering, the AE Prism Finder automatically selects a proper intermediate exposure value, picking the equivalent of a center-weighted reading. At this time, both "AV" and "SP" will illuminate in the viewfinder.
 4. For the highest degree of exposure accuracy possible when working under difficult lighting conditions, use Spot metering and the AE lock.
 - When using the remote control unit, close the eyepiece shutter to completely eliminate stray light that might enter through the eyepiece window.
- Since TTL metering is employed, exposure compensation is automatic with all lenses, with close-up photography and with filters.
 - During mirror lock-up operations, the shutter can be released up to one minute after the mirror is raised; however, auto exposure will be based on the lighting conditions prevailing just before the mirror is raised.
 - Extraneous light coming into the viewfinder through the eyepiece will affect metering. So be sure to snugly hold your eye on the eyecup to prevent any incidental light from entering.
 - Because RB lenses are not equipped with electronic coupling and therefore no LEDs are displayed in the viewfinder, the AE Prism Finder will not function with RB lenses.
 - Because of the totally transparent center of the Type D Cross Hair Focusing Screen, the AE Prism Finder will not indicate correct exposure with this screen in place.
 - There are 13 electrical contacts between the top of the camera and the base of the AE Prism Finder. Should dirt or grease adhere to these contacts, electronic coupling may be disrupted, resulting in a malfunction of the finder. If the contacts need cleaning, remove the finder and use a soft, clean cloth to gently and thoroughly clean them.

Specifications

Viewfinder	: Features a roof prism design and an unreversed laterally correct image. Image magnification is 0.81x (with 110mm f/2.8 standard lens at infinity) with a built-in 1.8x magnifier; 95% of the field of view visible.
Metering system	: There are three metering modes Average(AV), Spot (SP) and Auto-Shift (AUTO A-S) selected by the metering mode selector on side of the viewfinder. During manual metering, three LEDs (red, orange and green) on the right side of the viewfinder facilitate zero-mode metering. Correct exposures are indicated by a glowing green LED in the center.
Control system	: Electronic aperture-priority AE.
Shutter speed range	: AE: 4 sec. ~ 1/400 sec. (1/6 EV STEP, 1/2 stop intervals). Manual: 8 sec.~ 1/400 sec. (1/2 stop intervals).
Viewfinder LED display	: In the metering modes "A" (Averaged) and "S" (Spot), shutter speeds from 1 to 1/400 sec. and "LT" (Long Time), indicating shutter speeds from 1 to 4 sec., will glow. When two adjacent shutter speeds flash at the same time, it indicates intermediate shutter speeds. Overexposure is shown by the glowing at the top of the scale, underexposure by "LT" on the bottom of the scale.
Metering range	: EV1-18.5(f/2.8 at 4 sec. to f/32 at 1/400 sec. with ASA/ISO 100 film and f/2.8 standard lens)
Exposure compensation	: ±3 stops with intermediate 1/3 stop positions,
AE lock	: When the shutter speed dial on the camera is set to the AEL positions. The exposure reading will be stored in the AE Prism Finder when the shutter speed dial is pressed halfway.
Power supply	: Battery in the camera body.
Weight	: 940g.

-
- In the AUTO A-S metering mode, the metering mode is selected according to subject conditions. If the area read under Spot metering is approximately 3/4 to 1 1/2 stops darker than the brightness of the entire picture area, both "A" and "S" will illuminate.
 - When the batteries are almost dead, and electronic warning sound will also accompany the above noted blinking. At that time, please replace the batteries immediately.
 - When the AE Prism Finder FE701 is attached to the camera, the LEDs appear in reversed order.