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STUDIO MASTER model EF-1

INSTRUCTION MANUAL

INTRODUCTION

Model EF-1 meter is designed to measure flash or ambient light either in the incident or reflected light mode. The internal integrated circuits are very reliable and give you accurate light readings in every type of lighting situation and the meter provides many years of trouble free service. The meter is utilizing an ultra sensitive silicon photo diode (SPD) so that it can make quick and accurate light measurements under most photographic situations, offering a wide measuring range of EV1 to EV 19.9. The LED digital display will indicate the proper exposure value while turning the switch button on. This meter provides you more precise readings than needle type conventional meters.

If you use this EF-1 meter as an exposure meter, you can measure either reflected or incident light in use of a diffuser on the sensing window of the meter. When the battery voltage starts dropping below usable range, a series of 8's will appear in the LED display window. This is an indication that the battery should be replaced. For electronic flash readings, the sensitive silicon photo diode is suitable to measure an incident light of the strobe Xenon tube. When flash light measurements are required, exposure readings will be made by placing a diffuser on the sensing window as did on the exposure meter when measuring an incident light. In this case, turn the switch on and when the flash is lit, the LED display will indicate the proper exposure value. When the incident light volume is in excess of F22 at ASA100, the pilot lamp will flicker.

The meter is supplied with a synchro cord as an optional accessory, with which is used, you can act a synchronized light measurement of flash lighting.

SPECIFICATIONS

EXPOSURE METER

TYPE : Incident/Reflected
Light Measuring Method

FLASH METER

Incident Flash Light
Measuring Method

ACCEPTANCE ANGLE : Incident - approx. 160°
Reflected - approx. 40°

160°

SENSITIVE RANGE : EV1 - EV19.9 (ASA100)

F2 - F22 (8 steps) (ASA100)

INDICATION : EV Number LED Digital Display

LED Lamp Lighting

ACCURACY : ± 0.2 Step (at 0°C-40°C)

± 0.3 step (at 0°C-40°C)

SHUTTER SPEED SCALE: 1/4000 - 30 sec.

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MEASURING TIMES : —

1/125 and slower
camera shutter speed

APERTURE SCALE : F0.7 - 45

F0.7 - 45

EV SCALE : EV 0-20

EV 0-20

ASA/DIN RANGE : ASA6-6400/DIN9-39

ASA6-6400/DIN9-39

RECEPTOR SENSOR : Silicon Photo Diode (SPD)

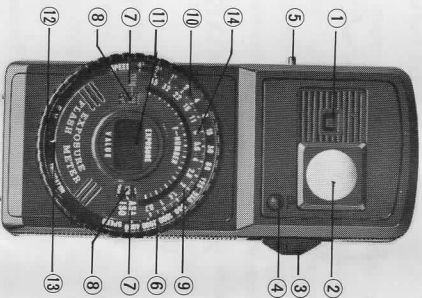
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POWER SOURCE : One 9V Dry Battery

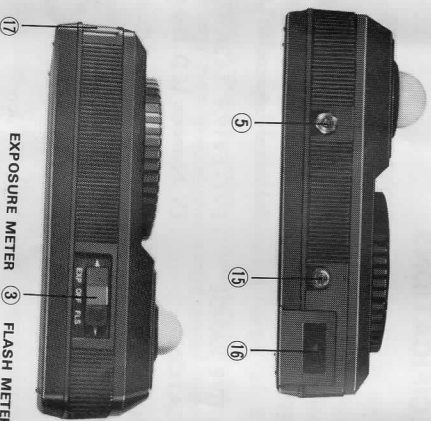
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DIMENSIONS : 140 × 60 × 42 mm

WEIGHT : 140g (without Battery)



1. Sensor Window
2. Incident Diffuser
3. Converter Switch (for Exposure Meter ON (EXP/OFF, Flash Meter ON (FLS)))
4. Pilot Lamp (Battery Stand and Out-of-Range Indication)



EXPOSURE METER ③ FLASH METER

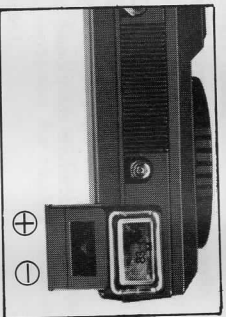
ON ← OFF → ON
(EXP) (FLS)

5. Re-set/Hold Button
6. Outer Dial
7. ASA/DIN Window
8. ASA/DIN Scale
9. Aperture Scale
10. Shutter Speed Scale
11. LED EV Value Display
12. EV Scale
13. EV Value Index
14. LED Array (for Flash Meter 8 Step F2-F22 at ASA100)
15. EE Synchro Jack
16. Battery Cover
17. Neck Strap Eyelet

OPERATING PARTS

OPERATING THE MODEL EF-1 EXPOSURE & FLASH METER

- 1. LOADING BATTERY:** Open the battery cover and insert the battery. Make sure that the battery is loaded correctly according to the PLUS and MINUS indications in the battery compartment. Press down on the battery and slide the cover back into place.
- 2. BATTERY CHECK:** If the red pilot lamp lights when turning the switch button on, the battery in use is in good condition. If the LED digital display indicates a series of 8's when turning the switch on, the battery should be replaced with a new one.



- 3. SETTING ASA/DIN FILM SPEED:** Set the film speed by rotating the ASA/DIN dial in the window. The appropriate film speed is indicated on film box.
- 4. USING EXPOSURE METER:** When an exposure reading is required by the reflected light measuring method, point the meter correctly toward the subject and press the converter switch down to the "EXP" mark on the side of the meter. The pilot lamp will light. Press the hold button and read the number which is indicated in the LED display window. Now, transfer the number you have read to the EV scale. The correct combination of shutter speed and aperture will be indicated on the scale in the exposure dial. You can select a suitable combination according to your photographic needs.

ADDENDUM: The Model EF-1 digital exposure meter employs a flickerless circuit, enabling measurement under fluorescent light. A hold circuit enables the display to be frozen when the hold button is depressed. Since the Model EF-1 digital meter indicates EV number in the window by means of a LED digital display, metering is easy with little chance of error. In addition, metering a subject in the dark may also be easily accomplished because of brilliant EV display in the window. The meter is very simple in use. You will notice, however, that same metering