

# WILSONWERKS ARCHIVES

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TOSHIBA PHOTOGRAPHIC SUPPLIES CO., LTD.

NO. 12, 2-CHOME, SHIBA TAMURA-CHO  
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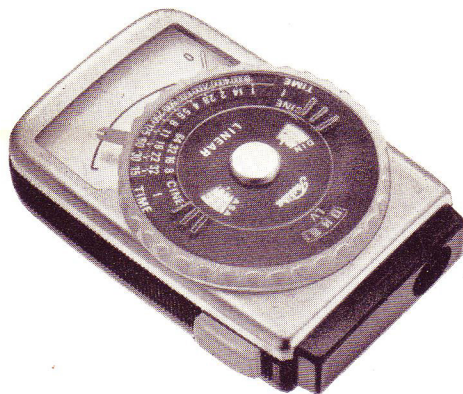
*Toshiba*

TOSHIBA EXPOSURE METER

**PE-1**

**LINEAR**

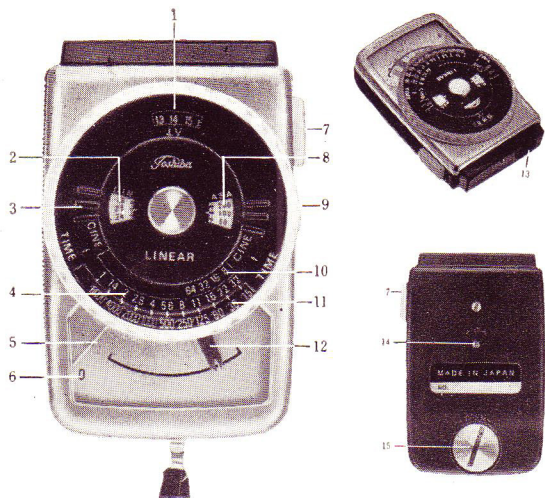
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## PARTS NAME

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1. Light Value Window & Scale     | 8. ASA Window & Scale              |
| 2. DIN Window & Scale             | 9. Dial                            |
| 3. Dial Knob                      | 10. Cine Window                    |
| 4. F-Stop Scale (Aperture)        | 11. Shutter Speed Window & Scale   |
| 5. Indicating Needle (Red Colour) | 12. Pursuing Pointer (Blue Colour) |
| 6. Zero point                     | 13. Light Intake Window            |
| 7. Push-button                    | 14. Zero Adjustment                |
|                                   | 15. Battery Replacing Screw        |

## Specifications

- CdS photo-cell: Toshiba M-6842
- Battery: Toshiba Mercury Battery TH-MC (1.3 volts) or Mallory Battery Px-13.
- Exposure Value Scale: -2 to 22 (With ASA 100 film, E. V. affords from -2 to 17.)
- ASA Scale: 6 to 6400
- DIN Scale: 9 to 39
- F-Stop Scale: 1 to 32
- Shutter Speed Scale: 8 min. to 1/8000 sec.
- Reflected light measuring type, needle following pointer coupled to computer ring.
- Light Intake Angle: 55 degree
- Dimensions: 55 × 85 × 26 mm
- Weight: about 100 grams

## TOSHIBA EXPOSURE METER

### PE-1 LINEAR

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The Toshiba exposure meter PE-1 Linear has remarkable features in performance and design. The CdS photo-cell used in the center of this meter is newly developed by Toshiba which has many years of experience and techniques. This meter has many distinguished features as follows.

#### CHARACTERISTICS

1. Highly sensitive CdS (Cadmium Sulphide) exposure meter equipped with newly developed Toshiba composited-type photo-cell. (Two elements are mounted in one cell.)
2. Capable to measure any subject in high brightness or dark shadow without a high-and-low switch.
3. Adopted simple operation system without a high-and-low switch.
4. Endurable and unique design.
5. Features linearity of the needle movement.

Ordinary CdS exposure meters use switches according to the brightness of the subject but the Toshiba exposure meter has not equipped such a switch for subjects in any light condition. "One touch" operation is good enough to obtain correct data. This remarkable method is achieved by the utilization of a Toshiba high sensitive CdS photo-cell and special circuit system. The Linear exposure meter affords an excellent linearity in the movement of the needle something unlike any other type of meters.

Especially when subjects are measured under the conditions of E.V. -1 to 4 by ordinary meters, the needle hardly moves. But with the Toshiba exposure meter, the measuring range of dark parts is widened and the equal graduation adds more accuracy in measuring the dark to the bright.

#### **How to insert Mercury Battery**

Take off the battery cap at the back of meter with a coin or some other object, put Mercury Battery in the hole, the plus mark up and the minus mark down. Then return the battery cap to the original position by tightening screw with the coin.

The battery works when the button is depressed. When the meter's button is released, the current from the battery is cut off. You don't have to worry about the running-down of the battery even if you keep the battery in the meter is not in use.

## How to operate the meter

**SET FILM SPEED:** Set film speed on ASA or DIN scale by revolving the inner dial by fingertips.

### **PUSH SWITCH BUTTON OF EXPOSURE METER:**

As the Linear is a reflected-light-measuring type, you must train the light intake window at the subject when you push the button.

### **ALIGN PURSUING POINTER WITH METER NEEDLE:**

Set the dial while depressing on the switch button to peep the meters, needle from the center of space of pursuing pointer.

**CORRECT EXPOSURE:** When the button is released, the meter needle goes back to Zero, but the pursuing pointer remains as it is. You can read correct exposure combinations on the dial.

**EXPOSURE VALUE SYSTEM:** When you use the exposure value system, set the meter so that the E.V. appears in the L.V. window.

**USING A CINE CAMERAS:** You can find correct combinations of filming speeds and apertures on the dial. Choose the correct F-stop according to the desired filming speed.

**MERCURY BATTERY:** The mercury battery is much different from the ordinary batteries and has a nature to cover its average voltage to the life end and drops so suddenly when the life is terminated. When the meter's needle does not work even if you use the meter in the correct way, replace the battery. The average life of Toshiba Mercury Battery TH-MC (1.3 volts) is about two years. Toshiba Mercury Battery TH-MC, Mallory Px-13 and other batteries are available.

**ZERO ADJUSTMENT:** When the button is released, the exposure needle must return to the Zero mark. If not, adjust the Zero adjusting screw at the back of the meter carefully with a screw driver.

## CAUTIONS

1. Don't place the meter in a damp or hot place for a long time.
2. Don't give a strong shock to the meter.
3. Keep the meter from dust.