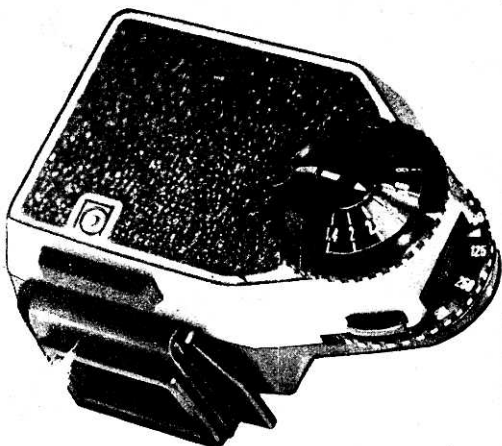


# EXAKTA RTL 1000 METER INSTRUCTIONS



## EXAKTA RTL METER INSTRUCTIONS

Please do not attempt to operate the Exakta RTL 1000 Lightmeter until you have read and fully understand the instructions.

1. Important: The RTL Penta Prism Lightmeter will give you automatic exposure control through-the-lens (TTL). It will measure the light with all lenses and extension increasing accessories, as well as with filters.

**CAUTION: Do Not Turn Dials Rapidly!**  
You must operate all meter controls gently and with care. Each dial and disc has an electronic contact which makes light readings possible. Each dial and disc is part of the complete circuit in the sensitive electrical measuring instrument and therefore, must be handled with care. Failure to do so may strip the fine electrical "contacts" which could make the meter inoperative.

### 2. Readiness for Operation

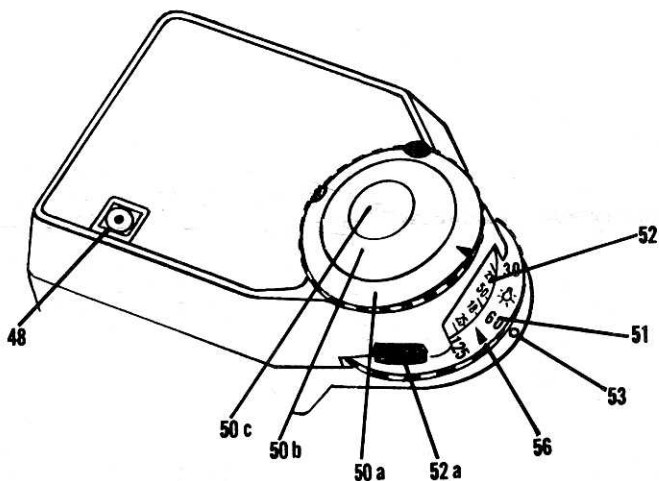
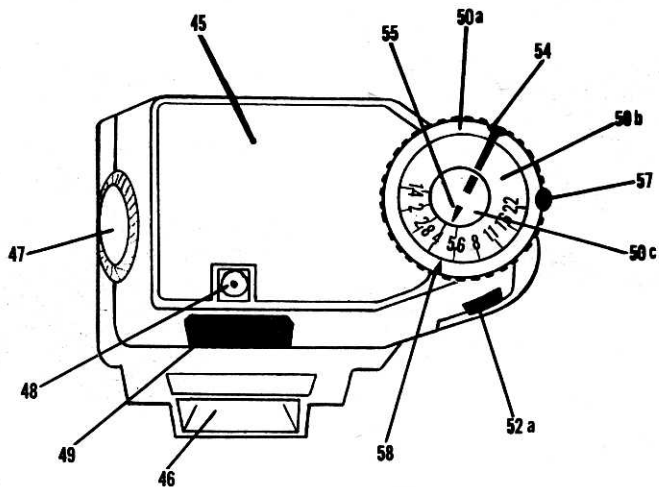
Type of Battery and How to Insert it.  
The light is measured by a photo electric cell. The voltage source is a Mallory PX-13 Battery (mercury oxide cell). The battery should be inserted into the lightmeter before inserting the lightmeter into the camera.

Remove battery cover (47) by turning it to the left. Insert battery with the '+' sign outwards (facing you) then screw cover into position again. The life of the battery varies from about one to one and a half years, provided the measuring mechanism is switched off after each measurement. Spare batteries are available from Photographic Dealers.

### 3. Inserting the Lightmeter Into The Camera

Insert the Lightmeter into the camera exactly as the normal prism finder. Insert the Lightmeter from above and push it down gently until it clicks into place. Please do not use force. After placing the Lightmeter in the camera, turn the shutter speed setting dial (51) once, slowly, from speed to speed so that the meter pin on the camera shutter dial engages the meter. As you turn dial (51) slowly, you'll note the shutter speed dial on camera turns too.

**PARTS OF THE EXAKTA RTL 1000 LIGHTMETER**



46- Eyepiece

47- Lid of Chamber for Mercury PX  
13 Battery

48- Window with Signal indicating  
when Meter is On and Off

49- On-Off Meter Switch

50a- Outside disc of meter-aperture  
setting device

50b- Central disc of meter-aperture  
setting device

50c- Inside disc of meter-aperture  
setting device

51- Shutter speed setting dial

52- ASA- DIN Film speed dial

52a- Button to lock (stop) ASA-DIN  
Film speed dial

53- White Dot indicator for shutter  
speed setting

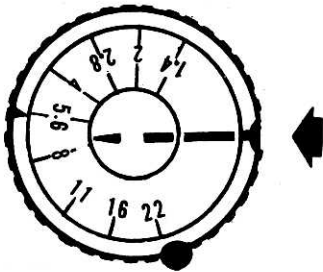
54- Semi-circular button notch lock

55- Silver Triangle Marker (indicates  
maximum speed of lens for auto-  
matic operation)

56- Triangular pointer for ASA film  
setting

57- Semi-Circular button notch release

58- Silver triangular pointer shows  
diaphragm stop for particular shot.  
Set it on lens. Method 3



Please note: The ASA film speed dial (52) always moves together with the shutter speed dial (51). However, when changing the ASA speed, you must press in on button (52a) as this acts as a lock for ASA speed dial (52), thereby permitting you to change the ASA film speed for film loaded in camera. After performing this operation, remove your finger from button (52a).

## Meter Setting for Method 1 and Method 2.

### 4. To Set Meter

Line up the orange lines on Disc 50a, 50b, and 50c, in a straight line. To do this, carefully raise the outside disc (50a) and turn it until the orange lines on 50a, 50b, and 50c, are in a row, one next to the other. Note: it is not necessary to keep Disc 50a raised at all times in order to line up the orange lines on all three discs. When correctly set, all discs will appear to be in a straight line with the inside silver triangle (55). Then lock them in place by pressing in on the semi-circular notched button (54) with the short orange line on it.

Please note: The numbers on disc (50b) are not used except for the automatic operation settings which will be explained later in Method 3.

### 5. Setting Film Speed

Push in button (52a) and simultaneously turn shutter speed setting dial (51) slowly until the orange triangle marker (56) on the shutter speed dial (51) is visible. Then place the orange marker (56) next to the orange number on dial (52) which coincides with the ASA film speed for the film loaded in the camera.

### 6. Checking for Readiness of Operation

Switch on meter by moving the switch (49) to the left. A green target will appear in Window (48). Set the lens on the manual diaphragm setting and turn diaphragm slowly. If meter needle on left side in viewfinder moves, the camera is ready for operation. If needle fails to move although all operating instructions have been closely observed, it may be necessary to replace the battery. or reset shutter speed higher or lower (as suggested on page 4)

### 7. Methods of Operation

The RTL Lightmeter offers three ways of measuring, and therefore, can be adopted to any particular shooting situation:

- Method 1. Varying the diaphragm (aperture) setting (preselect the shutter speed).
- Method 2. Varying the shutter speed setting (preselect the lens diaphragm stop).
- Method 3. Shutter speed/aperture combinations.

### 8. Method 1. Varying The Aperture Setting

In varying the diaphragm setting, you must pre-select the shutter speed. To pre-select the shutter speed, do the following: Turn the shutter speed setting dial (51) until the speed you select will be above the white dot marker (53). Hold the camera on left side to see white dot. Set camera lens on manual operation.

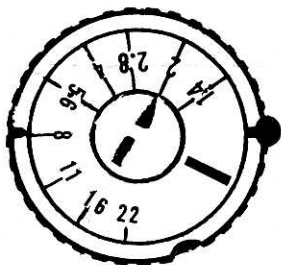
Be sure the meter is set as explained in paragraph 4.

(Con't.)

Push switch (49) to the left. The green target signal is visible in the window (48), Direct camera toward subject to be photographed, and turn iris diaphragm ring on lens until the pointer on left side of viewfinder is in the center of the circular mark. Push switch (49) to the right. Take your picture.

#### 9. Method 2. Varying The Shutter Speed Setting

The f-stop is pre-selected. Be sure to set meter exactly as explained in paragraph 4. Move diaphragm on lens to manual setting and then set the lens for the opening (f-stop) you want. Move switch (49) to the left. Turn shutter speed dial (51) until the pointer in viewfinder moves to center of circular mark. Switch off by pushing (49) to the right. Take your picture.



#### Meter Setting for Method 3.

#### 10. Method 3. Lightmeter Measuring on Automatic Diaphragm

This method offers the great advantage that only such light is measure as actually effects the quality of the photographic image.

- A. Set lens on Automatic Setting
- B. Push in the non-marked semi-circular button notch (57) on dial (50a)

- C. Lift dial (50a) so that the silver triangle (55) on the inside of disc (50c) points to the fastest speed of the camera lens. If the lens is an F1.4, set the dial so that the triangle (55) points to F1.4. If the lens is a F1.8 or an F2, put the silver triangle (55) next to F2.

Note: only lenses with a maximum speed up to F5.6 (ie:F1.4, 1.8, 2.0, 2.8, 3.5, 4.5 and 5.6) may be employed in Method 3. An F6.3 lens cannot be used in Method 3.

- D. Push switch (49) to the left
- E. Turn the dial (50a) slowly and watch the pointer in the viewfinder move to the center of the circular mark.
- F. Stop, and read on the outer disc (50a) the diaphragm number which appears next to the outside silver pointer (58) Then set your lens to the same diaphragm stop and take your picture.
- G. Push switch (49) to the right.

#### Proper Preselection of Shutter Speed

For preselecting shutter please use the following as a guide.

Movement	Suggested Speeds
Moderate (pedestrian)	1/60, 1/125
Fast (traffic, Sports)	1/175, 1/250, 1/500
Very fast (racing cars, airplanes)	1/1000