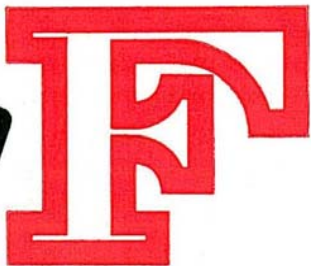


Nikon



Photomic **Finder**

INSTRUCTIONS

proposé par www.nikonpassion.com

NIKON PHOTOMIC FINDER FOR NIKON F

NIKON Photomic Finder is a combination of viewfinder and exposure meter, to be attached on the top of the Nikon F in place of its ordinary eye-or waist-level viewfinder. The meter couples to both the shutter speed dial on the camera and aperture diaphragm of NIKKOR AUTO lenses.

The Photomic Finder shows its indicator needle not only on the outside top but also within the viewfinder at the top of the view field thus permitting exposure setting while looking at the finder image for composing and focusing. A CdS photo-conductive cell used in this meter extends the range of measurement and furthermore ensures high accuracy and much durability of the meter.

Characteristics



Type : Reflecting light measuring type ;
incident light can also be measured by using the incident light attachment.

Measuring range of average brightness :
1-1,6000 Cd/m² ; in ASA 100- LV
3-17 (for example F : 1.4, 1/4
sec.—F : 11, 1/1000 sec.)

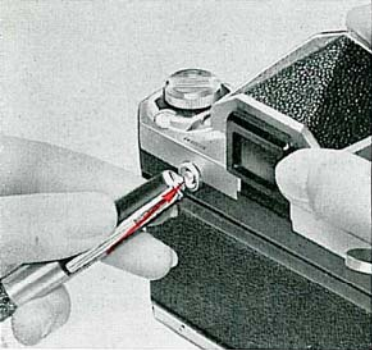
Aperture scale : F : 1.4—F : 22

Shutter speed scale :
2 sec. (at B)—1/1000 sec.

Film factor scale : 1X—4X

Film speed range : ASA 10—1600

Hg (mercury) battery : 1.3 V



Detaching Finder

If the camera is equipped with the other viewfinder, eyelevel or waist-level finder, first detach this finder by pushing the lock button located on the back of the camera with a pointed piece and lifting it up.

To replace a finder, put it back into position on the camera and then press down gently until the click is heard.

Attaching Photomic Finder

- A. First, set the camera's shutter speed to any speed except T.
- B. Set the lens' aperture to F : 5.6.

- C. Bring the slider on the bottom of the Finder to the position of $F : 5.6$ (this will be shown in the aperture window on the back of the Finder).
- D. Then, place the Photomic Finder on the top of the camera in position. (If it doesn't fit properly, refer to your Dealer.)

The slider on the bottom of the Finder should fit to the prong (slotted projection) on the lens, and at the same time the shutter speed dial of the Meter comes just over that of the camera.

- E. Rotate the shutter speed selector of the Photomic Finder to right and left, until the pin on the camera's dial fits the selector of the Photomic and the dial rotates together with the selector.



Exchanging the Lens

- A. To detach the lens from the camera, first set the aperture of the lens to $F: 16$. Depressing the lens lock button, turn the lens clockwise. Hold, in this case, not the aperture ring but the milled ring with a black dot on top.
- B. Set the aperture of the lens to be mounted to $F: 16$.
- C. Bring the slider at the bottom of the Meter to the right end (as viewed toward the camera's front).
- D. Attach the lens onto the camera by bayonet fashion so that the prong (slotted projection) on the lens fits to the slider.

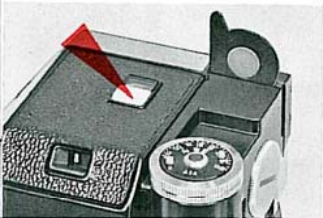
Setting Film Speed

After fitting the Photomic Finder and lens to the camera, set the film speed of the loaded film to the triangular mark by turning the top ASA dial. If a filter is to be used, choose the filter factor figure as an indicator instead of the triangular mark.



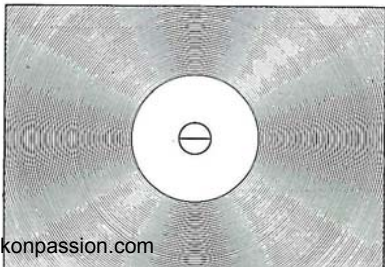
Using Photomic Finder

Open the CdS front window by lifting up the protecting shield.



Aim the lens to the subject to be photographed. Rotate the shutter speed selector of the Photomic Finder and/or the aperture ring of the lens, until the indicator needle either on the outside or inside of the Meter comes to the center. The needle moves in the same direction as the aperture ring and/or the shutter speed dial rotates.

The shutter speed ring clicks at each marked setting (shutter does not give intermediate exposure time). Therefore, if the needle does not come exactly to the center at the moment the shutter speed ring click-stops, correct a deviation of the needle by revolving the aperture ring slightly.



Important !

- (1) Don't leave the window open any more than you can help, to avoid unnecessary drain of the mercury battery. A red mark on the back side of the shield will serve to arouse your attention.
- (2) Stopping or discontinuous jump of the needle is traced back to the cause that the lighting to be measured is not within the **coupling range** of the Meter (see opposite page), that is, too dark or too bright.
- (3) When using the Meter in the sun, aiming it at dark objects, shade the shield slot so as not to let the sun-light enter the slot from the side.
- (4) Time exposure cannot be set with the Photomic Finder attached. For long exposure, set the selector at B-2 and keep the shutter release button depressed while the desired time elapses. The use of a cable release is recommended.

Using B (B-2)

When the exposure setting is obtained at B-2 on the shutter speed selector, the correct exposure time will be 2 seconds. Therefore, open the shutter for 2 seconds with the shutter speed selector set at B-2.

F-number	Shutter Speed (sec.)				
				with acceptance converter	
	ASA 50	ASA 100	ASA 200	ASA 50	ASA 100
1.4	1/2 ~ 1/1000	1/4 ~ 1/1000	1/8 ~ 1/1000	1/15 ~ 1/1000	1/30 ~ 1/1000
2	1 ~ 1/1000	1/2 ~ 1/1000	1/4 ~ 1/1000	1/8 ~ 1/1000	1/15 ~ 1/1000
2.8	2 (B) ~ 1/1000	1 ~ 1/1000	1/2 ~ 1/1000	1/4 ~ 1/1000	1/8 ~ 1/1000
4	2 (B) ~ 1/1000	2 (B) ~ 1/1000	1 ~ 1/1000	1/2 ~ 1/1000	1/4 ~ 1/1000
5.6	2 (B) ~ 1/1000	2 (B) ~ 1/1000	2 (B) ~ 1/1000	1 ~ 1/1000	1/2 ~ 1/1000
8	2 (B) ~ 1/1000	2 (B) ~ 1/1000	2 (B) ~ 1/1000	2 (B) ~ 1/1000	1 ~ 1/1000
11	2 (B) ~ 1/500	2 (B) ~ 1/1000	2 (B) ~ 1/1000	2 (B) ~ 1/1000	2 (B) ~ 1/1000
16	2 (B) ~ 1/250	2 (B) ~ 1/500	2 (B) ~ 1/1000	2 (B) ~ 1/1000	2 (B) ~ 1/1000
22	2 (B) ~ 1/125	2 (B) ~ 1/250	2 (B) ~ 1/500	2 (B) ~ 1/1000	2 (B) ~ 1/1000

Mercury Battery

For the mercury (Hg) battery to be used in the Finder the following makes are available :

Mallory	PX-13
	RM-625
	RM-630
Eveready	E 625
G. E.	No. 625
National	M-D
Toshiba	TH-NC



To exchange the mercury (Hg) battery, open the battery chamber by unscrewing the lid. Insert the battery into the chamber as its plus (+) side faced outward, so that this (+) side comes into contact with the inner side of the lid marked plus (+). The battery will be used for over one year, so far as the following advise is honestly followed.

If the CdS surface is exposed to extremely bright light at a low temperature, (be-

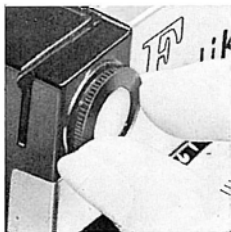
low 0°C), the Meter will show an error or even stop its operation. This abnormal condition will naturally be rectified when the temperature gets higher.

Therefore, when the Meter is used in a cold place, (below 0°C) don't leave its shield lifted longer than about 3 minutes. It is recommended to use the Acceptance Converter Tube (see p. 12).

Caution! If the Photomic is not to be used for a long period of time, it is advisable to remove the battery. Don't short-circuit the mercury battery at a high temperature or throw it in the fire, for fear of explosion.

Incident light

Though the Meter has primarily been designed to measure the reflecting light, it can also be used for measuring the incident light emitting from the subject to be photographed. In this case, screw in the opal plate attachment onto the front window of the Meter. Then, take measure from the position of the subject with the Meter faced toward the place where the camera is to be located. In other respects the use of the Meter is the same as for the reflecting light.

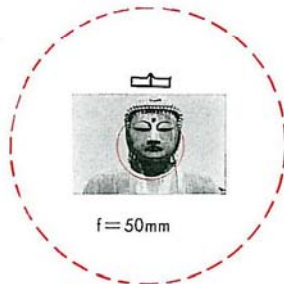
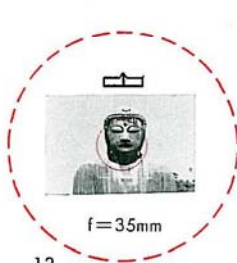


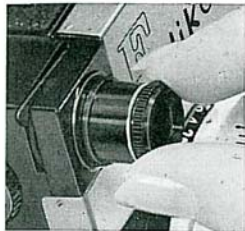
Acceptance Angle Converter

The light acceptance angle covered by the Exposure Meter is wider than the picture angle of the camera lens being used.

(Acceptance fields of the Meter for $f=50\text{mm}$ and $f=35\text{mm}$ lenses are shown below by the circles of broken line.)

For this reason, in the case where intense light from the outside area surrounding the picture field (for instance, the bright sky) is contained within the acceptance field of the Meter, a possibility of measuring errors cannot be avoided.





For more accurate measurement, then, it is necessary to attach the converter tube onto the front of the Meter window, to limit the acceptance angle as shown by the red solid line circles for various focal lengths of lens.



Note : In this case, rectify the film speed (ASA) setting by using the yellow index instead of the black mark. When a filter is used, the film speed is to be moved to the yellow film factor figure of the film loaded.





Lens without Aperture Coupling Prong

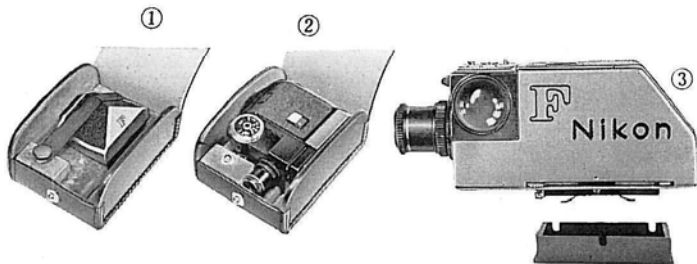
Using the Photomic Finder with a lens (not Nikkor-Auto) without the aperture coupling prong (slotted projection), looking in the aperture window on the back of the Photomic Finder, adjust, beforehand, the position of the slider at the bottom so that the F-number to be given to the lens is visible in the center of the aperture window.

Then, rotate the shutter selector, until the pointer needle of the Meter Sets in position.

In case a particular shutter speed is to be used, set the shutter speed selector at the speed desired and while centering the pointer needle, take reading of the aperture value in the aperture window, and set the aperture ring of the lens to the value obtained.

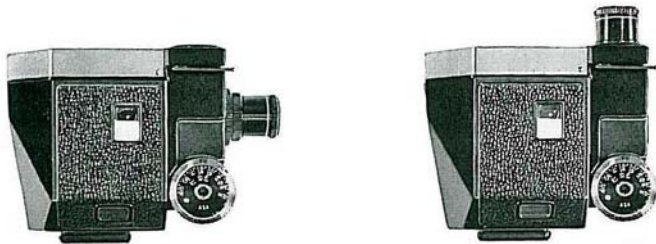
The strap in the leather case is for holding the eye-level or waist-level finder (Fig. 1). The Photomic Finder can be tucked in without using it (Fig. 2).

The rear cover can interchangeably be used (Fig. 3) on the bottom of the finder, whichever type the finder may be.



The acceptance angle converter tube and incident light opaline when not used, can be attached by screwing onto the lid of the meter battery chamber one over another.

Note that they cannot be used on the front of the exposure meter the same time.





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