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ME PRISM FINDER S

INSTRUCTIONS



The ME Prism Finder S, which you have purchased, has been specially designed as an integral accessory in the Zenza Bronica SQ/SQ-A System of Photography and converts the SQ/SQ-A into a ME (Manual Exposure Control) type eye-level viewing camera.

To obtain best results from the ME Prism Finder S, when attached to the Zenza Bronica SQ/SQ-A, it is suggested that you carefully read through this instruction manual once, as your pleasure in using the SQ/SQ-A with the ME Prism Finder S will be even greater if you thoroughly familiarise yourself with its operation before trying it for the first time.

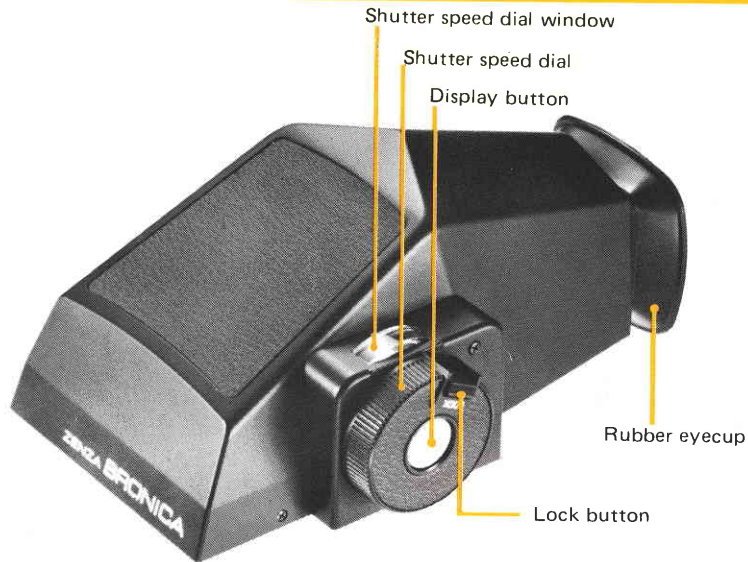
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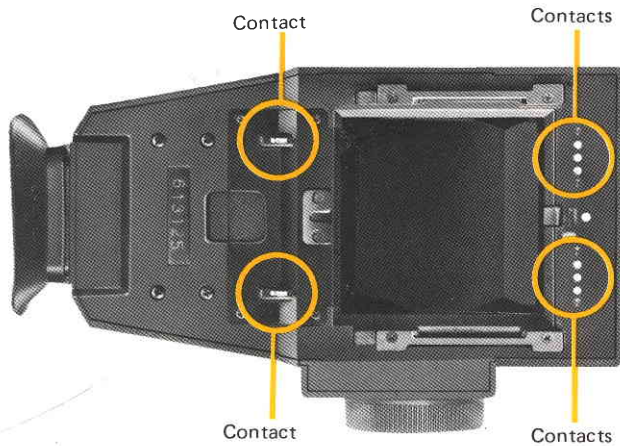
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Specifications

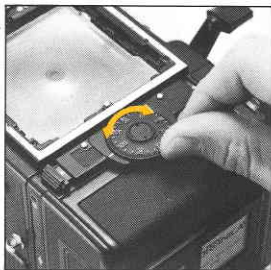
Magnification	: 0.75x, with the standard 80mm lens
Finder field	: 52.3 x 52.3mm (94% x 94%)
Eyepiece diopter correction	: Standard magnifier -1.5 diopters; corrections from -4.5 to +1.5 diopters possible by exchanging magnifier.
Exposure measuring system	: TTL (thru-the-lens) full aperture exposure measurements; full area average readings, with two CdS light receptors.
Shutter coupling range	: 8 seconds to 1/500 second (in 1/2 stop increments)
Exposure measuring range	: EV 4 to EV 16 (ASA/ISO 100 film)
Film sensitivity range	: ASA/ISO 25 to 3,200
Finder indications	: LED 3-point indications or over-exposure (red-colored), correct exposure (green-colored) and under-exposure (red-colored).
Dimensions	: 78.5mm wide x 134mm long x 61mm high, excluding rubber eyecup
Weight	: 390 grams

Name of Parts





1 Setting the Film Speed



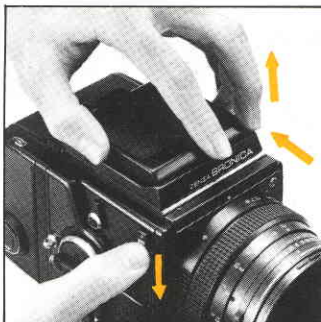
The film sensitivity of the film loaded in the film back is set with the film speed dial on the film back.

As illustrated, rotate the film speed dial with a slight lifting action.

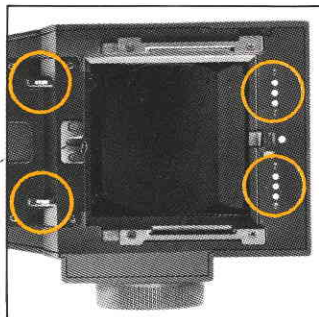
Film Speed Dial Scale (The film speed scale is actually marked as in the center row.)

ASA/ISO	25	32	40	50	64	80	100	125	160	200	250	320	400	500	640	800	1000	1250	1600	2000	2500	3200
Scale	25	.	.	50	.	.	100	.	.	200	.	.	400	.	.	800	.	.	1600	.	.	3200
D I N	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

2 Attachment/Detachment of the ME Prism Finder S

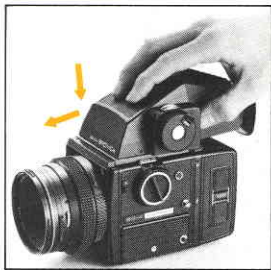


A. To detach the finder or the finder cover on the camera body, simply depress the finder release button, while, at the same time, sliding the finder or the finder cover backwards where it can be taken off.



B. Before attaching the ME Prism Finder S, first, wipe the contacts on both the camera body and the finder, with a soft cloth, to obtain optimum contact.





C. To attach the ME Prism Finder S, simply align the front end of the finder with the finder frame (the shiny square frame on top), as illustrated.

Then, gently lower the finder and, when well-seated, slide forward until it locks into place.

D. The shutter dial circuit in the camera body is automatically switched off, upon attachment of the ME Prism Finder S.

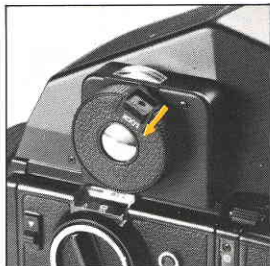
Therefore, the shutter speed dial on the body can be set to any speed, as it will have no effect on the exposure setting.

E. To detach the ME Prism Finder S, simply follow instructions in "A".

Simply depress the battery check button on the camera body and a battery check red-colored LED will light up in the central front area of the ME Prism Finder S, if the battery is loaded properly in the camera and if there is sufficient power for operations.

(See "Loading the Battery" and "Battery Checking" of the camera instruction manual.)

4 Diaphragm-Priority Exposure Adjustments



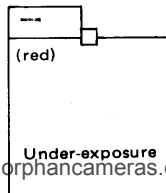
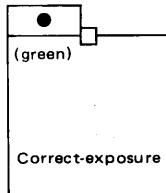
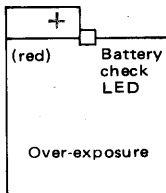
A. Rotate the aperture ring of the attached lens and set the required F/number opposite the white index dot.

* Intermediate aperture settings are not possible, when this finder is attached.

B. Depress the lock button inwards to release the display button. Depressing the display button will now allow exposure measurements for about 30 seconds.

C. Rotate the shutter speed dial either way, while checking the LED display in the finder, until the green-colored LED lights up. Always set the dial at the click-stop. The setting can be confirmed from the shutter speed dial window.

D. Exposure adjustments should be completed in about 30 seconds, as otherwise, it will be necessary to depress the display button once more to continue metering.



E. When exposure measurements are not required (such as, when storing the camera), move the lock button outwards and lock the display button. This will prevent accidental metering and, consequent, drain on the battery.

5

Shutter-Priority Exposure Adjustments

A. Adjust the shutter speed dial on the finder and set the required shutter speed.

B. Depress the display button, for taking exposure measurements, in the same manner as for diaphragm-priority exposure adjustments.

C. Rotate the aperture ring of the lens, in either direction, until the green-colored LED lights up.

The aperture ring should be stopped at the click-stop setting, in this case, as intermediate settings are not possible.

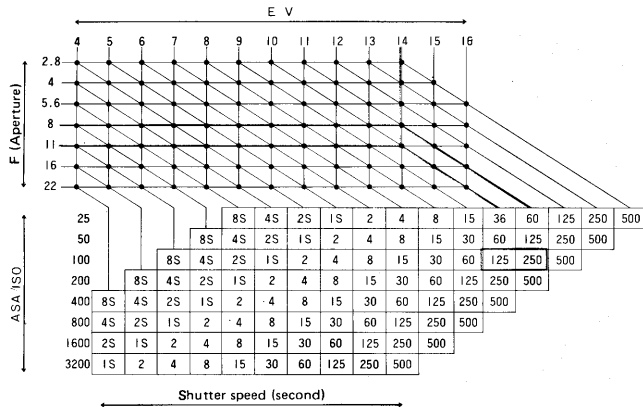
* Do not move the depth of field preview lever while metering, in both diaphragm-priority and shutter-priority modes, as there will be over-exposure, in this case, corresponding to the difference between the full aperture and the stopped-down aperture.

* Always place the eye flush against the eyecup, when making exposure adjustments, as otherwise light may leak in and affect the measurement.

* The shutter speed dial must always be stopped at the click-stop.

* When the ME Prism Finder S is fixed on top of the camera body, the red-colored LED above the focusing screen area will briefly illuminate as shutter closes, which means that it will prove very convenient at slow shutter speeds.

6 Relationship Between Shutter Speed, Aperture and Exposure



• How to use the Table:

If EV 14 is the correct exposure, with ASA/ISO 100 film, the shutter speed setting will be 1/250 sec., when F/8 is set to the aperture ring. (See the thick red lines drawn on the table.)

If the aperture should be set to F/11, in the above case, it can be seen that the shutter speed setting will become 1/125 sec.

A "brightness of EV 14" is the brightness outdoors on a bright sunny day.

• Exposure Measuring Range

The exposure measuring range with the ME Prism Finder S is EV 4 to EV 16 (with ASA/ISO 100 film).

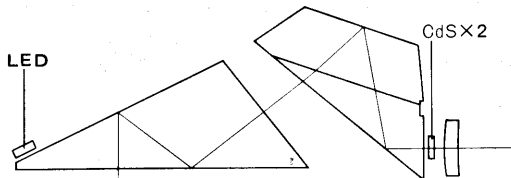
EV, or exposure value, is a combination of shutter speed and aperture (F/number), as determined by the film speed and the intensity of the light.

• The shutter speed indications are read:

1S – 8S: 1 second to 8 seconds

2 – 500: 1/2 second to 1/500 second

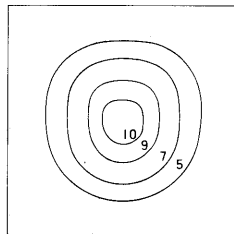
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Optical Path Drawing

Exposure Measuring Position

Two CdS light receptors are located in the position illustrated. Since they are attached parallel to each other, the meter sensitivity pattern is that shown to the right.

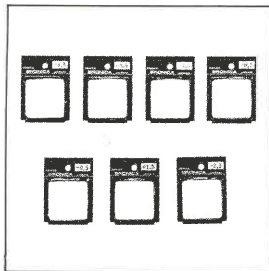


Meter Sensitivity Pattern

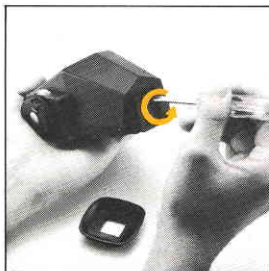
Exposure Measuring Sensitivity Pattern

Since the ME Prism Finder S has a full aperture exposure measuring system, it has the sensitivity pattern illustrated no matter what the aperture setting. In the above pattern, the numbers indicate the ratio of sensitivity for the zones. Thus, if the sensitivity of the innermost "10" zone is considered to be 100, the outermost "5" zone is 50%.

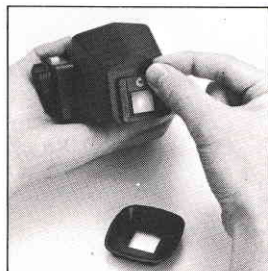
7 Exchanging the Magnifier



1) The standard magnifier supplied with the ME Prism Finder S has a power of -1.5 diopters. When found unsuitable, however, it can be exchanged for one of six optional magnifiers with powers of -4.5 , -3.5 , -2.5 , -0.5 , $+0.5$ and $+1.5$ diopters.



2) To exchange magnifier, first, detach the eyecup. Then, unscrew the setscrew on the magnifier frame and it will be possible to remove the magnifier together with the frame.



3) To attach the replacement magnifier, simply place the bottom edge of the frame into position and then screw in the setscrew at the top of the frame.

4) Finally, replace the eyecup.

8

Care and Storage

- Cleaning of the magnifier and prism should be restricted to blowing with the blower brush, after which lens cleaning tissue and liquid should be used to lightly wipe the surfaces.

Do not use silicon-coated cloth, as it will prove harmful to the coating.

- However, use the silicon-coated cloth, or a soft cloth, to clean the exterior of the accessory and never use solvents, such as lens cleaning liquid, alcohol or thinner, for this purpose.
- Do not leave the accessory for a long time in extremely hot locations, such as summer beach or car parked in the sun, as the accessory may be affected, leading to improper exposure measurements and even to damage.

Should the camera and accessory become over-heated, under the above circumstances, let them return to the ambient temperature level before using them.

- Wipe and clean the accessory very carefully after using it in wet weather or at the seashore.

- If the accessory has been exposed to salty air (or water), wipe the exterior carefully with a well-wrung damp cloth (using fresh water). Then, dry with a soft, dry cloth. And, have the accessory inspected at the authorized repair station, if necessary.
- Store the accessory in a tin-lined container, with plenty of desiccant, such as silica gel, if it is not being used for some time. And, store in a cool, dry and well-ventilated (but not windy) location, free of naphthalene and/or camphor.

