

BRONICA ETR Si

AE-III PRISM FINDER E

INSTRUCTIONS

BRONICA

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Congratulations on your choice of the AE-III Prism Finder E which has been designed as an integral accessory for the Zenza Bronica ETR System of photography.

The AE-III Finder E has been designed to provide the user with automatic exposure (AE) control in combination with eye-level viewing of a laterally correct and erect image. Switching from aperture-priority TTL automatic exposure to manual exposure control is also possible, as well as switching from full-area average metering to spot metering, which means versatile exposure determination are possible to match all manner of photographic conditions.

The AE-III Finder E also incorporates a variable diopter eyepiece system. This makes possible stepless adjustments of the standard eyepiece power from -2.5 to $+0.5$ diopters, providing the user with a comfortable and very accurate means for focusing the subject.

To ensure best results from your AE-III Finder E, may we suggest that you read this instruction manual carefully, before using the accessory. Proper handling and care of your AE-III Prism Finder E should provide you with years of reliable service.

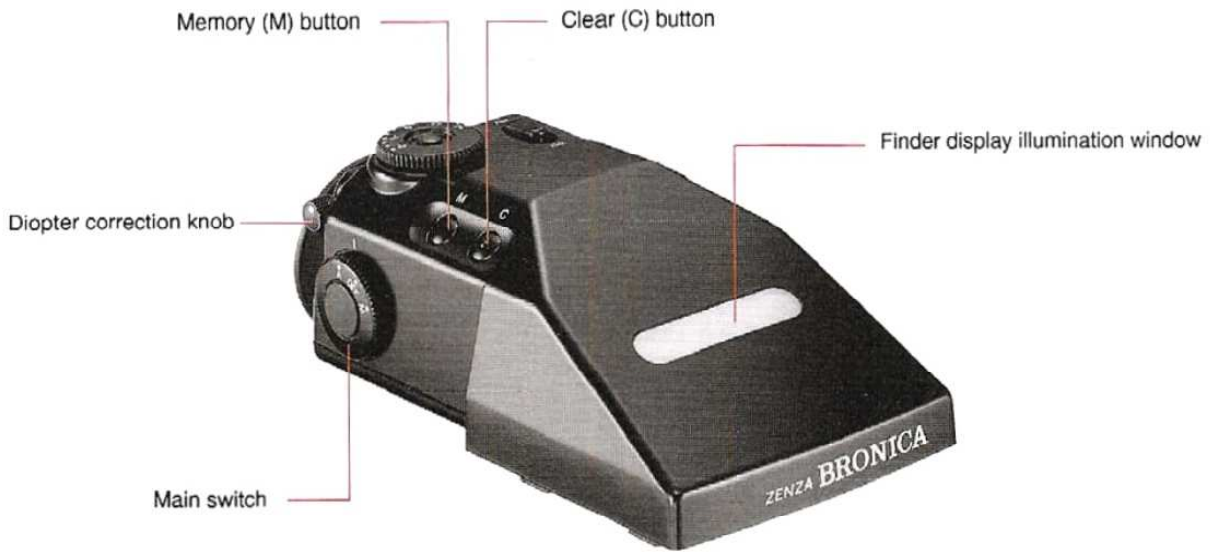
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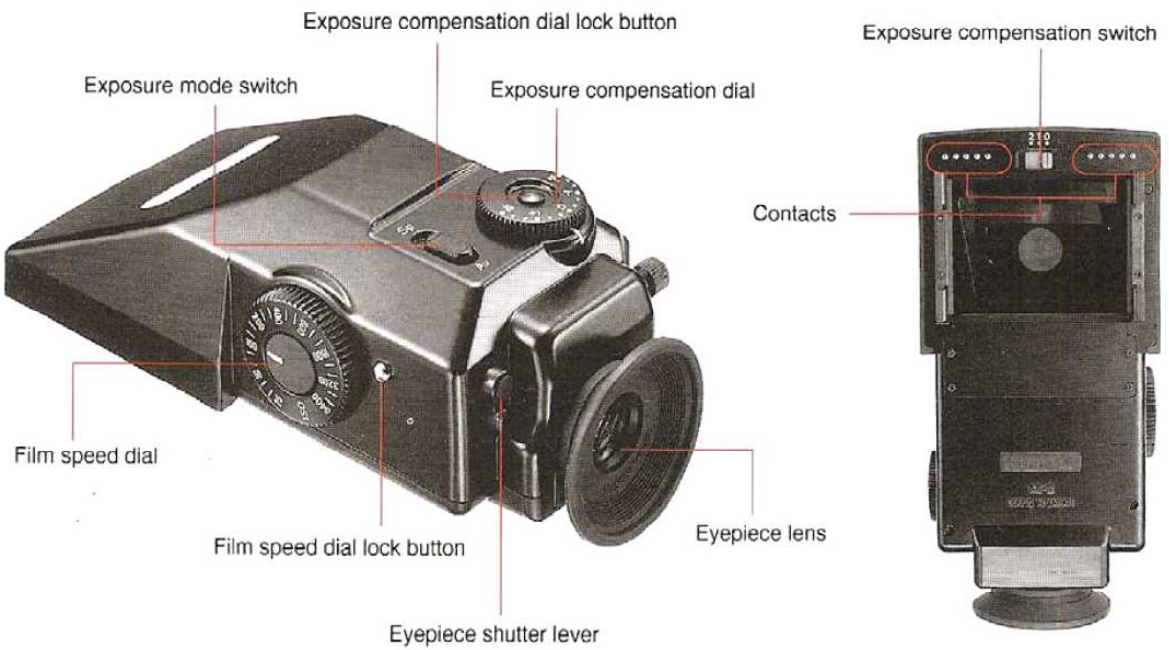
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Name of Parts



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Name of Parts



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Specifications

Type	Eye-level prism finder with laterally correct and upright image and built-in exposure meter (also incorporates adjustable eyepiece system).
Attachable models	Zenza Bronica ETRSi, ETRS and ETRC (aperture-priority AE and manual exposure control); Zenza Bronica ETR and ETR-C (manual exposure control only).
Magnification	0.75x, with standard 75mm lens at infinity and at zero diopter correction.
Finder field	40.6 × 51.6mm (96% × 94%)
Eyepiece diopter correction	Continuously variable; standard eyepiece lens can be further corrected with optional plus eyepiece lens and minus eyepiece lens.
Range w/standard eyepiece	+0.5 to -2.5 dptr. continuously variable.
Range w/plus eyepiece	+3 to 0 dptr. continuously variable.
Range w/minus eyepiece	-2 to -5 dptr. continuously variable.
Exposure measuring system	TTL full aperture exposure measurements; full-area average measurements switchable to spot measurement.
Shutter coupling range	3 silicon photocell (SPC) light receptors; two cells exclusively for average measurements and one cell exclusively for spot measurements. 32 seconds to 1/500 second, in 1/12th steps, on AUTO. 8 seconds to 1/500 second, with shutter speed dial on camera body, on MANUAL.
Exposure measuring range	EV 1 to EV 19 (ISO 100)
Film speed coupling range	ISO 25 to 6400 (DIN 15 to 39)
Exposure compensations	±2 EV (in 1/3rd step increments)
Exposure control modes	Aperture-priority AE (automatic exposure) and Manual.
Finder indications	LCD 7-segment number and letter indications (automatic backlight illumination).
On AE :	Illuminated display of shutter speed (in 1/2 step increments) and "AE".

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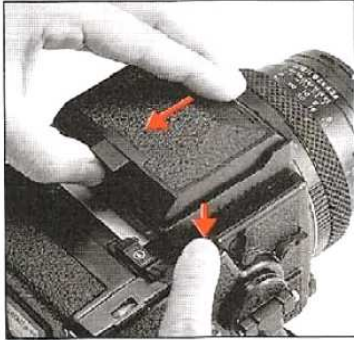


On Manual :	Illuminated display of shutter speed (in 1/2 step increments) and "M".
Other Displays :	AE lock: L / Spot metering: ● / Average metering: [] / Exposure compensation: + or - / Error: Err / Outside the coupling range — Outside the metering range: flickering at 2 Hz
AE lock	Possible in AE mode only. Locks for 1 min.
Spot metering area	10mm circle in center of finder area (7.6° angle of acceptance with standard 75mm lens).
Dimensions	69mm (width) × 134.7mm (length) × 51.3mm (height) (excluding rubber eye-cup).
Weight	345 grams
Accessories	Rubber eye-cup E (for AE-III Finder E) small — 1 each (supplied on finder). Rubber eye-cup E (for AE-III Finder E) large — 1 each (supplied in same package).

Specifications and contents of the instruction manual are subject to change, without prior notice.

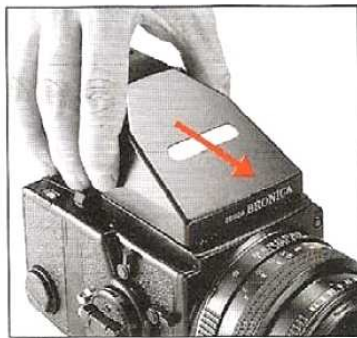
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1 Procedures Before Photography



Attachment of AE-III Finder E

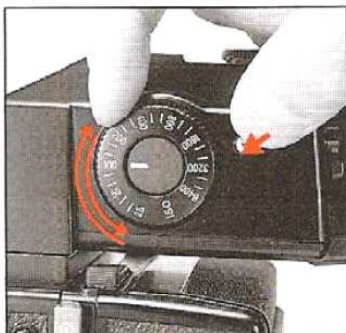
A. First, remove the present finder or Camera Top Cover attached to the camera. Simply depress the finder release button (on the camera body) and slide the finder or protective cover towards the rear, where it can be lifted away from the camera body.



B. To attach the AE-III Finder E, remove the finder's protective base cover. Insert protrusions on the base of the finder into corresponding openings in the finder frame. Slide the finder forward until it locks into place. (Note : A good alignment indicator is to position the front of the finder just to the rear of the camera body's gold contacts)

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C. Always inspect the contact points on the camera body and the base of the AE-III Finder E, before attaching the finder. If necessary, use a clean, lintfree cloth to wipe the contacts clean. This will help to assure proper contact and correct readings. Always protect the base of the detached finder with the protective base cover.



Setting the Film Speed

A. To set the film speed or sensitivity of the film loaded in the film back, rotate the film speed dial while depressing the film speed dial lock button at the same time. Set the required film speed to the index.

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

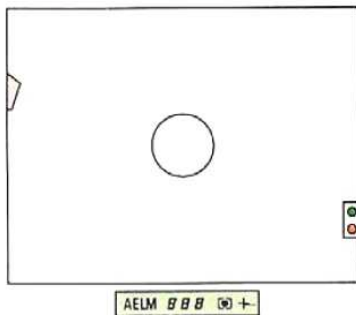
ISO	25 32 40 50 64 80 100 125 150 200 250 320 400 500 640 800 1000 1250 1600 2000 2500 3200 4000 5000 6400
Scale	25 · · 50 · · 100 · · 200 · · 400 · · 800 · · 1600 · · 3200 · · 6400
DIN	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39



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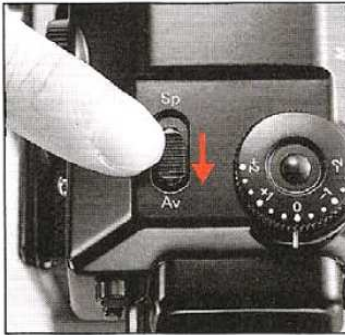
Battery Checking

- A. Press the battery check button on the main camera body and check for a red-colored LED inside the right-rear corner of the screen (with the finder attached).
- B. Switch on the finder's main switch (i.e., set to "A" or "M"). Depress the shutter release button halfway and check battery condition with the LCD indication inside the finder. If battery power is insufficient, the



Finder Indications

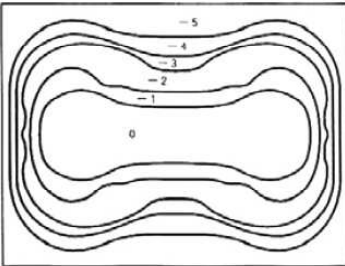
- LCD display will only be illuminated for about 0.5 sec. and then go out.
- (In the case of the ETR (including the earlier ETR-C), use the clear(C) button on the AE-III Finder E in place of the shutter release button and check battery condition with the LCD display.)
- C. If battery check is satisfactory as described in both A and B above, the battery is properly installed and there is sufficient power.



Switching the Exposure Measurement Mode

A. Average Metering

Slide the exposure mode switch of the AE-III Finder E to the Av indication, which will change the mode to average exposure measurement, with the □ mark indicated in the finder. (See illustration)



Average Metering Sensitivity Pattern Unit : EV

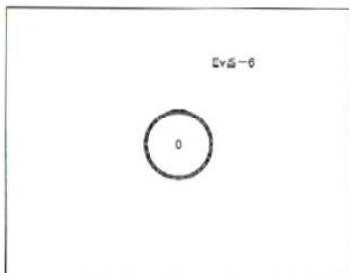
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B. Spot Metering

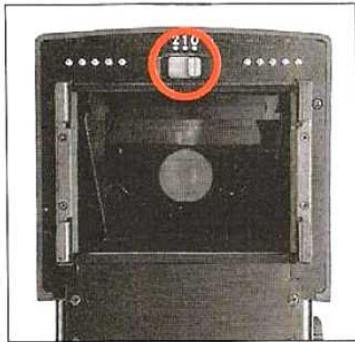
Sliding the exposure mode switch to the Sp position, will switch the exposure mode to spot metering and the ● mark will be displayed inside the finder.

A circular area of about 10mm diameter in the center of the finder screen will be measured within the meter sensitivity pattern shown (see illustration).



Spot Metering Sensitivity Pattern Unit : EV

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Exposure Compensation Switch

The exposure compensation switch is located on the bottom surface of the finder, at the front end between ten contact points, and is used when a predetermined exposure compensation is constantly required. It can be used, for example, when the film sensitivity should be changed, when it is necessary to change development conditions for black-and-white film, etc.

The amount of exposure compensation is determined by the setting of the exposure compensation switch, with no compensation when set to 0, +0.3EV compensation when on 1 and +0.6EV compensation when set to 2.

For normal photography, always confirm that the exposure compensation switch is set to 0, as there is no warning indication that exposure compensation is in effect.

Differences Between the ETR-C and ETRC

The two models, Zenza Bronica ETR-C and Zenza Bronica ETRC, are differentiated in this instruction manual. The differences between these two models are:-

1. The ETR-C is based on the ETR and is a fixed film back type camera. Manual exposure control is possible in combination with the AE-III Finder E.

The ETRC is based on the ETRS and is also a fixed film back type camera. Both AE and manual exposure are possible in combination with the AE-III Finder E.

2. External differences of the ETR-C and ETRC are shown in the following table:-

Shape of strap attachment device	ETR-C : Neck strap stud for hooking the device. ETRC : Neck strap eyelet for passing the device.
Nameplate (on left side of the body)	ETR-C : ETR-C (with hyphen) ETRC : ETRC (without hyphen)
Battery checking lamp	ETR-C : Green-colored LED behind shutter dial window. ETRC : Red-colored LED indication in finder.

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Diopter Adjustment

Adjustment of the Standard Eyepiece

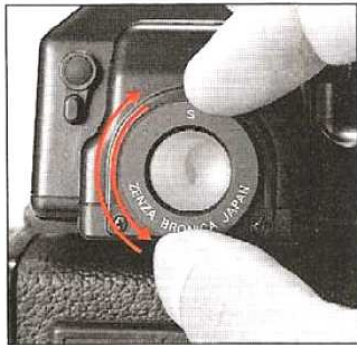
The eyepiece has a continuously variable diopter adjustment system. This makes possible continuous adjustments in the diopter power the eyepiece lens within a range of +0.5 to -2.5 diopters. If necessary, additional correction is possible with the plus (+) eyepiece lens (optional) for a +3 to 0 diopter continuously variable, and the minus (-) eyepiece lens (optional) for a -2 to -5 diopter continuously variable. Thus, it is possible to adjust from +3 to -5 diopters.

Adjustments are made by turning the diopter correction knob, while looking through the finder eyepiece, until the battery check LED in the right-rear corner of the screen can be observed distinctly. To light up the LED, press the battery check button on the main camera body.

(In the case of the ETR/ETRS,

use the microprism spot in the center of the focusing screen, instead of the battery check LED.) Turn the diopter correction knob clockwise to adjust for a plus correction and counter-clockwise to adjust for a minus correction. The diopter correction knob has an angle of rotation of about 180 degrees of the arc, however the index should only be used as a guide to making adjustments.





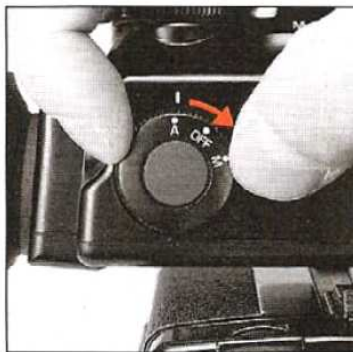
Exchanging the Eyepiece Lens

A total of three adjustable diopter eyepiece lenses are available for the AE-III Finder E. The standard eyepiece lens, the plus (+) eyepiece lens and the minus (-) eyepiece lens.

To exchange the eyepiece lens, remove the rubber eyecup, if attached, then rotate the attached eyepiece lens in a counter-clockwise direction to remove. Rotate the replacement eyepiece lens in a clockwise direction to attach.

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3 Picture-Taking



Aperture-Priority Automatic Exposure

The shutter speed is controlled in 1/12th step increments from 32 seconds to 1/500 second in the case of aperture-priority automatic exposure control.

*Camera bodies which can be used for AE photography are the Zenza Bronica ETRSi, ETRS and ETRC models.

*AE photography is not possible with the Zenza Bronica ETR and ETR-C models and, therefore, these models should be used in the manual exposure control mode only.

A. Set the main switch of the AE-III Finder E to "A" for aperture priority AE control.

B. Rotate the aperture ring of the attached lens to set the required aperture.

With all ETR lenses, auto-exposure control is possible at click-stop settings only. With "E"

lenses, click-stops are available at settings with *f*/numbers, and with "PE" lenses, at intermediate 1/2 stop settings as well.

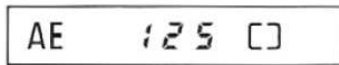
*Note: This information applies to metering functions only. All ETR lenses, whether "E" or "PE" may be set to any aperture setting when the AE-III Finder E is turned off.

C. In order to display the shutter speed selected by the AE-III Finder E, depress finder buttons as per the following table. The shutter speed is a 7-segment LCD (liquid crystal display) indication, with the shutter speed adjusted in 1/2 step increments. The LCD display will remain illuminated for 16 seconds after releasing pressure on the button.

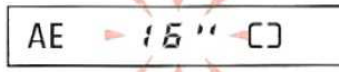
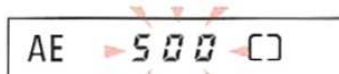
Upon releasing the shutter, the shutter speed display will stay illuminated while the shutter is open and will go out when the shutter closes.

Main Camera Body	Button to Depress	Display Time
ETRSi ETRS ETRC	Shutter release button of main camera body or clear button of the finder will illuminate shutter speed display.	16 sec.

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AE



Outside the Shutter Speed Range

*If the shutter speed required to obtain a proper exposure for the preset aperture is faster than 1/500 sec. or is longer than 16 seconds, there will be a 2 Hz flickering of either "500" or "16", as a warning that the proper exposure is outside the shutter speed range. The aperture ring of the lens should be rotated until the shutter indication is illuminated and no flickering of the shutter speed occurs.

*When the brightness is outside the exposure measurement range, the shutter speed computed for the preset aperture will flicker at 2 Hz as a warning.

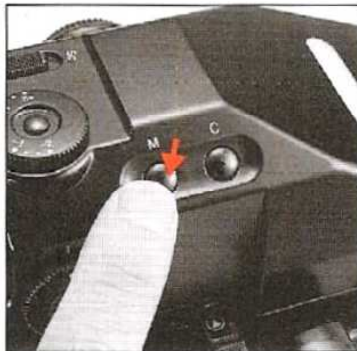
*When a lens, extension ring, etc. is not attached properly, the LCD display may show "Err". In this case, re-attach the lens, extension ring, etc., as the case may be, properly and check once more.

AE Lock

When AE lock is utilized in aperture-priority AE operations, the brightness of a predetermined section of the subject within the finder area is memorized and, therefore, makes it possible to deliberately adjust exposure over or under, as required. It is recommended that the spot metering mode be used in this case. For mirror lockup operation in the automatic mode, take an AE reading first. Activate AE lock, lock the mirror up and then release the shutter.

*AE lock is only possible in the aperture-priority AE mode.

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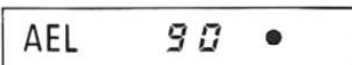


A. When the memory button (with the "M" indication) of the AE-III Finder E is depressed, the LCD display is illuminated and the finder starts exposure measurement. (At this point, in the case of normal AE metering, the exposure measurement value will change continuously.)
B. Release pressure on the memory button when the point to be metered is determined. The exposure will be memorized and locked for a one minute period, after releasing pressure on the memory button.

At this time, "L"(for AE lock) will be indicated in the finder. After one minute, AE Lock will be cancelled and the LCD display will go out.

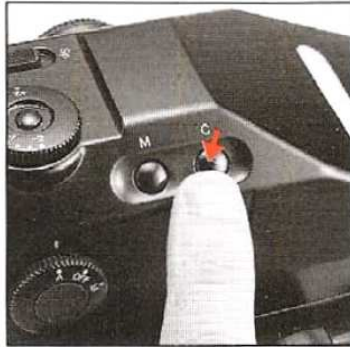
*Should the aperture, ISO film speed and exposure compensation be changed during AE lock, the LCD shutter speed indication and the actual operating shutter speed will change correspondingly.

*During AE Lock, should the shutter release button be depressed halfway and the pressure then released, the AE lock memory will continue while the button is depressed halfway. There will be an extension of the AE lock action for another one minute period from the time that pressure is removed from the shutter release button.



AE Lock Indications

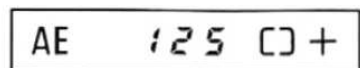
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* If the memory button is depressed once more during AE lock, AE lock will be cancelled. When pressure is released on the button, a new exposure measurement will be memorized and another one minute AE lock period will start. Should the shutter release button be depressed halfway at this time, it will not be possible to cancel AE lock.

C. In order to cancel AE lock midway, either press the clear button or change the exposure mode switch setting.

	Clear Button	Shutter Release Button
LCD Display	Illuminates when button is depressed.	
AE Operation	Operates in the AE mode.	
Display Illumination Time	16 seconds after releasing the button.	
AE Lock	Cancelled	Will continue to memorize. Memory period will be extended.



Exposure Compensation Indication

Clear Button and Shutter Release Button

The clear button is used when it is necessary to cancel AE lock at midpoint or when exposure indication is required. The difference with the shutter release button use is shown as follows :

Exposure Compensation Dial

Exposure compensation up to two stops on the over(+) side and under(-) side are possible in 1/3rd step increments, with the exposure compensation dial located on top of the finder. A "+" or "-" indication will be seen in the finder while exposure compensation is in effect. Normally, the exposure compensation dial should always be set to "0".

A. Rotate the exposure compen-

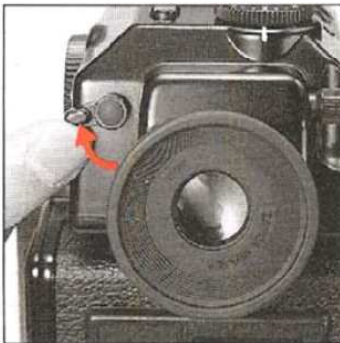
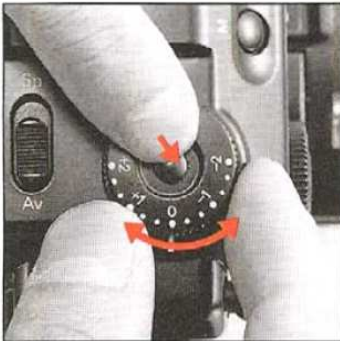
sation dial while depressing the exposure compensation dial lock button and set the dial to the required exposure compensation. The dial only locks at "0".

Once the lock is released, the dial can be rotated without depressing the lock button.

B. After taking the picture with exposure compensation, always return the exposure compensation dial to the "0" setting.

Eyepiece Shutter

When the user's eye must be taken away from the eyepiece lens during photography, the eyepiece shutter should be closed to prevent the entry of ambient light through the eyepiece lens which could influence the exposure meter reading. Rotate the eyepiece shutter lever in the arrow-indicated direction and the red-colored eyepiece shutter will be closed.



Manual Exposure Control

Manual exposure control should be undertaken in the following cases;-

- 1) When it is required to photograph at a desired shutter speed.
- 2) For flash photography.
- 3) For time exposure photography on bulb (B) or time (T).
- 4) For special effects photography.
- 5) For use as an independent exposure meter.

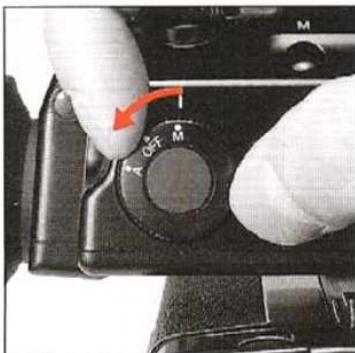
When using the AE-III Finder E with the Zenza Bronica ETR and ETR-C model camera bodies, always use in the manual exposure control mode only.

Aperture-Priority Manual Exposure Control

A. Set the main switch of the finder to "M".

B. Rotate the aperture ring of the attached lens and set the required f/number opposite the index.

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In the case of the Zenzanon-PE lens, there are click-stops at the f/number positions and intermediate 1/2 stop positions, with the finder metering system working at all such click-stop positions.

* As a reminder, when metering, Zenzanon-E and E II lenses cannot be used between f/number positions with the meter turned on, as there are no click-stop detents at these settings to transfer metering information. After taking a reading at a f/number position, turn off the meter finder and you can set the aperture to any in-between f/number setting you wish for precise exposure control.

C. Confirm the shutter speed with the shutter release button or the clear button. The shutter speed will be shown in 7-segment LCD display in 1/2 step increments, together with "M", indicating manual exposure

control. The indication will be illuminated for 16 seconds after releasing pressure on the button.

* When used with Zenza Bronica ETR or ETR-C camera body, use the clear (C) button for checking the exposure indication. There will be no exposure indication by depressing the shutter release button halfway. The 1/500 sec. indication may flicker when the shutter release button is depressed halfway. This is not the proper procedure to obtain a reading with either the ETR or ETR-C camera body. Always use the "Clear" (C) button for determining proper exposure.

* In the case of manual exposure control, the shutter will be released at the shutter speed setting set to the shutter speed dial of the main camera body, in spite of the indication in the finder.

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M 125 C

Manual Mode

D. Set the shutter speed indicated in the finder, or an intentionally compensated shutter speed, to the shutter speed dial of the main camera body.

E. Illumination of the finder's indication will go out when the shutter is released.

Shutter-Priority Manual Exposure Control

A. Set the main switch of the finder to "M".

B. Set the required shutter speed to the shutter speed dial of the main camera body.

C. The shutter speed can be indicated in the finder with the shutter release button or clear button. The shutter speed will be indicated in 7-segment LCD display in 1/2 step increments, together with "M" indicating manual exposure control. The indication is illuminated for 16 seconds after releasing the button.

* When used with the Zenza Bronica ETR or ETR-C camera body, use the clear(C) button for checking the exposure indication. There will be no exposure indication by depressing the shutter release button halfway. The 1/500 sec. indication may

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flicker when the shutter release button is depressed halfway. This is not the proper procedure to obtain a reading with either the ETR or ETR-C camera body. Always use the "Clear" (C) button for determining proper exposure.

* In the case of manual exposure control, the shutter will be released at the shutter speed setting set to the shutter speed dial of the main camera body, in spite of the indication in the finder.

D. Rotate the aperture ring of the attached lens so that the same value, or an intentionally compensated value, as the shutter speed set to the main camera body, is indicated in the finder.

The Zenzanon-PE lens has click-stops at the numbered settings, as well as intermediate 1/2 stop positions.

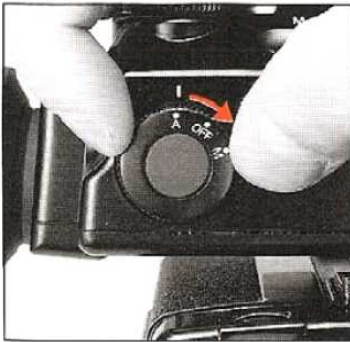
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E. The finder's indication will go out when the shutter is released.

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Mirror Lock-up Photography

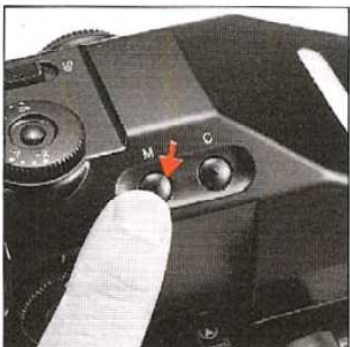
Photography in combination with mirror lock-up must be undertaken in the AE lock mode or with manual exposure control. Photography in the AE mode, without AE lock, will result in shutter release at 1/500 sec.



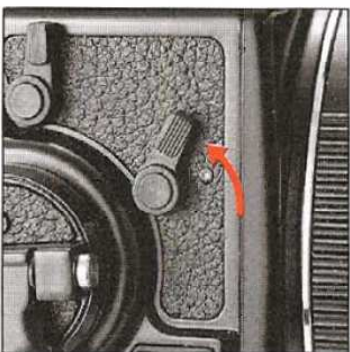
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Mirror Lock-up in the AE Mode

A. Set the main switch of the finder to "A". It is recommended that the exposure mode switch be used at "Av" (average metering).



B. Depress the memory button of the AE-III Finder E and then release pressure. This will input the exposure measurement into memory and activate the AE lock mode.



C. Lock up the mirror with the mirror lock-up lever on the main camera body, within one minute of activating the AE lock mode.

D. Shutter release should take place within one minute after mirror lock-up. The AE lock condition will be maintained for one minute after mirror lock-up and the LCD display will be illuminated during this time.

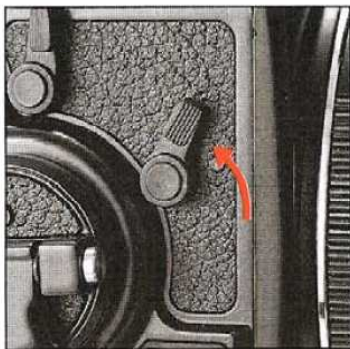
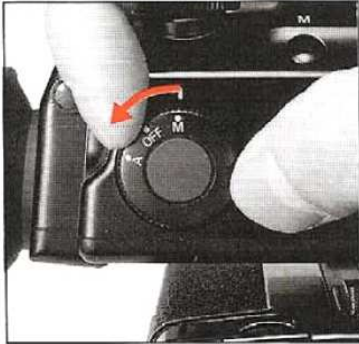
* The shutter release button should be depressed halfway or the memory button should be depressed, within one minute, and AE lock will be extended for another minute from that point.

* AE lock will be cancelled, in the following cases, with the shutter released at 1/500 sec. if the shutter release button is depressed :-

- 1) When the clear button is depressed.
- 2) When the exposure mode switch is changed to another setting.
- 3) Elapse of one minute after mirror lock-up, with the LCD indication also going out.

* AE lock with mirror lock-up is

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only effective for the first frame following mirror lock-up. If shooting continues in the mirror lock-up mode, the 2nd and following frames will be exposed at 1/500 sec. When it is required to repeat mirror lock-up, mirror lock-up must be cancelled once and then activated after moving into the AE lock mode.

* If the main switch of the finder is moved from "OFF" to "A", after mirror lock-up, and the shutter is then released an error in the camera's operation may occur. For mirror lock-up in the AE mode, always lock the mirror up after setting the AE lock.

* AE lock is not possible after mirror lock-up.

Mirror Lock-up in the Manual Exposure Control Mode

A. Set the main switch of the finder to "M". The exposure mode switch should be changed, as required.

B. Determine the exposure, as explained earlier, for Aperture-Priority and Shutter-Priority Manual Exposure Control Modes.

C. Lock the mirror up with the mirror lock-up lever on the main camera body. The LCD indication will go out with mirror lock-up.

D. Release the shutter. An LCD indication for 1/500 sec. will be displayed during the exposure, but the shutter will actually be firing at the shutter speed set to the main camera body.

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Pointers on Picture-Taking

- 1) When using the AE-III FINDER E with the Zenza Bronica ETR and ETR-C model camera bodies, always use in the manual exposure control mode only.
- 2) When shooting hand-held, should the shutter speed required for taking the picture be slower than 1/30 sec., place the camera on a solid and stable surface, or use a suitable tripod.
- 3) When shooting in the AE mode, use the eyepiece shutter to prevent entry of ambient light through the finder eyepiece if the eye must be removed from the eyepiece.
- 4) When shooting in the AE mode in very dark situations or, with the front lens cap attached, will cause unnecessary excessive power drainage and shorten the battery-life. Use the "T" setting on the lens for any lengthy time exposures.
- 5) Always set the main switch of the finder to "OFF", while moving from shooting site to shooting site, when resting between shots, or when storing the camera, in order to prevent battery drainage.
- 6) Always check the film speed dial of the finder

when attaching a new film back upon exchanging film backs, so that the film speeds on the film back and AE-III FINDER E always match.

7) Flash photography should be accomplished with the AE-III FINDER E set to manual exposure control, as there will be a tendency for over-exposure to occur when shooting in the AE mode.

8) Always confirm that the shutter has actually closed, before advancing the film to the next frame, especially when taking pictures with a very slow shutter speed in the automatic or manual mode. If film winding takes place before the shutter closed, the frame will be underexposed and image streaking will occur. In addition, there may also be leakage of light onto the next frame as well. In the case of the ETRS and ETRSi models, a red-colored LED will blink briefly in the right-rear corner of the focusing screen area (when the AE-III FINDER E is attached) to indicate that the lens shutter has actually closed. When using a slow shutter speed, therefore, always wait for this LED indication before advancing the film.

9) When taking time exposures, set the main

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switch of the finder to "OFF", in order to prevent excessive drainage of the battery.

10) The shutter release button must not be depressed while the memory button or clear button is also being depressed. There will be a mis-operation of the finder's electronic circuit in this case, and the exposure will not be correct.

11) Continuous shooting should be avoided immediately after switching the finder's main switch from "OFF" to "A". The exposure for the 2nd and following frames in continuous shooting may not be accurate in this case.

12) If the shutter release button, memory button or clear button is depressed while the backlight is illuminated, the backlighting may go out. This will be an indication that the battery capacity is quite low and, therefore, the battery must be replaced immediately.

13) The depth of field preview lever on the lens must not be used for taking an exposure reading, with the AE-III Finder E, in both automatic and manual exposure operations. If exposure measurements are taken with the depth of field lever

depressed, the shutter speed setting indicated will cause over-exposure. This is because proper exposures are obtained with exposure measurements made at the full aperture.

14) When photographing subjects of low brightness (photography under low-light conditions), illuminate the LCD indication and check exposure indication before releasing the shutter. Should the indication be outside the coupling range of the exposure meter for the preset aperture (outside the shutter speed control range), the exposure may not be correct.

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4 Pointers on the Finder Indication

Holding the Meter Reading

When the main switch of the finder is set to "A" or "M", pressing the shutter release button halfway or pressing the memory button or clear button will illuminate the LCD display.

The LCD display will continue to be illuminated while one of these buttons is depressed.

The LCD display will also continue to be illuminated for 16 sec. after releasing pressure on these buttons. (The time illuminated will be one minute in the AE lock mode.)

Backlighting the Display

1) Backlighting will automatically be switched on when the ambient lighting (or the amount of light entering through the finder display illumination window) becomes dark.

2) The backlight illumination period is 6 sec. when the LCD display is already illuminated. The backlight will go out automatically after 6 sec. If the backlight needs to be illuminated once more, simply depress the shutter release button halfway.

3) If the backlight is also illuminated when the LCD display is illuminated with the shutter release button, etc., the backlight will go out 6 sec. after releasing pressure on the button.

4) The backlight will also go out when illuminator

of the LCD display goes out.

5) If the shutter release button, etc., is continuously depressed halfway, the backlight will also continue to be illuminated, even if the ambient light level becomes brighter.

Warning Indications

1) Indication that the reading is outside the coupling range of the exposure meter : If the shutter speed for the preset aperture is faster than 1/500 sec. "500" will flicker at 2 Hz and if slower than 16 sec. "16" will flicker at 2 Hz.

*When "16" flickers in the AE mode, the shutter will operate at shutter speeds between 16 to 32 seconds.

2) Indication that the reading is outside the exposure measurement range : If the brightness is outside the exposure measurement range, the shutter speed computed for the exposure measurement will flicker. (The exposure measurement accuracy cannot be guaranteed in this case.)

3) Indication of error : When the lens, extension tube, etc., are not properly attached, "Err" will be indicated and will also flicker. This indication will go out upon releasing pressure on the button.

4) Indication when battery capacity is insufficient : When the LCD display is being illuminated, it will

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Err

go out. Or, when the LCD display is illuminated, it will go out after about 0.5 sec. of illumination. In the above cases, the capacity of the battery should be considered quite low and, therefore, always exchange the battery for fresh one immediately.

5) When the LCD display is illuminated after mirror lock-up : "500" will flicker at 2 Hz and the illumination will go out when pressure is released on the button.

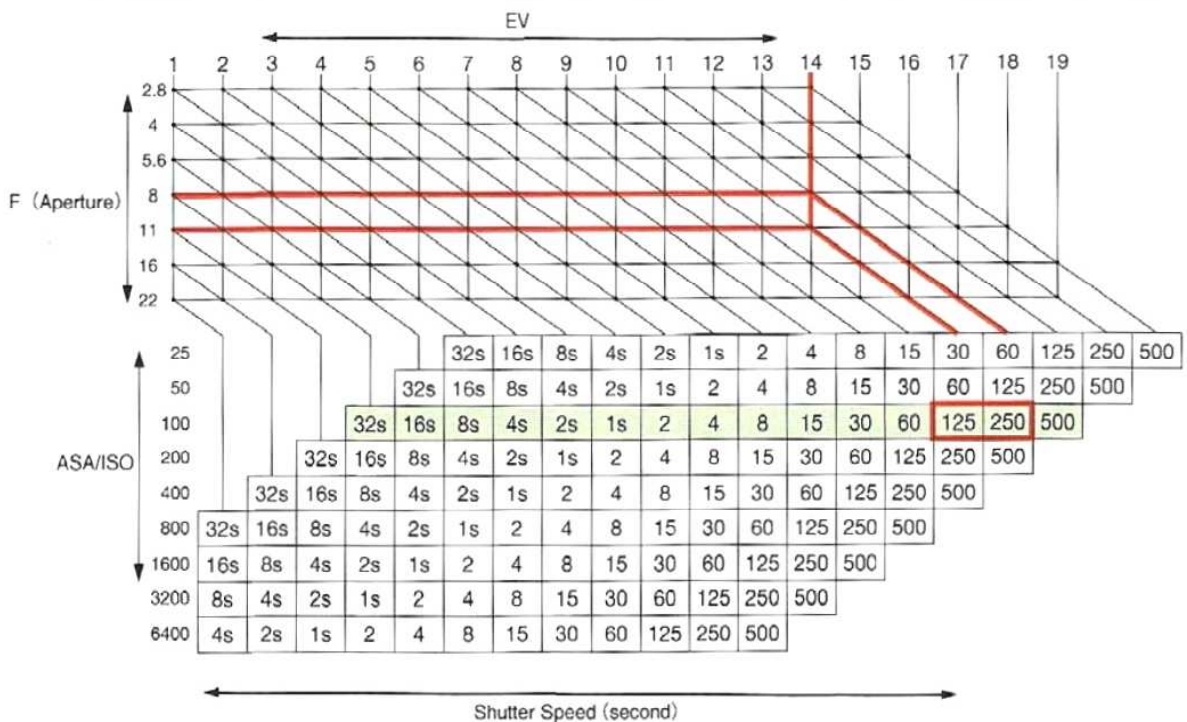
LCD (Liquid-crystal display) Display

* When the LCD is exposed to high temperatures it may blacken, but when the temperature normalizes, it may return to normal.

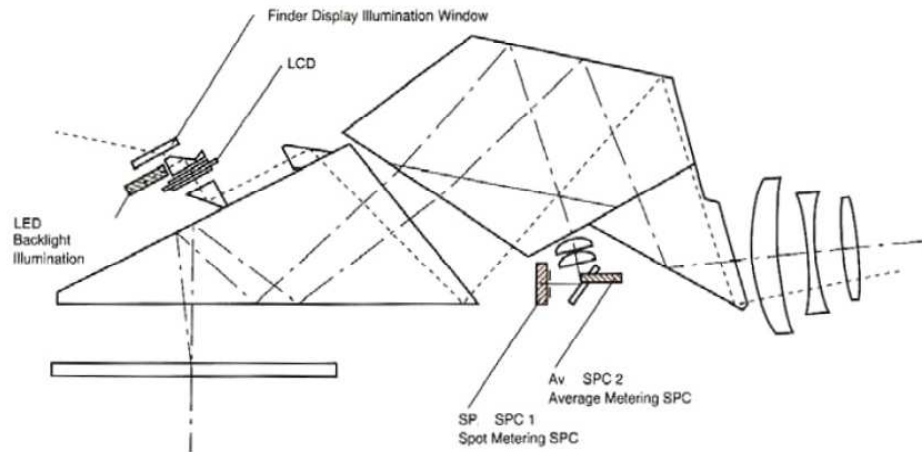
* The LCD may also slow down in response to lower temperatures, but this is a normal characteristic of an LCD.

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5 Relationship Between Shutter Speed, Aperture and Exposure



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* The shutter speed indications in the diagram should be read, as follows :-
 1S - 32S : 1 second to 32 seconds
 2 - 500 : 1/2 sec. to 1/500 sec.

Relationship Between Shutter Speed, Aperture and Exposure

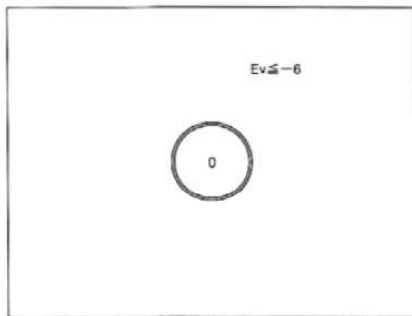
For example : If EV 14 is the correct exposure with ISO 100 film, the shutter speed setting will be 1/250 sec. when f8 is set to the aperture ring. (See the red-lined section in the table.)
 If the aperture is adjusted to f11, in the above case, the shutter speed setting will become 1/125 sec.
 * An EV 14 is the brightness outdoors on a bright sunny day.

Exposure Measuring Range and Ev

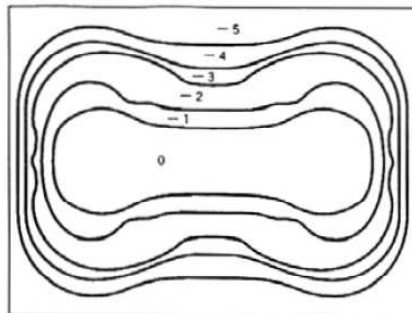
The exposure measuring range with the AE-III Finder E is EV 1 to 19 (with ISO 100 film).
 Ev, or exposure value, is a combination of shutter speed and aperture (or f/numbers), as determined by the film speed (or sensitivity) and the intensity of the light.

Exposure Measuring Positions

Three silicon photocells (light receptor cells) are located in the positions illustrated, with two SPC's used exclusively for average exposure measurements and one SPC used exclusively for spot exposure measurements. The meter sensitivity patterns are illustrated.



Spot Metering Sensitivity Pattern Unit : EV



Average Metering Sensitivity Pattern Unit : EV

Exposure Measurement Sensitivity Patterns

Since the AE-III Finder E has a full aperture exposure measuring system, it has the sensitivity patterns illustrated regardless of the aperture setting. In the above patterns, the numbers indicate the ratio of sensitivity for the zones. (Unit : Ev)

6 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 overheated, 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.