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ELECTRO 35

GSN

GTN



YASHICA

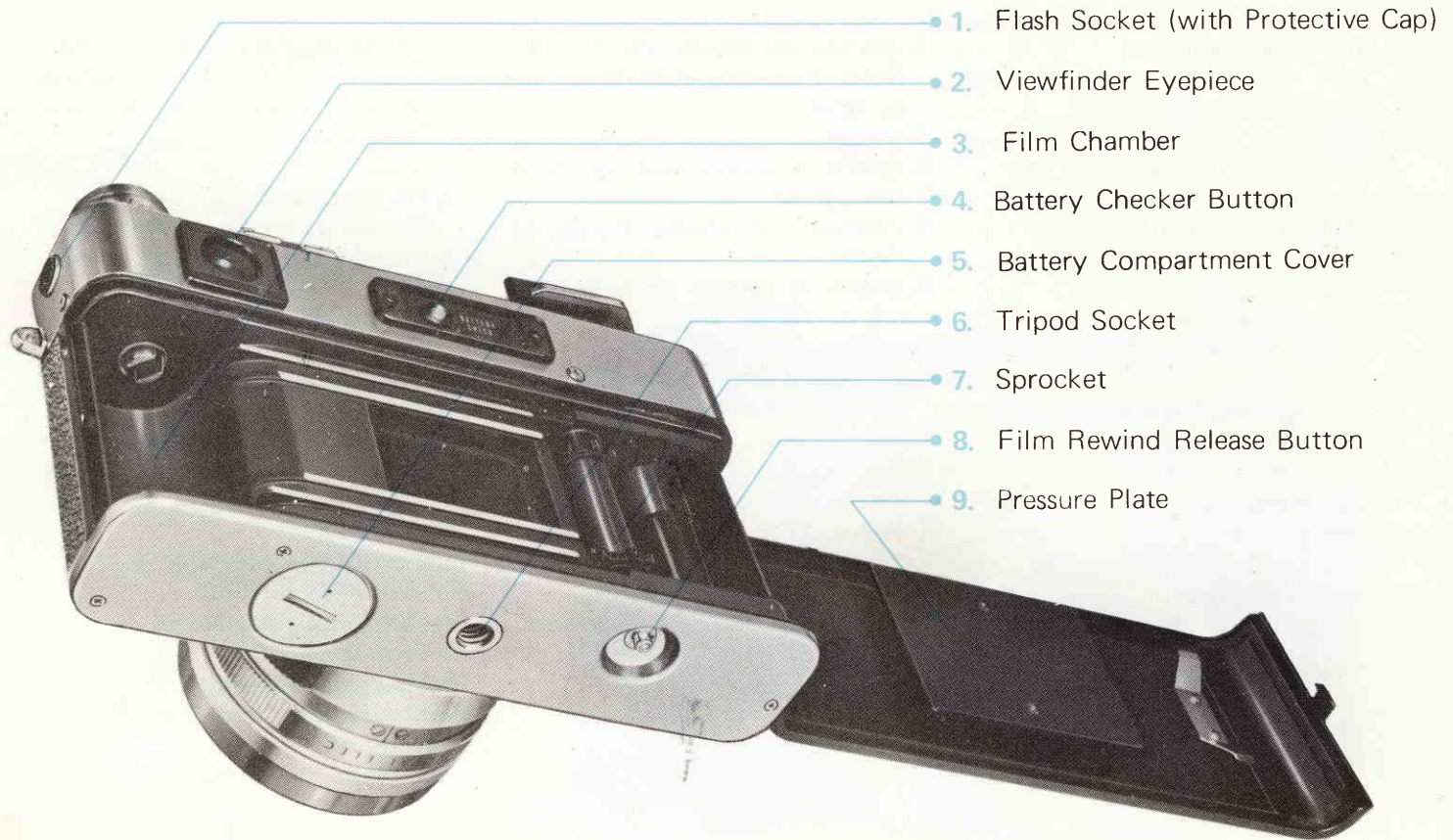
INSTRUCTION BOOKLET • GEBRAUCHSANWEISUNG
MODE D'EMPLOI • FOLLETO DE INSTRUCCIONES

DESCRIPTION

1. Film Rewind Knob (with rewind crank-handle and back cover release)
2. Viewfinder
3. Accessory Shoe (X-Contact Hot Shoe)
4. Red and Yellow Warning Arrows
5. ASA Film Speed Setting Ring
6. Film Advance Lever
7. Film Exposure Counter (with battery checker)
8. Shutter Release Button
9. Shutter Release Lock
10. CdS Cell Window
11. Focusing Ring
12. Self-Timer
13. Aperture Ring
14. Exposure Control Ring
15. Taking Lens

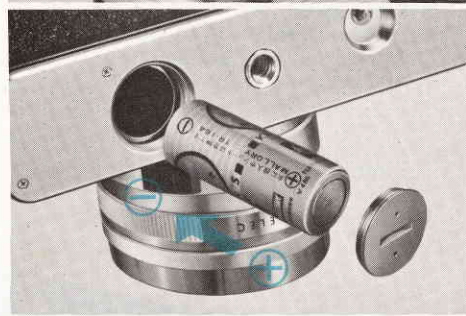


DESCRIPTION



BATTERY LOADING AND CHECKING

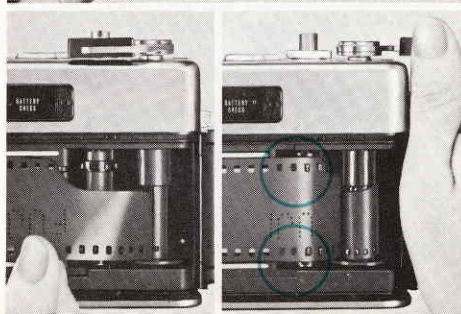
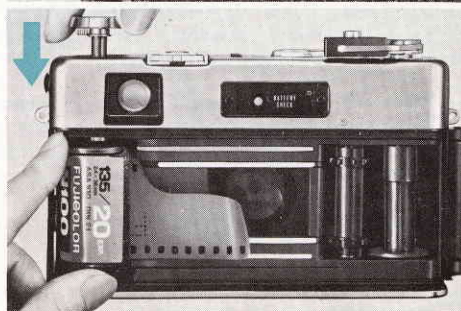
1. Unscrew the Battery Compartment Cover with the edge of a coin.
2. Insert a 5.6V mercury battery, "—" (minus) end in first, and replace Cover. Always carry a spare battery (Mallory PX32, Eveready E164 or equivalent). When camera is not in use for a long period of time, remove battery and store in a cool, dry place.
3. Check battery before picture-taking. Press Battery Checker Button. If the green light comes on brightly in the Film Exposure Counter, the battery power is sufficient. If not, the battery should be replaced.



FILM LOADING

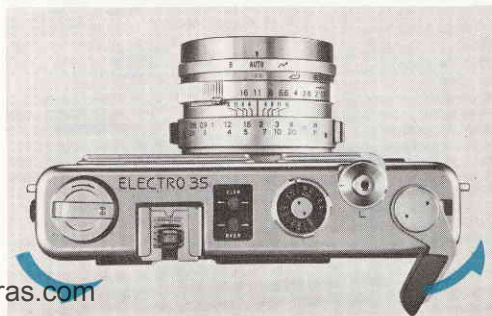
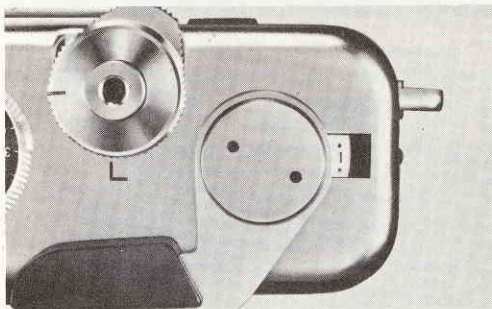
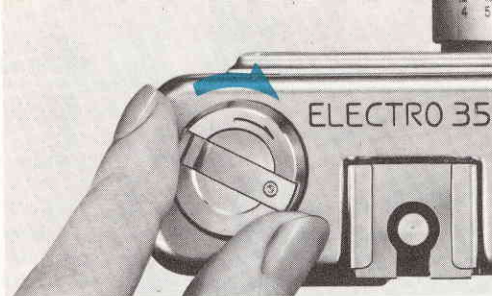
(Always load in subdued light.)

1. To open Back Cover, lift up Film Rewind Knob and pull it out forcibly. As soon as Back Cover opens, Exposure Counter is automatically set at "S" (Start).
2. Place a 35mm film cassette into film chamber and push down the Film Rewind Knob.
3. Insert film leader into Take-up Spool and advance film with Film Advance Lever making sure the perforations properly engage the sprocket teeth. Close Back Cover.



FILM LOADING (continued)

4. To take up the film slack in the cassette turn the film rewind Knob slowly in the direction of arrow until it stops.
5. Advance film, then press Shutter Release Button, and repeat until the figure "1" appears in Film Exposure Counter.
6. Make sure the film is properly loaded. As you advance the film, Film Rewind Knob should rotate counter-clockwise, as illustrated.



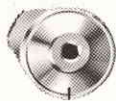
ASA FILM SPEED SETTING

Align the mark on the ASA Film Speed Setting Ring with the ASA rating of the film in use. The film rating is shown on the box or the instructions which comes with the film.

A S A	25	32	40	50	64	80	100	125	160	200	250	320	400	500	640	800	1000
D I N	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

SHUTTER RELEASE BUTTON

To lock the Shutter Release Button, align the mark on the Shutter Release Lock with the letter "L". To unlock, give Lock 1/4 turn clockwise. When camera is not in use, the shutter should not be left cocked, and the Shutter Release Lock should be in the locked position.



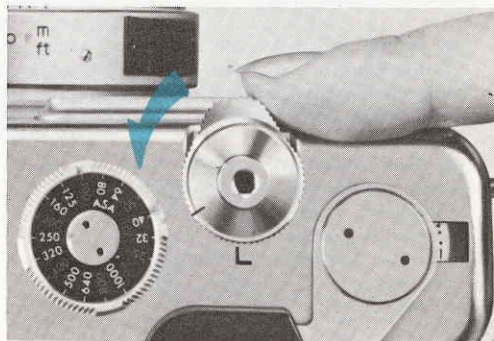
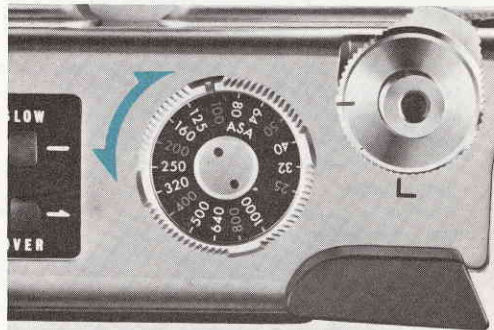
L

Locked



L

Unlocked



AUTOMATIC OPERATION




Turn the Exposure Control Ring until the letters "AUTO" is aligned with mark. You are now ready for automatic operation.

EXPOSURE SYMBOLS

Select the appropriate Exposure Symbol and set it opposite the mark by turning the Aperture Ring.

SUN or CLOUD symbol — for outdoor photography.

WINDOW symbol — for indoor and night photography.

Symbols	Conditions	Apertures
	Bright Sun	16/11/8
	Heavy Overcast or Open Shade.	5.6/4/2.8
	Indoors	2/1.7



FOCUSING

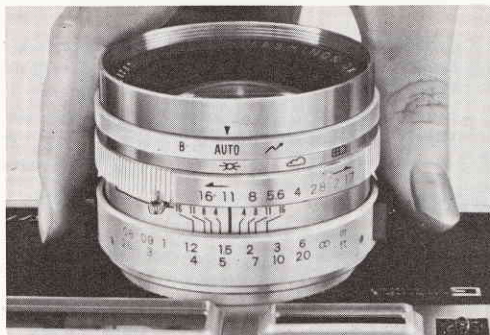
1. Sight through the Viewfinder and turn the Focusing Ring until the two images in the center focusing area for one clear image.
2. Compose picture within the bright frame which, during focusing, in particular at short distances, moves diagonally for automatic parallax correction.



Out of focus

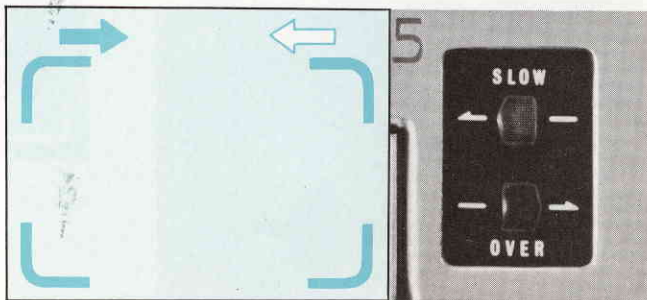


In focus



EXPOSURE CONTROL

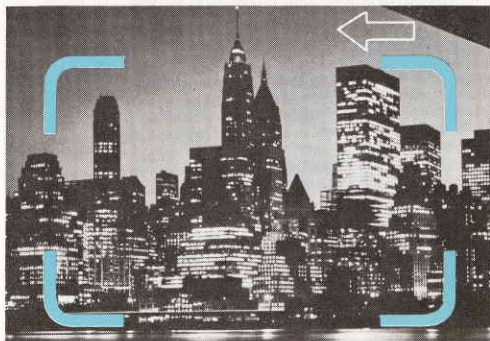
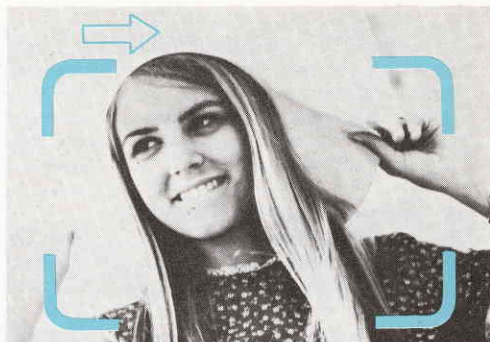
1. The RED and YELLOW warning arrows in the Viewfinder and on the camera top are actuated when the Film Advance Lever is wound and the Shutter Release Button is half-pressed.
2. The absence of both arrows signifies hand-held photography is possible. All you need do for a perfect picture is FOCUS and PRESS the Shutter Release Button down all the way.



EXPOSURE CONTROL (continued)

3. the appearance of the RED arrow (when the Shutter Release Button is half-pressed) signifies too much light. Turn the Aperture Ring in the direction of the arrow until it disappears. If it fails to disappear a neutral density filter should be used and the ASA Film Speed Setting Ring reset accordingly. If the original setting was ASA 100, reset to ASA 25 when an ND4 filter is used.

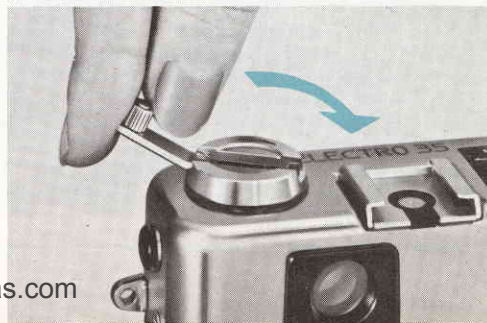
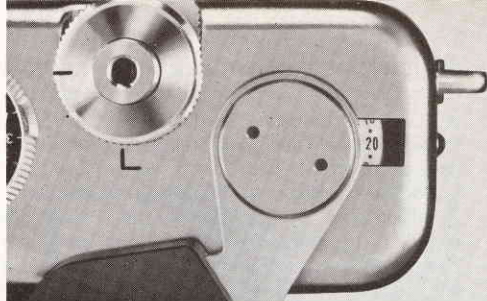
4. The appearance of the YELLOW arrow signifies too little light for hand-held photography, since the exposure speed will be slower than 1/30 second. Turn the Aperture Ring in the direction of the arrow until it disappears. If it fails to disappear, use a tripod (Yashica Grip/Tripod ST-7). Whether the YELLOW arrow disappears or not, the precise exposure speed will be determined and set automatically.



FILM UNLOADING

(Always unload in subdued light.)

1. After the last exposure, DO NOT try to advance the film further as it may tear or come loose, making it impossible to rewind the film into the cassette.
2. Before removing it from the camera, the film should be rewound into its cassette. Press the Film Rewind Release Button.
3. Unfold the crank-handle on the Film Rewind Knob and turn it in the direction of the arrow until a slight resistance is felt. Continue winding until you feel it turning freely. Open the Back Cover, remove the cassette and send for processing.



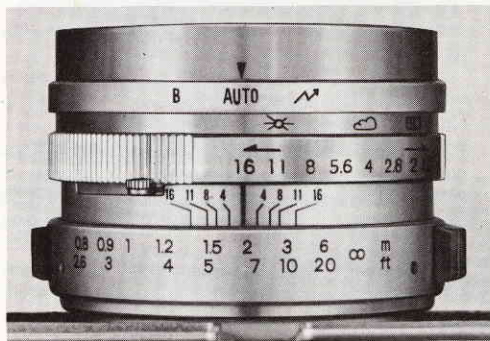
DEPTH OF FIELD

(See table on Page 36)

1. Depth of field is the area in front and behind the subject on which the camera is focused, within which all objects also appear acceptably sharp in the picture. It varies with the aperture and is more extensive:

- when the lens is stopped down
- when the camera is focused on a distant subject
- in the background rather than the foreground.

2. The depth of field can be determined by reference to the depth-of-field scale on the lens barrel. With the camera focused on 2 meters and an aperture of $f/16$, the depth of field will be from 1.4 to 3.8 meters, i.e. the range enclosed by the number 16 on both sides of the red index mark.



SELF-TIMER

If you want to include yourself in the picture, use the Self-Timer and proceed as follows:

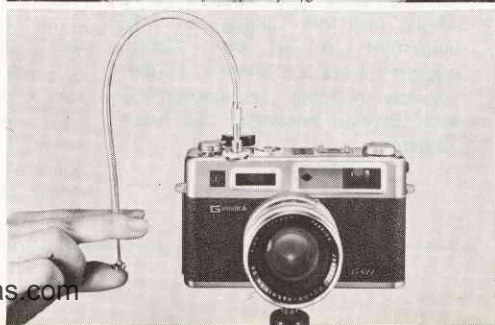
- a. Advance the film
- b. Move Self-Timer Lever down all the way in the direction of the arrow
- c. Press Shutter Release Button and the shutter will click about 8 seconds later.

'B' SETTING

Since the shutter will operate automatically for long time exposure, 'B' setting is used only very occasionally, mainly for special effects.

1. Align the 'B' symbol on the Exposure Control Ring with the red triangular mark.
2. The use of a tripod and cable release is essential.

At 'B' setting the shutter will remain open for as long as the Shutter Release Button is kept depressed.



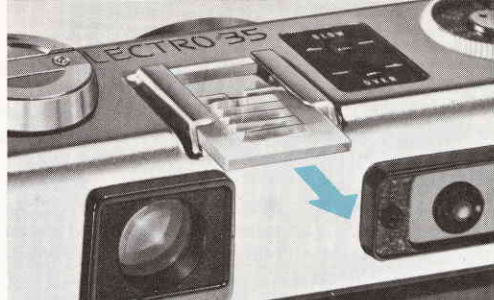
FLASH PHOTOGRAPHY

In most cases, your Electro 35 does not require the use of a flash. However, when photographing a moving subject under subdued light the use of a flash is recommended.

1. Remove the plastic cover of the Accessory Shoe and mount an electronic flash unit or flash gun in place.

- When using an electronic flash unit or flash gun featuring a hot-shoe, simply insert it into the Accessory Shoe and keep the Protective Cap placed over the synchro terminal.
- If your flash unit does not have a hot-shoe provision, clip it on the Accessory Shoe and plug the synchro-cord into the synchro terminal of your camera, after removing the Protective Cap.

2. Turn the Exposure Control Ring to set it to the mark "1/30". The shutter speed will now be automatically set to 1/30 second. Your Electro 35 is provided with "X" contact, so pictures can be taken either with an electronic flash unit or a flash gun.

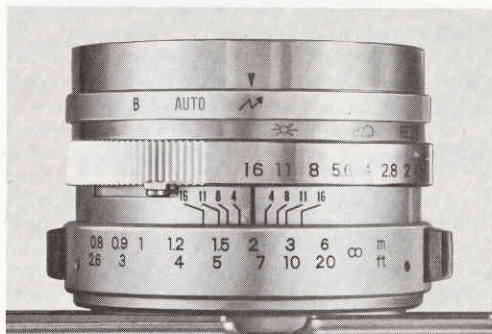


FLASH PHOTOGRAPHY (continued)

1. Focus the camera on your subject.
2. Read the camera-to-subject range off the Distance Scale.
3. Correct lens aperture is obtained by dividing the guide number of the electronic flash (or flashbulb) by the camera-to-subject distance. Set the lens opening accordingly by turning the Aperture Ring and trip the shutter.

In flash photography, the correct exposure is determined on the basis of the guide number of the electronic flash unit or flashbulb. This guide number is normally indicated on the package or in the instruction manual. To obtain the correct lens aperture, divide the guide number by the subject distance (meters or feet) as shown below (Distance in meters):

$$\frac{\text{Guide Number (32)}}{\text{Subject Distance (2m)}} = \text{Lens Aperture (16)}$$



ACCESSORIES



Rubber Lens Shade

To ward off extraneous reflected light, the use of the lens shade is advised. To fit the lens cap, flip back the lens shade as shown in the illustration.



Filters

Filters are invaluable for special photographic effects. Many kinds of 55mm screw-in type filters are available for color and B&W film.



Auto-Up Lens

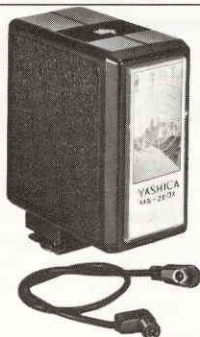
This Auto-Up Lens is designed for the Yashica ELECTRO 35GSN and GTN. With it, it is possible to photograph subjects between the distance of 80cm (32 inches) and 45cm (18 inches).





Grip/Tripod ST-7

Unlike the conventional tripods, the Grip/Tripod ST-7 can be held against a wall or your chest to eliminate camera shake in slow shutter speed exposure. Being so small in size and light in weight while providing excellent stability, it is indispensable for Electro 35 featuring slow shutter speed down to 30 seconds.



MS-20DX

This electronic flash unit is small enough to be carried even in a pocket the world's smallest with Guide No.20. It has a direct contact hot shoe and also permits use of the synchro cord. A replacement of two AA-size batteries is good for 2 cassettes of film (20 exposure load).



Auxiliary Lens Set

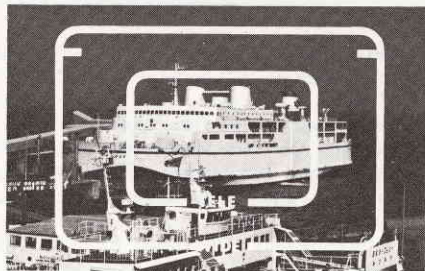
The Auxiliary Lens Set consists of an auxiliary telephoto lens which extends the focal length of the camera lens to 58.4mm and an auxiliary wide-angle lens which reduces the focal length of the camera lens to 37.7mm. To make picture composition easier and more accurate, an exclusive viewfinder is supplied to serve both lenses.

Converter-Satz

Der Converter-Satz besteht aus einem Zusatz-Teleobjektiv, welches die Brennpunktlänge des Kameraobjektivs auf 58,4mm verlängert und einem Weitwinkelobjektiv, welches die Brennpunktlänge des Kameraobjektivs auf 37,7mm reduziert. Für einfachere und genauere Bild-Komposition ist ein Spezialsucher für beide diese Objektive lieferbar.

Lentilles de conversion

Cette optique complémentaire se compose d'une lentille "Télé" qui porte la distance focale de l'objectif à 58,4mm et de la lentille "grand angle" qui ramène cette distance focale à 37,7mm. Pour faciliter le cadrage et le rendre plus précis, un viseur spécial est livré avec ce complément optique.



Juego de Objetivos Auxiliares

El juego de objetivos auxiliares contiene un teleobjetivo auxiliar, que extiende la longitud focal del objetivo a 58,4mm, y un objetivo granangular auxiliar, que reduce la longitud focal del objetivo a 37,7mm. Para hacer más fácil y exacta la composición de vista, se suministra un exclusivo visor que se usa para ambos objetivos.

TIEFENSCHÄRFENTABELLE / TABLE DE PROFONDEUR DE CHAMP / PROFUNDIDAD DEL CAMPO

Meter

Distance		1.7	2	2.8	4	5.6	8	11	16
∞	from to	37.7 ∞	32.1 ∞	22.9 ∞	16.1 ∞	11.5 ∞	8.07 ∞	5.89 ∞	4.08 ∞
7	from to	5.93 8.56	5.77 8.91	5.39 10.0	4.91 12.3	4.39 17.6	3.79 51.6	3.24 ∞	2.61 ∞
2	from to	1.91 2.10	1.89 2.12	1.85 2.18	1.79 2.26	1.72 2.39	1.63 2.61	1.52 2.94	1.38 3.77
1	From to	0.98 1.02	0.97 1.03	0.95 1.04	0.95 1.06	0.3 1.08	0.91 1.12	0.88 1.17	0.83 1.27
0.8	from to	0.79 0.81	0.78 0.82	0.77 0.82	0.76 0.83	0.75 0.85	0.74 0.87	0.72 0.90	0.70 0.96

Feet

Distance		1.7	2	2.8	4	5.6	8	11	16
∞	from to	124' ∞	105' ∞	75' ∞	53' ∞	38' ∞	27' ∞	19' ∞	13' ∞
20	from to	17'3" 23'9.1"	16'11" 24'6.9"	15'11" 27'0.7"	14'7" 31'10.9"	13'2" 41'11.6"	11'6" 80'0.2"	9'11" ∞	8'1.7" ∞
7	from to	6'7.8" 7'4.7"	6'7.1" 7'5.5"	6'5.3" 7'8.0"	6'2.8" 7'11"	5'11.7" 8'5.7"	5'7.5" 9'3.9"	5'2.9" 10'8.1"	4'8.6" 14'1.2"
3.5	from to	3'5.0" 3'7.0"	3'4.8" 3'7.2"	3'4.4" 3'7.7"	3'3.8" 3'8.5"	3'2.9" 3'9.7"	3'1.8" 3'11.4"	3'0.4" 4'1.9"	2'10.3" 4'6.6"
2.6	from to	2'6.7" 2'7.7"	2'6.6" 2'7.8"	2'6.4" 2'8.1"	2'6.0" 2'8.5"	2'5.6" 2'9.0"	2'4.9" 2'9.9"	2'4.2" 2'11.1"	2'3.0" 3'1.2"

SPECIFICATIONS

Lens: COLOR-YASHINON DX f/1.7 45mm; 6 elements in 4 groups; stops down to f/16.

Shutter: Electronic shutter with an infinite range of speeds from 1/500 sec. to 30 seconds; B setting; built-in self-timer; X sync. (X-Contact Hot Shoe); shutter release lock; automatic setting.

Focusing: Coupled range/viewfinder focusing; 0.8 meter (2'6") to infinity; bright frame with automatic parallax compensation.

Expoure Control: Solid-state 'Electronic Brain' controls the electronic shutter according to light intensity measured by the CdS sensor; precise shutter speed for correct exposure in any light is determined and set AUTOMATICALLY; exposure symbols for easy selection of aperture; arrows warn against over-expoure and signal slow shutter speed and advisability of using a tripod; ASA range from 25 to 1000 (DIN 15-31); power source—Mallory PX32, Eveready E164 or equivalent.

Other Features: Single-stroke film advance lever charges shutter, sets electronic exposure control to standby condition, registers count of exposed frames and prevents double exposure; automatic resetting exposure counter; fold-away crankhandle for rapid film rewind; multi-slot take-up spool for easy film loading. battery checker incorporated in the exposure counter window.

Lens Shade: 57mm slip-on type.

Filters: 55mm screw-in type.

Dimensions: 180 x 84 x 73.5mm (4.08 x 3.3 x 2.89 in.)

Weight: 750 grams (1.65 lbs)

FOR BETTER PICTURES

- For better color pictures, shoot in soft, diffused light.
- When the YELLOW arrow is ON, use a tripod (also with B and Self-Timer).
- When the main subject is the point of interest, use the largest aperture suited for the prevailing light. If a greater depth of field is required, stop down the aperture as necessary.
- When it is necessary to stop action in outdoor photography, turn the Aperture Ring to where the RED arrow just disappears. At this point, the shutter speed is about 1/500 sec.
- When photographing spot-lighted subjects or against light, reset the ASA Film Speed Setting Ring.

Example with ASA 100 film:

- (a) Strong spot-lighted – reset to ASA 200-400.
- (b) Against light – reset to ASA 50 or 25.
- The use of an ND filter when shooting in blazing sunlight, snow or beach scenes is recommended.

Reset the ASA Film Speed Setting Ring according to filter factor.

- For night photography, WITHOUT FLASH, set the Exposure Control Ring at the AUTO position and the Aperture Ring at the INDOORS (window) symbol. In all cases, the shutter speed will be determined and set AUTOMATICALLY. However, when shooting with the YELLOW arrow ON, use a tripod.

CARE OF YOUR CAMERA

- Keep both the inside and outside of your camera clean. Use a soft, clean cloth.
- To clean the lens, first blow away any dust or grit, then clean with a lens brush or soft, clean lintless cloth.
- Avoid storing the camera with the shutter charged.
- Do not leave the camera in the glove compartment or trunk of a car, or in direct sunlight, as heat may affect the film, battery, etc.
- When the camera is not in use for a long period of time, remove the battery and store it in a cool, dry place. It is advisable to carry a spare battery.
- Do not dismantle the camera or the lens for cleaning.
- When photographing without using a flash, be sure that the plastic cover is inserted into the Accessory Shoe and the Protective Cap set over the synchro terminal.

