

PETRI
Color 35E
INSTRUCTION
BOOK





PETRI
Color 35E
fully automatic

PETRI CAMERA CO. INC.

Petri 1:2.8 1.40mm

MAJOR SPECIFICATION OF **PETRI Color 35 E**

TYPE:	Automatic 35mm camera with built-in "Electric-Eye" CdS exposure meter.	BATTERY TESTER:	Incorporated for checking the adequacy of a 1.3 volt mercury battery for the exposure meter.
FILM:	35mm. film (20, 36 or 12 exposures) in color or black and white.	SHUTTER:	Petri programming shutter. Speeds automatically selected at a range between 1/30 second and 1/200 second. The cable release socket available on the shutter button.
PICTURE:	24mm x 36mm.	SYNCHRONIZATION:	Automatic flash setting with X synchronization. Diaphragm setting automatically adjusted corresponding to the lamp-to-subject distance. Shutter speed is automatically set at 1/30 second by aligning the guide number index with the appropriate number in the guide number scale.
LENS:	Petri 40mm. 1/2.8 fully coated and color corrected having four elements in three groups.	FILM LOADING:	Back cover removable and Petri's unique simple loading system.
VIEW FINDER:	Bright line frame finder with parallax correction marks. The red warning filter obstructs viewing while the lens is being retracted or when the shutter button is just being depressed at improper exposure condition.	FILM TRANSPORT:	Single stroke movement (130° drive) film transport lever, which advances film and prevent double exposure.
FOCUSING:	Front lens ring rotating system. Focusing scale available on the upper side of the lens mount. The lens mount retracts into the camera body merely by pushing it toward the body, and extended by pulling it out with finger tips.	FILM COUNTER:	Automatic re-set on removal of the camera back.
EXPOSURE SYSTEM:	Super sensitive "Electric-Eye" CdS exposure meter automatically measures optimum exposure conditions ranging from EV 8 to EV 16.7 with ASA 100 (DIN 21) film. The exposure meter powered with one CH type 1.3 volt mercury battery, equivalent to National M-1C, Mallory RM 675 R (PX 675) or a battery of this type. ASA: 25 to 500 DIN: 15 to 28	FILTER SIZE:	40.5mm. screw-in type.
		LENS HOOD:	Exclusive lens hood.
		DIMENSIONS:	4.0 x 2.6 x 1.8 in. (101 x 64 x 48 mm.)
		WEIGHT:	13-3/4 oz. (390 g.)

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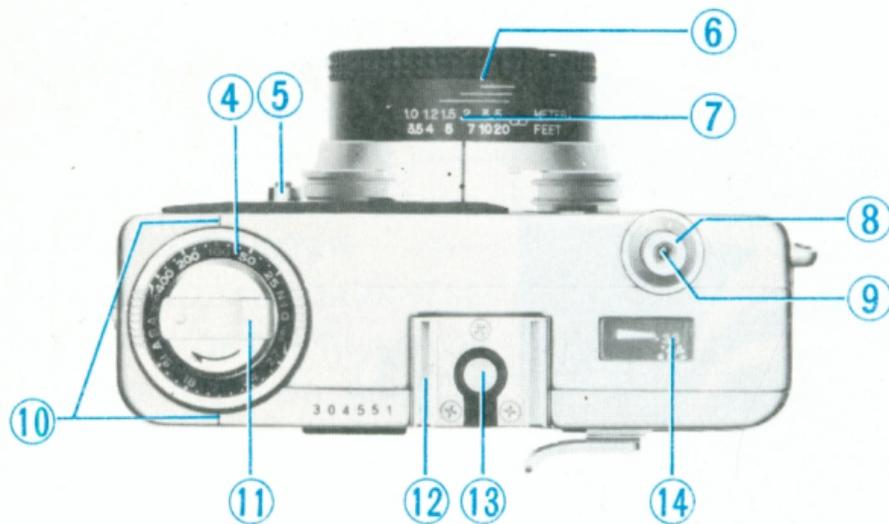
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DESCRIPTION OF PARTS



- ① Neck Strap Loop
- ② Battery Tester Window
- ③ CdS Cell

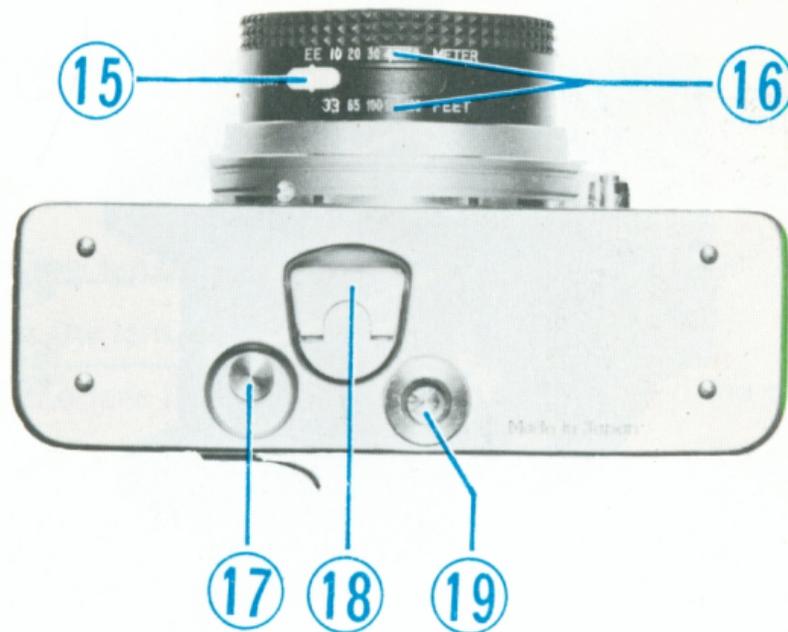
DESCRIPTION OF PARTS



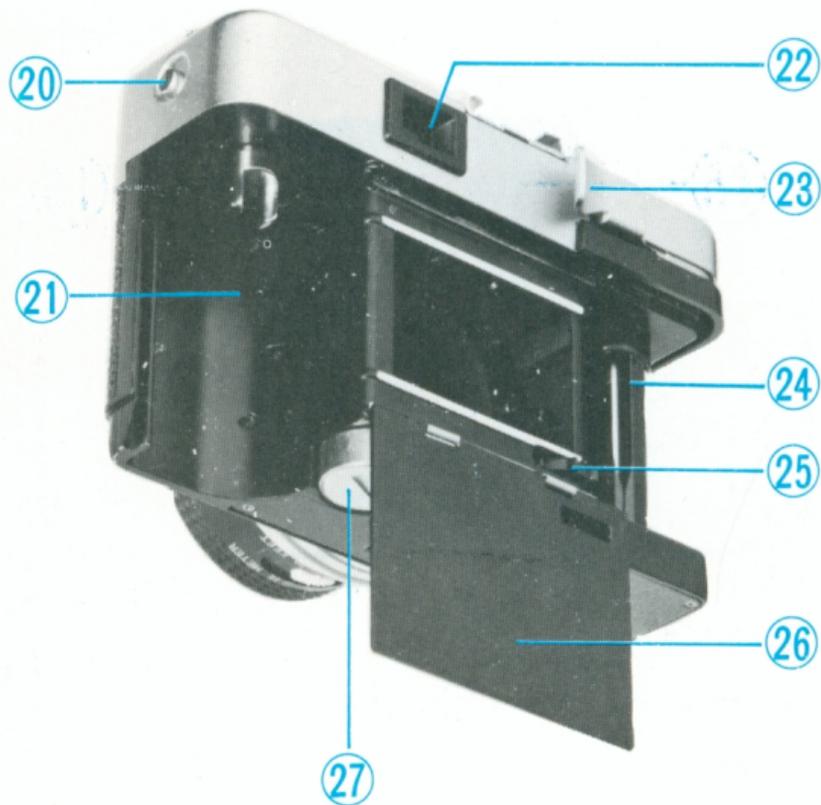
- ④ Film Speed Scale
- ⑤ Flash Socket
- ⑥ Effective Distance Index for Flash
- ⑦ Distance Scale
- ⑧ Shutter Release Button
- ⑨ Cable Release Socket
- ⑩ Film Speed Index Mark
- ⑪ Film Rewind Crank
- ⑫ Accessory Shoe
- ⑬ Cordless Flash Contact
- ⑭ Exposure Counter

DESCRIPTION OF PARTS

- ⑮ Guide Number Index
- ⑯ Guide Number Scale
- ⑰ Film Rewind Button
- ⑱ Back Cover Lock
- ⑲ Tripod Bush

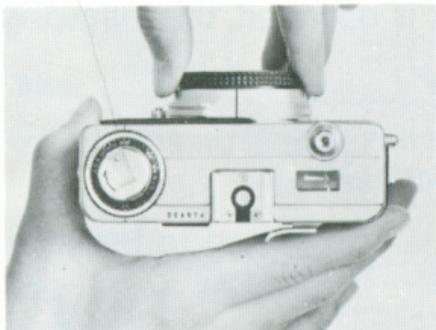


DESCRIPTION OF PARTS

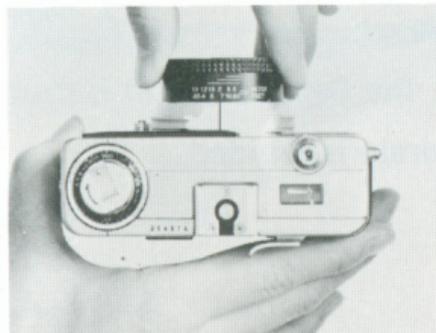


- ②0 Battery Tester Button
- ②1 Film Cassette Chamber
- ②2 Viewfinder
- ②3 Film Advance Lever
- ②4 Take-up Spool
- ②5 Sprocket Gear
- ②6 Film Pressure Plate
- ②7 Battery Compartment

HOW TO EXTEND OR RETRACT THE LENS

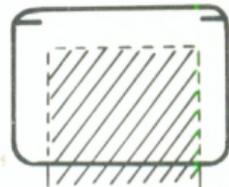


The lens of Petri Color 35 E can be used for taking pictures only when it is fully extended from the camera body. It should be retracted within the camera body whenever you have finished shooting so that the camera is ultra-compact and easy to carry.

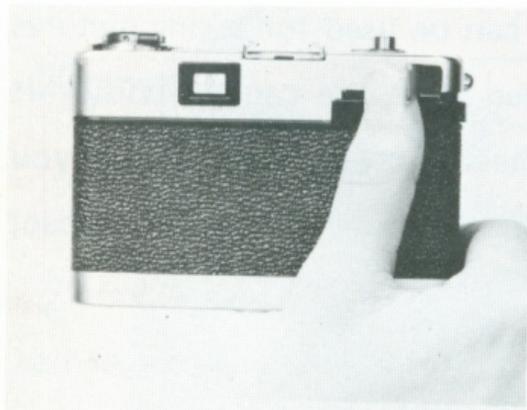


To extend the lens hold the lens rim with your finger tips, and pull out the lens barrel.

To retract the lens merely push the lens rim toward the camera body, and lens will be retracted with a snap. While the lens is being retracted, the red warning filter in the viewfinder obstructs viewing to signal shooting without extending the lens.



FILM ADVANCE LEVER

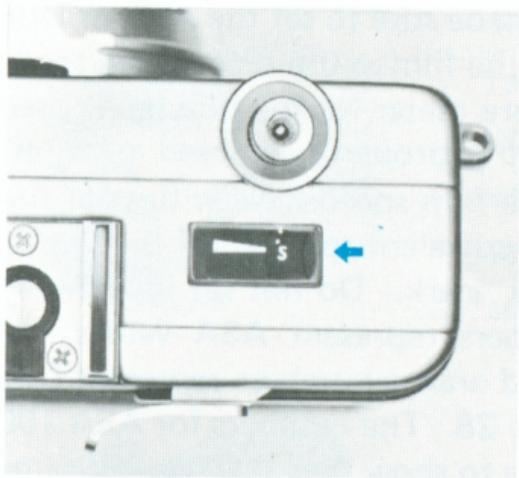


When the film advance lever is operated, the following things happen simultaneously:

1. The battery switch is turned on and the exposure meter is activated.
2. The film frame is transported to the next unexposed frame.
3. The film counter is advanced.
4. The shutter is cocked.

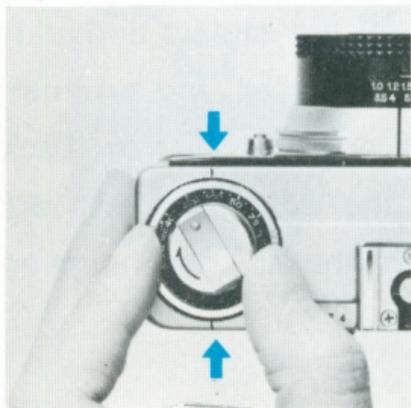
After the shutter is released, the battery circuit is shut off and unnecessary battery drain is avoided.

EXPOSURE COUNTER



The counter is located on top of the camera body. It shows the number of film frames exposed, and automatically resets to "S" (for "Start") position when the back cover is opened. Frames of the 20th and 36th are marked in orange to signal end of the roll, depending on the length of the film used.

FILM SPEED (ASA OR DIN) SETTING



After the film has been loaded, be sure to set the ASA or DIN film speed index specified for the film in use on the film speed scale. This adjusts the exposure meter for the film being used and an essential step in getting properly exposed pictures. To set the film speed, turn the film speed scale with your finger tips and align the reading equivalent to speed of the film in use with the film speed index mark. Do not set in between click-stops. The white numbers represent ASA values and range from ASA 25 to 500, and orange numbers represent DIN values ranging from DIN 15 to 28. The numbers for ASA 100 and DIN 21 are painted in blue to show that they are the same rating.

FILM SPEED (ASA OR DIN) SETTING

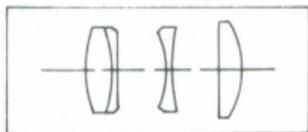
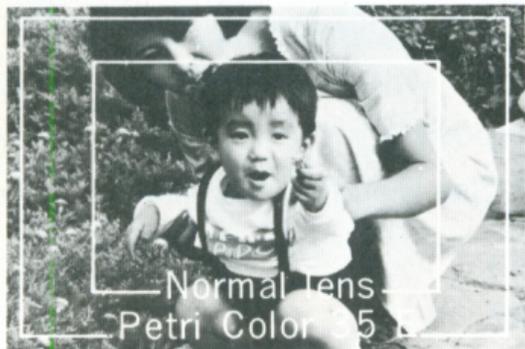


Read the instructions supplied with the film and set the correct film speed index number. If the number on the film speed corresponding to that of your film is not available on the film speed scale, use the closer number and never set between two settings. For convenience, the positions for intermediate film speeds are shown only by dots. See the illustration.

ASA	25	•	•	50	•	•	100	•	•	200	•	•	400	500
NUMBERS SHOWN BY DOTS		•	•		•	•		•	•		•	•		
		32	40		64	80		125	160		250	320		
DIN	15	•	•	18	•	•	21	•	•	24	•	•	27	28
NUMBERS SHOWN BY DOTS		•	•		•	•		•	•		•	•		
		16	17		19	20		22	23		25	26		

THE LENS OF PETRI COLOR 35 E

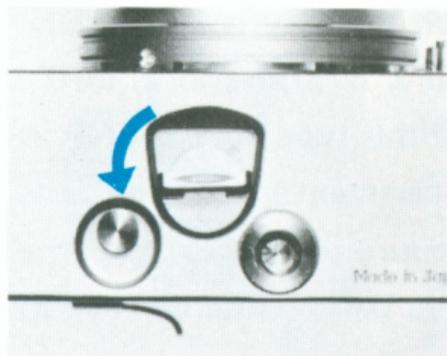
The lens of Petri Color 35 E is a Petri 40mm., f/2.8 semi-wide angle, specially designed for fast shooting, greater-than-normal field coverage and extreme depth of field.



With an angle of view of $56^{\circ}49'$, 27 per cent greater than that of the lens usually found on a large 35mm. camera, the Petri lens covers a greater area of the subject. It is extremely useful in photographing large subject areas from close distances particularly indoors where space is limited.

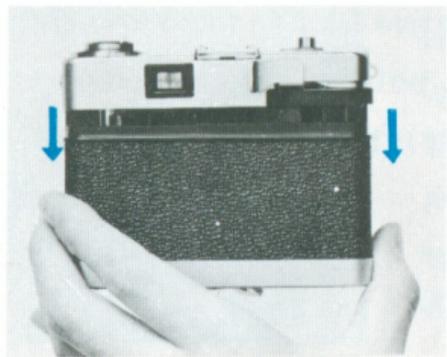
Petri Color 35 E equipped with the f/2.8 maximum aperture permits you to shoot even indoors and in poor light. The use of ultra-fast films increases the picture possibilities. The critical sharpness of the lens and its great depth-of-field range combine to compensate for slight mistakes in focusing.

HOW TO OPEN OR REPLACE THE BACK COVER

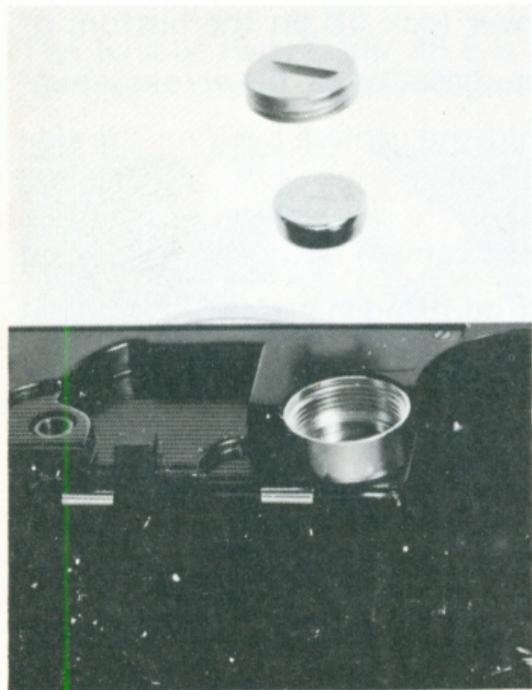


Lift the lever of the back cover lock ⑱ on the bottom of the camera and turn it in the direction of the arrow (counterclockwise) to unlock. Hold the camera back on the side and gently slide it off.

To replace it, fit the sides of the camera body and slide it up until it fits tightly. You will find it much easier to do if you start at the middle portion of the body rather than sliding it from the bottom.

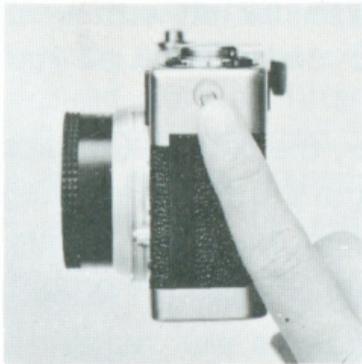


HOW TO INSERT THE BATTERY AND TEST IT



Petri Color 35 E uses a 1.3 volt mercury battery equivalent to Mallory RM 675 R (PX 675), National M-1C, Toshiba TH-KC or a battery of this type, for the built-in CdS meter. The battery compartment is located inside the camera below the film pressure plate. To insert the battery, first remove the camera back. Unscrew the cap with a screw driver or a coin. Place the battery in the compartment. Be sure the positive (+) side faces you and the negative (-) side faces the bottom of the compartment. The meter will not operate if the battery is inserted incorrectly.

HOW TO CHECK THE BATTERY CONDITION



A new battery will last for more than a year with normal use. However, it should be checked once every three months to assure proper operation of your camera. The battery can be checked easily.

Depress the battery tester button located on the right side of the camera. The needle in the battery tester window will indicate the adequacy of the battery. If the needle stays in the blue area or swings down under the area, the battery is good. If the needle stays in the red area or does not move at all, the battery is dead or weak and should be replaced.

The battery should always be checked before you load film into the camera. When buying a fresh battery, be sure to indicate the type required (specified above).

NOTE: When testing the battery condition, set the film speed at ASA 100 (or DIN 21).



FULLY AUTOMATIC EXPOSURE CONTROL

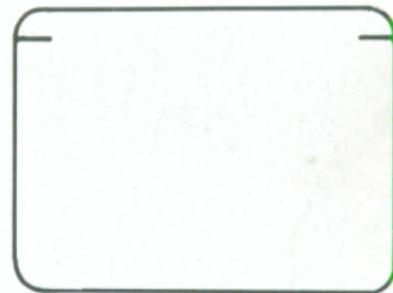


Swing the guide number index ⑮ to the left with your thumbnail and align it with the EE mark. This is all you have to do for exposure control.

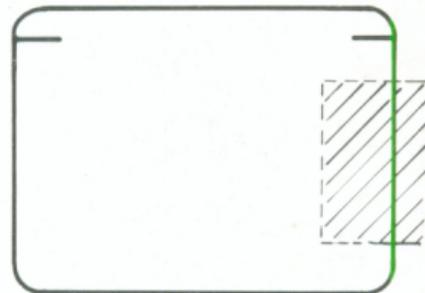
By operating the film advance lever, the built-in CdS exposure meter is activated. (When the shutter is released, the meter circuit is shut off.) Then, the light striking the Electric-Eye CdS cell automatically sets the proper diaphragm opening and the shutter.

If Filters are used, no adjustment is required. This is taken care of by the Filters themselves fitting over the CdS cell. Simply make sure that the CdS cell is not obstructed, during picture-taking, by your finger or any other objects.

When the shutter button is just being depressed at improper lighting conditions, you will notice through the viewfinder the red warning filter coming out from the right. An appearance of the red filter shows that the subject you are aiming at is extremely bright or dark and that the picture if taken will be either over-exposed or under-exposed. If the warning filter, when the shutter button being depressed, appears because of an extremely bright lighting condition, use an appropriate filter to absorb the amount of light. (For the proper filter, see page 33.) If it appears because of a poor lighting condition, use flood illumination or switch to the flash photography. (See FLASH PHOTOGRAPHY at page 26.)



PROPER



IMPROPER

HOW TO FOCUS



You have a choice of two methods of focusing — the zone system and specific distance.

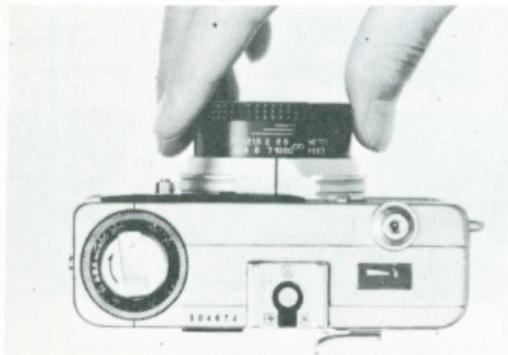
To use zone focusing, turn the lens rim and line up the indication mark with the symbol corresponding to your subject. The zone system is a simplified, fast method based on the extreme depth-of-field range of the lens.

 ... 3.5 ft. (1.0m)

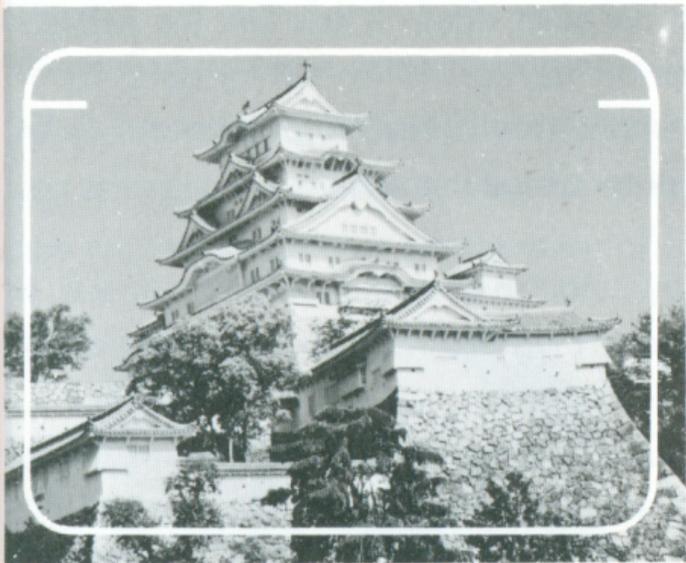
 ... 5.0 ft. (1.5m)

 ... 10.0 ft. (3.0m)

 ... 

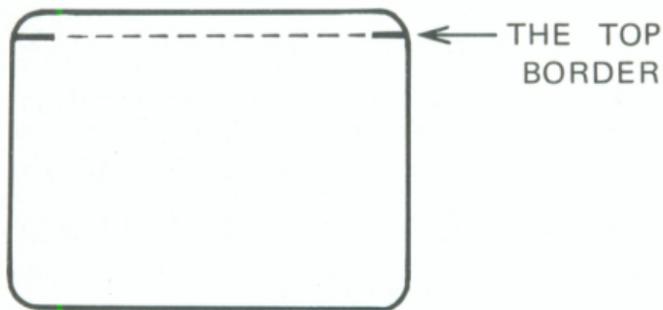


Another method of focusing involves determining the lens-to-subject distance either by estimate or actual measurement, then aligning the appropriate position in the distance scale with the black line located underneath the battery tester window ②. You can of course set the distance between positions actually shown by figures in the scale.



When you look through the viewfinder you will notice a bright yellow frame in it. The frame contains the actual image or area of the subject that will get in your picture under ordinary circumstances. Therefore, compose the subject within the frame.

PARALLAX CORRECTION MARKS



Looking through the viewfinder you will be aware of the lines in the upper part of the frame on both sides. These are the parallax correction marks. When taking portraits or close-ups (within 10 feet), use the marks as the top border of the picture.

This correction is required, because the lens of Petri Color 35 E, as that of most cameras, is located at a lower level than the viewfinder. Therefore, the viewfinder cannot show exactly the same scene that the lens is taking. This is called "Parallax".

With most scenes, particularly those in which the subject is more than 10 feet (3 m) away, the parallax is of little importance. It is a consideration when you are taking portraits, for instance, and you must compensate to avoid the "head chopping".

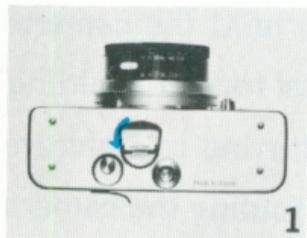
The format of your picture is determined by the position in which you hold the camera. Holding the widest part in a horizontal position will result in a horizontal format. Holding the widest part in a vertical position will result in a vertical format. Blurring in a picture often is caused by camera shake at the moment of exposure. Practice holding the camera and releasing the shutter so you can take pictures without jarring or shaking it.

Use the following three simple rules for taking a picture to avoid camera movement:

1. Before releasing the shutter, take a deep breath and hold it until after the picture has been taken.
2. While taking the picture, hold the camera firmly with both hands and press the back against your face and forehead as firmly as possible.
3. Squeeze the shutter release button, do not prod or tap it. Practice squeezing until you can release the shutter without the slightest quiver.



FILM LOADING



Petri Color 35 E accepts the standard 35mm cartridges containing 12, 20 or 36-exposure lengths of film. Avoid direct sunlight falling on the film cartridge. Load the film in a shade, using your body with your back to the sun as protection if you have no other method.

1. TO OPEN THE CAMERA BACK

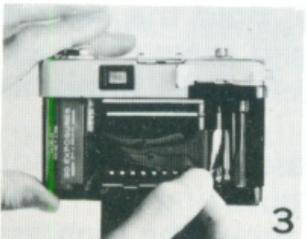
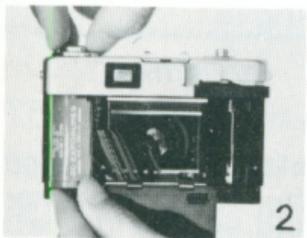
Open the back cover. (See HOW TO OPEN OR REPLACE THE BACK COVER at page 14.) At the same time, the exposure counter automatically returns to "S" (which means "Start") position.

2. TO LIFT THE FILM PRESSURE PLATE

Lift the film pressure plate and place the film cassette in the film cassette chamber. Turn the cartridge slightly so that the film spool and the rewind shaft engages.

3. FILM LOADING

Holding the film cartridge in place slip the film end into any slit on the take-up spool and slide it down toward the bottom of the camera body, and check that the film perforation is properly engaged with the tooth of camera sprocket.



4. TO ADVANCE THE FILM

Closing the film pressure plate advance the film advance lever a little and see that the film is fastened round the take-up spool, before replacing the back cover.

5. TO REPLACE THE BACK COVER

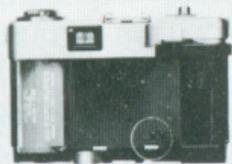
Replace the back cover and lock it. (See HOW TO OPEN OR REPLACE THE BACK COVER at page 14.) Lift the film rewind crank and turn it in the direction of the arrow to tighten the film in the cartridge.

6. TO ADVANCE THE FILM AND RELEASE THE SHUTTER

Repeat this action twice, and you are ready to take your first picture.

NOTE:

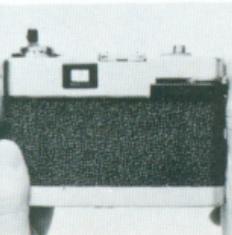
In case the film rewind knob does not turn counterclockwise by advancing the film advance lever, it shows that the film is not properly transported. Open the camera back and check the take-up spool.



4

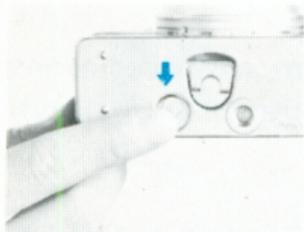


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FILM UNLOADING



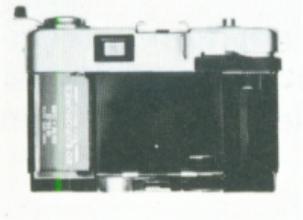
After the entire length of film in the cartridge has been exposed, it must be removed into the film cartridge so that it can be removed from the camera. Avoid direct sunlight when removing the film cartridge from the camera. Also, the camera lens should face downward while the cartridge is being removed so as to prevent it from dropping out.

1. TO REWIND THE FILM



Raise the film rewind crank and while depressing the film rewind button located on bottom of the camera body, turn it in the direction indicated by the arrow. You will feel a little tension on the crank while the film is being rewound. When the tension stops, you know that the rewinding is complete.

2. TO REMOVE THE CARTRIDGE



Open the back cover. (See HOW TO OPEN OR REPLACE THE BACK COVER at page 14.) Then, remove the film cartridge.



If the red warning filter, when the shutter button being depressed, appears in the viewfinder because of a poor lighting condition it shows that you must use flood illumination or switch to the flash photography. Photography with flash not only expands your picture possibilities greatly but adds excitement and drama to your pictures. The use of flash equipment is extremely simple, because Petri Color 35 E features "automatic" flash setting. The right size of diaphragm opening corresponding to the lamp-to-subject distances is automatically obtained. No complicated calculation to get the proper aperture is required.

FLASH PHOTOGRAPHY

Simply follow these procedures:

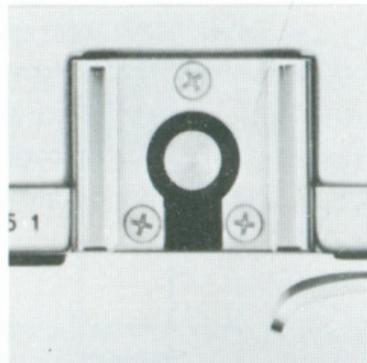
1. Plug the cord of your flash unit in the flash socket 5 .

If you use a cordless flash unit such as Petri Flashgun (see page 31), merely slip the foot of the unit into the accessory shoe 12 on top of the camera body, and it will automatically make contact with the shutter mechanism. Petri Color 35 E is equipped with X synchronization. (The shutter speed at "X" is 1/30 second).

2. Align the guide number index 15 with the appropriate position in the guide number scale.

The guide number index can be set at between the positions. The guide numbers are usually indicated on the packages of your flashbulbs or in the instruction manual of your strobo.

3. Focus the subject in a normal way (see HOW TO FOCUS at page19), and click the shutter.



Focusing must be done within the limited range corresponding to the guide number of the flash unit in use. (See the table.) For convenience, on the lens barrel of your camera the focusing range is shown by colored lines in parallel with the distance scale. For example, if the guide number index ⑮ is set at "100" in feet ("30" in meters) in green, you can focus the subject within the range of the green line in the effective distance index for flash 6. In other words, the flash unit of which guide number is "100" in feet ("30" in meters) will be effective for the subject being within that range. If the guide number index is set at between positions, both limits of the effective distance range, the nearest distance and the farthest distance, must be adjusted accordingly.



G.No.	METER	1.0	1.2	1.5	2	3	5	∞
	FEET	3.5	4	5	7	10	20	∞
10	1.0m 3.3ft					3.5m 11.6ft		
20	1.0m 3.3ft						7.1m 23.2ft	
30			1.33m 4.35ft				10.6m 34.8ft	
40				1.77m 5.8ft			14.1m 46.4ft	
60					2.65m 8.7ft		21.2m 69.6ft	

A few simple precautions, careful handling and immediate attention in case of trouble will prolong the life of your camera and keep it operating well indefinitely.

Follow these simple rules:

1. When cleaning the outside of the camera, first use a soft brush and then a soft cloth.
2. Remove dust and sand that enter the camera while it is open immediately, using a camel-hair brush or a hand-blower.
3. Dust, fingerprints, water drops, etc., on the lens not only affect picture contrast but, if left for a long time, they will attack the surface.
4. Should your camera fall into water, immediate attention is imperative. Bring it to a repair shop at once. If it falls into salt water, rinse it thoroughly in fresh water and then deliver it to the repairman.
5. Your camera, when not in use, should be protected from damp and dust. Preferably in its case and, as an additional precaution, inserted into a polythene bag.

6. Be sure that your camera is not kept in abnormally high or low temperatures — normal room temperature is best.
7. Before storage, release the shutter and relieve a tension of every apparatus. When you store your camera for a prolonged period, remove a battery and avoid a risk of deterioration and corrosion.
8. Do not leave your camera without use for a long period. Your camera, as any other mechanical instrument, needs to be exercised regularly to keep it in good condition. Set the shutter and fire. Repeat this action several times. Check film transport and the exposure counter. Also, operate the battery tester. These actions will keep the mechanism in good order, retaining the natural qualities of the lubricant — thus ensuring your camera is ready for an instant use when required.

ACCESSORIES FOR PETRI COLOR 35 E

PETRI LENS HOOD

Exclusively used for Petri Color 35 E. It is recommended for general outdoor photography to prevent extraneous light from entering the lens.



PETRI CABLE RELEASE

High quality metal covered cable releases in 12 inch length (30 cm).



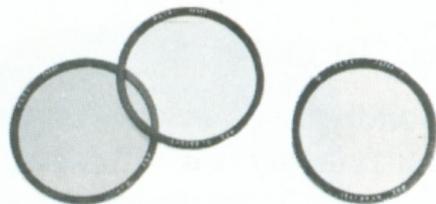
PETRI FLASHGUN

Solidly constructed, compact, battery-powered flashgun with a slide-up reflector and a bulb ejector. Recommended to use with Petri Color 35 E camera. Powered by one W10 15-volt battery through a cordless shoe contact, and takes AG-type flashbulbs.



PETRI FILTERS

Essential for first class photographs. Select the proper filters for your needs. ϕ 40.5mm. screw-in type.



FOR BLACK & WHITE FILM :

FILTER TYPE	FILTER FACTOR	COLOR	PURPOSE
Y1	1.5X	Light Yellow	Landscapes, snow, clouds. Renders yellow and green lighter.
Y2	2 X	Medium Yellow	Gives stronger effect than Y1.
YA3	4 X	Orange	Haze distant views. Renders yellow and red lighter, blue darker, distant objects clearer.
R1	8 X	Red	Hazy distant views. Renders red lighter, blue and green darker. Gives stronger effect than orange filter.
PO0	2.5X	Green	Landscapes, snow, clouds. Renders green lighter. Red (complexion) and blue darker. Recommendable for portraiture.
PO1	4 X	Medium Green	Gives stronger effect than PO0.

FOR COLOR FILM :

FILTER TYPE	FILTER FACTOR	COLOR	PURPOSE
UV	no increase	Clear	Absorbs excessive UV. Also suitable for black-and-white.
1A	no increase	Light Pink	To eliminate haze and for use at altitudes over 3,000 ft.
W4	1.5X	Medium Amber	Reduces excessive blueness of sky on a cloudy day.
C4	1.5X	Medium Blue	For early morning or evening shots.
C8	2 X	Dark Blue	Conversion filter for use when using 'Daylight Type' color reversal film with white flash bulbs.
C12	2.5X	Dark Blue	Conversion filter for use when using 'Daylight Type' color film with photoflood lamps.
85C	no increase	Dark Amber	Conversion filter for use when using 'Artificial Light' film in daylight.
NDX4	4 X	Neutral Density	Neutral Density for sunny subjects. Can also be used for black-and-white.

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