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YASHICA ELECTRO 35 GT

GOLD MECANICA

INSTRUCTION BOOKLET
GEBRAUCHSANWEISUNG
MODE D'EMPLOI
FOLLETO DE INSTRUCCIONES

Features

LENS :	COLOR-YASHINON DX f/1.7 45 mm lens ; 6 elements in 4 groups ; stops down to f/16.
SHUTTER :	Yashica-originated electronic shutter with non-graduated, continuously variable speeds from full 30 seconds to 1/500 sec., B and self-timer ; X sync.
FOCUSING :	Coupled range/viewfinder focusing ; minimum focusing range 2.6 feet (0.8 meter) ; bright trimming frame with automatic parallax compensation.
EXPOSURE CONTROL :	Solid-state "Electronic Brain" controls the functions of electronic shutter according to light instensity measured by CdS sensor ; precise shutter speed is set automatically at preselected aperture ; "Magic Arrows" in finder and camera top warn against over-exposure and signal slow shutter speed and suggests the use of a tripod ; ASA range from 25-1000 (DIN15-31) ; power souce : Eveready E164 or equivalent).

Technische Daten der ELECTRO 35GT

OBJEKTIV :	COLOR-YASHINON DX f/1,7 45 mm Objektiv ; 6 Elemente in 4 Gruppen, kleinste Blendenöffnung f/16.
VERSCHLUSS :	Elektronischer Original Yashica Verschluß mit stufenlosen kontinuierlich wechselbaren Verschlußgeschwindigkeiten von ganzen 30 Sekunden bis zu 1/500 Sek., B und Selbstauslöser ; X-Synchron.
SCHARF-EINSTELLUNG :	Gekuppelte Bereich/Sucher Einstellung ; Minimum Einstellbereich 2,6 Feet (0,8 Meter) ; Helligkeitsrahmen mit automatischem parallaxen-Ausgleich.
BELICHTUNGS-KONTROLLE :	Das transistorisierte "Elektronengehirn" kontrolliert die Funktionen des elektronischen Verschlußes gemäß der Lichtintensität welche von der CdS Belichtungmessung gemessen wird ; bei voreingestellter Blendenöffnung wird die korrekte Belichtung automatisch eingestellt ; "Magische Lampen" Sucher und auf der Kamera-Oberseite warnen bei Überbelichtungs-Einstellung und geben an wann eine lange Belichtung sowie die Verwendung eines Stativs notwendig ist ; ASA Bereich von 25 ~ 1000 (DIN 15 ~ 31) ; Stromspeisung : Eveready E164, Mallory TR-164 (oder ebenbürtige Batterie).

Caractéristiques

OBJECTIF :	COLOR-YASHINON DX f/1,7, 45 mm, 6 lentilles en 4 groupes, cuverture minimale f/16.
OBTURATEUR :	Commande électronique, innovée par Yashica, à réglage progressif et continu, la vitesse d'obturation pouvant varier entre 30 secondes pleines et 1/500° de seconde ; pose B et retardateur, prise synchro X.
MISE AU POINT :	Viseur et télémètre couplés, distance minimale de mise au point : 80 cm (2, 6'), cadre lumineux, compensation automatique de parallaxe.
EXPOSITION :	C'est un "cerveau électronique" transistorisé qui commande l'obturateur électronique en fonction de l'intensité de la lumière mesurée par un capteur CdS ; la vitesse d'obturation est réglée de façon précise et automatique selon l'ouverture du diaphragine déterminée à l'avance. Les lampes magiques installées dans le viseur et à la partie supérieure du boîtier avertissent de toute surexposition et préviennent du déclenchement en vitesses lentes, suggérant ainsi l'adoption d'un pied. Plage de réglage de sensibilité : de 25 à 1000 SAS (soit DIN 15 à 31) ; Pile : Eveready E164, Mallory TR-164 ou équivalent.

OBJETIVO :	Objetivo COLOR-YASHINON DX f/1,7 45 mm ; 6 elementos en 4 grupos ; diafragma hasta f/16.
OBTURADOR :	Obturador electrónico exclusivo de Yashica con velocidades no graduados y continuamente variables, desde 30 a 1/500 seg., B y disparador automático ; sincronizador X.
ENFOQUE :	Enfoque por telémetro/visor ; alcance de enfoque mínino 0,8 metro (2,6 pies) ; cuadro de reglaje de luminosidad con compensación automática de paraje.
CONTROL DE EXPOSICION :	El "Cerebro electrónico" controla las funciones del obturador electrónico de acuerdo a la intensidad de luz medida por el sensor CdS ; la precisa velocidad del obturador, según la abertura preseleccionada, se obtiene en forma automática. Las "Lamparitas mágicas" ubicadas en el visor y en la parte superior de la cámara avisan sobreexposición y velocidad lenta del obturador e indican a su vez la necesidad de usar un trípode ; alcance de ASA desde 25-1000 (DIN 15-31) ; fuente de energía ; Eveready E164, Mallory TR-164 o su equivalente.

1. Rückspulknopf/Rückwand-verriegelung
2. Sucherausblick
3. Zubehör-Aufsteckschuh
4. Warnlämpchen für Stativ-gebrauch und Überbelichtung
5. ASA Einstellskala
6. Filmaufzughebel
7. Filmzählwerk
8. Auslöseknopf-Verriegelung
9. Auslöseknopf
10. CdS-Belichtungsmesser-Fenster
11. Fokussierring
12. Selbstauslöserhebel
13. Belichtungseinstellring
14. Blendenring
15. Aufnahmeobjektiv

1. Manivelle de réembobinage/ Tirette pour ouverture du dos
2. Fenêtre du viseur
3. Griffe porte accessoires
4. Lampes Magiques
5. Bouton de réglage de cellule (ASA)
6. Levier d'avancement du film
7. Compteur de vues
8. Levier du verrouillage du bouton de déclenchement
9. Bouton de déclenchement
10. Fenêtre de la cellule CdS
11. Bague de distances
12. Retardement
13. Bague de présélection
14. Bague des ouvertures de diaphragmes
15. Objectif de prise de vue

1. Palanquita para el reenrollado/pasador de la tapa trasera
2. Visor
3. Portaaccesorios
4. Lámparas indicadoras
5. Disco de sensibilidades ASA
6. Palanca de avance
7. Contador de tomas
8. Palanca trabadora del obturador
9. Disparador
10. Ventanilla sensora CdS
11. Mando de enfoque
12. Auto-Disparador
13. Regulador de la exposición
14. Regulador de abertura
15. Objetivo de toma

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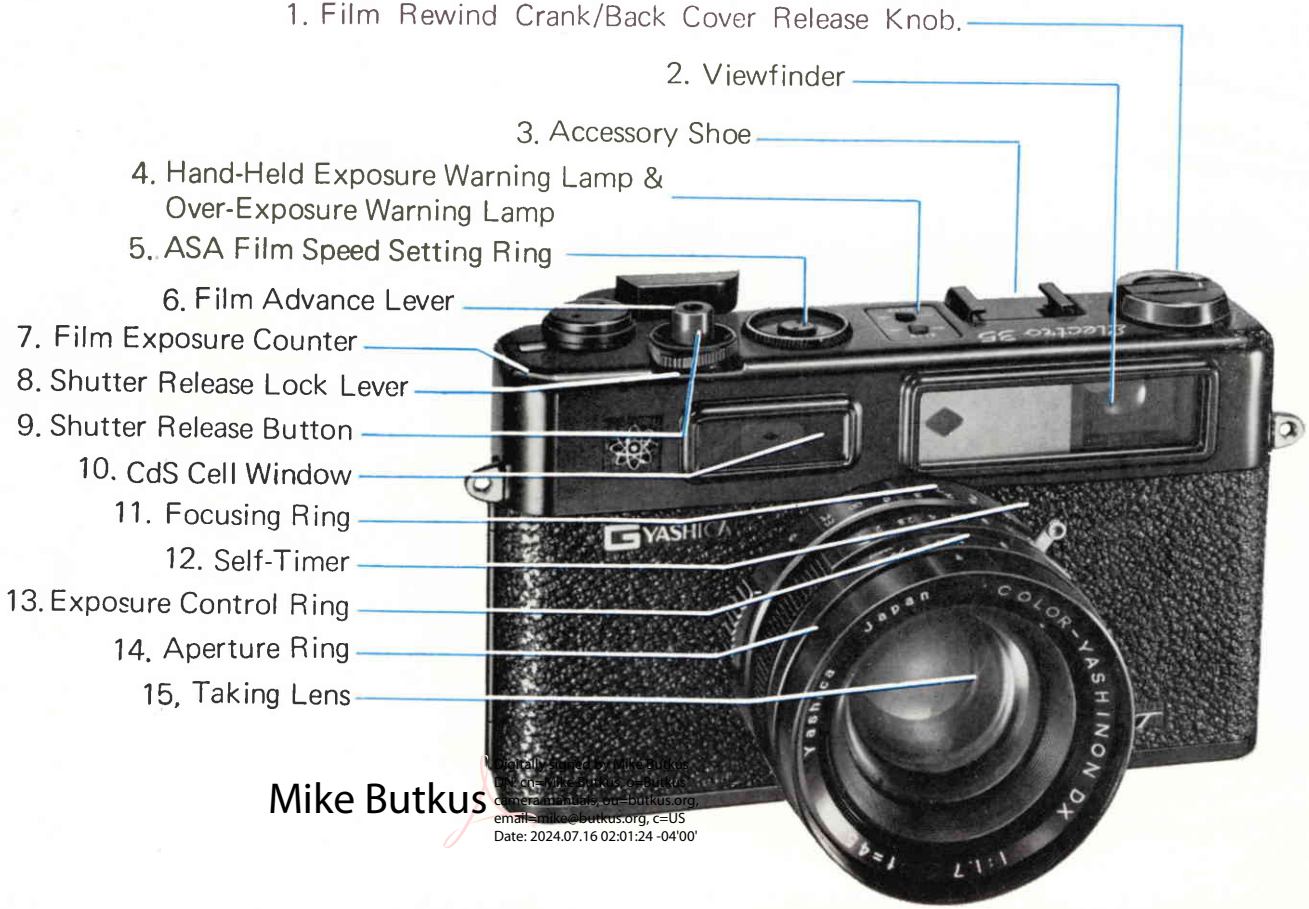
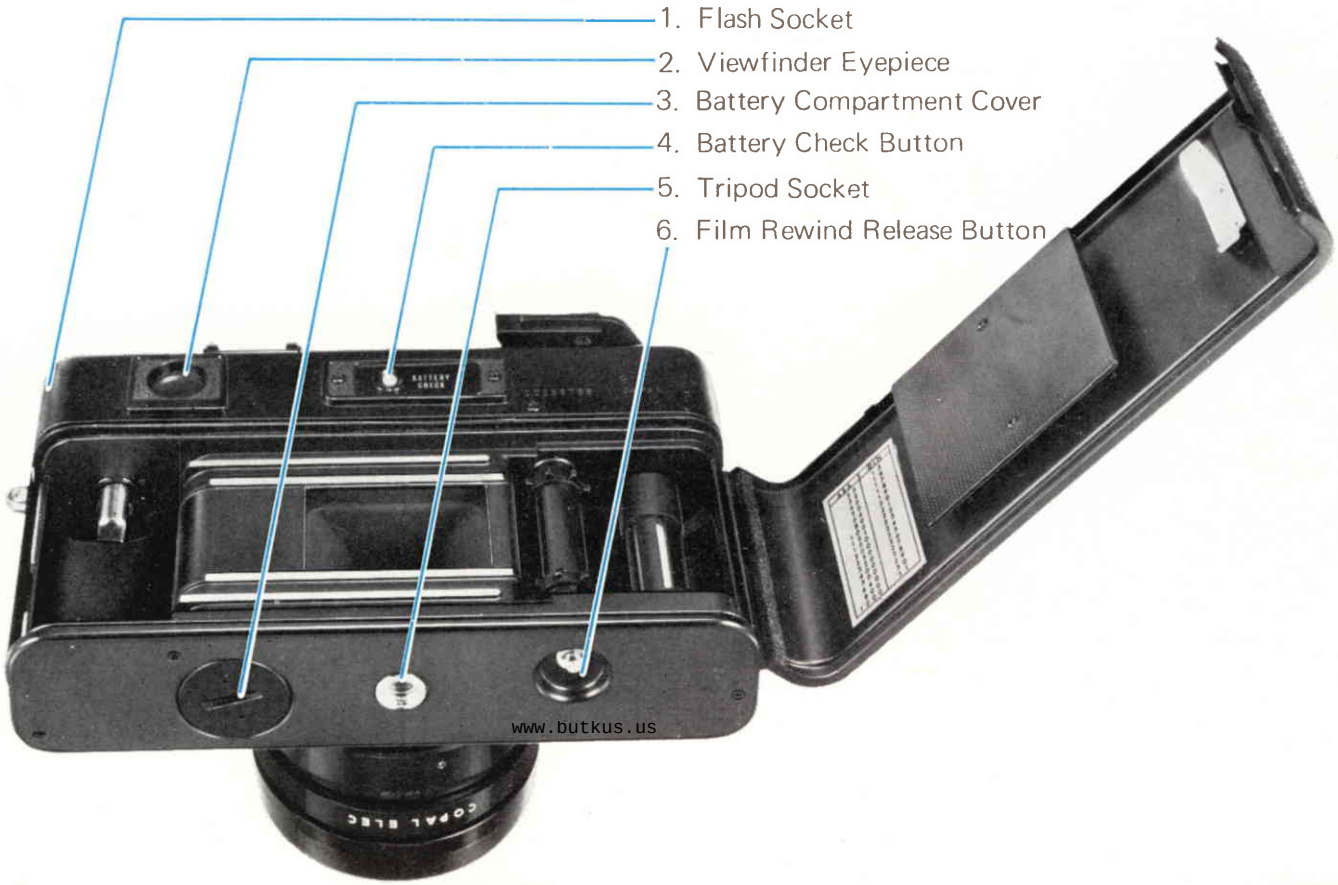
Description



Mike Butkus
Digitally signed by Mike Butkus
DN: cn=Mike Butkus, o=Butkus camera fanbase, ou=butkus.org, email=mike@butkus.org, c=US
Date: 2024.07.16 02:01:24 -04'00'



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1. Blitzlichtkontakt
2. Suchereinblick
3. Batteriekammerdeckel
4. Batterieprüfknopf
5. Stativgewinde
6. Rückspulauslöseknopf

1. Prise de flash
2. Œilleton de viseur
3. Couvercle du compartiment de la pile
4. Bouton de contrôle de pile
5. Ecrou de pied
6. Bouton de débrayage pour réembobinage du film

1. Enchufe para flash
2. Ocular
3. Tapa del alojamiento de la pila
4. Botón probador de la pila seca
5. Hembra del trípode
6. Botón para el reenrollado

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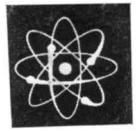

Here's the Secret to Perfect Exposure!

Using revolutionary solid-state "Electronic Computer Brain", which measures the light with computer-like precision, the Yashica-engineered electronic shutter provides an infinite range of in-between speeds from a full 30 seconds to 1/500 sec. It will function at, let's say, 1/187 sec. or 16.2 secs., if the subject brightness requires it. The electric contact points of the electronic components are finished in gold to provide excellent conductivity of electricity for foolproof operation. You can, therefore, take vivid color pictures even in candle-light dimness or near darkness—without Flash!

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Key Steps for Color Photography

Hauptvorgänge bei Farb-Photographie

Pour Réussir de Bonnes Photos en Couleur

Procedimientos para tomar fotos en colores

1. Insert a new roll of film . . .

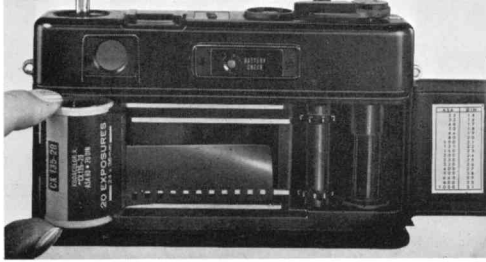
1. Einen neuen Film einlegen . . .
1. Mettre en place une cartouche de film couleur . . .
1. Coloque un nuevo rollo de película . . .

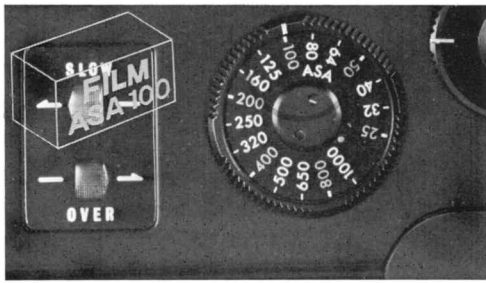
2. Set the ASA film speed by turning the ASA film speed setting dial.

2. Die ASA Filmempfindlichkeit durch drehen der ASA Filmempfindlichkeitsskala einstellen.
2. Régler l'appareil sur la sensibilité du film utilisé (cadran de réglage).
2. Regule la sensibilidad de película ASA girando el disco regulador de sensibilidad.

3. Set the exposure control ring to "AUTO"

3. Den Belichtungskontrollring auf "AUTO" einstellen.
3. Amener la bague de réglage d'exposition en position "AUTO".
3. Regule el mando de control de exposición a "AUTO."





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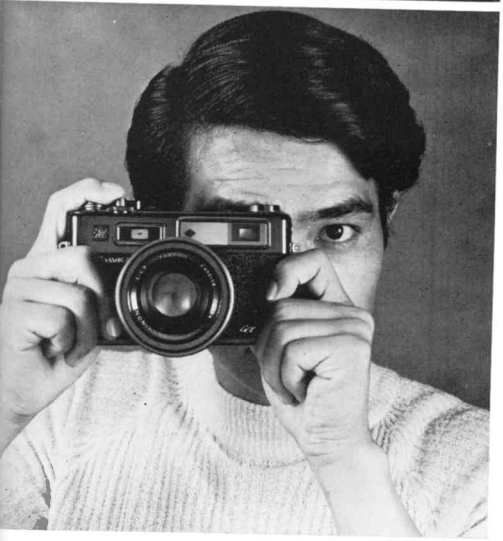


4. Set the desired exposure symbol to the index mark.

4. Das gewünschte Belichtungssymbol auf Markierung (1) einstellen.

4. Aligner sur l'index le symbole d'exposition choisi.

4. Regule el símbolo de exposición a la marca índice (1).

5. Now, focus and click the shutter. Living color pictures are yours!

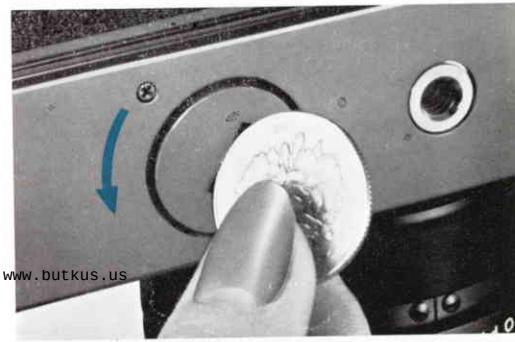
5. Fokussieren und auslösen . . . lebende Farbaufnahmen sind das Resultat!

5. Plus qu'à mettre au point et à déclencher. Vous obtiendrez ainsi de magnifiques photos colueurs vivantes.

5. Ahora, enfoque y apriete el disparador. ¡Las fotos en colores vivos son suyas! .

Loading Battery

1. Unscrew the Battery Compartment Cover with the edge of a coin.



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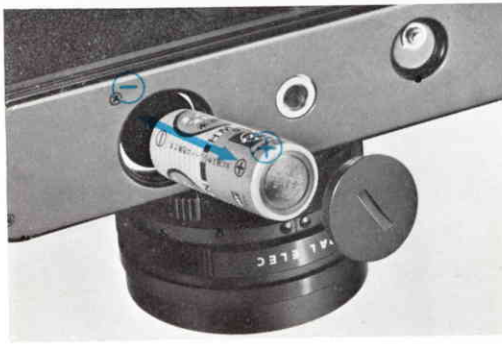
2. Drop in the mercury battery (Mallory TR164, Eveready E164 or equivalent) as illustrated. If the battery is not loaded in position, the electronic shutter does not function correctly, even if the green lamp lights.



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Notes on Mercury Battery

It is advisable to carry a spare battery.
When the camera is not in use for a long period of time, remove the battery and store them in a cool, dry and safe place.

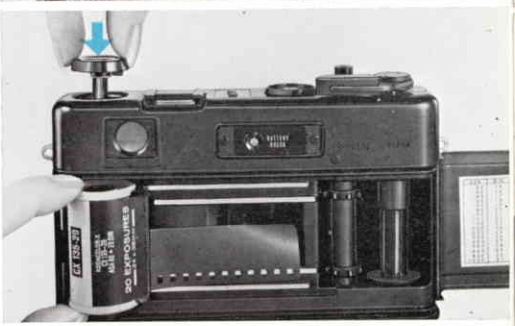
Checking Battery

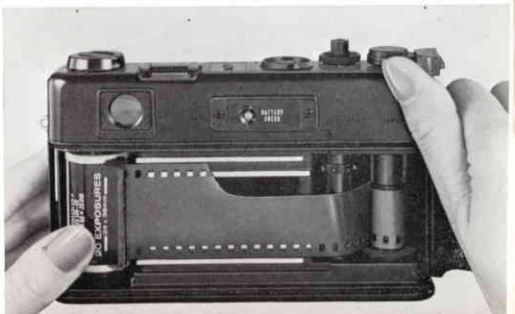
It is necessary to check the battery power before picture-taking, because sufficient battery power is required to obtain the correct exposure.
Press the Battery Check Button on the back of the camera body. When the green lamp lights in the Exposure Counter Window, the battery power is sufficient. If not, the battery should be replaced.

Loading Film

1. Pull up Film Rewind Crank/Back Cover Release Knob, and the back cover will pop open. The Film Exposure Counter is automatically set to "S" (Start).
2. Load the film in the camera and push down the Film Rewind Crank/Back Cover Release Knob. Thread the end of the film leader securely into any slot of the Take-Up Spool.
3. Make certain that the perforation in the film are threaded securely on the sprocket teeth. Then close the Back Cover securely.

You should load a film in subdued light, never in direct sunlight.





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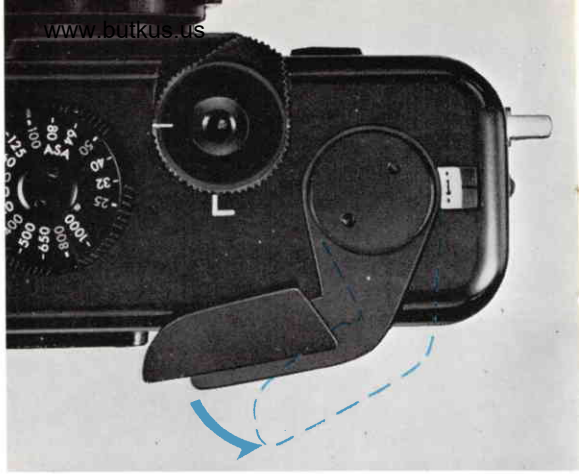
4. Advance the film, press the Shutter Release Button and repeat this procedure until the figure "1" appears in the Exposure Counter Window. The exposure counter registers automatically the exposed frames of the film.



Checking the film advance

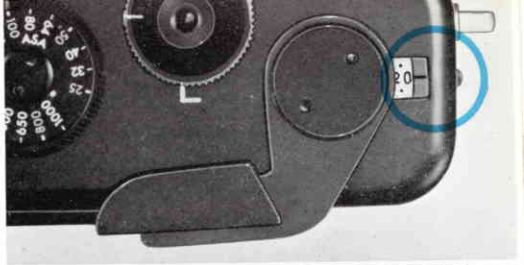
Check the Film Rewind Crank as you advance the film. If it moves as illustrated, the film is properly loaded. Swings the Film Advance Lever until it stops.

Unloading Film

1. After the last exposure, the film must be rewound into its cassette before removing it from the camera. Avoid winding the Film Advance Lever when a resistance is felt. And do not force to advance the film as it may tear or come loose from the cassette, making it impossible to rewind.

2. Press the Film Rewind Release Button on the base of the camera.

3. Flip up the Folding Film Rewind Crank and turn it in the direction of the arrow. When you reach the end of the film, you will feel a slight resistance. Continue turning the Crank until you feel the film pulling away from the slot of the Take-up Spool.
   Open the Back Cover and remove the film.



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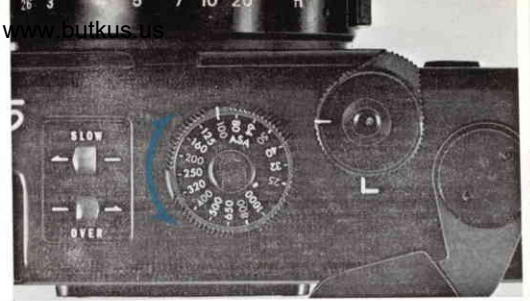
For Correct Exposure

1. Turn the Film Speed Setting Ring and set the desired ASA guide number opposite the indicator line (—). Otherwise, the correct exposure can not be obtained.

2. Set the Exposure Control Ring to AUTO position.

3. Choose the desired Exposure Symbol by turning the Aperture Ring.

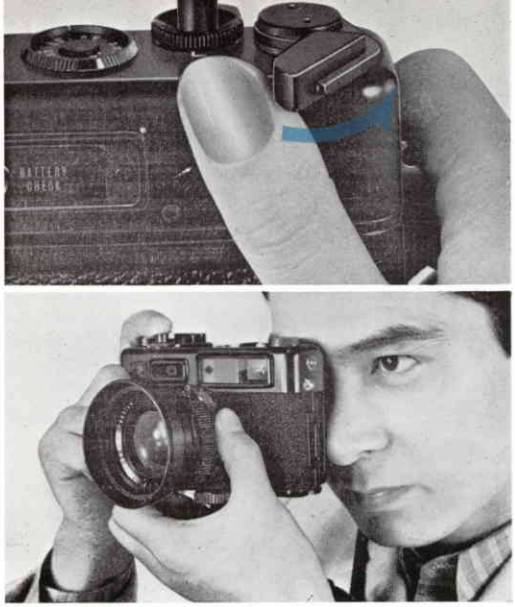


Symbols	Conditions	Apertures
☼	Bright Sun	16/11/8
☁	Heavy Overcast or Open Shade	5.6/4/2.8
▦	Indoors	2/1.7

4. When the Film Advance Lever is wound, the meter switch is set to ON position automatically.

Caution : The Shutter Release Lock Lever must be unlocked.

5. Gently press the Shutter Release Button. When no warning arrows light in the viewfinder or on the top of the camera body, press the Button all the way down to make the exposure.



ASA Rating

The ASA rating denotes the degree of light sensitivity of the film emulsion and is clearly indicated on the box or the instruction which comes with the film.

Caution : When the camera is not in use, do not leave the shutter cocked. If it is left cocked, the electronic exposure control system is set to ON position, which causes the drainage of the mercury battery.

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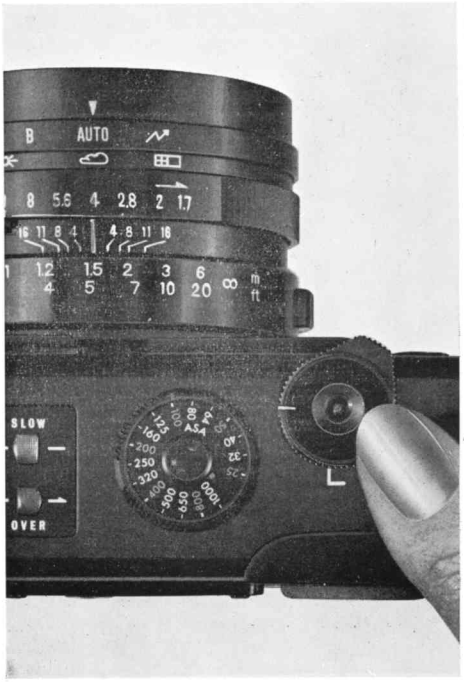
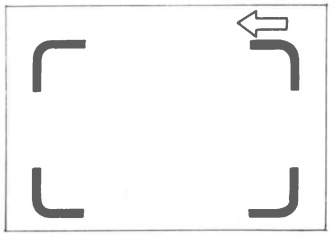
Checking Exposure

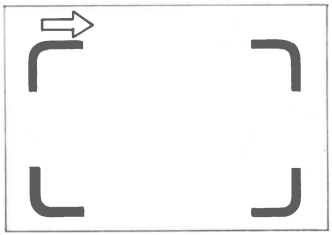
The warning arrows visible on the camera top and in the viewfinder.
When the Shutter Release Button is pressed down half-way, the exposure control system is activated. When the Button is pushed down all the way, the shutter is released to make exposure.

1. No Warning Arrows

When there are no arrows, exposure setting is correct. Focus and shoot!







2. **Yellow Arrow**

Exposure required slow shutter speed. The camera should be held very steady, placed on a firm base or the use of the Grip/Tripod ST-7 to prevent camera shake is recommended.

3. Red Arrow

It indicates over-exposure and expcsure setting needs correction. Rotate the Aperture Ring until the Red warning arrows disappears. Use ND filter if necessary.

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Focusing

To focus, set the small rhombus in the middle over the subject and turn the Focusing Ring until the two images overlap and form one clear image.

Use of Bright Frame

The image seen within the luminous viewframe will be reproduced on the film. The subject at short distance (2.6 feet or 0.8 meter) should be composed in this frame providing automatic parallax correction.

Depth of Field

When you focus the camera on a subject, there is a certain distance in front and back of the subjects within which other objects will also appear sharp. This is known as the "Depth of Field" and it varies with the aperture. The smaller the aperture, the greater the Depth of Field.

The Depth-of-Field Scale will be found on the lens barrel. With the camera focused on 2 meters, the depth of field indicated by the scale for an aperture of f/16 is from 1.4 meters to 3.8 meters.

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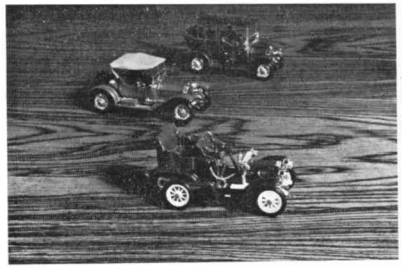
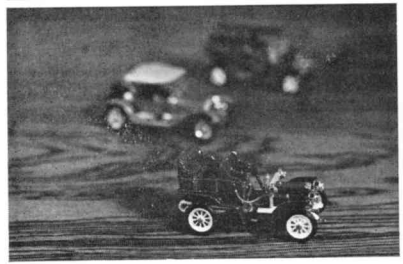


F 1



F 1.

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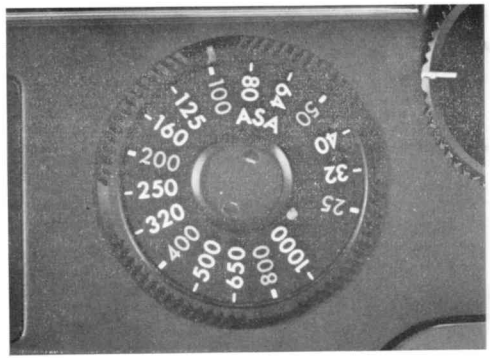
For Better Pictures

For color pictures : Color films have little exposure latitude. Careful exposure setting is required. Your ELECTRO 35GT guarantees the correct exposure at all times. However, it is recommended to shoot color photos in soft, diffused sunlight.

In the picture-taking of backlighted subjects or by using a filter, it is necessary to adjust the ASA rating of the film in use for correct exposure.



The use of filter is advisable for clear, crips pictures in blazing sunlight, snow scene or summer beach, etc.
Make compensation for filter factor by adjusting the Film Speed Setting Dial when, for example, a ND2 filter is used or you take a picture of the backlighted subject, in concert with an ASA 100 film, set the Dial to "50" instead of "100."
For open views : Open views, such as distant landscape, sea or snow scenes usually have blazing sunlight. For better results, it is recommended to adjust the ASA rating of the film in use to "160" or "200" when, for example, the ASA 100 film is used. Also, it is advisable to use a lens hood to cut off the harmful reflected light for more crisp pictures.

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Flash Pictures

1. With the electronic shutter, your ELECTRO 35GT automatically gives long exposure in dim light. However, when you want to take pictures of moving subjects in dim light, the use of a flash gun is recommended.

2. Set the flash mark ⚡ to the triangle mark (▼) by turning the Exposure Control Ring. The shutter speed is set automatically at 1/30 sec. and both electronic flash unit and flashbulbs can be used.

3. Obtain the camera-to-subject distance by turning the Focusing Ring and divide the guide number of the electronic flash or flashbulbs by the distance. The figure thus obtained is the correct aperture, which should be set on the camera by turning the Aperture Ring. Remember that the guide number is different for each film speed.

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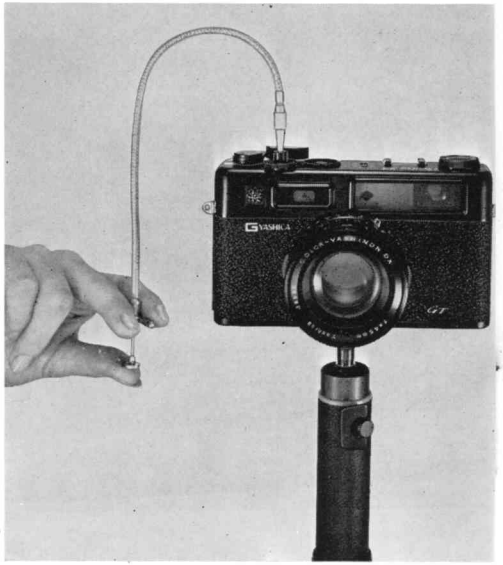
B Setting

When a long exposure is required to achieve special effects, set the Exposure Control Ring to "B" and press the shutter release button. The shutter will remain open for as long as the shutter release button is kept depressed. For such time exposure, the camera must be mounted on a firm support such as a tripod. When using slower shutter speeds than 1/30 sec. or B setting, the camera must be mounted on a firm base such as a tripod. Also, it is safest to release the shutter with the help of a cable release to avoid shaking the camera. This cable release screws into the socket provided in the release button.



Self-Timer

Advance the film to set the shutter. Move the Self-Timer on the lens barrel in the direction of the arrow.
Press the Shutter Release Button which will actuate the Self-Timer and in 7-8 seconds, the shutter will click.

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Selbstauslöser

Nach Film- und Verschlußaufzug den kleinen Hebel des Selbstauslösers in Pfeilrichtung spannen.
Ein Druck auf den Auslöseknopf schaltet den Selbstauslöser ein ; Sie haben 7-8 Sekunden Zeit, um sich eventuell in eine Gruppe mit einzureihen.

Retardement

Avancer le film pour armer l'obturateur.
Pousser le levier du retardement dans le sens de la flèche.
Appuyer sur le bouton de déclenchement qui met en marche le retardement : 7 ou 8 secondes après l'obturateur se déclenche.

Auto-Disparador

Mueva la palanquita del auto-disparador, localizada en el tubo-montura del objetivo, a la dirección de la flecha.
El disparador hará el disparo 7—8 segundos después de ser apretado. Cuando se usa el auto-disparador, conviene fijar la cámara con un trípode o una base adecuada.

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Shutter Release Lock Lever

Lock the shutter release button by turning the Shutter Release Lock Lever counterclockwise when your camera is not in use.
The shutter release button is locked.
The battery drain and an accidental shutter release are prevented.
The shutter release button is released.

Verriegelung des Auslöseknopfes

Bei Nichtbenutzung der Kamera drehen Sie den kleinen Ring am Fuss des Auslöseknopfes linksherum.
So ist der Auslöser verriegelt, die Batterie wird geschont und unbeabsichtigtes Auslösen unmöglich.
So lässt sich der Auslöser wieder betätigen.

Levier de Verrouillage du Bouton de Déclenchement

En dehors des périodes d'utilisation bloquer le déclencheur en tournant dans le sens de l'aijuilles d'une montre la cuvette crantée qui entoure le bouton de déclenchement.
Le déclencheur est verrouillé.
La pile est hors circuit et vous prévient contre un déclenchement accidentel.
Le déclencheur est libéré.

Anillo de Bloqueo

El anillo que rodea al obturador es para bloquear a éste cuando se guarda la cámara. Este bloqueo sirve también para evitar que sea gastada la energía de la pila.
Estado de obturador bloqueado
Estado de obturador libre.

Care of Your Camera

- Do not keep the camera in the glove compartment or trunk of the car or leave it in direct sunlight, because heat may affect the film in use, battery and electric circuit in the camera.
- It is advisable to carry a spare battery.
- If the front furface of the lens needs cleaning first blow away any dust or dirt from the surface. Then, clean with a lens brush or clean, soft, lintless cloth.
- When the camera is not in use for a long period of time, remove the battery and store it in a cool, dry and safe place.

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Accessories

Lens Hood

The lens hood will serve to ward off extraneous light and the use of it is recommended to obtain better results.

Filters

Filters are invaluable for special photographic effects. Many kinds of 55 mm screw-in type filters are available for color and black & white films.

Auto-Up Lens

This Auto-Up Lens is designed for the Yashica ELECTRO 35GS and ELECTRO 35GT.

With this lens, it is possible to photograph subjects between the distance of 80 cm (31-1/2 inches) and 45 cm (17-3/4 inches). The distance is measured form the film plane of the camera to the subjects.

Grip/Tripod ST-7

A "MUST" for sharper, clearer pictures under any condition. It's essential for night photography, time exposure, self-portraits, etc. to prevent camera shake.

Griff/Stativ ST-7

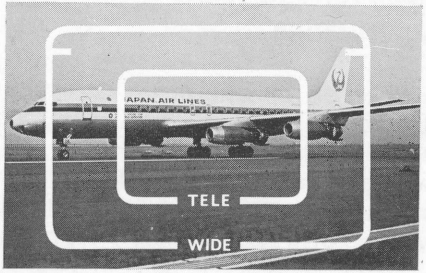
Unerässlich für schärfere, klarere Bilder unter jeglichen Bedingungen. Unentbehrlich für Nachtaufnahmen, Zeit-Belichtungen, Selbst-Porträts, usw. um Zittern der Kamera zu verhindern.

Poignée / pied ST-7

Absolument indispensable pour obtenir des négatifs plus piqués, plus nets, en toutes circonstances. Indispensable pour la photo de nuit, la pose, l'auto-portrait etc en vue d'éviter tout "bouge" de l'appareil.

Agarre/Trípode ST-7

Un "DEBER" para obtener fotos más clara y nítida bajo cualquier condición. Es indispensable para fotografiar de noche, para exposición de tiempo, para retratarse a sí mismo, etc. y para proteger la cámara contra movimientos perjudiciales.



Auxiliary Lens Set

The Auxiliary Lens Set consits of an auxiliary telephoto lens which extends the focal length of the camera lens to 58.4 mm and an auxiliary wide-angle lens which reduces the focal length of the camera lens to 37.7 mm. 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 58,4 mm verlängert und einem Weitwinkelobjektiv welches die Brennpunktlänge des Kameraobjektivs auf 37,7 mm 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 58,4 mm et de la lentille "grand angle" qui remène cette distance focale à 37,7 mm. 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 58,4 mm, y un objetivo granangular auxiliar, que reduce la longitud focal del objetivo a 37,7 mm.

Para hacer más fácil y exacta la composición de vista, se suministra un exclusivo visor que se usa para ambos objetivos.

Note : To make the removal of the GRIP/TRIPOD ST-7 from the camera easier, the new locking knob on the camera case is large and has two slots.
Unscrew the legs and insert one of them into one of the slots of the knob. Hold it securely, as illustrated, and unscrew the GRIP/TRIPOD ST-7 from the camera.

Bemerkung : Zum leichteren Entfernen des GRIFF/STATIVES ST-7 von der Kamera, ist der neue Fixierknopf grösser und hat zwei Schlitze.
Die Beine herausschrauben und eines davon in einen Schlitz des Knopfes einstecken. Festhalten, wie abgebildet, und das GRIFF/STATIV ST-7 von der Kamera abschrauben.

Note : Pour faciliter l'enlèvement de la poignée-pied ST-7 de l'appareil, son nouveau bouton de blocage est sur-dimensionné et comporte deux fentes.
Dévisser les branches et insérer l'une d'elles dans une des fentes du bouton. Tout en la maintenant fermement en place, comme indiqué par l'illustration, dévisser la poignée-pied ST-7 de l'appareil.

Nota : Con objeto de facilitar aun más el sacado del AGARRE/TRIPODE ST-7 desde la cámara, se ha provisto un botón de cierre grande que posee dos ranuras.
Destornille las patas e inserte una de ellas en las ranuras del botón. Sosténgala firmemente, como se indica, y destornille el AGARRE/TRIPODE ST-7 para sacarlo fuera de cámara.

DEPTH-OF-FIELD TABLE
SCHÄRFENTIEFENTABELLE

TABLE DE PROFONDEUR DE CHAMP
PROFUNDIDAD DEL CAMPO

Meter

Distance		1.7	2	2.8	4	5.6	8	11	16
∞	from	37.7	32.1	22.9	16.1	11.5	8.07	5.89	4.08
	to	∞	∞	∞	∞	∞	∞	∞	∞
7	from	5.93	5.77	5.39	4.91	4.39	3.79	3.24	2.61
	to	8.65	8.91	10.0	12.3	17.6	51.6	∞	∞
2	from	1.91	1.89	1.85	1.79	1.72	1.63	1.53	1.38
	to	2.10	2.12	2.18	2.26	2.39	2.61	2.94	3.77
1	from	0.98	0.97	0.95	0.95	0.3	0.91	0.88	0.83
	to	1.02	1.03	1.04	1.06	1.08	1.12	1.17	1.27
0.8	from	0.79	0.78	0.77	0.76	0.75	0.74	0.72	0.70
	to	0.81	0.82	0.82	0.83	0.85	0.87	0.90	0.96

Feet

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