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ELECTRO 35 GC

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DESCRIPTION OF PARTS



1. Shutter Release Button
2. Film Advance Lever
3. Exposure Counter/Battery Check Lamp
4. Shutter Release Lock
5. Focusing Ring
6. Aperture Ring
7. CdS Sensor
8. Taking Lens
9. Accessory Shoe
10. Film Rewind Knob (with rewind crank-handle and back cover release)
11. Synchro Terminal
12. Viewfinder Window
13. Self-Timer

mike butkus

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Date: 2019.01.29 14:46:00 -05'00'

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BESCHREIBUNG DER TEILE

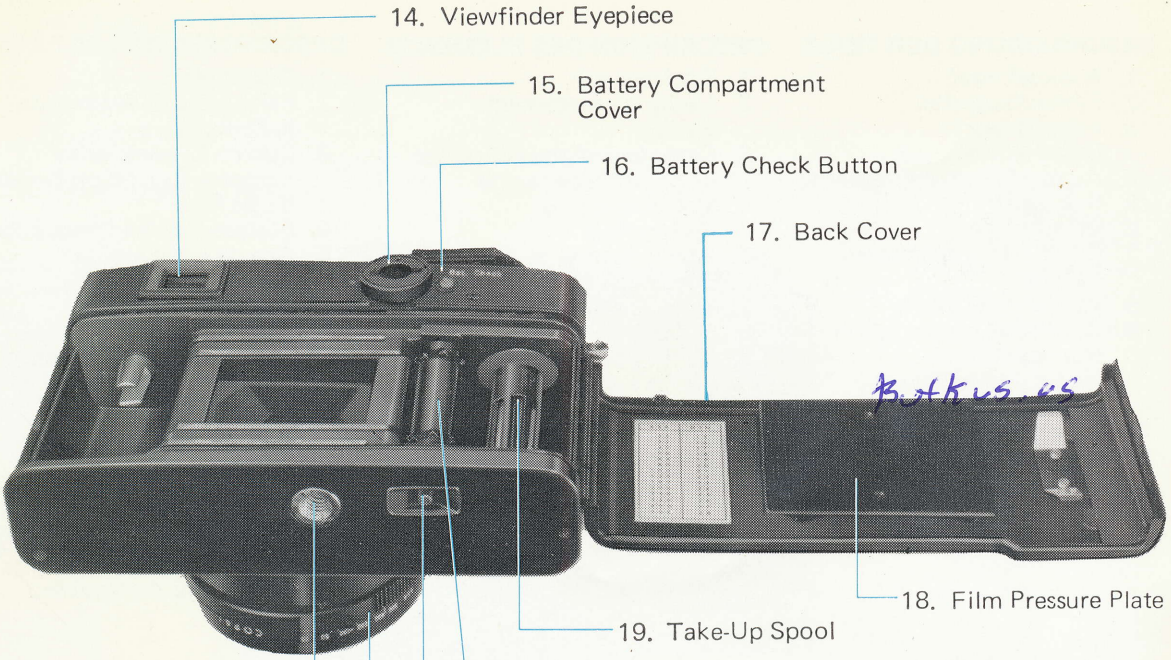
1. Auslöseknopf
2. Filmaufzughebel
3. Filmzählwerk/ Batterieprüflampe
4. Auslöseknopf-Verriegelung
5. Fokussierring
6. Blendenring
7. CdS-Belichtungsmesser-Fenster
8. Aufnahmeobjektiv
9. Zubehör-Aufsteckschuh
10. Rückspulknopf (mit Kurbelgriff und Rückwandverriegelung)
11. Synchro-Kontakt
12. Sucherausblick
13. Selbstauslöser

DESCRIPTION DES ELEMENTS

1. Déclencheur
2. Levier d'avancement du film
3. Compteur d'images/Lampe de contrôle de la pile
4. Verrouillage du déclencheur
5. Bague de mise au point
6. Bague de l'ouverture
7. Fenêtre de la cellule CdS
8. Objectif de prise de vue
9. Griffe porte accessoires
10. Bouton de rebobinage (avec manivelle et tirette d'ouverture du dos)
11. Prise de synchronisation
12. Fenêtre du viseur
13. Retardement

DESCRIPCION DE LAS PARTES

1. Disparador
2. Palanquita de Avance de la Película
3. Cuenta Exposiciones/ Lampara de Comprobación de las Pilas
4. Bloqueador del Disparador
5. Aro de Enfoque
6. Aro de Aberturas
7. Sensor a CdS
8. Objetivo
9. Contacto para Accesorios
10. Perilla de Rebobinado de la Película (con manivela de rebobinado y sujetador de la tapa trasera)
11. Contacto de Sincronización
12. Ventanilla del Visor
13. Disparador Automático


14. Viewfinder Eyepiece
15. Battery Compartment Cover
16. Battery Check Button
17. Back Cover
18. Film Pressure Plate
19. Take-Up Spool
20. Sprocket Wheel
21. Film Rewind Release Button
22. ASA Film Speed Setting Lever
23. Tripod Socket

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14. Suchereinblick
15. Batteriegehäusedeckel
16. Batterieprüfknopf
17. Rückwand
18. Andruckplatte
19. Geschlitzte Aufwickelspule
20. Mitnehmerachse
21. Rückspulauslöseknopf
22. ASA Filmwertwähler
23. Stativgewinde

14. Oculaire du viseur
15. Couvercle du compartiment de la pile
16. Bouton de contrôle de la pile
17. Dos
18. Presse-film
19. Bobine réceptrice
20. Pignon de transport
21. Bouton de débrayage pour le rebobinage
22. Bouton d'adaptation à la sensibilité ASA
23. Ecrou pour pied

14. Ocular de Visor
15. Tapa del Compartimiento de las Pilas
16. Botón para la Comprobación de las Pilas
17. Tapa tr
18. Placa Opresora de la Película
19. Carrete Reseptor
20. Rueda dentada
21. Botón Fiador de Rebobinado de la Película
22. Palanquita de Ajuste de la Sensibilidad ASA de la Película
23. Rosca para el Trípode

KEY STEPS HAUPTVORGÄNGE OPERATIONS
PREPARACION PARA LA FOTOGRAFIA

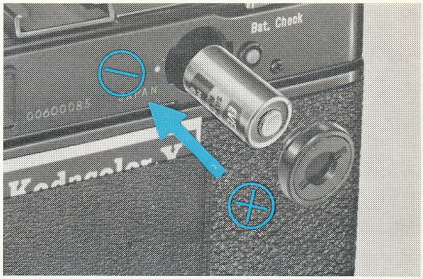
1

Install and check battery.

Batterie einlegen und überprüfen.

Installer et vérifier la pile

Instale la pila de mercurio y compruebe el estado de carga.



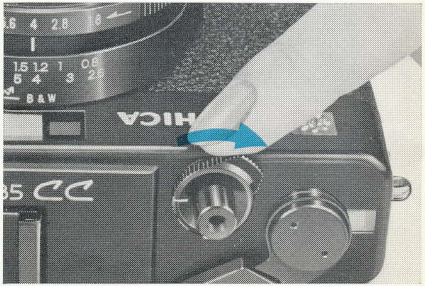
2

Unlock shutter and remove lens cap.

Verschluss entsichern und Objektivdeckel entfernen.

Déverrouiller le déclencheur et retirer le capuchon de l'objectif

Abra el bloqueador del disparador y retire el cubrelente.



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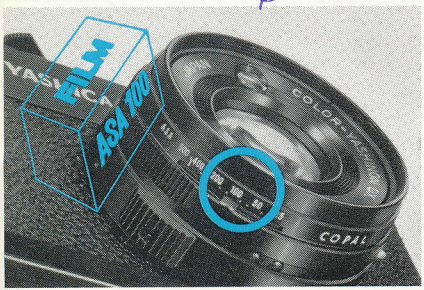
3

Load film.

Film einlegen.

Charger le film

Instale el carrete de película.



4

Set ASA film speed.

ASA Filmgeschwindigkeit einstellen.

Régler la sensibilité ASA du film

Ajuste la sensibilidad ASA a la indicada para la película usada.

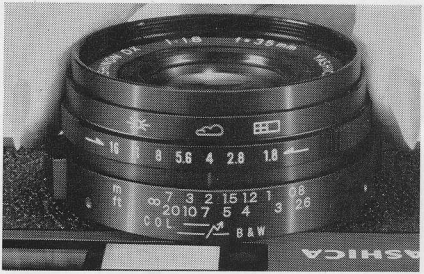
5

Select exposure symbol.

Belichtungssymbol wählen.

Sélectionner le symbole d'exposition

Seleccione los símbolos de exposición.



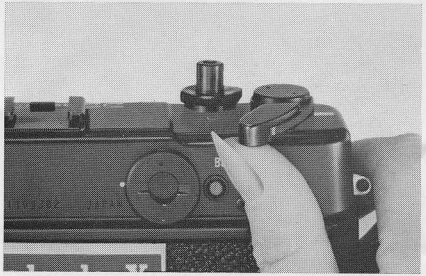
6

Wind film.

Film aufziehen.

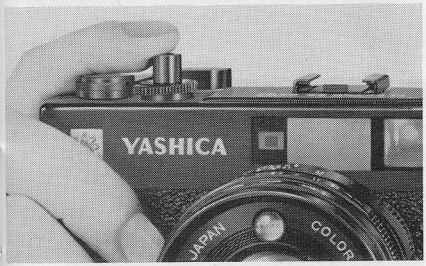
Avancer le film

Enrolle la película (avance la película).



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7 Focus and compose.

Objekt einstellen und fokussieren.

Mettre au point et cadrer

Compruebe la exposición y dispare.

8 Check exposure and shoot.

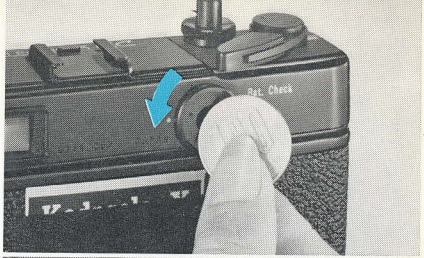
Belichtung überprüfen und abdrücken.

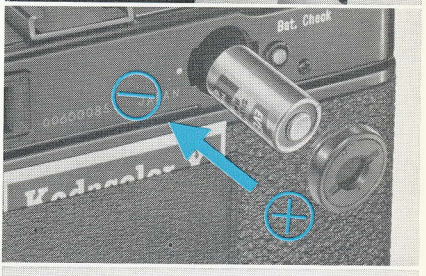
Verfier l'exposition et déclencher

Enfoque la cámara y componga el cuadro.

BATTERY LOADING AND CHECKING

1. Open the Battery Compartment Cover by turning it counter-clockwise with the edge of a coin.
2. Load a 6 V silver oxide battery, "—" (minus) end in first, and replace the cover. Always carry a spare battery (Eveready No. 544, Mallory PX-28N or equivalent).
3. Check battery power by pressing the Battery Check. If the green light comes on in the Exposure Counter Window, the battery power is sufficient. If not, replace the battery.







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BATTERY (Continued)

- Always carry a spare battery, especially when going on outings or trips.
- When your camera is not in use for a long period of time, remove the battery and store it in a dry, cool place.
- Do not throw used batteries in a fire. Do not attempt to dismantle it.
- If the battery is not loaded properly, the lamps will fail to come on.
- If the battery is not loaded or in case its power has drained to a level below the required voltage, the shutter will function at a speed of approximately 1/250 second.

BATTERIE (Fortsetzung)

- Es ist empfehlenswert, auf längeren Ausflügen oder Reisen eine Ersatzbatterie mitzuführen.
- Wenn die Kamera während einer langen Zeitspanne nicht gebraucht werden soll, dann sollte die Batterie ausgebaut und an einer trockenen und kühlen Stelle aufbewahrt werden.
- Eine ausgebrauchte Batterie darf niemals ins Feuer geworfen oder zerlegt werden.
- Falls das Batterieprüflämpchen nicht aufleuchtet, so ist der Ladezustand der Batterie ungenügend.
- Falls die Batterie vollständig leer bzw. nicht geladen ist, wird der Verschluss bei etwa 1/250 Sekunde ausgelöst.

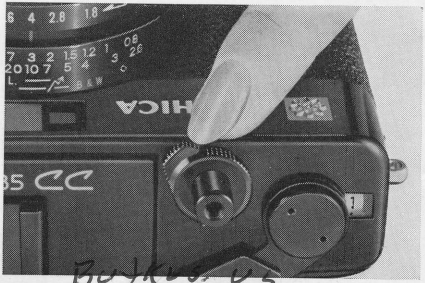
SHUTTER RELEASE

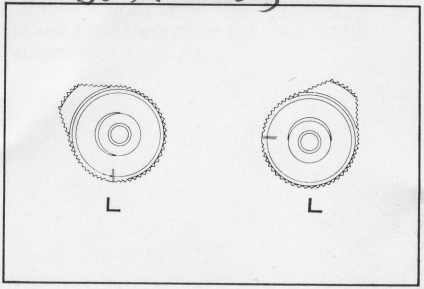
The shutter release button of your ELECTRO 35CC provides two distinctive functions. When pressed half-way, it activates the electronic exposure check system and turns on the red and yellow warning arrows in the finder. When pressed all the way down, it trips the shutter for fully automatic exposure.

To prevent accidental tripping of the shutter, the Shutter Release Lock is featured around the shutter release button.

To unlock, give the Shutter Release Lock one-fourth turn clockwise.

To lock, turn the lock and align the marking with the letter "L" on the camera deck.



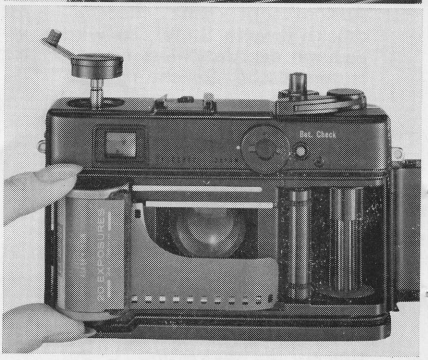


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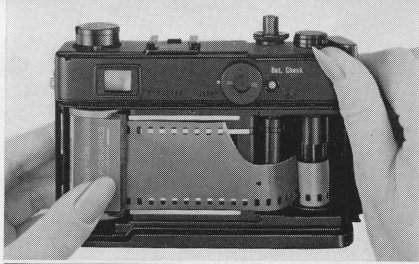
FILM LOADING (Always load in subdued light)

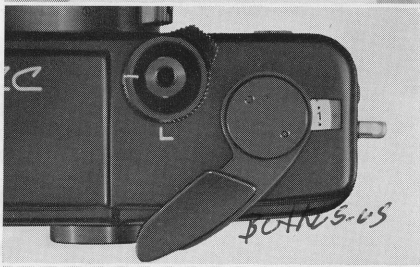
1. After unlocking the shutter and removing the lens cap, pull out the Film Rewind Knob. The Back Cover will pop open and the Exposure Counter will reset automatically to "S" (start).
2. Set a 35mm film cassette, right end up, in the film chamber and push in the Film Rewind Knob. Then, insert the film leader into any one of the slots on the Take-up Spool and advance the film by manipulating the Film Advance Lever.





3. After making sure the perforations on the film properly engage the sprocket teeth, close the Back Cover by pressing it against the camera body until it locks automatically.
4. Press the Shutter Release Button all the way down and then advance the film. Repeat this step until the figure "1" appears in the Exposure Counter Window. To advance the film, give the Film Advance Lever one full stroke.
5. To determine whether the film is advancing properly, gently wind the Film Rewind Crank-handle in the direction of the arrow until a slight resistance is felt. As you advance the film, the Film Rewind Knob should rotate counter-clockwise as illustrated.





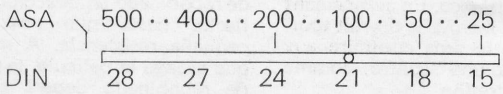


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ASA FILM SPEED SETTING

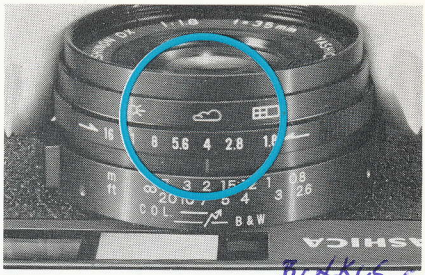
To ensure proper function of the electronic exposure control, your ELECTRO 35CC must first of all be set according to the speed rating of the film in use. To set the ASA film speed, move the ASA Film Speed Setting Lever and align it with the figure corresponding to the speed rating of the film in use. The ASA speed rating is shown on the box or the instructions which comes with the film.
For DIN equivalents, refer to the table on the Back Cover.





EXPOSURE SYMBOLS

After setting your camera according to the ASA speed rating of the film in use, select the exposure symbol. With this simple step, the electronic exposure system of your ELECTRO 35CC will function to deliver perfect results, automatically. Select the appropriate Exposure Symbol and align it with the index line by turning the Aperture Ring.



* SUN or CLOUD symbol — for outdoor photography.
* WINDOW symbol — for indoor and night photography.

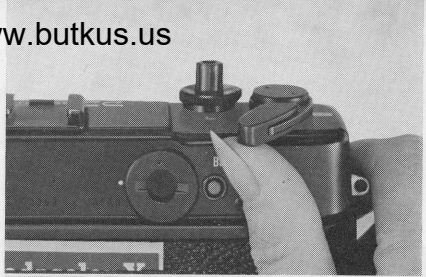
Symbols	Light Condition	Aperture
☼	Bright Sun	f/16, f/11, f/8
☁	Heavy Overcast or Open Shade	f/5.6, f/4, f/2.8
⊞	Indoors or Night	f/1.8

When taking pictures at dark location (EV–1.0), set the aperture scale to ⊞.

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EXPOSURE CHECKING

1. Advance the film and cock the shutter by manipulating the Film Advance Lever.
This sets the electronic exposure control of your ELECTRO 35CC to "standby" condition.
2. While sighting your subject through the finder, press the Shutter Release Button halfway. The absence of both the red and yellow arrows signifies that hand-held photography is possible. All you need do to obtain a perfect picture is to focus and press the Shutter Release Button all the way down.
NOTE : To minimize natural drain of battery power, avoid keeping the shutter cocked when your camera is to be left unused for any length of time.

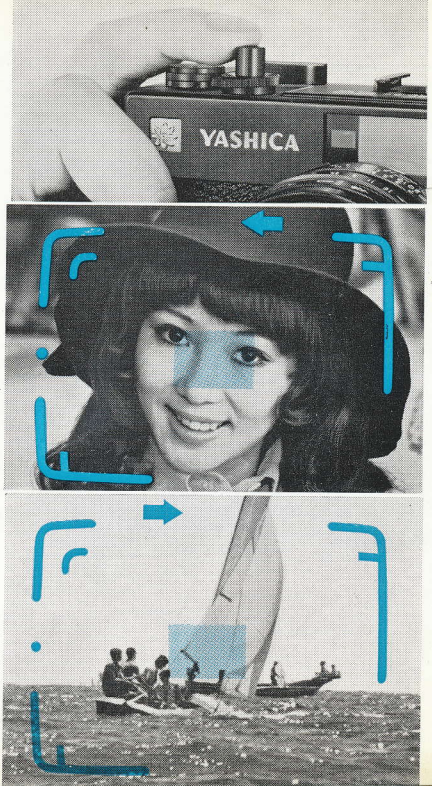




EXPOSURE CHECKING (Continued)

3. When the Shutter Release Button is half-pressed and the RED arrow comes on, it is an indication of over-exposure. Turn the Aperture Ring in the direction of the arrow until it disappears. If it fails to turn off, use a neutral density filter.

4. The appearance of the YELLOW arrow signifies too little light for hand-held photography and signals that the exposure will be made at 1/30 sec. or slower shutter speed. Turn the Aperture Ring in the direction of the arrow. If the yellow arrow fails to disappear, use a tripod for firm support of your camera. Whether the yellow arrow disappears or not, precise exposure will be determined and set automatically.

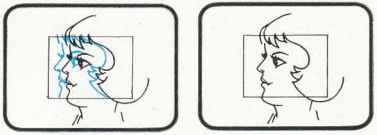


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FOCUSING AND COMPOSING

1. Sight through the Viewfinder and turn the Focusing Ring in either direction until the two images in the tinted focusing area form one clear image.
2. Compose your picture within the bright trimming frame. The marks within the frame is for parallax correction when shooting subject at close range. Center your subject in the area outlined by these marks when photographing at short range.





out of focus in focus

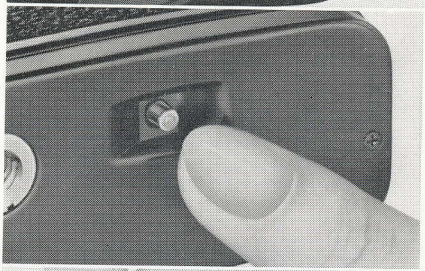
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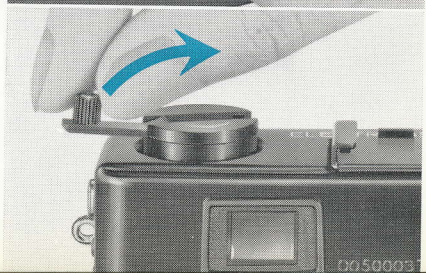


FILM UNLOADING

1. After the last exposure, do not attempt to advance the film further as it may tear or come loose, making it impossible to rewind it into the cassette.
2. Before opening the Back Cover, the film must be rewound into its cassette. Press the Film Rewind Release Button on the base of the camera.
3. Fold out 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. Then, open the Back Cover, remove the film cassette and send it out for processing.







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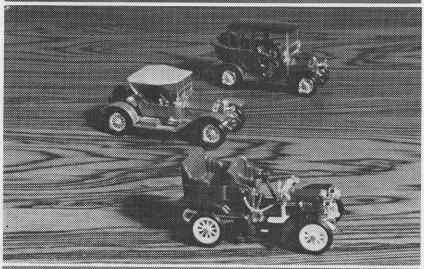
DEPTH OF FIELD

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 :

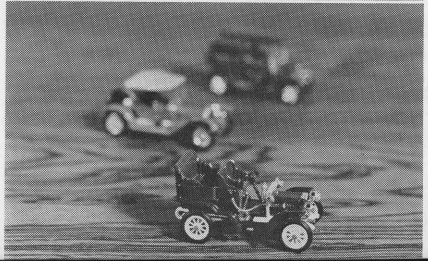
a) when the lens is stopped down
b) when the camera is focused on a distant subject
c) in the background rather than the foreground.

The COLOR-YASHINON DX 35mm f/1.8 lens of your ELECTRO 35CC provides an extensive depth of field. By taking full advantage of this feature, you can obtain perfect results with a minimum fuss over focusing. Refer to the Depth-of-Field Table on Page 50.





f/16



f/1.8

TIPS FOR BETTER PICTURE-TAKING

The sophisticated electronic system of your ELECTRO 35CC will provide perfect automatic exposure setting under virtually all light conditions, from bright outdoor situations to candlelight dimness. When shooting against light or when photographing open scenes under bright sunlight, etc., better results can be obtained by making exposure compensation.

1. Snow scenes or beach scenes under bright sunlight

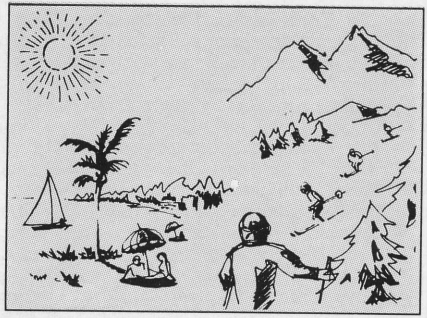
To prevent over-exposure, reset the ASA Film Speed Setting Lever to 150 or 200 when a film with a speed rating of ASA 100 is in use.

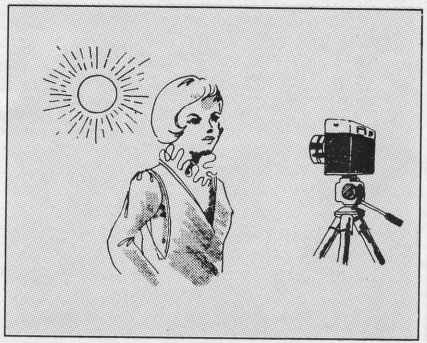
2. Backlit subjects

To bring out greater details of the subject when shooting against light, reset the Film Speed Setting Lever to ASA 50 when a film with a speed rating of ASA 100 is in use.

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 required.

Use the lens shade to ward off extraneous light when shooting outdoors.





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SELF-TIMER

If you wish to include yourself in the picture, use the Self-timer and proceed as follows :
(a) Advance the film, (b) move the Self-timer Lever all the way down and (c) press the Shutter Release Button. The shutter will be tripped about 8 seconds later.



CABLE RELEASE

To prevent camera shake when making exposures at 1/30 sec. or slower speeds (indicated by the yellow arrow in the finder), mount the camera on a tripod and trip the shutter by using a cable release.
Mount the cable release in the socket provided on the Shutter Release Button.



FILTER

Because your ELECTRO 35CC features a CdS sensor directly over the lens, any type of filter mounted over the lens will cover the sensor, thus eliminating the necessity for compensation of filter factor.
All types of Yashica Filters for color and B&W films are available. Use them selectively to ensure the best possible results.
Your ELECTRO 35CC accepts 52mm screw-in type filters.



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FILTER (continued)

- Commonly used filters

80B For color photography only. Use this filter when shooting with Daylight Type color film under artificial light.

Y2 For B&W film only. It absorbs excessive violet and blue rays and creates clear contrast between landscape and blue sky. It also brings out the clouds distinctively.

1A For color film only. It reduces excess bluish tinge and adds warmth to the picture.

82A For color photography only. It reduces excess red in the natural light and is effective when photography in early morning or late afternoon.

ND4 For color and B&W film. It reduces the intensity of light to 1/4 and is effective for compensation of over-exposure.

FILTER (Fortsetzung)

Filter für Allgemeingebrauch

80B Nur für Farbaufnahmen. Dieser Filter wird bei Verwendung eines Tageslicht-Farbfilms in künstlichem Licht benutzt.

Y2 Nur für Schwarzweiss-Filme. Schirmt violette und blaue Strahlen ab, und schafft einen klaren Kontrast zwischen Landschaft und blauem Himmel. Wolken werden ebenfalls besonders deutlich hervorgehoben.

1A Nur für Farbfilme. Vermindert übermässig blaue Farbtöone, und verleiht den Aufnahmen mehr Wärme.

82A Nur für Farbaufnahmen. Mildert übermässiges Rot im natürlichen Licht, und ist für frühe Morgenaufnahmen oder Aufnahmen am späten Nachmittage besonders wirkungsvoll.

ND4 Für Schwarzweiss- und Farbfilme. Vermindert die Lichtstärke auf 1/4 und eignet sich besonders für Überbelichtungs-Korrektur.

FLASH EXPOSURE

To stop action in subdued light, use a flash.
Your ELECTRO 35CC has a handy EZ-flash provision.

1. Mount a Yashica flash gun in the Accessory Shoe and connect the PC cord to the Synchro Terminal. This sets the electronic shutter automatically to a speed of 1/30 sec.
2. Set the aperture to f/8 by turning the Aperture Ring.
3. With color film, subjects within the range of 2 and 4 meters indicated by the green line can be photographed without re-adjustment of the aperture setting. With B&W film, the EZ-flash range is between 1.5 and 5 meters.

Type of Film	B & W	COLOR
Film Speed	ASA50~200	ASA64~160
Type of Bulb	AG-1	AG-1B
Distance	1.5~5m 4.9~16.4ft	2~4m 6.6~13ft

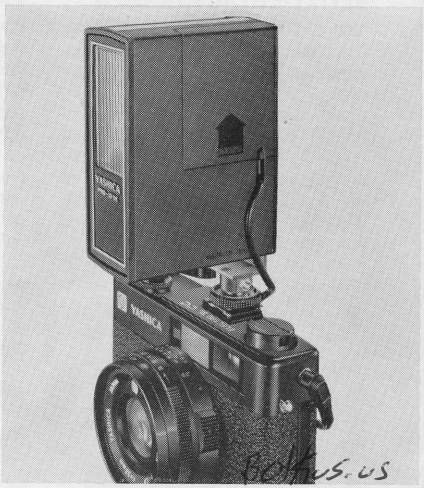


When using AG-3B bulb, set the aperture to f/11 when using ASA 125 to 160 film. In case of film with lower speed ratings, set the aperture to f/8.

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FLASH EXPOSURE (Continued)

When using an electronic flash, the shutter speed is also automatically set to 1/30 sec. when the PC cord is plugged into the Synchro Terminal of the camera. In this case, obtain the correct aperture setting by dividing the guide number of the electronic flash unit, corresponding to the speed rating of the film in use, by the camera-to-subject distance.



When using film with speed ratings other than those indicated in this section, or when photographing subjects closer than or beyond the specified EZ-flash range, the correct aperture setting must also be obtained by dividing the guide number by the camera-to-subject distance.

ACCESSORIES

YASHICA GRIP/TRIPOD ST-7

A handy accessory for your ELECTRO 35CC, the Yashica Grip/Tripod ST-7 provides multiple uses for firm support of your camera. It can be used as a grip, tripod, wall support, chest support, etc.

LENS SHADE

To ward off extraneous light and to assure crisp results in outdoor shooting, use the lens shade. Your ELECTRO 35CC accepts 54mm slip-on type lens shade. The lens shade also protects the lens from raindrops, snow-flakes and water-splattering.

FILTERS

52mm screw-in type

For B&W film — R1, B, UV, Y1, Y2, 02, B1

For color film — 1A, 80B, 81B, 82A, 85

For B&W and color film — ND4



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FEATURES

Lens : COLOR-YASHINON DX 35mm f/1.8 ; 6 elements in 4 groups ; stops down to f/16.
Shutter : Electronic shutter with an infinite range of speeds from 1/250 sec. to 8 seconds (at full lens opening) ; built-in self-timer and X sync.; shutter release lock ; shutter speed set automatically at 1/30 sec. when PC cord is plugged into synchro terminal.
Focusing : Coupled range/viewfinder focusing from 0.8 meters (2.6 feet) to infinity ; bright trimming frame with parallax correction marks.
Exposure Control : Fully automatic exposure setting through preselection of exposure symbol (lens aperture) ; IC brain controls the electronic shutter according to the light intensity measured by the CdS sensor located directly over the lens ; arrows in the finder warn against over-exposure and signal slow shutter speed ; ASA range from 25 to 500 (DIN 15—28) ; power source—6 V silver oxide battery (Eveready No. 544, Mallory PX-28N or equivalent).
Other Features : Single-stroke film advance lever, automatic resetting exposure counter, battery check lamp incorporated in exposure counter window, fold-away crank-handle for rapid film rewind, EZ-flash system.
Lens Shade : 54mm slip-on type
Filter : 52mm screw-in type
Dimensions : 120 x 74 x 59mm
Weight : 550 grams

TECHNISCHE DATEN

Objektiv : COLOR-YASHINON DX 35mm f/1.8 ; 6 Linsen/4 Glider ; kleinster Blendenwert f/16.
Verschluss : Elektronischer Verschluss mit einem unbegrenzten Geschwindigkeitsbereich von 1/250 Sek. bis zu 8 Sekunden (bei ganz geöffnetem Objektiv) ; eingebauter Selbstauslöser und X-Synchronisations-Anschluss ; Auslöseknopf-Verriegelung ; Verschlussgeschwindigkeit stellt sich bei Anschluss des Blitzkabels in den Synchro-Kontakt automatisch auf 1/30 Sek. ein.
Scharfeinstellung : Gekuppelter Entfernungsmesser von 0,8 Meter bis undendlich, mit hellem Einstellfeld und Merkmale für Parallaxen-Ausgleich.
Belichtungskontrolle : Vollantomatische Belichtungskontrolle durch Vorwahl von Belichtungssymbolen (Blendeneinstellung) ; der Elektronenverschluss wird durch das IC-Gehirn je nach der vom CdS Belichtungsmesser aufgenommenen Lichtstärke kontrolliert ; bei zu langsamer Verschlussgeschwindigkeit werden Sie durch die Pfeile im Sucher gegen Überbelichtung gewarnt ; ASA Skala von 25 bis 500 (DIN 15—28) ; Energieversorgung durch 6 V Silberoxyd-Batterie (Eveready No. 544, Mallory PX-28N oder gleichwertig).
Sonstiges : Schnellaufzughebel, Bildzählwerk mit automat. Rückstellung auf Null, im Bildzählwerkfenster eingebaute Batterieprüflampe, einklappbare Rückspulkurbel für schnelles Filmrückspulen, EZ-Blitzsystem.
Gegenlichtblende : 54mm Aufsteck-Typ.
Filter : 52mm Einschraub-Typ.

CARE OF YOUR CAMERA

- To clean the lens, first blow away dust and grit, then go over the surface with a lens brush or a soft, clean lintless cloth.
- Avoid storing the camera with the shutter charged.
- Do not leave your camera in the glove compartment or trunk of your car, or in direct sunlight.
- When your camera is not in use for a long period of time, remove the battery and store it in a cool, dry place.
- Do not dismantle the camera or lens for cleaning.

SOINS A APPORTER A VOTRE APPAREIL

- Pour nettoyer l'objectif, en premier souffler la poussière et les impuretés, puis effleurer la surface avec une brosse à objectifs ou avec un chiffon propre et doux ne filant pas.
- Eviter de ranger l'appareil avec l'obturateur armé.
- Ne pas abandonner l'appareil dans la boîte à gants ou le coffre d'une voiture, ou directement au soleil.
- Si l'on ne se sert pas de l'appareil pour une longue période, retirer la pile et la ranger dans un endroit frais et sec.
- Ne jamais démonter l'appareil lors d'un nettoyage.

PFLEGE IHRER KAMERA

- Zum Reinigen des Objektivs blase man vorerst den angesammelten Staub weg, und reinige alsdann die Oberfläche des Objektivs mit einem Objektiv-Pinsel oder mit einem weichen nicht fusselnden Tuch.
- Vermeiden Sie die Kamera mit gespanntem Verschluss aufzubewahren.
- Die Kamera nicht im Handschuhfach oder im Kofferraum Ihres Wagens aufbewahren, oder direkten Sonnenstrahlen aussetzen.
- Wenn Ihre Kamera für eine längere Zeitespanne nicht verwendet wird, so ist die Batterie auszubauen und an einem trockenen und kühlen Platz aufzubewahren.
- Für die Reinigung darf die Kamera oder das Objektiv keinesfalls zerlegt werden.

ATENCIONES

- Para limpiar el lente del objetivo, sople ligeramente el polvo y partículas adheridas, luego límpiela con un cepilla de lentes o un paño que no sea de lino.
- No deje almacenda la cámara con el disparador cargado.
- No deje la cámara en el compartimiento o caja de los guantes del coche, ni expuesta a los rayos del sol.
- Si no usa la camara durante largo tiempo, retire la pila y guárdela en un lugar seco y frío.
- No desmonte la cámara ni el objetivo para su limpieza.

DEPTH-OF-FIELD TABLE
TABLE DE PROFONDEUR DE CHAMP

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TIEFENSCHÄRFENTABELLE
PROFUNDIDAD DEL CAMPO

feet		1.8	2.8	4	5.6	8	11	16
∞	from	71′ 07″	45′ 08″	32′ 04″	22′ 11″	16′ 03″	11′ 07″	8′ 03″
	to	∞	∞	∞	∞	∞	∞	∞
20	from	15′ 08″	14′ 00″	12′ 06″	10′ 10″	9′ 01″	7′ 05″	5′ 11″
	to	27′ 07″	35′ 03″	51′ 08″	153′ 03″	∞	∞	∞
10	from	8′ 10″	8′ 03″	7′ 09″	7′ 01″	6′ 04″	5′ 06″	4′ 08″
	to	11′ 07″	12′ 08″	14′ 03″	17′ 05″	25′ 03″	70′ 06″	∞
7	from	6′ 05″	6′ 01″	5′ 10″	5′ 05″	5′ 00″	4′ 06″	3′ 11″
	to	7′ 09″	8′ 02″	8′ 10″	9′ 11″	11′ 11″	17′ 00″	43′ 09″
5	from	4′ 08″	4′ 07″	4′ 05″	4′ 02″	3′ 11″	3′ 07″	3′ 03″
	to	5′ 04″	5′ 07″	5′ 10″	6′ 03″	7′ 00″	8′ 06″	12′ 00″
4	from	3′ 10″	3′ 09″	3′ 07″	3′ 06″	3′ 03″	3′ 01″	2′ 09″
	to	4′ 03″	4′ 04″	4′ 06″	4′ 09″	5′ 02″	5′ 11″	7′ 04″
3	from	2′ 11″	2′ 10″	2′ 09″	2′ 08″	2′ 07″	2′ 05″	2′ 03″
	to	3′ 01″	3′ 02″	3′ 03″	3′ 05″	3′ 07″	3′ 11″	4′ 06″
2.6	from	2′ 06″	2′ 06″	2′ 05″	2′ 04″	2′ 04″	2′ 02″	2′ 01″
	to	2′ 08″	2′ 09″	2′ 09″	2′ 11″	3′ 00″	3′ 03″	3′ 07″