

CONTAX



Instruction manual • Bedienungsanleitung
Mode d'emploi • Manual de instrucciones

AX

Thank you for your purchase of the Contax AX. This camera incorporates an automatic back focusing (ABF) system which enables auto focusing with conventional Carl Zeiss lenses for Contax SLR cameras. This autofocus SLR is also a combined auto/manual focusing camera. So you can focus the lens manually by using the distance ring of the lens. In addition, it offers many other advanced features as follows. Before using the camera, please read this instruction manual carefully through to use it correctly.

- ① This is a multi-mode SLR camera which provides various exposure control functions such as aperture-priority auto exposure, shutter-speed-priority auto exposure, and programmed auto exposure.
- ② When taking pictures on manual focusing or taking macro pictures, you can check the sharpness of your picture on the focus display.
- ③ With the "custom functions", it allows you to set the camera's operating conditions suited to your own use.
- ④ In combination with our CONTAX TLA flash with automatic flash setting feature, the film speed and aperture value which you have set on the camera will also be set automatically to the flash unit.
- ⑤ Equipped with a Contax Data Back D-8 (optional accessory), the camera can record exposure data collectively on the first two frames (or on one frame) of the film or dates and exposure data between the frames. Interval shooting is also possible.

This manual uses a multi-mode Planar T 50mm F1.4 (MM) lens equipped on the camera for explaining its operating procedures. However, you can also use it in the same way as described in this manual when it is equipped with other Multiple-mode Carl Zeiss interchangeable lenses.*

Wir danken Ihnen daß Sie sich für die Contax AX. Diese Spiegelreflexkamera ist mit einem Filmebenen-Autofokus (Automatic Back Focusing = ABF) ausgestattet. Dieses neuartige Autofokus-System erlaubt die automatische Fokussierung mit den normalen, vorhandenen Carl Zeiss-Objektiven für Contax SLRs. Die Contax AX eignet sich für automatische wie manuelle Fokussierung gleichermaßen. Sie können die Entfernung weiterhin auch mit dem Fokussiering des Objektivs einstellen. Darüber hinaus bietet die Contax AX modernste Kameratechnik in allen Bereichen. Bitte lesen Sie vor dem Gebrauch der Kamera diese Bedienungsanleitung sorgfältig durch, um die vielen Möglichkeiten optimal zu nutzen.

- ① Die Mehrfach-Belichtungsautomatik dieser Spiegelreflexkamera bietet Ihnen universelle Möglichkeiten zur Belichtungssteuerung wie Programm-, Blenden- und Zeitautomatik.
- ② Beim manuellen Fokussieren unterstützt eine elektronische Fokussieranzeige im Sucher das präzise Scharfstellen.
- ③ Die "Individual-Funktionen" erlauben Ihnen die Voreinstellung einiger Kamerafunktionen nach eigenen Wünschen.
- ④ Mit CONTAX TLA-Systemblitzgeräten erfolgt neben der automatischen Synchronisation auch die Übertragung der Filmempfindlichkeit und der vorgewählten Blende von der Kamera zum Blitzgerät.
- ⑤ Mit dem als Zubehör erhältlichen Contax Data Back D-8 können Sie wahlweise alle Belichtungsdaten gemeinsam auf die ersten zwei (oder nur das erste) Negativ/Dia oder Datum und Belichtungsdaten zwischen die Aufnahmen auf den Filmstrich einbelichten. Eine Intervall-Aufnahmefunktion ist ebenfalls vorgesehen.

Bitte lesen Sie vor dem Gebrauch der Kamera diese Bedienungsanleitung sorgfältig durch, um ihre vielen Möglichkeiten optimal zu nutzen. Die Erklärungen in dieser Anleitung erfolgen am Beispiel einer Kamera mit T Planar 1,4/50mm MM-Objektiv. Mit anderen Carl-Zeiss-MM-Objektiven erfolgt die Bedienung auf die gleiche Weise.*

Names of Parts	12		
Basic Steps	16		
● Basic Operations Before Shooting			
Mounting and Dismounting the Lens	22		
Loading the Battery	24		
<Battery Check>			
<Battery Replacement>			
Main Switch	30		
Display in the Viewfinder and Display Panel	32		
Diopter Adjustment	42		
Loading the Film	44		
Setting and Checking the Film Speed	50		
Exposure Mode Selector Lever/			
Exposure Check Button	58		
Drive Mode Selector Dial	60		
Focusing Mode Selector Lever	62		
Shutter Speed Dial/F-Dial/F-Button	64		
<Shutter Speed Dial>			
<Focusing Button Function Dial			
(F-Dial)/Focusing Button (F-Button)>			
Holding the Camera	66		
Rewinding the Film	68		
		● Focusing the Lens	
		Focusing on Autofocus (AF)	72
		Principle of the Automatic Back Focusing System	
		(ABF) and AF Functions	
		<1.Principle of the ABF System and Back Focusing	
		Scale>	72
		<2.Shooting Ranges with the ABF System>	74
		<3.Relation of the Focusing Button Function Dial	
		(F-Dial) and Focusing Modes>	82
		<4.Relation of the Drive Modes (S and CL/CH) and	
		Focusing Modes (SAF and CAF)>	86
		<5.Others>	88
		● Cautions on autofocus	
		● AF supplementary light	
		● Subjects which are not suited for auto focusing	
		Autofocus Setting Depending on the Shooting	
		Subject	92
		<1.Ordinary Autofocus Shooting>	92
		Convenient use of "CAF"	100
		Focus lock (with the F-Dial set to "AFL")	102
		<2.If you want to operate the autofocus and	
		shutter with different buttons>	108
		<3.When the autofocus is used as one-shot AF	
		while operating mainly on manual focus>	110
		Focusing on Manual Focus	112
		Focusing in the Macro Mode	114

● Camera Functions and Applied Techniques

Selecting the Exposure Mode	116
Aperture-priority Auto Exposure [Av]	120
Shutter-speed-priority Auto Exposure [Tv]	122
Programmed Auto Exposure [P]	126
Manual Exposure [M]	132
Bulb Exposure [B]	134
Metering System	136
Exposure Compensation	142
<1. Using the Exposure Compensation Dial>	142
<2. Using the AE Lock>	148
<3. Using the A.B.C. Mode (Automatic Exposure Compensation for 3 Consecutive Frames)> ..	152
Flash Photography	160
<Taking Pictures on TTL Direct Light Metering> ...	160
<Slow-shutter Synchronization using a TLA Flash Unit>	168
<Daylight Flash>	170
<Using the Exposure Compensation Dial>	170
<Second Curtain Synchronization>	172
<Taking pictures with X-contact Flash Units Other than TTL Flash Unit>	174
Multiple Exposure	176
Using the Self-timer	182
Custom Functions	186
<List of Custom Functions>	186
<Setting the Custom Functions>	194

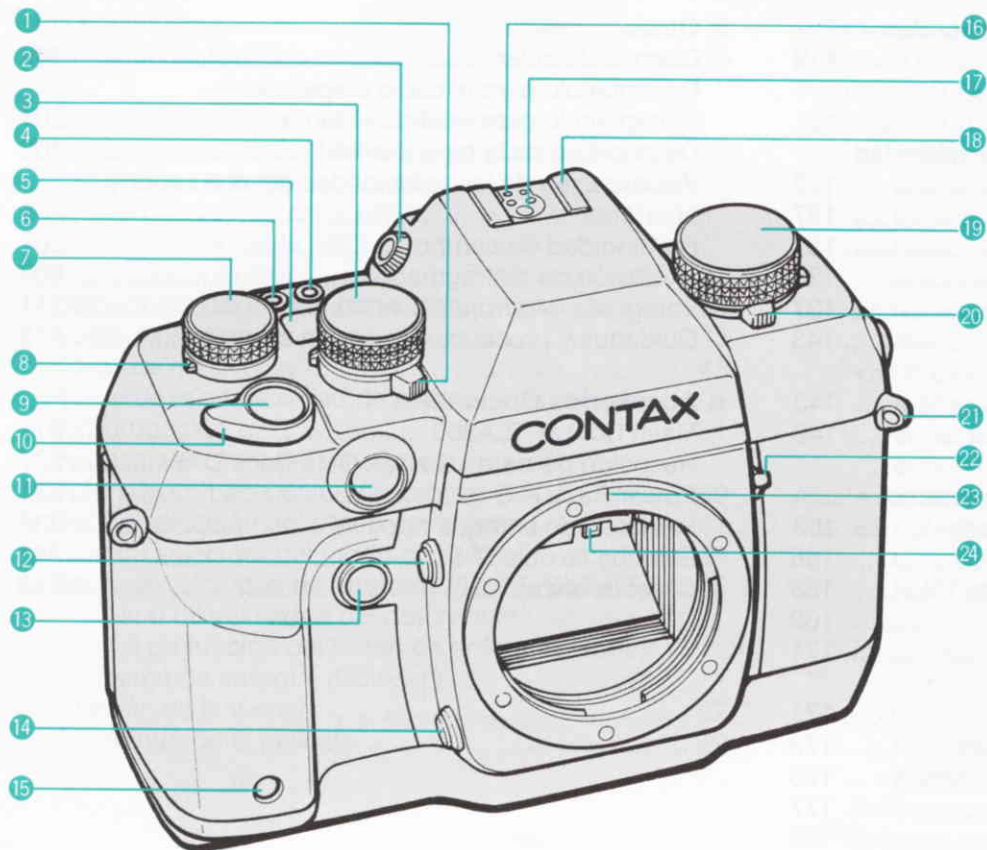
● Others

Eyepiece Shutter	198
Release Socket/External Power Socket	200
Detaching the Camera Back	202
Shutter Speed and Aperture Indicators	204
Depth of Field	206
<Aperture Stop-down Button>	208
Infrared Photography	210
Camera Care and Precautions	212

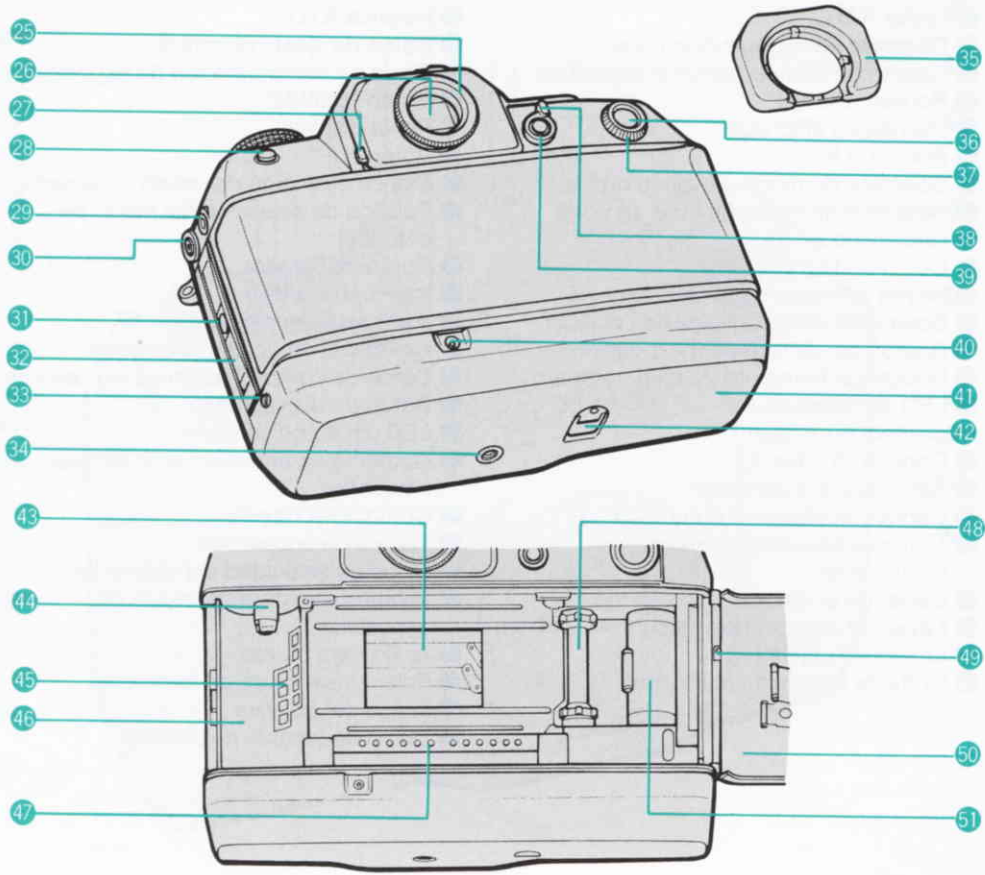
● Dedicated Accessories (Optional)

Contax TLA360 Flash	216
Contax Data Back D-8	224
Power Pack P-8	228
Focusing Screens, FW type	232
Flex Case C-5	240
Specifications	242

Names of Parts



- 1 A.B.C. Lever
- 2 Diopter Adjuster
- 3 Exposure Compensation Dial
- 4 "DOWN" Button
- 5 Display Panel
- 6 "UP" Button
- 7 Drive Mode Selector Dial
- 8 Focusing Mode Selector Lever
- 9 Shutter Release
- 10 Main Switch
- 11 AF Supplementary Light
- 12 Lens Release Button
- 13 Exposure Check Button
- 14 Aperture Stop-down Button
- 15 Self-timer LED
- 16 Dedicated-flash Contact
- 17 Direct X-contact
- 18 Accessory Shoe
- 19 Shutter Speed Dial
- 20 Exposure Mode Selector Lever
- 21 Strap Lug
- 22 Metering Mode Selector Lever
- 23 Lens Index
- 24 Screen Release Claw

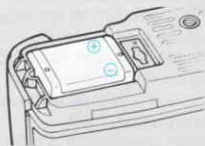


- 25 Eyepiece Ring
- 26 Viewfinder Eyepiece
- 27 Eyepiece Shutter Lever
- 28 Exposure Mode Lock Release Button
- 29 Release Socket
- 30 Sync Terminal
- 31 Camera Back Lock Release Button
- 32 Camera Back Opening Lever
- 33 Battery Compartment Cover Guide Pin
- 34 Tripod Socket
- 35 Eyecup
- 36 Focusing Button (F-Button)
- 37 Focusing Button Function Dial (F-Dial)
- 38 Rewind Lever
- 39 Rewind Lock Release Button
- 40 External Power Socket
- 41 Battery Compartment Cover
- 42 Battery Compartment Cover Locking Knob
- 43 Shutter Curtain
- 44 Film Mounting Spindle
- 45 DX Contact
- 46 Film Chamber
- 47 Data-back Contact
- 48 Sprocket
- 49 Camera Back Release Pin
- 50 Camera Back
- 51 Spool

Basic Steps *(Taking pictures on auto focusing and auto exposure)*

Kurzanleitung *(Fotografieren mit Autofokus und Belichtungsautomatik)*

1



Load the battery
(see page 24).

Legen Sie die Batterie ein
(siehe S. 25).

Chargez la pile (voir page 25).

Introduzca la pila
(consultar la página 25).

2



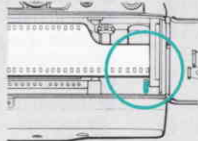
Turn on the main switch
(see page 30).

Stellen Sie den Hauptschalter auf "ON"
(siehe S. 31).

Activez le commutateur principal (voir page 31).

Ponga el interruptor principal en "ON"
(consultar la página 31).

3



Load DX film and pull out its tip as far as the orange "I" mark and place it on the spool.

Legen Sie den DX-Film ein und ziehen Sie die Lasche bis zur orange-farbenen Markierung "I" über die Aufwickelspule.

Chargez le film DX et sortez son amorce jusqu'à la marque orange "I" et sur la bobine.

Introduzca una película DX, extraiga su punta delantera hasta la marca "I" anaranjada, y póngala sobre el carrete.

4



Set the film speed to "DX"
(see page 50).

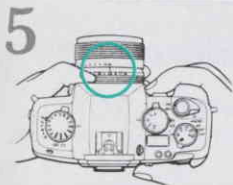
Stellen Sie die Filmempfindlichkeit auf "DX" (siehe S. 51).

Réglez la sensibilité du film à la position "DX" (voir page 51).

Ajuste la sensibilidad de película a "DX" (consultar la página 51).

Opérations de base (prise de vues avec la mise au point et l'exposition automatiques)

Procedimiento básico (Fotografías con enfoque y exposición automáticos)

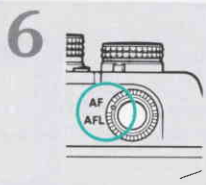


5
Mount the lens and set its distance ring to "∞" (see page 92).

Setzen Sie das Objektiv ein und stellen Sie den Entfernungsring auf "∞" (siehe S. 93).

Mettez l'objectif en place et réglez la bague de distance sur "∞" (voir page 93).

Montar el objetivo y ajustar el anillo de distancias en "∞" (consultar la página 93).

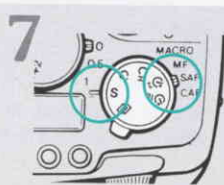


6
Set the Focusing Button Function Dial (F-dial) to "AFL" (see page 92).

Stellen Sie den F-Ring auf "AFL" (siehe S. 93).

Positionnez le sélecteur de fonction du bouton de mise au point (sélecteur F) sur "AFL" (voir page 93).

Ajustar el dial de función del botón de enfoque (Dial-F) en "AFL" (consultar la página 93).



7
Set the focusing mode selector lever to "SAF" and the drive mode to "S" (see pages 60, 94).

Stellen Sie den Fokussierfunktionsschalter auf "SAF" und den Filmtransportring auf "S" (siehe S. 61, 95).

Réglez le sélecteur de mode de mise au point sur "SAF" et le mode d'avance du film sur "S" (voir pages 61, 95).

Ajustar la palanca de selección del modo de enfoque en "SAF" y el modo de arrastre en "S" (consultar las páginas 61, 95).

Aperture-priority auto exposure
Zeitautomatik mit Blendenvorwahl
Exposition automatique à priorité au diaphragme
Exposición automática con prioridad de abertura

Av

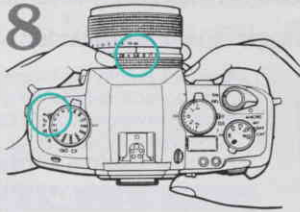
Shutter-speed-priority auto exposure
(with MM type lenses only)
Blendenautomatik mit Zeitvorwahl
(nur mit MM-Objektiven)
Exposition automatique à priorité à la vitesse
(avec les objectifs de type MM seulement)
Exposición automática con prioridad de velocidad del obturador
(sólo con el objetivo tipo MM)

Tv

Programmed Auto Exposure
(with MM type lenses only)
Programmautomatik
(nur mit MM-Objektiven)
Exposition automatique programmée
(avec les objectifs de type MM seulement)
Exposición automática programada
(sólo con el objetivo tipo MM)

P

8



Set the exposure mode selector lever to “Av” and then set the aperture (see page 120).

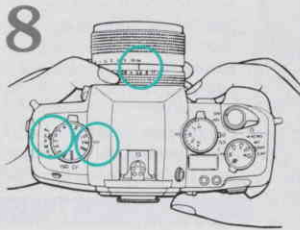
Stellen Sie den Belichtungsartenhebel auf “Av” und wählen Sie dann eine Blende (siehe S. 121)

Réglez le sélecteur du mode d'exposition sur “Av” puis déterminez le diaphragme (voir page 121).

Ajustar la palanca de selección del modo de exposición en “Av”, y establecer a continuación la abertura (consultar la página 121).

Av

8



Set the exposure mode selector lever to “Tv” and then set the lens to the minimum aperture (green) and set the shutter speed dial (see page 122).

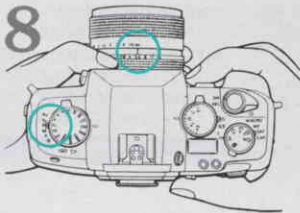
Stellen Sie den Belichtungsartenhebel auf “Tv”, stellen Sie die Blende auf den kleinsten Wert (grün), und wählen Sie dann eine Verschlusszeit (siehe S. 123)

Réglez le sélecteur du mode d'exposition sur “Tv” puis affichez le diaphragme minimum (vert) (voir page 123).

Ajustar la palanca de selección del modo de exposición en “Tv”, y fijar el objetivo a su abertura mínima (verde) (consultar la página 123).

Tv

8



Set the exposure mode selector lever to “P” and then set the lens to the minimum aperture (green) (see page 126).

Stellen Sie den Belichtungsartenhebel auf “P” und dann die Blende auf den kleinsten Wert (grün). (siehe S. 127)

Réglez le sélecteur du mode d'exposition sur “P” puis affichez le diaphragme minimum (vert) (voir page 127).

Ajustar la palanca de selección del modo de exposición “P”, y ajuste la abertura del objetivo a la mínima (verde) (consultar la página 127).

P

9



Aim the horizontal split-image spot in the viewfinder at the subject, and then depress the shutter release halfway (see page 94).

Zielen Sie mit dem Horizontaler Schnittbildindikator in der Suchermitte auf das Objekt, auf das die Schärfe gelegt werden soll, und drücken Sie den Auslöser leicht herunter. (siehe S. 95)

Cadrez le sujet dans la zone du stigmomètre horizontal et enfoncez le déclencheur à moitié (voir page 95).

Dirigir la punto de imagen dividida horizontal del visor hacia el sujeto y pulsar el disparador hasta mitad de recorrido (consultar la página 95).

10

Make sure the correct focus mark turns on and take your picture by depressing the shutter release all the way.

Achten Sie darauf, daß das Symbol "●" für korrekte Fokussierung erscheint, dann können Sie auslösen.

Contrôlez que le bon symbole de mise au point apparaisse et prenez votre photo en enfonçant complètement le déclencheur.

Compruebe que el indicador de enfoque correcto se enciende y haga la fotografía pulsando el disparador hasta el final.

Attach the Strap

(standard accessory)

Attach the strap as shown in the illustration.



Anbringen des Tragriemens

(Standardzubehör)

Bringen Sie den Tragriemen wie in der Abbildung gezeigt an.



Fixation de la courroie

(accessoire standard)

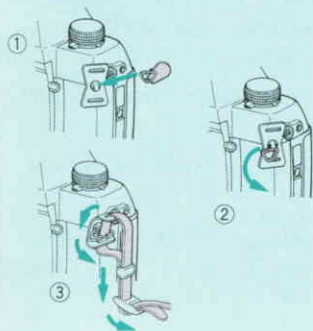
Fixez la courroie comme indiqué dans l'illustration.



Unión de la correa

(accesorio estándar)

Una la correa como se muestra en la ilustración.



Attaching the Eyecup F-4

(standard accessory)

- ① Remove the eyepiece ring by turning it as shown.
- ② Attach the Eyecup to the eyepiece and fix the eyepiece ring again in place by screwing it in.



Anbringen der Augenmuschel F-4

(Standardzubehör)

- ① Drehen Sie den Okularring wie gezeigt, um ihn zu entfernen.
- ② Bringen Sie die Augenmuschel am Okular an und schrauben Sie den Okularring wieder ein.



Fixation de l'ocilleton F-4

(accessoire standard)

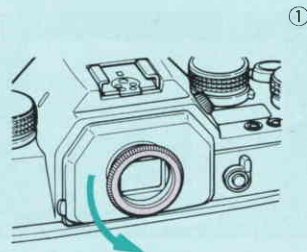
- ① Retirez la bague de l'ocilleton en la tournant comme indiqué.
- ② Fixez l'oculaire sur l'ocilleton et fixez la bague de l'ocilleton de nouveau en place en la vissant.



Unión del marco del ocular F-4

(accesorio estándar)

- ① Extraiga el anillo del ocular girándolo como se muestra.
- ② Una el marco del ocular en el ocular y fije el anillo del ocular en su lugar enroscándolo.

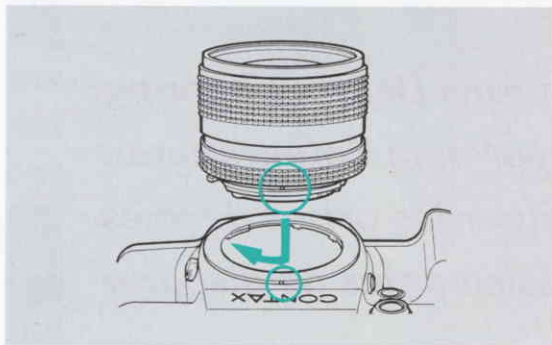


Basic Operations Before Shooting

Vorbereitungen vor dem Fotografieren

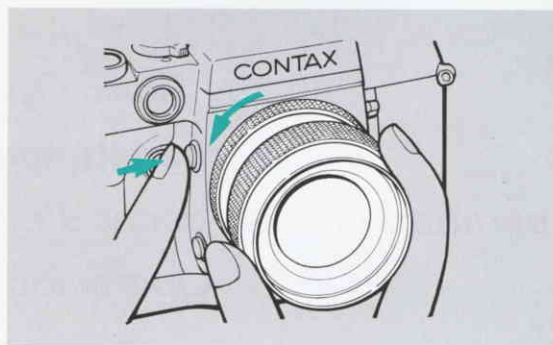
Opération de base avant d'effectuer les prises de vues

Operación básica antes de disparar



<Mounting the Lens>

First, remove the camera's body cap and the lens' rear cap by turning them counterclockwise. Then, align the red dot on the lens with the lens index on the camera, fit it in and turn it clockwise until it locks with a click.



<Dismounting the Lens>

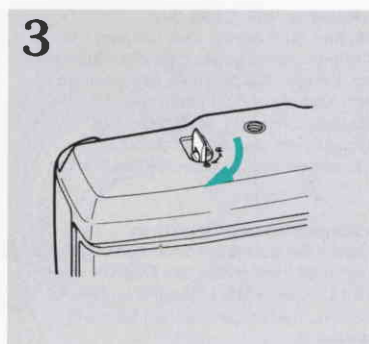
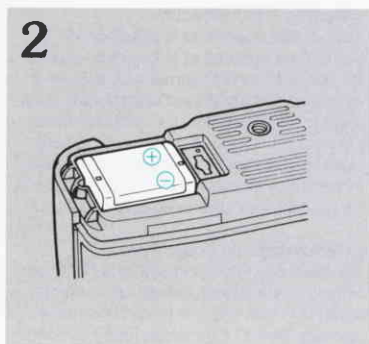
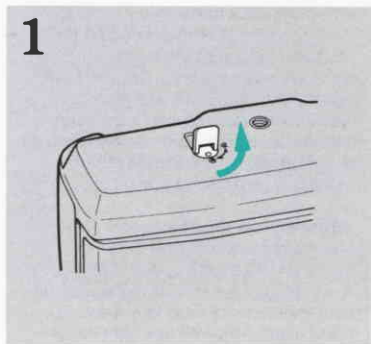
While pressing the lens release button, turn the lens counterclockwise as far as it will go and pull it out toward you. After dismounting the lens from the camera, protect the lens with the rear cap, and the camera with the body cap.

- Do not touch the lens surface and camera inside with your finger when attaching and detaching the lens.
- Avoid direct sunlight when changing the lens with film loaded in the camera.

<An
Dreh
Objek
ab. f
von
Über
Objek
Uhrz
einra

<Ab
Halte
gedr
den
hera
wied

- A
da
In
● V
m
S

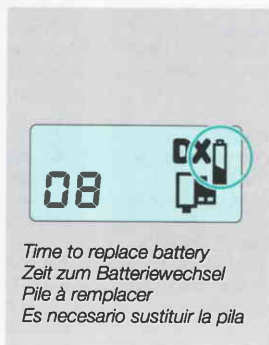
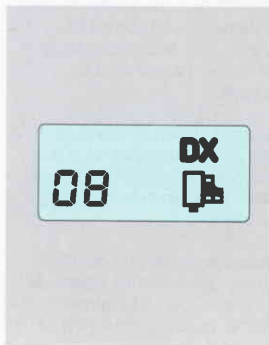


All of the major functions of this camera including the shutter, film winding and rewinding are battery-operated. The camera does not operate without battery.

1 Erect the battery compartment cover locking knob on the bottom of the camera, set the mark “●” to the mark “☉” and remove the battery compartment cover.


2 Insert the 6V lithium battery (2CR5) with the plus “+” and minus “-” ends correctly, as illustrated inside the battery compartment.

3 Fit the camera's battery compartment cover guide pin to the battery compartment cover fixing hole and set the cover again. Then, fix the mark “●” on the locking knob in the mark “☉” and close the cover









*Time to replace battery
Zeit zum Batteriewechsel
Pile à remplacer
Es necesario sustituir la pila*

<Battery Check>

After the battery is loaded, operate the camera first, the battery voltage is normal if the mark “” (battery warning mark) does not appear in the display panel.

<Battery Replacement>

When the mark “” turns on in the display panel, it is recommended to replace the battery. Set the main switch to “OFF”, open the battery compartment cover and replace the battery with a new one.

- Though you can take pictures even after the mark “” has turned on, it is recommended to replace the battery as soon as possible. If the battery capacity has dropped below the effective limit, the mark “” in the display panel will blink or go out and the camera will no longer operate.
- Some batteries may tend to decrease their voltage temporarily and the mark “” may turn on when they are loaded in the camera. If the mark “” appears soon after the new battery is loaded, turn off the main switch and then turn it on again. If the mark “” goes out, you can use this battery.

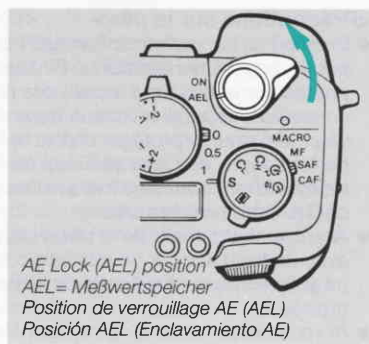
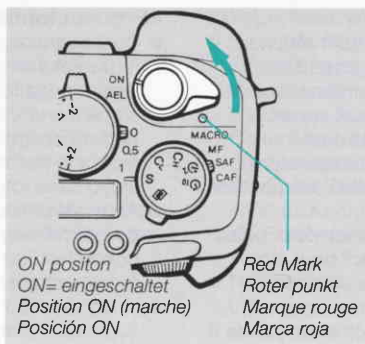
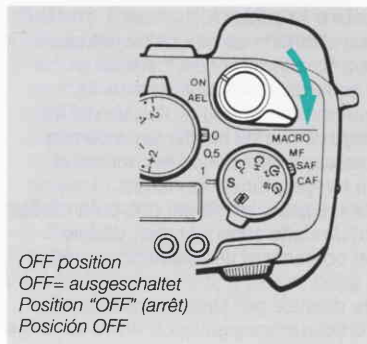
<Battery Precautions>

- Generally, battery performance is reduced by cold temperatures. When shooting in cold weather, it is advisable to keep the camera warm in a bag or an outfit for protection against cold. The battery performance reduced by low temperatures will return to normal when taking pictures at an ordinary temperature.
- Before loading the battery, wipe both poles clean with a dry cloth because poor contact may result if they are soiled with sweat or grease.
- If you are going on a long trip, bring a new spare battery with you.
- Do not throw used battery into fire or try to charge or disassemble them because it is dangerous.
- The 6V lithium battery (2CR5) cannot be charged by any means.
- Battery should be kept away from children.

<Batteriehinweise>

- Wenn die Batterie längere Zeit niedrigen Temperaturen (unter 0°) ausgesetzt wird, läßt ihre Leistung nach. Bei Kälte bewahren Sie die Kamera am besten unter der Kleidung auf, solange Sie nicht fotografieren. Die Batterieleistung normalisiert sich wieder nach Erwärmung auf normale Temperaturen.
- Wenn die Batteriepole verschmutzt oder oxidiert sind, kann es Kontaktschwierigkeiten geben. Wischen Sie die Pole vor dem Einlegen mit einem trockenen Tuch ab.
- Nehmen Sie eine Ersatzbatterie mit, wenn Sie länger unterwegs sein werden.
- Batterien sind gefährlich und können explodieren. Leere Batterien dürfen nicht ins Feuer geworfen geladen, kurzgeschlossen oder auseinandergenommen werden.
- Die 6-Volt-Lithium-Batterie ist nicht wieder aufladbar.
- Halten Sie die Batterie außer Reichweite von Kindern.

Main Switch



The main switch turns the camera on or off and selects or release the AE Lock.

- The main switch should be locked at a click position when shooting to prevent it from shifting by mistake.

OFF: Red mark not visible

When the red mark is not visible, the main switch is set at OFF, turning off the camera.

If you are not using the camera, turn off the main switch to prevent the shutter from tripping inadvertently.

"ON" mark

The camera is turned on.
Usually, set the main switch to ON.

"AEL" mark

The AE lock is useful for shooting in backlight or continuous shooting of a moving subject at a fixed exposure.

For details on AE lock, see page 148.

Display in the Viewfinder and Display Panel

The display in the viewfinder and display panel will turn on in the following cases, then turn off automatically after 16 seconds.

- ① When the main switch is turned on.
- ② With the main switch on,
 - When the exposure check button or the shutter release is depressed halfway, the display panel will turn on.
 - It also turns on when the aperture stop-down button or the rewind lever is operated.

If you switch a button, dial, etc. while the display is shown, the display will remain on for another 16 seconds.

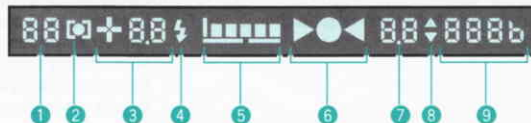
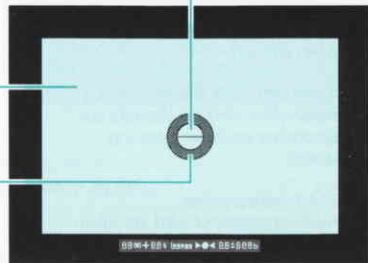
<Display in the Viewfinder>

Display in the Viewfinder is an information intensive finder which displays the exposure indicators such as aperture and shutter speed and, in addition, the focusing mark, back focusing scale, etc.

Horizontal Split-image spot
Horizontaler Schnittbildindikator
Zone à stigmomètre horizontal
Punto de imagen dividida horizontal

Matte Screen
Mattscheibefeld
Verre dépoli
Pantalla mate

Microprism Collar
Mikroprismenring
Boque de microprisme
Collar microprismático



(The illustration shows all information available in the viewfinder for reference. It does not show an actual example of display.)

① Exposure Counter

The exposure counter shows the number of frames in position for exposure.

Besides the counter function, it also provides the following functions:

- Display of the remaining time (10 sec.~00) while the self-timer is operating;
- Display of the operation order in the "A.B.C." mode (automatic exposure compensation for three consecutive frames).
- Display of the end of the film.

② Metering Mark

This mark indicates the metering mode and AE lock. Center-weighted metering mode: The " [] " mark is displayed.

Spot metering mode: The " [●] " mark is displayed.

Center-weighted metering and AE locked mode: The " [] " mark blinks.

Spot metering and AE locked mode:

The "●" mark blinks.

③ Exposure Compensation Mark

When the exposure compensation dial is set anywhere other than "0", the "compensating value" will blink.

④ Flash Mark

When using the TLA flash system for taking flash pictures, the flash mark "⚡" will turn on as soon as the flash is fully charged. If your subject is correctly exposed, it will blink two seconds after the flash has fired.

⑤ Back Focusing Scale

Back Focusing Scale shows the moving amount of the movable body (see page 72).

⑥ Focusing Mark

Focusing Mark shows the focusing state.

"●" (sharp focus): The subject is in sharp focus.

"▶" (rear focus): The focus is on the farther distance than the subject.

"◀" (front focus): The focus is on the shorter distance than the subject.

"▶ ◀" (focusing impossible)

⑦ Aperture Value

In the aperture-priority auto exposure (Av) and manual exposure (M) modes, the aperture you have selected is displayed in the viewfinder. In the shutter speed-priority (Tv) and programmed auto exposure (P) modes, the displayed aperture is the aperture selected by the camera in accordance with the shutter speed you have selected.

⑧ Exposure Mark

In the auto exposure mode ("Av", "Tv", or "P"), the over "▲" or under "▼" mark indicating deviation from the exposure control range will be displayed. In the "M" or "X" mode, the correct "◆" over "▲", or under "▼" mark will be displayed.

⑨ Shutter Speed

The camera displays the shutter speeds from 1/6000 sec. to 32 sec. "6000" means 1/6000 sec. and "200" means 1/200 sec., and "32" means 32 sec.

① E

D

A

E

●

●

●

●

●

●

●

② M

D

a

E

S

E

E

M

E

S

③ B

W

d

④ B

W

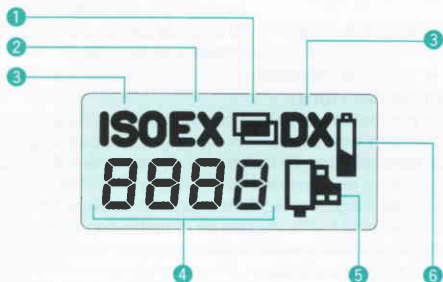
d

B

B

<Display Panel>

(The illustration shows all information available in the display panel for reference. It does not represent an actual example of display.)



1 Multiple Exposure Mark

Displays when the camera is in the multiple exposure mode.

2 EX Mark

When DX film is loaded in the camera, this mark will be displayed together with the number of exposures that can be taken with it.

3 ISO/DX Indicator

When the displaying the film speed or in the film speed setting mode, this indicator will be displayed.

- When auto set mode with DX code, always "DX" is displayed.

4 Exposure Counter/Film Speed

This mark shows the "number of exposures". When the "UP" button or "DOWN" button is pressed, it will switch to show the "film speed".

When DX film is loaded in the camera, it will show the "film speed" that the camera has read with the DX code as well as the "number of exposures".

In addition, it has the following functions:

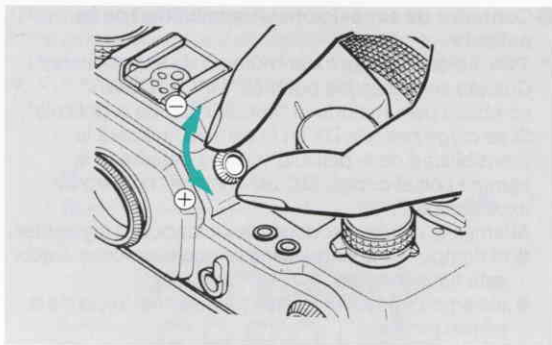
- Display of the remaining time while the self-timer is operating.
- Display of the time (sec.) that has elapsed on bulb exposure.
- Display of the operation order in the A. B. C. mode.
- Display of the multiple exposure settings.
- Display of set condition for custom functions.
- Display of the end of the film.

5 Film Mark

This mark is displayed when there is film in the camera.

6 Battery Warning Mark

Indicates the time to replace the battery.



This camera has a built-in diopter adjustment unit. To adjust the viewfinder eyepiece to your eyesight, turn the diopter adjuster until the circle in the center of the viewfinder appears sharp and clear. The adjustable range is from +0.5 to -2 diopters.

- If you cannot adjust the eyepiece to your eyesight within the camera's diopter adjusting range, acquire an optional FM type diopter lens.

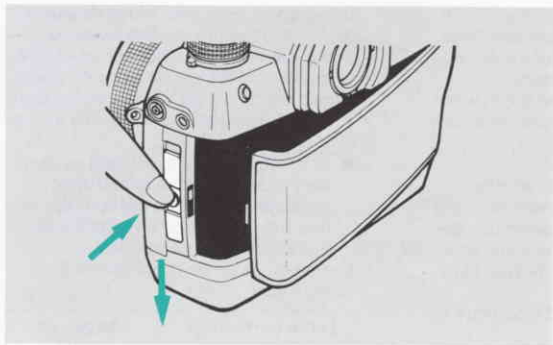
The range of diopter adjustment is given as follows:

Diopter lens	Adjusting range
None	+0.5D ~ -2.0D
FM (-3)	-4.0D ~ -1.5D
FM (+2)	+1.0D ~ +3.5D

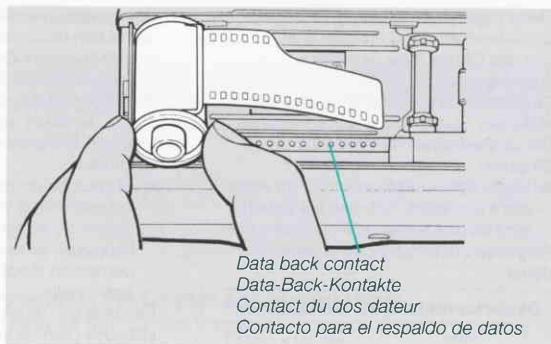
Mounting the Diopter Adjustment Lens:

Remove the camera's eyepiece ring on the camera and screw the diopter adjustment lens.

- Be sure to retain the eyepiece ring that has been removed.



- 1 While pushing the lock release button in the center, slide down the camera back opening lever and open the camera back.
 - When loading a film, never forget to remove the protect sheet inside the camera.

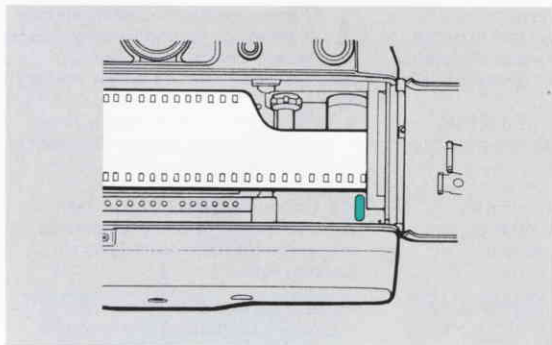


- 2 Insert the film cassette slantwise into the film chamber, with its protruding end downward as illustrated.

Note on the shutter curtain:

The shutter curtain is a precision part. Never touch it with your finger or strike it with the film tip. When the film tip lies on the shutter curtain, in particular, never trip the shutter.

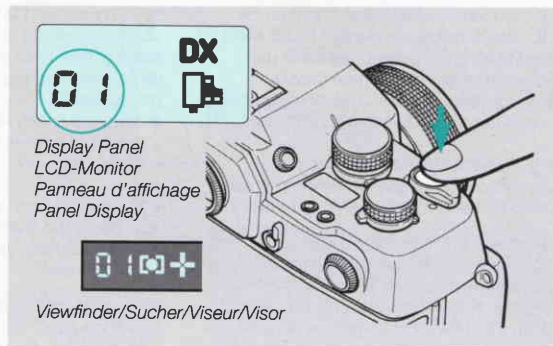
- Take care not to touch or contaminate the DX contacts and data back contact.
- Always load and unload a film in subdued light.



3 Pull out the film tip as far as the orange "i" mark and place it on the spool. Take care that the film does not float up (see illustration).



- If the length of film protruding from the cassette is too long, adjust it before loading the film.

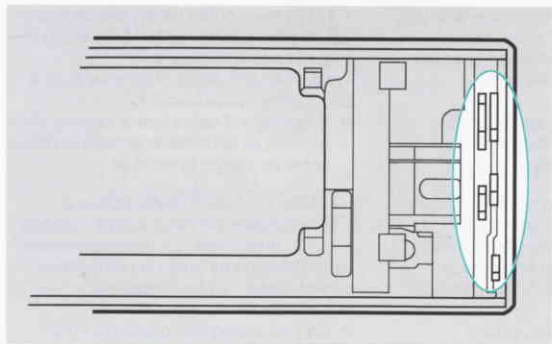


4 Close the camera back, turn on the main switch and depress the shutter release. The film will automatically advance into position for the first shot and the exposure counter will show "01."

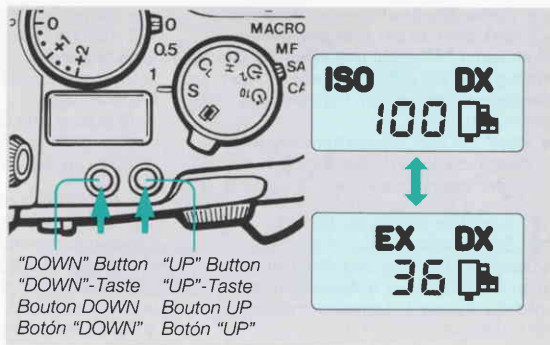
- When film is loaded in the camera, the film mark will be indicated in the display panel showing the film has been loaded.
- When the exposure counter in the display panel blinks and does not move from "00", the film is not advancing properly. Open the camera back and reload the film correctly again.
- The exposure counter will be indicated both in the display panel and in the viewfinder.

3
Mar
Anfa
Sie
(sieh
● W
d
s

4
drüc
dann
vorg
"01"
● B
Fi
A
● W
im
tra
Ö
le
● D
un



Because the parts on the camera back have been fabricated with precision, they are automatically set when the camera back is attached to the contacts on it. In particular, do not move the area marked with "O" in the illustration unless it is necessary to do, because the camera may cause malfunction or trouble.



<Checking of the number of exposures of the film loaded in the camera>

When using DX-coded film, the camera can read its DX code and allows you to check the number of exposures of the film loaded in it.

When pressing the "UP"-button or "DOWN"-button while the main switch is on, the "film speed" will be indicated in the display panel. When pressing either the "UP"-button or "DOWN"-button while the film speed is indicated, the display will show the "number of exposures". Each time you press it, the display will switch accordingly.

Da
hö
we
sol
Ko
ang
bes
ma
we
Feh
kör

<Kon
Aufn
Bei V
Kam
eing
Kont

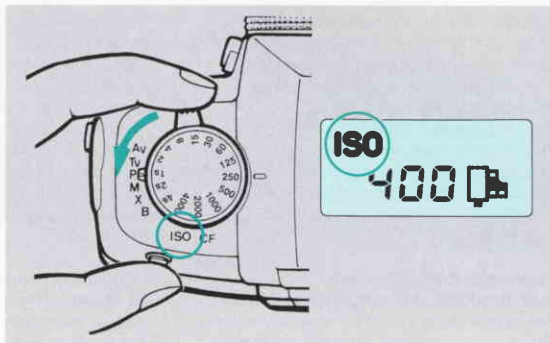
Wen
"UP"
der IS
Drüc
die "E
Displ
dem
zwise

Setting and Checking the Film Speed

The film speed can be set in two ways: automatic setting with DX codes and manual setting.

The film speed can be checked in the display panel.

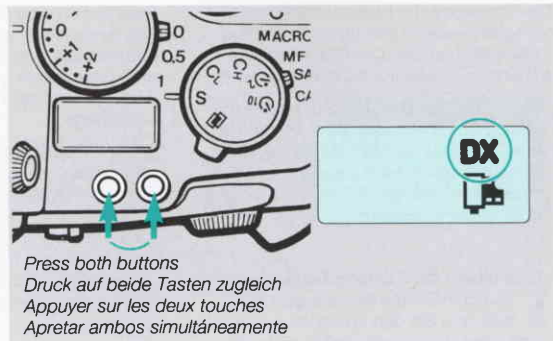
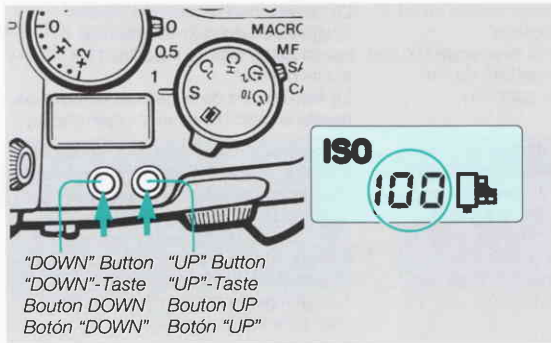
When "DX" is indicated in the display panel, the film speed is automatically set by the DX code. When using film with DX code, no adjustment is required. Without the "DX" mark in the display panel, be sure to set the film speed manually.



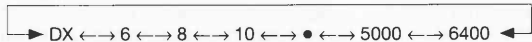
<Setting the film speed>

1 Turn the main switch on. While depressing the exposure mode lock release button, turn the exposure mode selector lever to set the exposure mode index to "ISO".

The "DX" or "ISO and film speed" will be indicated in the display panel.

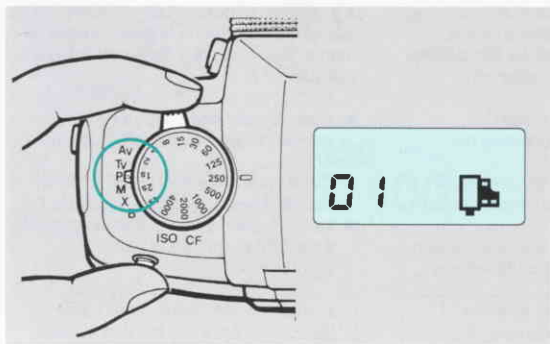


2 Press the "UP" button or "DOWN" button so that the letter "DX" or the desired film speed appears in the display panel.



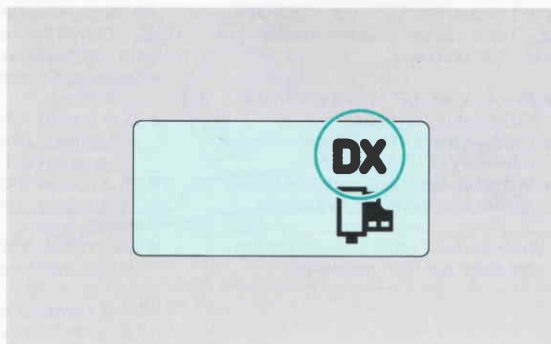
- When pressing the "UP" button, the film speed will increase by a 1/3 step each.
- When pressing the "DOWN" button, the film speed will decrease by a 1/3 step each.
- The numbers will change in succession if you hold on the button.

When pressing both the "UP" and "DOWN" buttons simultaneously, you can set the film speed to "DX".



3 Set the exposure mode selector lever to exposure mode. This completes the film speed setting. The display panel indicates the exposure counter.

- Once set, the film speed is kept in memory until it reset to another value.
- You cannot take pictures if the exposure mode selector lever is set to "ISO" or "CF".



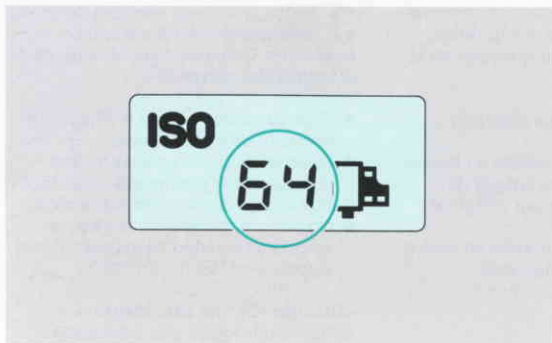
<When "DX" is Selected>

When "DX" is selected and using the film with DX code, the camera is set the film speed automatically.

The film with DX code is available in the range of ISO 25 to 5000.

The "DX" mark and the film speed are indicated on the outer case of the film cassette.

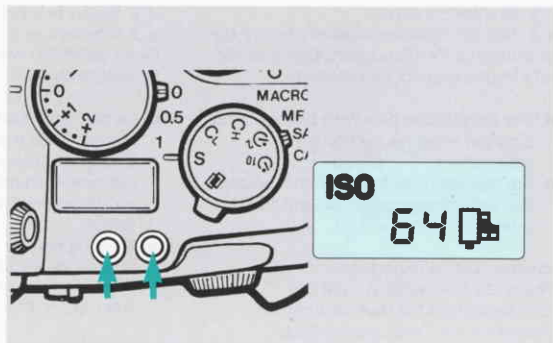
- When the film with non-DX code is loaded, the film speed is automatically set to ISO 100.



<Manual Setting of the Film Speed>

When using non-DX film, or when changing the film speed from that of the film you are using, set the film speed manually.

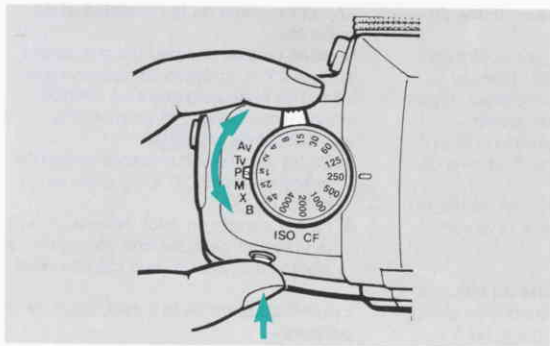
- You can set the film speed in 1/3-step increments in a range of ISO 6 ~ 6400.
- When the film speed is set, the film with DX code will be set to the manually set value.



<Checking the Film Speed>

When checking the film speed while taking pictures, press the "UP"-button or "DOWN"-button. The film speed of the film loaded in the camera or the film speed read by the camera with the DX code will be indicated in the display panel.

Exposure Mode Selector Lever/Exposure Check Button

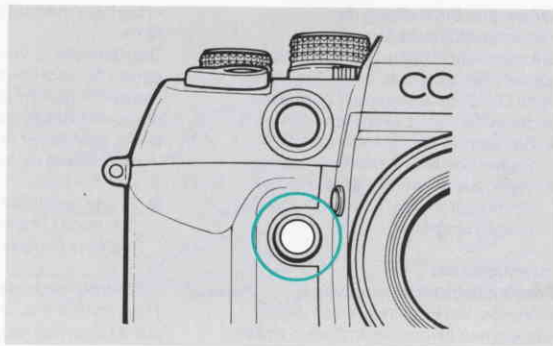


<Exposure Mode Selector Lever>

This lever is used to select the desired exposure mode. **While pressing the exposure mode lock release button, turn the exposure mode selector lever so that the exposure mode index is set to the desired position.**

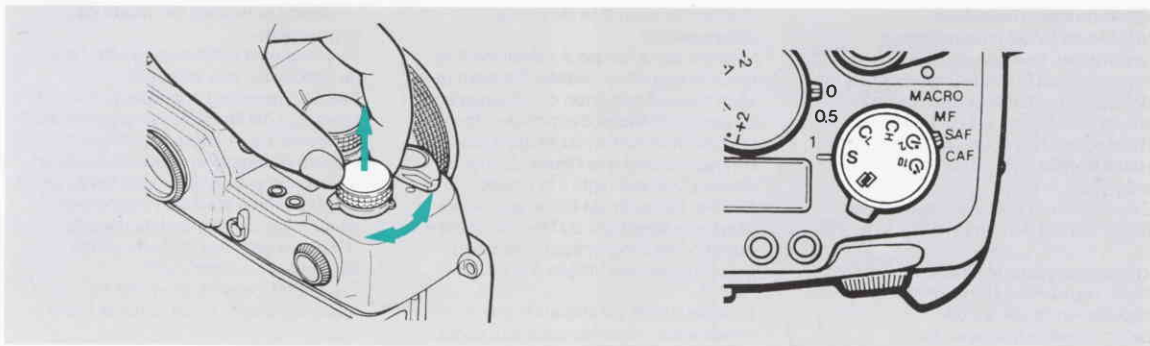
This lever is also used when setting the film speed to "ISO" or setting the custom function at "CF".

For details of each exposure mode, see pages from 116 to 134.




<Exposure Check Button>

When the main switch is turned on and pressing the exposure check button, the display in viewfinder will light up to facilitate checking the exposure and focusing. The checking is also available by depressing the shutter button halfway.



The following drive modes can be selected depending on the shooting subject.

While lifting up and turning the drive mode selector dial, adjust the mark to the index until it goes to the click position. (In case of “”, it remains lift-up.)

“S”.... Single-frame shooting



Each time the camera's shutter release is depressed, one frame is exposed and the film advanced for the next shot, then stops.

“CH” and “CL”.... Continuous shooting

While the camera's shutter release is held depressed, the camera continues to take picture at a maximum speed of

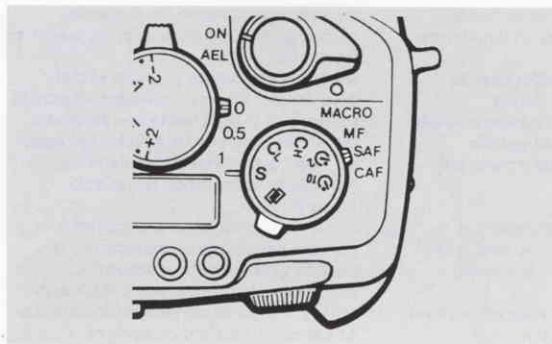
about 5 frames a second at “CH” and, at “CL”, at a maximum speed of about 3 frames a second. (The shooting speed differs with the shutter speed, film speed, dates printed between the frames or not, the condition of the battery loaded in the camera etc.)

“2” and “10” Self-timer shooting

At “2”, you can shoot with a delay of two seconds and at “10”, ten seconds. For details, refer to page 182.

“” Multiple exposure shooting

This mode is used to take pictures with multiple exposure. For details, refer to page 176.



The following focusing modes can be selected with it depending on the subject.

Move the focusing mode selector lever so that your desired mode comes opposite the index mark.

“SAF” Single autofocus shooting

When the focusing is set at “SAF”, the focusing is done by autofocus. Once the subject is focused, the focus will be locked in this position.

This is the focus priority mode.

“CAF” Continuous autofocus shooting

When the focusing mode is set at “CAF”, the camera will continue to focus itself on autofocus.

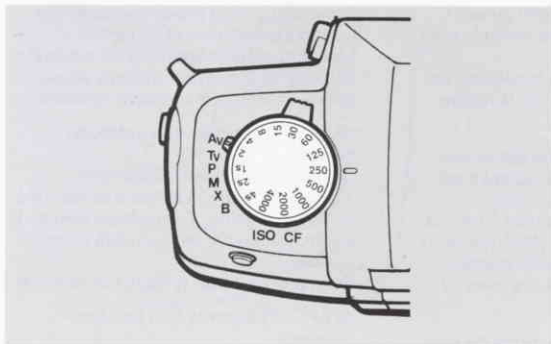
This is the shutter-tripping priority mode.

“MF” Manual focusing

When the focusing mode is set at “MF”, you can focus by manual focusing.

“MACRO” Macro photography

When the focusing mode is set at “MACRO”, you can take pictures at a distance nearer than the minimum focusing distance of the lens mounted on the camera. Focusing is done by manual focusing.

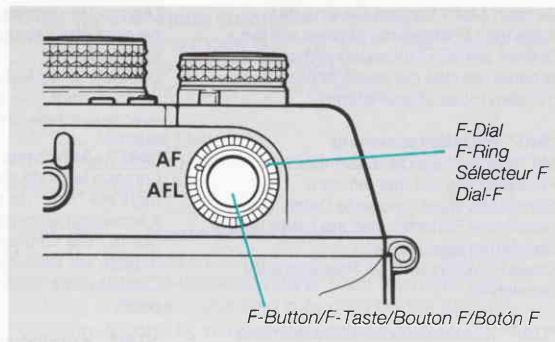


<Shutter Speed Dial>

The shutter speed dial is used for adjusting the exposure time of the film. It is usable in the shutter-speed-priority auto exposure (Tv) mode and manual exposure (M) mode.

Shutter speeds can be set in 1-step increments from 4S (4 sec.) to 4000 (1/4000 sec.).

- The shutter speed dial should be fixed at a click position when shooting.



<Focusing Button Function Dial (F-Dial)/ Focusing Button (F-Button)>

You can change the function of the F-Button by using the F-Dial. The focusing method in each focusing mode differs with the position of the F-Dial. For details, refer to page 82.

Holding the Camera

To take sharp pictures, the camera must be held steady. Blurred pictures are most often caused by camera shake.

The camera can be held not only in the horizontal position, but also in the vertical position depending on the subject. In any case, study your comfortable camera positioning and practice until you get used to it. It is also good to support your body or camera with a building, tree, and so on.

- If you are taking pictures in vertical position, take care not to cover the AF supplementary light with your hand.



① Tighten your side, and stabilize the camera.

② At the moment to take pictures stop to breathe.



③ Without making your strength too much to the hand, silently depress the shutter button.