

www.orphancameras.com

This manual is for reference and historical purposes, all rights reserved.

**This page is copyright© by M. Butkus, NJ.**

This page may not be sold or distributed without the expressed permission of the producer

I have no connection with any camera company

On-line camera manual library

This is the full text and images from the manual. This may take 3 full minutes for the PDF file to download.

**If you find this manual useful, how about a donation of \$3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you \$7.50 for a electronic copy or \$18.00 for a hard to read Xerox copy.**

**This will allow me to continue to buy new manuals and pay their shipping costs.**

**It'll make you feel better, won't it?**

**If you use Pay Pal or wish to use your credit card,  
click on the secure site on my main page.**

## Setting and Checking the Film Speed

**DX**  
**AF**

When DX automatic film speed setting is used

Bei automatischer Einstellung der Filmempfindlichkeit über DX-Code

Lorsque la sensibilité du film est réglée automatiquement au moyen du code DX.

Cuando se emplea el ajuste automático de sensibilidad de la película DX.

**AF**

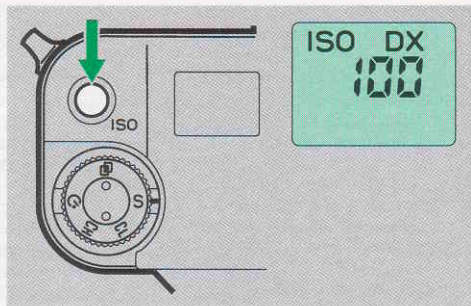
When manual film speed setting is used

Bei manueller Einstellung der Filmempfindlichkeit

Lorsque le réglage de la sensibilité du film est effectué manuellement.

Cuando se emplea el ajuste manual de sensibilidad de la película.

If "DX" is displayed 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, be sure to set the film speed manually.**



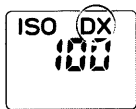
### <Checking the Film Speed>

With the main switch set to ON, if the ISO button is pressed, the film speed (ISO number) will appear in the display panel for about 16 seconds. When DX automatic film-speed setting is used, "DX" will appear in the display.

- If the shutter release is depressed halfway while the film speed is displayed, the display will return to the shooting distance display.

### <Setting the Film Speed>

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



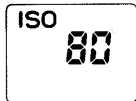
#### ■ Automatic Setting Mode:

If the film speed is set to "DX" and you are using DX film, the camera will automatically set itself to the speed of the film you are using.

**DX films are available in a range of ISO 25 to 5000.**

The DX mark and film speed are printed on the film box.

- If the camera is loaded with non-DX film, the film speed will be automatically set to ISO 100.



#### ■ Manual Setting Mode:

Set the film speed as you desire. If you are using non-DX film, or if you want to change 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 to 6400.**
- When the film speed (ISO number) has been set manually, that manually set speed will be used even if DX code film is later loaded in the camera.

### <Einstellen der Filmempfindlichkeit>

Die Einstellung der Filmempfindlichkeit kann auf zwei Arten erfolgen: in der automatischen Betriebsart über DX-Code oder in der manuellen Betriebsart.

#### ■ Automatische Einstellbetriebsart:

Wenn Sie "DX" wählen, wird die Empfindlichkeit bei Verwendung von Filmen mit DX-Code automatisch eingestellt. **Der DX-Code-Bereich umfaßt ISO 25-5000.** DX-Codierung und Empfindlichkeit sind auf der Filmschachtel und -patrone angegeben.

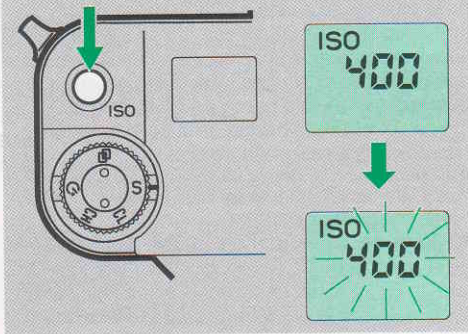
- Wenn ein Film ohne DX-Code eingelegt wird, stellt die Kamera automatisch ISO 100 ein.

#### ■ Manuelle Einstellbetriebsart:

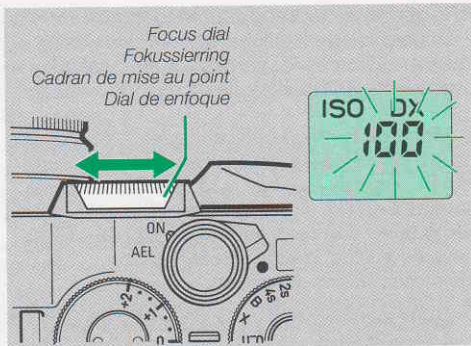
Stellen Sie die Empfindlichkeit auf den gewünschten ISO-Wert ein. Die manuelle Empfindlichkeitseinstellung können Sie benutzen, wenn Sie Filme ohne DX-Code verwenden oder einen anderen ISO-Wert einstellen wollen.

- Sie können **die ISO-Werte in 1/3-Stufen von ISO 6 – 6400** einstellen.
- Bei manueller Einstellung der Filmempfindlichkeit hat diese Vorrang, selbst wenn später ein DX-codierter Film eingelegt wird.

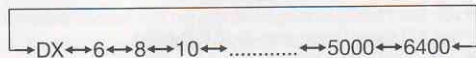
Hold depressed for about 1.2 seconds or more.  
 Die Taste mindestens 1,2 s lang gedrückt halten.  
 Maintenez enfoncé pendant environ 1,2 seconde ou plus.  
 Manténgalo presionado durante 1,2 segundos o más.



**1** Turn the main switch on. If you press and hold on the ISO button for about 1.2 seconds or more, the display of the film speed in the display panel will start to blink. After blinking, remove your finger from the button.



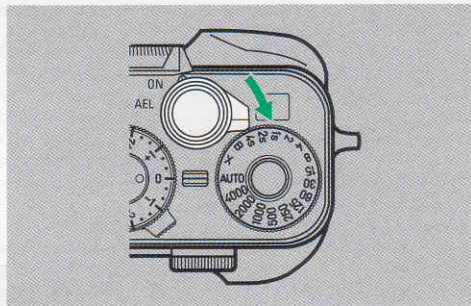
**2** Turn the focus dial until either "DX" or the desired film speed appears. When the focus dial is turned, the film speed changes in 1/3 steps, as shown:



**3** Set the main switch to **OFF**; this completes the setting procedure.

- The setting also takes effect if the shutter release is depressed halfway, the focus lock button is pressed, or if you wait for about 16 seconds.
- Once the film speed has been set manually, the set value will be stored in memory and remain in effect until the above procedures are used again to change the film speed setting.

While the film speed is being set, the display inside the viewfinder will blink and no pictures can be taken.



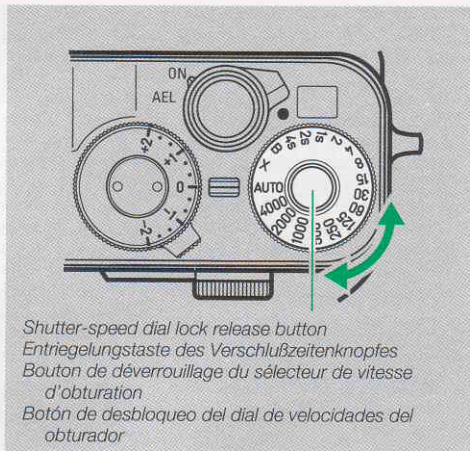
## Shutter-Speed Dial

This dial is used to set the exposure. When turned to “AUTO,” the camera is set for aperture-priority automatic exposure.

When turned to a number, the shutter speed is set for manual exposure mode, at the indicated shutter speed. Shutter speeds can be set in the range “4S” (4 seconds) to “4000” (1/4000 second) in single-step units.

The dial can also be set to “B” for bulb exposures, and to “X” for X-synchronized flash exposures at 1/200 second.

- Be sure that the shutter speed dial is securely set in one of the click indent positions when using (do not attempt to set the dial between the marked number settings).
- To prevent unintentional changes of shutter speed, the “AUTO” and “X” positions lock into place. To change from these settings, you must turn the dial while pressing the shutter-speed dial lock release button (on top of the dial).



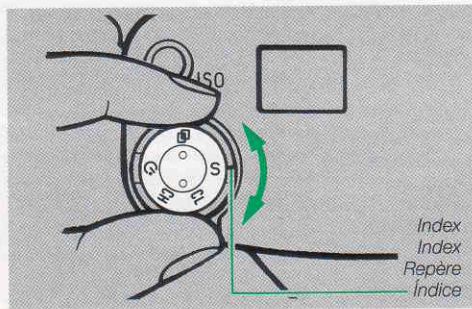
*Shutter-speed dial lock release button*

*Entriegelungstaste des Verschlusszeitenknopfes*

*Bouton de déverrouillage du sélecteur de vitesse  
d'obturation*

*Botón de desbloqueo del dial de velocidades del  
obturador*

## Drive Mode Dial



The following drive modes can be selected.

**To select a mode, turn the drive mode dial until the mode aligns with the index mark.**

- Be sure the dial stops securely at one of the click indents (do not attempt to set the dial between marked settings).

### “S” Mode: Single-frame Shooting

Each time the camera's shutter release is pressed, one film frame is exposed and the film is wound to prepare for the next exposure.

### “CH”, “CL” Modes: Continuous shooting

While pressing the camera's shutter release, a maximum speed of about 4 frames/second (CH) or about 2 frames/second (CL) are exposed automatically. (The actual drive speed depends on various conditions, including the set shutter speed, film speed, and battery condition. Also, when using an optional data back, drive speed will depend on whether the “between-frame” printing function is used.)

### “⌚”: Self-Timer Mode

Set to this position to perform self-timer photography. For details see page 170.

### “📷”: Multiple-Exposure Mode

Set to this position to perform multiple-exposure photography. For details, see page 164.

## Focus-Mode Dial/Focus Lock Button

### <Focus-Mode Dial>

The following focus modes can be selected. For details, see the section "Focusing the Lens" (page 74).

#### "SAF" mode: Single Auto Focus

Focusing is performed automatically; once the focus is aligned, the lens is locked in that position.

#### "CAF" mode: Continuous Auto Focus

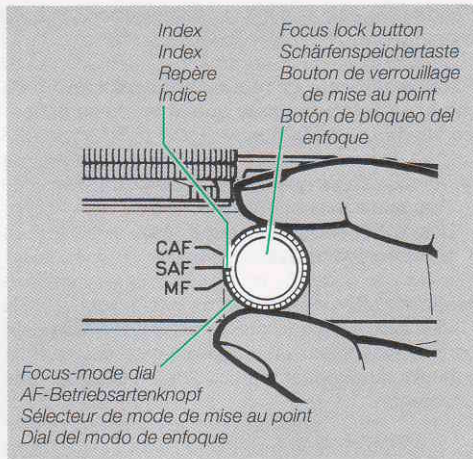
Focusing is performed continuously using automatic focus.

#### "MF" mode: Manual Focus

Focusing is performed manually by turning the focusing dial on the front of the camera.

### <Focus Lock Button>

Press this button during use of the "CAF" (continuous auto focus) mode when you wish to lock the focus on a subject.





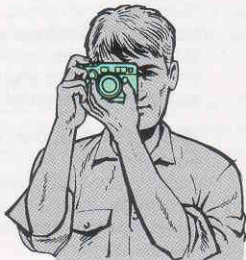
## Holding the Camera

**Be sure to remove the lens cap before you shoot!**

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

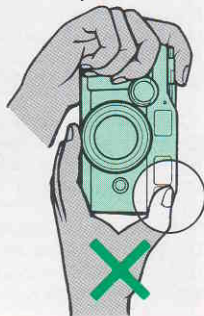
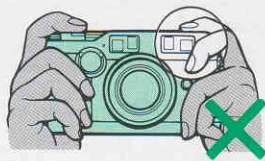
The camera can be held not only in the horizontal position, but also in the vertical position depending on the subject. In any case, study your comfortable camera positioning and practice until you get used to it. It is also good to support your body or camera with a building, tree, and so on.

① *Relax the hand and gently depress the shutter release. At the moment to take pictures, stop breathing.*



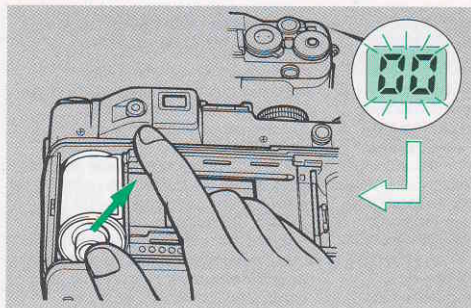
**Be sure your fingers do not obstruct or rest on the lens, AF windows, infrared emitter, or ISO button.**

● *If the entire display inside the viewfinder blinks, it means the ISO button has been pressed and the camera is in the film-speed setting mode, making it impossible to take pictures. In this case, check to be sure the film speed has not been changed accidentally.*



② *Tighten your side, and stabilize the camera.*

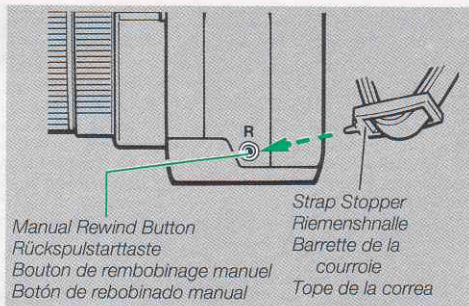
## Rewinding the Film



**As soon as the entire roll of film is exposed, the camera rewinds the film automatically.**

While the film is rewinding, the exposure counter counts down. When rewinding is completed, the motor stops and number "00" in the counter blinks.

Confirm that the motor has stopped and the exposure counter is blinking on "00", then open the camera back and remove the film cassette.



- Always unload a film in subdued light.
- Be sure to unload the film after it has rewind. After the film has been rewind, the camera will not operate unless the camera back is once opened.
- To rewind film from midway through a roll, use the projection on the camera strap stopper to press the manual rewind button on the side of the camera body (do not use pins, needles or other sharply pointed objects).
- Take the exposed film for processing as soon as possible.

## *Focusing the Lens*

Focusing can be performed either by automatic focusing (AF) or manual focusing (MF) modes. Auto focus modes include “SAF” (single auto focus) and “CAF” (continuous auto focus). Use the focus mode dial to select the desired focusing mode. Better results can be obtained by using the focusing mode selectively in accordance with the subject being photographed.

### **1. “SAF” (Single Auto Focus) Mode:**

This mode is recommended when photographing ordinary scenery without much movement. In this mode, the lens focuses automatically; once the lens is focused on a subject, focus is locked at that distance. The shutter will not operate if the lens is not in focus. This is a “focus-priority” mode.

### **2. “CAF” (Continuous Auto Focus) Mode:**

This mode is recommended when photographing small children or other subjects that move continuously in the center of the viewfinder. In this mode, the lens continuously attempts to focus on whatever subject is currently at the center of the viewfinder, and the shutter will operate whenever it is pressed, regardless of whether the lens is in focus. This is a “shutter-priority” mode.

### **3. “MF” (Manual Focus) Mode:**

This mode is recommended when photographing fireworks or other night scenes, or otherwise when focusing using auto focus is difficult or impossible. In this mode, superior results will be obtained by setting the focus to infinity (InF). The manual focus mode is also convenient when taking multiple photographs of still-life or other subjects when the distance between camera and subject remains fixed.

## Relationship between Drive Modes (S, CL, CH) and Focus Modes

In each drive mode (S, CL or CH), focusing in each focusing mode is as follows:

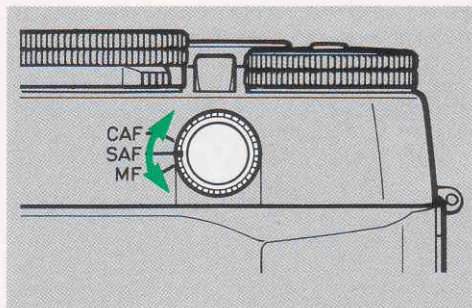
Drive Mode \ Focus Mode	"SAF" (Single Auto Focus)	"CAF" (Continuous Auto Focus)	"MF" (Manual Focus)
S (Single Frame Shooting)	<p>AF operates when the shutter release is depressed halfway, and once the subject is in focus, the focus is locked at that distance.</p> <ul style="list-style-type: none"> <li>● When focus cannot be achieved, shutter does not operate.</li> </ul>	<p>AF operates continuously while the shutter release is depressed halfway.</p> <ul style="list-style-type: none"> <li>● Focus is locked when focus lock button is pressed.</li> <li>● Shutter operates whenever pressed, regardless of whether focus is achieved.</li> </ul>	<ul style="list-style-type: none"> <li>● Focus is performed manually by turning the focus dial.</li> </ul>
CL, CH (Continuous Shooting)	<p>AF operates when the shutter release is depressed halfway, and once the subject is in focus, the focus is locked at that distance.</p> <ul style="list-style-type: none"> <li>● If focus cannot be achieved, shutter does not operate.</li> <li>● <b>During continuous shooting, focus for successive exposures is locked at the setting established for the first frame.</b></li> </ul>	<p>AF operates continuously while the shutter release is depressed halfway.</p> <ul style="list-style-type: none"> <li>● Focus can be locked by pressing focus lock button.</li> <li>● Shutter operates whenever pressed, regardless of whether focus is achieved.</li> <li>● <b>During continuous shooting, focus is measured independently for each frame.</b></li> </ul>	<ul style="list-style-type: none"> <li>● Focus is performed manually by turning the focus dial.</li> <li>● <b>Manual focusing is impossible during continuous shooting.</b></li> </ul>

### <Exposure in Each Drive Mode (S, CL, CH)>

In each combination of drive mode and focusing mode, exposure is as follows:  
(Aperture-priority auto exposure mode)

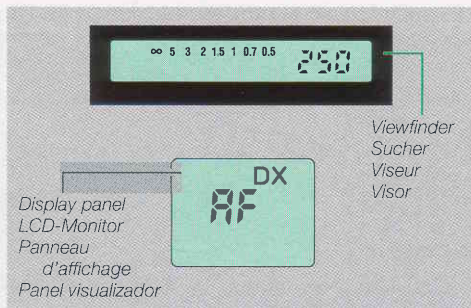
Drive Mode \ Focus Mode	"SAF" (Single Auto Focus)	"CAF" (Continuous Auto Focus)	"MF" (Manual Focus)
<b>S</b> (Single Frame Shooting)	The exposure value is determined just before the shutter trips.		
<b>CL</b> (Continuous Shooting)	The exposure value is determined just before the shutter trips. ● During continuous shooting, exposure is measured for each frame.		
<b>CH</b> (Continuous Shooting)	The exposure value is determined just before the shutter trips. ● During continuous shooting, pictures are taken continuously with the exposure value that has been measured on the first frame.	The exposure value is determined just before the shutter trips. ● During continuous shooting, exposure is measured for each frame. However, if the focus lock is activated, exposure is fixed at that time (AE lock).	The exposure value is determined just before the shutter trips. ● During continuous shooting, pictures are taken continuously with the exposure value that has been measured on the first frame.

## Focusing on Auto Focus ("SAF", "CAF")



### **1** Turn focus mode dial to either "SAF" or "CAF".

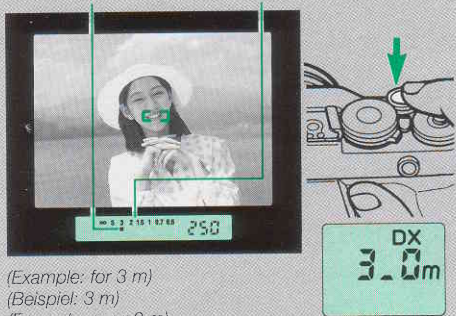
The viewfinder and the display panel will appear as shown in the illustration.



- The viewfinder distance scale will change depending on the lens installed.

Focusing mark  
Entfernungsindex  
Marque de mise au point  
Marca de enfoque

Distance scale  
Entfernungsskala  
Echelle des distances  
Escala de distancias



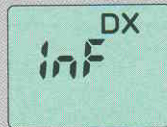
(Example: for 3 m)  
(Beispiel: 3 m)  
(Exemple: pour 3 m)  
(Ejemplo: para 3 m)

## 2 Aim the focusing frame at your subject; and depress the shutter release half way.

As focusing is performed automatically, the focusing mark will light in the viewfinder.



Example: for  $\infty$   
Beispiel: " $\infty$ "  
Exemple: Pour  $\infty$   
Ejemplo: para  $\infty$



The focusing mark lights at that point of the distance scale indicating the distance at which was focused. Simultaneously, the distance is indicated on the display panel.

## 3 Depress the shutter release fully to take the picture.

### ■ When Using "SAF" (Single Auto Focus) Mode:

When the shutter release is depressed halfway, focusing is performed automatically, and focus is locked as soon as focus is achieved.

- In the continuous shooting (CL/CH) modes, the focus is locked at the time of the first picture; subsequent pictures are made at the same lens focus setting.
- If a shifting or unstable subject makes it impossible for the camera to establish focus lock, the "✱✱" mark will blink on the viewfinder's focusing indicator to indicate that focus cannot be locked. In this condition, the shutter release will not operate. To photograph under this kind of condition, establish focus lock by focusing on another subject at the same distance as the original subject (see page 96), then take the original picture.
- For shutter-priority photography regardless of focus, press the shutter while holding the focus-lock button depressed. In this way, the shutter will operate, regardless of whether focus has been locked.



### ■ Bei Schärfenpriorität (SAF):

Die Scharfeinstellung erfolgt beim Antippen des Auslösers. Sie wird unmittelbar danach gespeichert.

- In "CL" wird die Belichtung bei jeder Aufnahme neu eingestellt; in "CH" wird die für die erste Aufnahme gespeicherte Belichtung verwendet.
- Ist der Kamera keine Scharfeinstellung möglich, blinkt "✱✱" im Schärfenindikator im Sucher, und der Auslöser bleibt gesperrt. Nehmen Sie in diesem Fall eine Ersatzmessung auf ein anderes Objekt in gleicher Entfernung vor (siehe Seite 97), schwenken Sie mit angetipptem Auslöser auf den gewünschten Ausschnitt, und lösen Sie aus.
- Für Aufnahmen mit Auslösepriorität drücken Sie den Auslöser unter gleichzeitigem Druck auf die Schärfenspeichertaste. Dann ist Auslösung ungeachtet des Schärfenstatus möglich.