

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.**

[www.orphancameras.com](http://www.orphancameras.com)

*Camera Functions and Applied Techniques*  
*Kamerafunktionen und Aufnahmetechniken*  
*Fonctions de l'appareil et techniques appliquées*  
*Funciones de la cámara y técnicas aplicadas*

## Selecting the Exposure Mode

*Equipped with an MM (Multi-Mode) type lens, the Contax 167MT allows you to choose six exposure modes according to your subject and purpose. To set the mode, move the Operating Lever to the right or left while pressing the Mode Button until the desired mode appears in the display panel.*

*The exposure mode in the display panel switches in the following order.*

## Wahl der Belichtungsbetriebsart

*Die Contax 167MT ist für Objektive mit MM-Anschluß vorgesehen und bietet Ihnen je nach Motiv und Aufnahmezweck die Wahl zwischen sechs verschiedenen Belichtungsbetriebsarten. Um die gewünschte Betriebsart einzustellen, halten Sie die Betriebsartentaste gedrückt und bewegen gleichzeitig den Bedienungsschieber nach rechts oder links, bis die jeweilige Betriebsart auf dem Monitor angezeigt wird.*

*Die Anzeige der Belichtungsbetriebsart ändert sich auf dem Monitor in der folgenden Reihenfolge:*

## Sélection du mode d'exposition

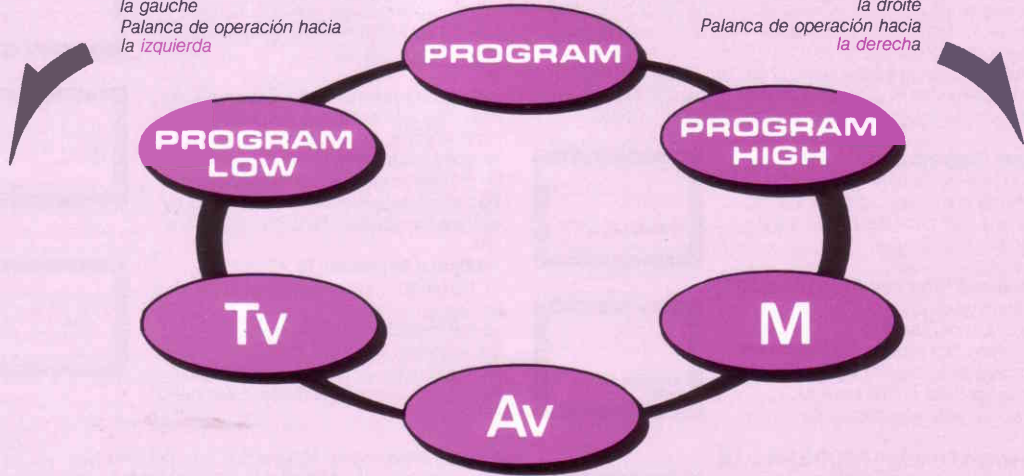
*Equipé d'un objectif de type MM (Multi-Mode), le Contax 167MT permet de choisir parmi six modes d'exposition en fonction du sujet et du but recherché. Pour régler le mode, déplacer le levier d'actionnement vers la droite ou vers la gauche tout en appuyant sur le bouton de mode jusqu'à ce que le mode désiré apparaisse dans le panneau d'affichage. Le mode d'exposition dans le panneau d'affichage commute dans l'ordre suivant.*

## Selección del modo de exposición

*La Contax 167MT, provista con un objetivo del tipo MM (multimodos), le permitirá seleccionar seis modos de exposición de acuerdo con el motivo fotográfico. Para ajustar el modo, mueva la palanca de operación hacia la derecha o izquierda mientras presiona el botón selector de modo hasta que aparezca el modo deseado en el panel visualizador. El modo de operación en el panel visualizador cambia del modo siguiente:*

Operating Lever to the left  
Bedienungsschieber nach links  
Levier d'actionnement vers  
la gauche  
Palanca de operación hacia  
la izquierda

Operating Lever to the right  
Bedienungsschieber nach rechts  
Levier d'actionnement vers  
la droite  
Palanca de operación hacia  
la derecha



- If you keep on pressing the Operatng Lever for more than a second, the display in the panel will change in rapid succession.

- Wenn Sie den Bedienungsschieber länger als eine Sekunde in eine der beiden Richtungen schieben, ändert sich die Anzeige auf dem Monitor schneller.

- Si l'on maintient le levier d'actionnement poussé pendant plus d'une seconde, l'affichage dans le panneau change en succession rapide.

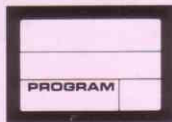
- Si mantiene presionada la palanca de operación durante más de un segundo la indicación del panel cambiará rápidamente de forma sucesiva.

### < Programmed Auto Exposure >

Among the programmed combinations of shutter speed and aperture, the camera automatically chooses the optimum combination that provides correct exposure, according to the lighting condition on the subject. This method is convenient for taking snapshots because you can concentrate your attention on the subject without worrying about exposure settings. The Contax 167MT features three modes of programmed auto exposure: Normal Program, High-speed Program and Low-speed Program modes.

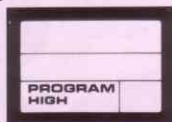
#### 1 Normal Program: PROGRAM

This mode provides a balanced combination of shutter speed and aperture so that even the beginner can take pictures with confidence.



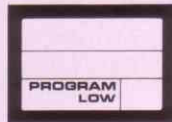
#### 2 High-speed Program: PROGRAM HIGH

This program gives priority to a high shutter speed with an aperture suited for it. It is good for taking fast moving subjects such as sports scenes as well as portraits with a blurred background. It also prevents camera shake with telephoto lenses.



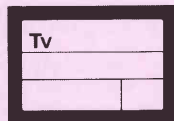
#### 3 Low-speed Program: PROGRAM LOW

This program gives priority to a low shutter speed with an aperture suited for it. It is good for landscape shots and still-life photos with an aperture stopped down.



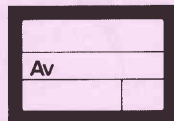
### < Shutter-priority Auto Exposure: Tv >

If you set your desired shutter speed, the camera will automatically select the aperture according to the subject brightness to provide correct exposure. It is suited for sports photography.



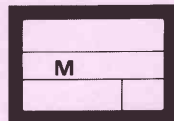
### < Aperture-priority Auto Exposure: Av >

If you set your desired aperture, the camera will automatically control the shutter speed according to the subject brightness to provide correct exposure. This mode allows you to take pictures by utilizing the depth-of-field effect of a lens.



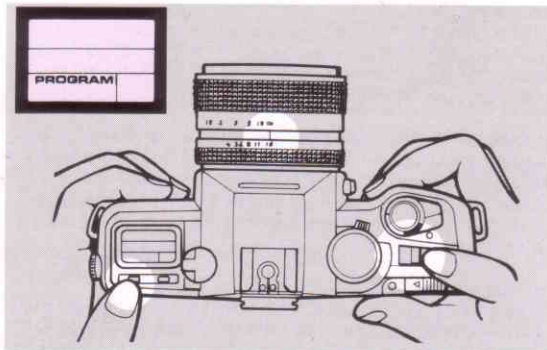
### < Manual Exposure: M >

In this mode, you can select both the shutter speed and aperture you want to obtain your intended results and effects. Because the exposure you have set is displayed in the viewfinder, you can take intentionally over- or underexposed pictures without difficulty.



- If you are using an AE lens that is not an MM type, you cannot take pictures in the PROGRAM (PROGRAM HIGH and PROGRAM LOW) or Tv mode.
- When an AE lens is mounted on the camera, it switches automatically to the Av mode even if it has been set to the PROGRAM (PROGRAM HIGH/LOW) or Tv mode. Since such an automatic function is provided, the camera switches automatically to the Av mode when the Main Switch is at ON, even if you have made lens interchange between MM type lenses. Therefore, set the PROGRAM (PROGRAM HIGH/LOW) or Tv mode again, or change the lens with the Main Switch at OFF.

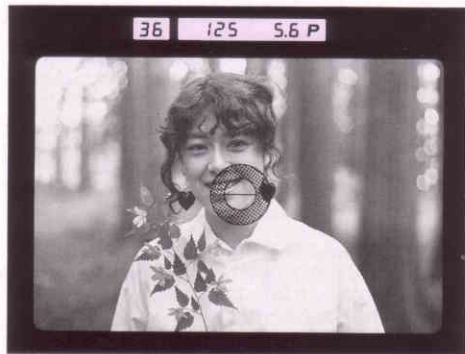
## Programmed Auto Exposure



**1** Set the lens to its minimum aperture and set "PROGRAM" (or "PROGRAM HIGH" or "PROGRAM LOW") in the display panel.

Prior to programmed auto exposure, the lens must always be set to its minimum aperture by turning the aperture ring. Then, press the Mode Button and move the Operating Lever to the right or left so that "PROGRAM" appears in the display panel. The camera will automatically set the shutter speed and aperture for correct exposure.

The minimum aperture on the aperture ring of MM type lenses is printed in green to let you see clearly that this is the setting position for programmed auto exposure and shutter-priority auto exposure.



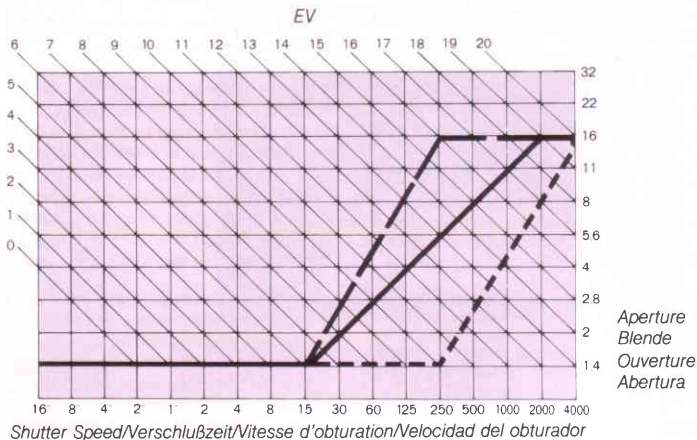
**2** Focus the lens, compose your picture and shoot.

The lens is focused by turning the focusing ring. Then, compose your picture and depress the Shutter Release gently.

If you have selected the "PROGRAM HIGH" or "PROGRAM LOW" mode, too, you can take programmed automatic pictures by taking advantage of the features of each mode.

(With F1.4 lens, ISO 100)  
 (mit f/1,4-Objektiv, ISO 100)  
 (Avec objectif F1,4, ISO 100)  
 (Con objetivo de F1,4 100 ISO)

\_\_\_\_\_ Normal program  
 Normalprogramm  
 Programme normal  
 Programa normal  
 - - - - - High-speed program  
 Kurzzeitprogramm  
 Programme grande vitesse  
 Programa de alta velocidad  
 - - - - - Low-speed program  
 Langzeitprogramm  
 Programme petite vitesse  
 Programa de baja velocidad

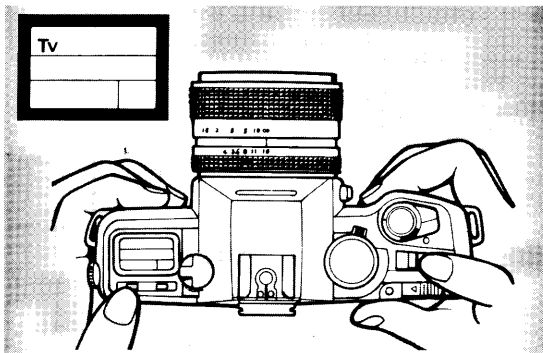


### < Program Control Chart >

This chart shows the combinations of shutter speed and aperture in the normal program, high-speed program, and low-speed program modes. If you have selected the high-speed program or low-speed program mode, in particular, the correct exposure value will be determined within the range indicated by the corresponding program line and displayed on the camera.

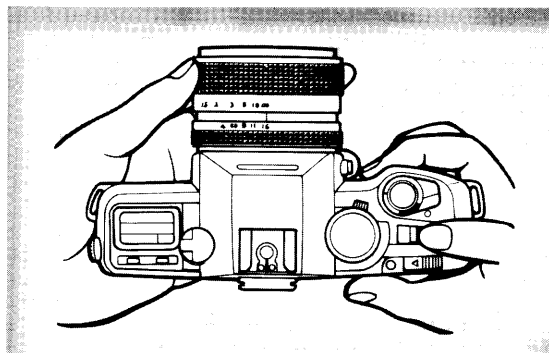
- If the lens is not set at its minimum aperture, the control range will become narrower.

## Shutter-priority Auto Exposure



### 1 Set the lens to its minimum aperture and set "Tv" in the display panel.

Set the minimum aperture by turning the aperture ring. Then, press the Mode Button and move the Operating Lever to the right or left so that "Tv" appears in the display panel.



### 2 Set the shutter speed and shoot.

The shutter speed in the display panel will change by moving the Operating Lever alone to the right or left. If you set the desired shutter speed, the camera will automatically select the correct aperture according to the subject brightness. Then, compose your picture and depress the Shutter Release gently.



- Shutter speed can be set in 1-step increments, such as 1/4000 sec., 1/2000 sec., 1/1000 sec., ..... 4 sec., 8 sec., 16 sec.

If the shutter speed you have set cannot provide correct exposure because the aperture suited for it is beyond the lens' aperture range, the camera will automatically change the shutter to always give you correct exposure.

- Die Verschlusszeit kann in ganzen Stufen eingestellt werden, z. B. 1/4000, 1/2000, 1/1000, ..., 4, 8, 16 Sek.

Wenn sich mit der von Ihnen eingestellten Verschlusszeit keine einwandfreie Belichtung erzielen läßt, da sich der dafür geeignete Blendenwert außerhalb des Blendenbereiches des verwendeten Objektivs befindet, so verändert die Kamera die Einstellung der Verschlusszeit automatisch, um stets eine richtige Belichtung zu gewährleisten.

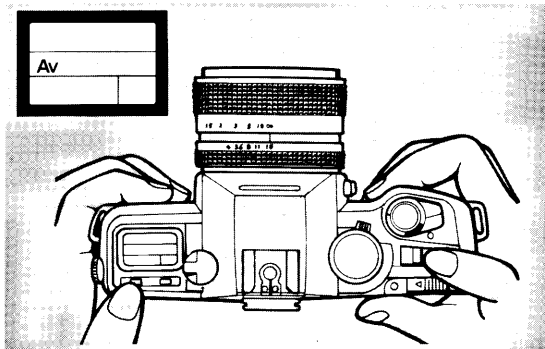
- La vitesse d'obturation peut être réglée en incréments de 1 cran tel que 1/4000 sec., 1/2000 sec., 1/1000 sec., ..., 4 sec., 8 sec., 16 sec.

Si la vitesse d'obturation que l'on a réglée ne peut permettre d'obtenir une exposition correcte car l'ouverture de diaphragme lui convenant est au-delà de la gamme d'ouverture de l'objectif, l'appareil change automatiquement la vitesse d'obturation pour assurer une exposition correcte.

- La velocidad del obturador puede ajustarse en incrementos de 1 paso como por ejemplo a 1/4000 de seg., 1/2000 de seg., 1/1000 de seg. ... 4 seg., 8 seg., 16 seg.

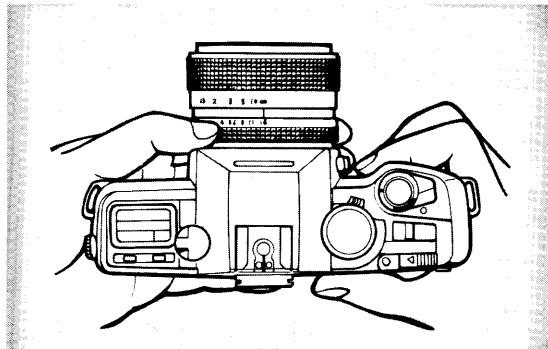
Si la velocidad del obturador ajustada no puede ofrecer una exposición correcta porque la abertura correspondiente está fuera del margen de aberturas del objetivo, la cámara cambiará automáticamente la velocidad para darle siempre una exposición correcta.

## Aperture-priority Auto Exposure



### 1 Set "Av" in the display panel.

While pressing the Mode Button, move the Operating Lever to the right or left so that "Av" appears in the display panel.



### 2 Set the aperture and shoot.

If you set the desired aperture, the camera will automatically select the correct shutter speed for your subject. Then, compose your picture and depress the Shutter Release gently.

## Overexposure/Underexposure Warning for Auto Exposure



### < Overexposure Warning >

If the shutter speed blinks at "4000" when the Shutter Release is lightly depressed, your subject will be overexposed because it is too bright. Adjust the exposure so that a shutter speed turns on without blinking. You can also use an optional ND filter to reduce the quantity of light.

### < Underexposure Warning >

If the shutter speed blinks at "16'" when the Shutter Release is lightly depressed, your picture will be underexposed because it is too dark. Adjust the exposure so that a shutter speed turns on without blinking. The use of a dedicated flash will also allow you to take beautifully exposed pictures.

- Even if an over- or underexposure warning appears, you can take pictures by depressing the Shutter Release.

### < Instructions for Using Accessories >

If you use a lens slower than F5.6, Auto Bellows PC, Microscope Adapter, Extension Ring 7.5 mm, Reverse Adapter, or other accessories with which an automatic diaphragm mechanism does not work, observe the following instructions:

- ① The aperture display in the viewfinder and display panel is fixed at "1.4", but the metering function will operate normally.
- ② Programmed auto exposure and shutter-priority auto exposure are not possible with these accessories. Use the aperture-priority auto exposure or manual exposure mode.

### < Blocking the Eyepiece >

If you are taking auto-exposure pictures (PROGRAM, Tv and Av) with a self-timer or remote control, the exposure will be adversely affected by the extraneous light entering through the viewfinder eyepiece because you remove your face from it. In such cases, it is recommended to use the AE Lock (see page 84). It is also possible to block the eyepiece with the Eyepiece Shutter packed with the camera. For details, refer to its instruction sheet.

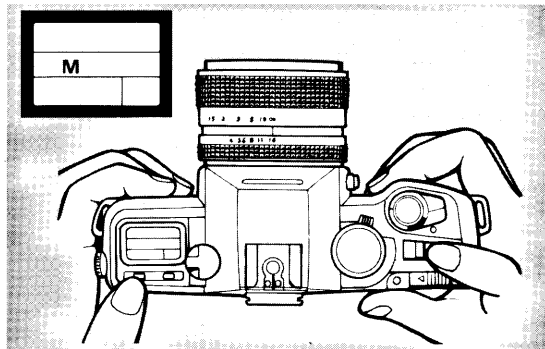
### < Hinweise zum Gebrauch von Kamerazubehör >

Die folgenden Hinweise sind bei Verwendung eines Objektivs mit einer Lichtstärke unter f/5,6, des Auto-Balgens PC, Mikroskopadapters, Zwischenrings 7,5 mm, Umkehringes oder anderen Kamerazubehörs zu beachten, das mit der automatischen Blendenübertragung der Kamera nicht kompatibel ist:

- ① Die Blendenanzeige im Sucher und auf dem Monitor zeigt stets "1.4", doch die Meßfunktion arbeitet normal.
- ② Bei Gebrauch dieses Zubehörs sind Aufnahmen weder mit Programm-Belichtungsautomatik noch mit Verschlusszeitenvorwahl-Belichtungsautomatik möglich. Verwenden Sie stattdessen die Betriebsarten Belichtungsautomatik mit Blendenvorwahl oder manuelle Belichtung.

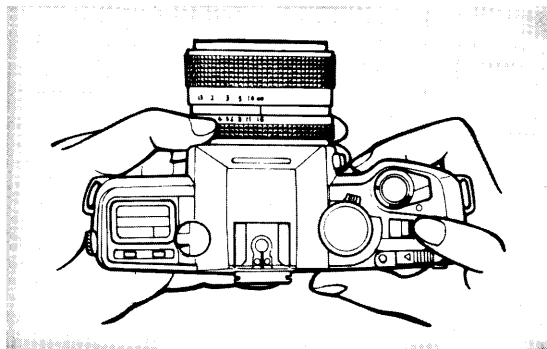
### < Blockieren des Okulars >

Wenn Aufnahmen mit Belichtungsautomatik (PROGRAM, Tv oder Av) über Selbst- oder Fernauslöser gemacht werden, wird die Belichtung durch Streulicht beeinträchtigt, das durch das Sucherokular eintritt, wenn Sie Ihr Gesicht wegbewegen. In einem solchen Fall empfiehlt sich der Gebrauch der AE-Verriegelung (siehe Seite 85). Eine Alternative besteht darin, das Okular mit dem mit der Kamera gelieferten Okularschutz zu blockieren. Weitere Einzelheiten entnehmen Sie bitte der Gebrauchsanleitung des Okularschutzes.



**1 Set "M" in the display panel.**

While pressing the Mode Button, move the Operating Lever to show "M" in the display panel.



**2 Set the shutter speed and aperture.**

Set the desired shutter with the Operating Lever and the aperture with the aperture ring so that the desired numbers appear in the display panel.



*Correct exposure  
Richtige Belichtung  
Exposition correcte  
Exposición correcta*



*Overexposure  
Überbelichtung  
Surexposition  
Sobreexposición*

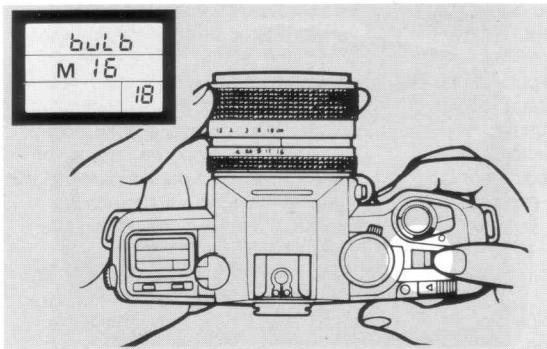


*Underexposure  
Unterbelichtung  
Sous-exposition  
Subexposición*

### **3 Focus the lens, check exposure and shoot.**

If the exposure compensation sign “+” blinks in the viewfinder when the Shutter Release is depressed halfway, your subject will be overexposed relative to the correct exposure measured by the camera; and if the “-” sign blinks, it will be underexposed. If neither the “+” nor the “-” sign blinks, it means correct exposure.

In the manual exposure, the Exposure Compensation Dial can be used for adjusting the exposure level. If you set it to +2 EV, for example, both the “+” and “-” signs will disappear when the camera has set itself for an overexposure of +2 EV.



### < Bulb exposure >

If you are taking pictures of the sky at night or other subjects requiring long-time exposure, use bulb exposure. First, set the exposure mode to "M" and set the shutter speed to "bulb". As long as the Shutter is held depressed, the shutter will remain open to expose the film.

To prevent camera shake, mount the camera on a tripod or a stable base and trip the shutter with an optional cable switch.

- If the Shutter Release is depressed, the Exposure Counter will show "00" and then indicate the exposure time in seconds while the button is held depressed. The counter will advance from "00" to "59" and, after 60 seconds, it will return to "00" again.

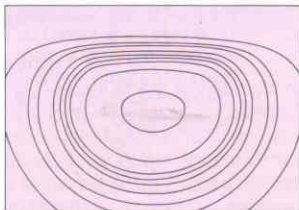


## Metering System

*The camera provides two metering methods: center-weighted metering and spot metering. Choose either method according to your photographic object and shooting conditions.*

### < Center-weighted Metering > (Main Switch at “ $\square$ ”)

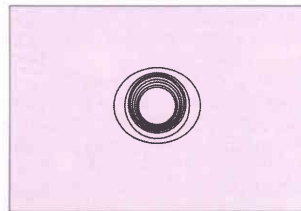
This method measures the light by placing emphasis on the central part of the picture frame to measure exposure and also takes into account the brightness of the surrounding area. It is suited not only for ordinary shots, but also for taking fast-moving subjects because it reacts well to fluctuations of light.



*Metering Sensitivity Chart  
Meßempfindlichkeits-Tabelle  
Tableau de sensibilité de mesure  
Cuadro de sensibilidad de fotometría*

### < Spot Metering > (Main Switch at “ $\circ$ ”)

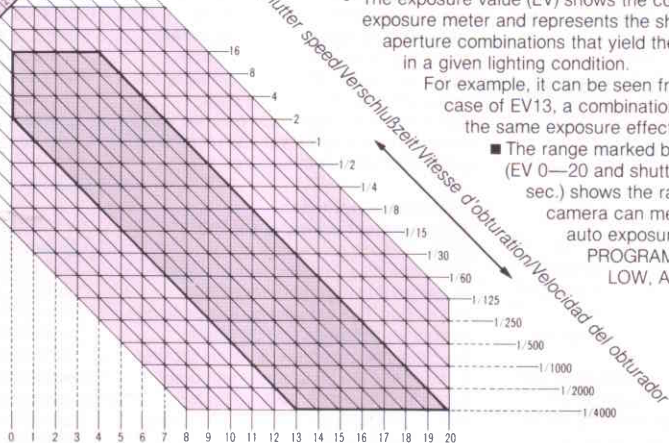
This method measures only the brightness of the subject in the microprism in the center of the viewfinder to determine the exposure. It is useful for shooting backlit portraits or spotlighted stage scenes where the subject and its background are extremely different in brightness, as well as for obtaining a dramatic effect by measuring only a particular part of the subject.



*Metering Sensitivity Chart  
Meßempfindlichkeits-Tabelle  
Tableau de sensibilité de mesure  
Cuadro de sensibilidad de fotometría*



ASA/ISO	Aperture/Blende/Ouverture/Abertura														
	1.2	1.4	1.6	1.8	2	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3
3200	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
1600	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
800	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
400	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
200	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
100	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
50	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
25	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48
12	1/2	1/3	1/4	1/5	1/6	1/8	1/10	1/12	1/15	1/18	1/22	1/27	1/32	1/39	1/48



### < Metering Range >

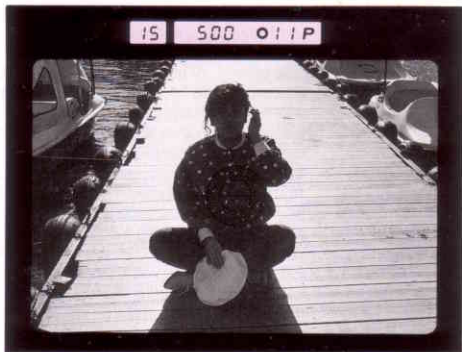
The chart shows the camera's metering range relative to the lens speed and ISO speed and lets you see all possible combinations of shutter speed and aperture at a glance. If you are shooting with an ISO 100 film and F1.4 lens in the center-weighted metering, for instance, first find "100" in the ISO column on the aperture table and locate "1.4" and "16" in this row (the minimum aperture of Planar T\* 50 mm is F16). Then, follow the corresponding diagonal lines and find their intersecting points with the vertical line (EV) and horizontal line (shutter speed). This represents the limits of the metering range, that is, EV "0" to "20", which shows the metering range with an F1.4 lens.

- The exposure value (EV) shows the coupling range of an exposure meter and represents the shutter speed and aperture combinations that yield the same exposure effect in a given lighting condition.

For example, it can be seen from the table that in the case of EV13, a combination of F16, 1/30 sec. has the same exposure effect as F8, 1/125 sec.

- The range marked by bold lines in the table (EV 0—20 and shutter speed 16—1/4000 sec.) shows the range in which the camera can measure exposure in the auto exposure modes (PROGRAM, PROGRAM HIGH, PROGRAM LOW, Av and Tv).

## Taking Pictures on Spot Metering

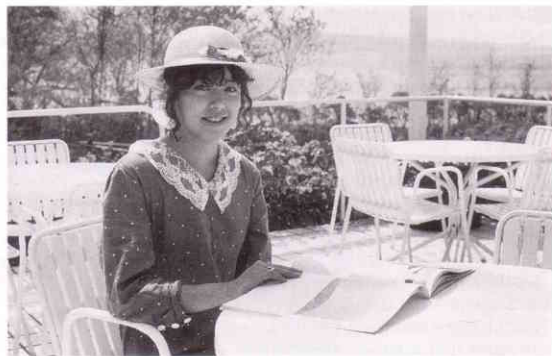


**1** Set the Main Switch at "O" and aim the camera at your subject with the microprism collar in the center of the viewfinder.



**2** Depress the Shutter Release lightly. The camera will measure exposure, and the spot metering mark and the exposure value will be displayed. Check exposure and depress the Shutter Release all the way to take your picture.

## Spot Metering with the AE Lock



*If the spot metering mode, you can take correctly exposed pictures with the AE Lock even if the subject is not located in the center of the picture frame.*

**1** Frame your picture so that the main subject is located in the center of the viewfinder, and switch the Main Switch from "●" to "AEL". Thus, the camera will take reading on the subject and lock this exposure value.

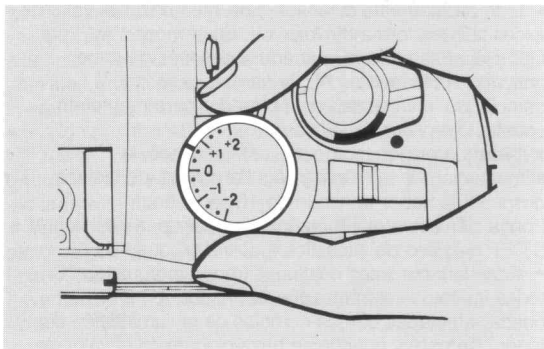
- The spot metering mark in the viewfinder blinks while the AE Lock is activated.
- You can shoot repeatedly with the same exposure value while the AE Lock is activated.
- Set the Main Switch to "AEL" when the display in the viewfinder or panel is on.

**2** Recompose your picture as you originally intended and shoot.

- This camera is designed to memorize the exposure value in the form of an EV value. In the "Av" mode, for example, if you change the aperture after the AE Lock is activated, the camera will respond by changing the shutter speed to keep the exposure value constant.
- As long as the AE Lock is activated, the camera power will remain on even after 16 seconds have passed. Always switch the Main Switch from AEL to OFF after taking pictures with the AE Lock.
- When taking continuous pictures (drive mode "C"), all pictures you take will turn out uniformly exposed, unaffected by changes in light in the background, if you have locked the exposure value of the subject with the AE Lock.

- Diese Kamera ist so konstruiert, daß der Meßwert als EV-Wert (Belichtungswert) gespeichert wird. Wenn Sie bei aktiviertem Meßwertspeicher in der Betriebsart "Av" beispielsweise die Blendeneinstellung verändern, so ändert die Kamera automatisch die Verschußzeit auf einen der neuen Blende entsprechenden Wert, um den Belichtungswert konstant zu halten.
- Solange der Meßwertspeicher aktiviert ist, bleibt die Spannungsversorgung der Kamera auch nach Verstreichen von 16 Sekunden eingeschaltet. Stellen Sie den Hauptschalter daher nach beendeten Aufnahmen mit Meßwertspeicher immer von "AEL" auf OFF zurück.
- Wenn der Belichtungswert des Motivs bei Serienaufnahmen (Filmtransport "C") über den Meßwertspeicher festgehalten wurde, werden alle Aufnahmen identisch belichtet, ohne daß Helligkeitsänderungen des Hintergrunds berücksichtigt werden.

## Using the Exposure Compensation Dial



The Exposure Compensation Dial is normally set at "0", whether you are shooting in the programmed, shutter-priority or aperture-priority auto exposure mode. If you want to compensate exposure, turn the Exposure Compensation Dial and set the desired compensating value opposite the index. Exposure compensation is possible in 1/3-EV increments in the range of +2 EV ~ -2 EV.



*For exposure compensation of +1/3 ~ +2 EV  
Für eine Belichtungskorrektur von +1/3 bis +2 EV  
Pour compensation d'exposition de +1/3 ~ +2 EV  
Para la compensación de la exposición de +1/3 a +2 EV*



*For exposure compensation of -1/3 ~ -2 EV  
Für eine Belichtungskorrektur von -1/3 bis -2 EV  
Pour compensation d'exposition de -1/3 ~ -2 EV  
Para la compensación de la exposición de -1/3 a -2 EV*

The "+" sign will turn on in the viewfinder if compensation is made in a range of +1/3 EV ~ +2 EV; and the "-" sign will turn on in the case of -1/3 EV ~ -2 EV. Depending on the amount of compensation, both the shutter speed and aperture will change in the programmed auto exposure mode, only the aperture in the shutter-priority auto exposure mode, and only the shutter speed in the aperture-priority auto exposure mode.

After shooting, always reset the compensation dial to "0".



**< For backlighted Subjects ..... +1/3 ~ +2 >**

If you are shooting your subject against the light, under a bright sky, on an ocean beach, in front of a window, etc., where a bright background occupies the greater part of the picture frame, the main subject will be underexposed and turn out dark like a silhouette if it is taken on center-weighted metering. In such cases, compensate exposure in a range of +1/3 ~ +2 to give more exposure to it.



**< For Spotlited Subjects ..... -1/3 ~ -2 >**

If you are shooting a spotlighted subject on a stage where a dark background predominates in the scene, it will be overexposed and turn out light if it is taken on center-weighted metering. In such cases, use exposure compensation of -1/3 ~ -2 to reduce the amount of light on it.

