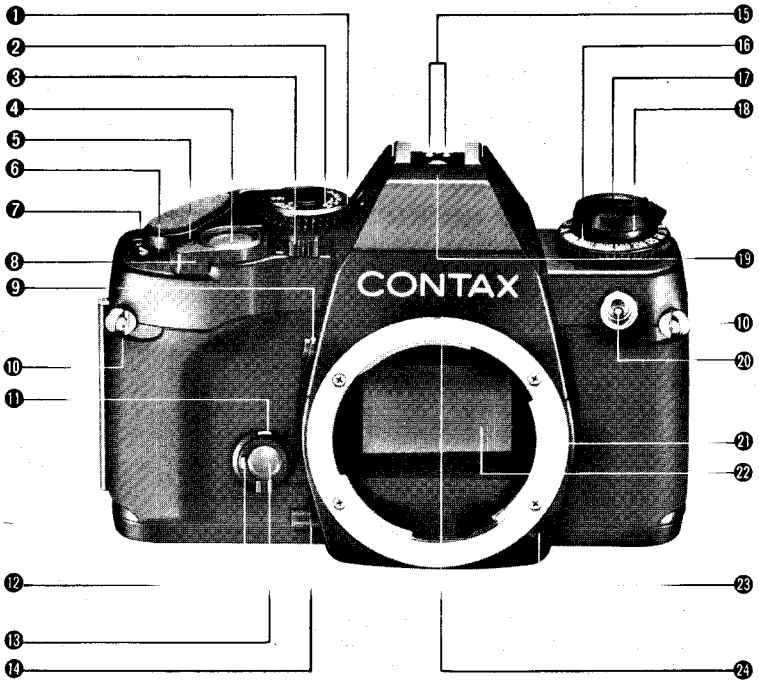
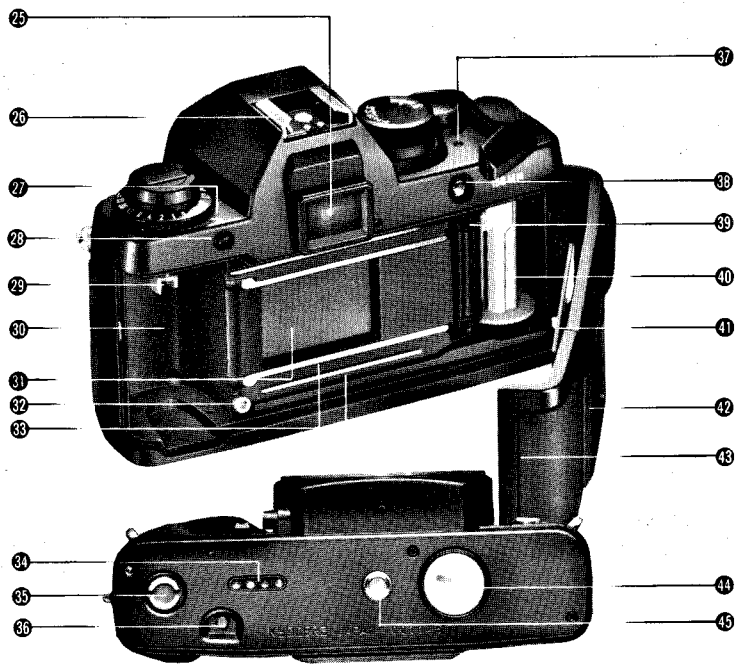
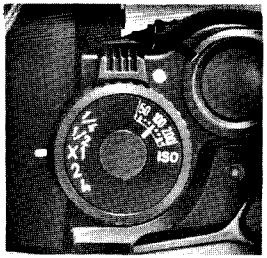
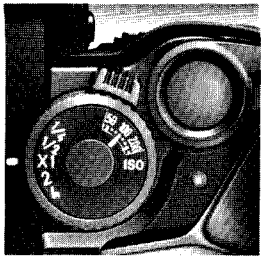


1. Film Speed Ring
2. Exposure Compensation Dial
3. Main Switch/Battery Check
4. Electromagnetic Shutter Release
5. Film Advance Lever
6. Multiple-Exposure Lever
7. Exposure Counter
8. AE (Auto Exposure) Lock Lever
9. Lens Release Button
10. Carrying Strap Eyelet
11. Self-Timer Index
12. Self-Timer Button Lock Ring
13. Self-Timer Button/Self-Timer Flasher
14. Depth-of-Field Preview Button
15. Auto Flash Contacts
16. Shutter Control Dial
17. Film Rewind Crank-Handle
18. Film Rewind Knob
19. Direct X Contact
20. X Synch Terminal
21. Contax/Yashica Mount
22. Deflection Mirror
23. Program Coupling Lug
24. Lens Index



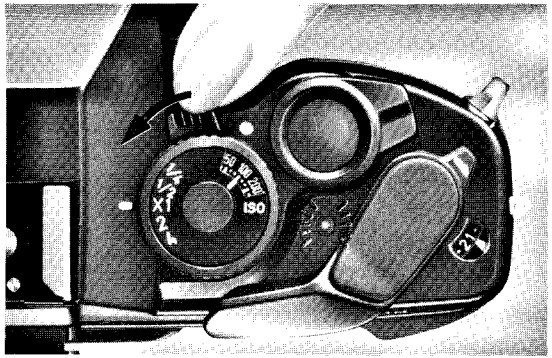
㉕ Viewfinder Eyepiece
㉖ Accessory Shoe
㉗ Shutter Speed Index
㉘ Shutter Dial Lock-Release Button
㉙ Film Rewind Stud
㉚ Film Cassette Chamber
㉛ Shutter Curtain
㉜ Data Back LED
㉝ Film Guide Rails
㉞ Winder Coupling Terminal
㉟ Winder Coupling
㊱ Film Rewind Release Button
㊲ Battery Check Lamp
㊳ Release Socket
㊴ Sprocket
㊵ Take-up Spool
㊶ Pressure Plate
㊷ Memo Holder
㊸ Camera Back
㊹ Battery Compartment Cover
㊺ Tripod Socket





En position marche (ON)
En la posición ON

En position arrêt (OFF)
En la posición OFF

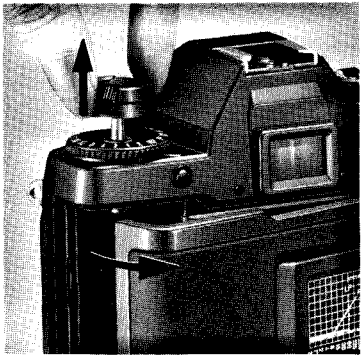


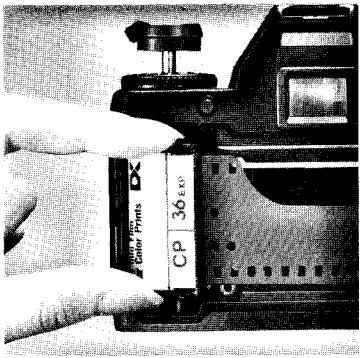
<Main Switch>

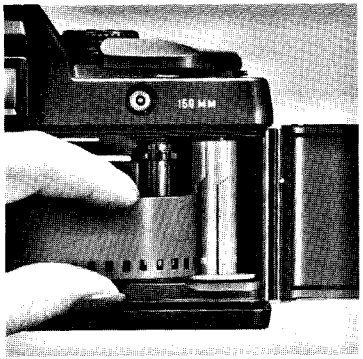
The Contax 159 MM has a main switch which is used to turn the power ON/OFF. Turn the switch in direction of the arrow until it click stops and a red dot (for ON) appears, setting the camera in a state of readiness. With the main switch turned on, pressing of the shutter release button partway in will cause the viewfinder LEDs to light up and stay on for 16 seconds. When the main switch is turned back (red dot in covered position), all of the electrical circuits will be turned off, causing all camera functions to cease.

When not using the camera, make sure that the main switch is turned OFF (red dot in covered position) to prevent accidental release of the shutter.

If the battery check lamp lights up (red) when the main switch is further turned from its ON position in direction of the arrow, it means the batteries are good. When the batteries weaken, the lamp will give a warning flash. In this case, have fresh batteries ready or replace the batteries. When the batteries fall below a rated output, the lamp will not light and the camera will not function.







Always use a standard 35 mm film cartridge (12, 20, 24 or 36 exposure roll). Avoid direct sunlight when loading film.

1 Open,the camera back by pulling the film rewind knob all the way out.

2 Place the film cartridge in the film chamber. Then, push the rewind knob back in, turning it slightly until it falls into position, if necessary.

3 Draw out the film leader and insert the tip into any slot on the take-up spool.

Viewfinder Display

When the shutter release button is pressed partway in, the necessary exposure information is indicated by LEDs. Since the eyepoint has been made longer than usual, you can see the entire viewfinder image without any vignetting. The LED display features a 3-stage brightness control which automatically adjusts the intensity to the prevailing lighting condition.

- When the exposed film is sent out for processing and printing of standard size prints, be mindful that the prints will show somewhat less than what will appear on the film.

Dedicated flash mark
Markierung für angepaßten Blitz
Repère de flash
Marca del flash

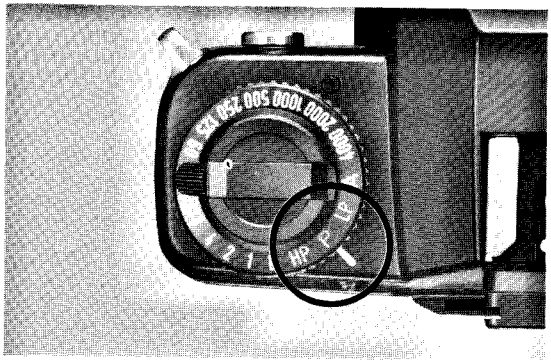
Shutter speed LED
Verschlußzeiten-LED
LED de vitesse d'obturation
LED de velocidad del obturador

Shutter speed scale
Verschlußzeitenskala
Echelle des vitesses d'obturation
Escala de velocidades del obturador

Program AE mode display
Programm-AE Betriebsart Display
Affichage du mode AE programmé
Indicación del modo programado AE

Aperture display
Blenden-Display
Affichage de l'ouverture
Indicación de la abertura

Exposure compensation display
Belichtungskompensations Display
Affichage de la compensation d'exposition de exposición
Indicación de la compensación



The function of the shutter is to control the length of time the film is exposed to light. On the Contax 159 MM, whether set in the Program AE. Aperture-priority AE, or Manual exposure mode, the shutter speed is controlled by an electronic circuit incorporating a high precision quartz oscillator.

utter Control Dial Setings>

"P" (for Normal Program Mode) ..... For taking pictures in the general program AE mode.

"HP" (for High-speed Program Mode) ..... For taking pictures in the program AE mode using a high shutter-priority speed of 1/1000 second.

"LP" (for Low-speed Program Mode) ..... For taking pictures in the program AE mode using a low shutter-priority speed of 1/60 second.

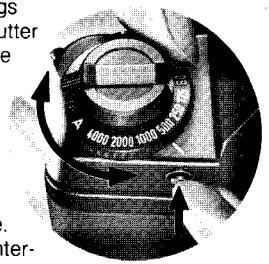
"A" ..... For taking pictures in the Aperture-priority AE mode.

"4000" ~ "1" ..... For exposure settings using the Manual exposure mode. "4000," "500," "60," and "1" represent usable shutter speed settings of 1/4000, 1/500, 1/60 and 1 second respectively. When the setting is shifted to a next larger number (for example, from 125 to 250), the exposure time is successively halved with each setting; conversely, when shifted to a next smaller number, the exposure time is successively doubled with each setting.

"B" ..... The shutter remains open during the time the shutter release button is kept pressed so it is used for taking long exposure shots.

rol Dial>

Set the shutter control dial by turning it until the desired number or letter (all letter settings click-stopped) aligns with the shutter speed index. The dial locks in the "P," "HP," "LP," and "A" positions to prevent accidental shifting of the dialed mode. The dial can be unlocked by pressing the shutter dial lock-release button and turning the dial at the same time.



- The dial cannot be used in intermediate settings between click stops.

<Precautions When Using Accessories>

When using a lens with a maximum aperture under f/5.6, or with the Contax Auto Bellows PC, Extension Ring 7.5 mm, Microscope Adapter, Reverse Ring and such other accessories which do not couple with the auto-diaphragm mechanism, the following points should be noted.

❶ Although the viewfinder aperture display will continue indicating the "1.4" mark even after the camera is switched to another mode, the metering function will continue operating normally.

❷ Programmed AE will not be possible. Use the camera in the aperture-priority AE mode or manual mode.

When using an older type Zeiss T* lens without the program coupling pin, an auto extension tube, or any of the above accessories, set the camera in the Aperture-Priority AE or Manual exposure mode. If the shutter control dial is set in the Program modes, the camera will operate as follows:

At the "P" setting ... Aperture-Priority AE mode.
At the "HP" setting ... 1/1000 sec. manual exposure mode.
At the "LP' setting ... 1/60 sec. manual exposure mode.

<Vorsichtsmaßregeln bei Verwendung von Zubehör>

Bei Verwendung von Objektiven mit Maximalblenden von f/5,6 oder bei dem Contax Automatikbalgengerät PC, dem Zwischenring 7,5 mm, dem Mikroskop-Adapter, Umkehrring und anderen Zubehörteilen, die nicht mit dem Auto-Blendenmechanismus einkuppeln, müssen die folgenden Punkte beachtet werden.

❶ Obwohl das Sucher-Blendendisplay weiterhin "1,4" anzeigt, wenn die Kamera auf eine andere Betriebsart umgeschaltet wurde, arbeitet die Meßfunktion weiterhin normal.

❷ Programm-AE ist nicht möglich. Verwenden Sie die Kamera in Blendenvorwahl-AE-Betriebsart oder manueller Betriebsart.

Bei Verwendung älterer Zeiss T* Objektive ohne den Programmkupplungszapfen, eines Auto-Zwischenrings oder eines der oben aufgeführten Zubehörartikel stellen Sie die Kamera auf Blendenvorwahl-AE oder manuelle Betriebsart. Wenn die Verschlußzeitenscheibe auf eine der Programm-Betriebsarten gestellt ist, arbeitet die Kamera wie folgt:

Bei "P"-Einstellung ... Blendenvorwahl-AE Betriebsart
Bei "HP"-Einstellung ... Manuelle Belichtung mit 1/1000 Sek.
Bei "LP"-Einstellung ... Manuelle Belichtung mit 1/60 Sek.

Exposure Mode Selection

With the Contax 159 MM, you can use the shutter control dial to select any one of three program modes, aperture-priority AE mode, and manual exposure mode to suit any photographic objective.

<**Program AE Mode**>
In the Program AE mode, the camera automatically selects the optimum combination of shutter speed and aperture settings for correct exposure according to lighting condition by using its pre-programmed matching shutter speed and lens aperture settings. This eliminates exposure worries, thus leaving you free to concentrate on composition and making it a boon when it is top priority on capturing those fleeting, decisive moments. Depending on the desired objective, the Contax 159 MM makes Program modes available in Normal Program, High-speed Program, and Low-speed Program.

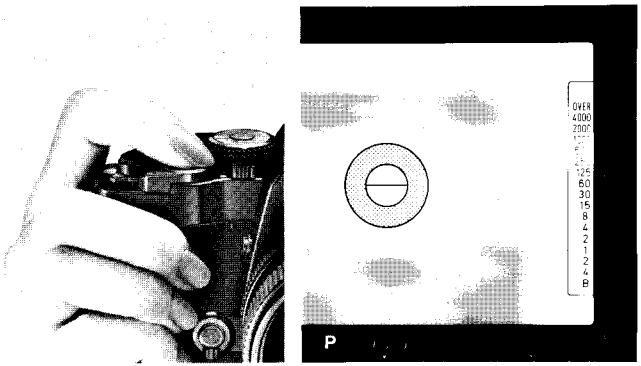
❶ **"P"** (Normal Program AE Mode) ... In this mode, the camera selects the correct balance of shutter speed and aperture settings, making it easy even for the beginning photographer to use the camera with confidence.

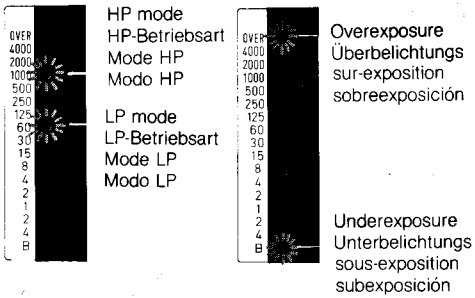
❷ **"HP"** (High-speed Program AE Mode) ... With this mode, the camera matches aperture settings with a shutter-priority setting of 1/1000 second. It is ideally suited for fast action sports photography and for intentional blurring of the background of portrait shots. And it even has the merit of minimizing camera shake when using long telephoto lenses.

❸ **"LP"** (Low-speed Program AE Mode) ... When using this mode, the camera matches aperture settings with a shutter-priority setting of 1/60 second. It is suitable for stopped-down shots, for landscape photography, or even for still-life photos.

<**Aperture-Priority AE Mode**>
You set the lens aperture, and the camera automatically selects the shutter speed according to the lighting condition to give you the correct exposure combination. You will find it not only suitable for general photography work but also for shots with depth of field considerations because you can freely control the aperture setting.

With this mode, you control the aperture and shutter speed settings in selecting the correct exposure combination needed to obtain the intended results or effect. And aided by the exposure information displayed in the viewfinder, you can easily take those intentional over- or underexposed shots.





4 Confirm Exposure and Shoot

When you depress the shutter release button partway, the viewfinder LEDs will indicate the correct shutter speed and aperture settings in effect. If the shutter speed LED's light up at any setting from "4000" to "B," it indicates correct exposure. Press the shutter release button all the way to effect exposure.

When the dial is set at the "HP" or "LP" AE mode, the shutter speed LED for 1/1000 or 1/60 second respectively will pulsate if the exposure in effect is within the working range of the camera-selected shutter speeds (1/1000 sec. for "HP," and 1/60 sec. for "LP"). See illustration.

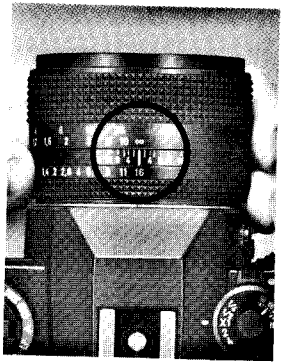
- When a shutter speed of 1/30 sec. or slower is indicated, there is a danger of camera shake. In this case, use auto flash or support the camera with a tripod.

<Overexposure Warning>

When the shutter speed LED pulsates at the "OVER" position, it indicates overexposure. Since the ambient light is too intense, adjust for correct exposure by using an ND (neutral density) filter to reduce light transmission.

<Underexposure Warning>

When the shutter speed LED pulsates at the "B" position, it indicates underexposure. Since the ambient light level is too low, compensate by using auto flash or supplementary illumination.

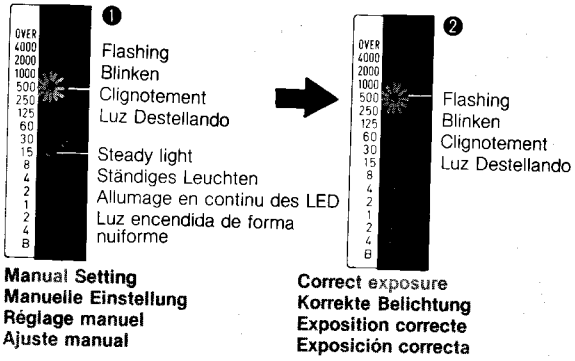


1

While pressing down on the shutter dial lock-release button, turn the shutter control dial to the desired manual shutter speed setting.

2 **Set the Lens Aperture**

Turn the lens aperture ring to the desired aperture setting, and use the viewfinder display to confirm the aperture setting.



3 **Check the Exposure and Shoot**

Depress the shutter release button partway in and the shutter speed LED will pulsate to indicate the user-selected shutter speed, and will light up to indicate the correct shutter speed for the aperture setting in effect (Figure ❶). For correct exposure, adjust the shutter or aperture settings until the pulsating and steadily lit LEDs merge (Figure ❷). Now, depress the shutter release button all the way to effect exposure.

- When two steadily lit LEDs appear at the same time, it will not be possible to merge the LEDs by turning the shutter control dial. In this case, merge the LEDs by a fine adjustment of the aperture ring.

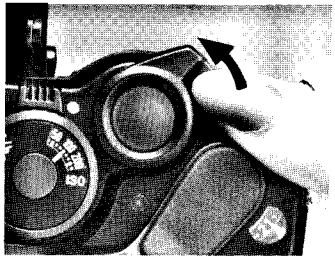
<Using the AE Lock Lever>

When the AE lock lever is set in the direction of the arrow, the exposure information in effect will be stored in the camera's memory. If the shutter release button is depressed, the stored exposure information will be executed. At this time, the shutter speed LED and the aperture display within the viewfinder will pulsate at the stored values for 16 seconds before extinguishing themselves off automatically. The stored values can be displayed again by depressing the shutter release button partway in.

To clear the memory, reset the AE lock lever to its original position.

- Be sure that the metering system is activated, otherwise the AE lock function will not operate even if the AE lock lever has been set. Set the AE lock after pressing the shutter release button partway to activate the metering system.

The AE lock system on the Contax 159 MM is a type of memory device that stores the exposure information derived from a matching combination of aperture and shutter speed readings. Thus, in the "A" (Aperture-priority AE) mode, when the aperture is changed after setting of the AE lock, the camera will automatically select a corresponding shutter speed to assure you of a uniform exposure setting at all times. After setting the AE lock, the exposure can be further regulated by using the exposure compensation dial.



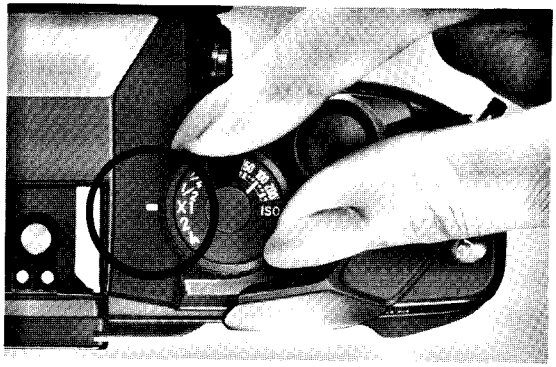
<Verwendung des AE-Schaltungshebels>

Wenn der AE-Schaltungshebel in Pfeilrichtung gestellt wird, wird die bestehende Belichtungsinformation im Speicher der Kamera gespeichert. Wenn der Auslöser gedrückt wird, wird die gespeicherte Information ausgeführt. Zu diesem Zeitpunkt blinken Verschlußzeiten-LED und Blendenanzeige im Sucher an den gespeicherten Werten 16 Sekunden lang, bevor sie automatisch ausgehen. Die gespeicherten Werte können wieder angezeigt werden, indem der Auslöser halb gedrückt wird.

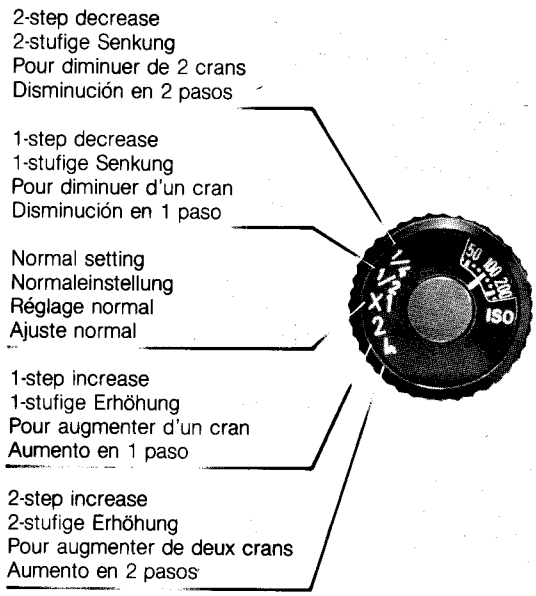
Zum Löschen der gespeicherten Werte stellen Sie den AE-Schaltungshebel auf Ausgangsstellung zurück.

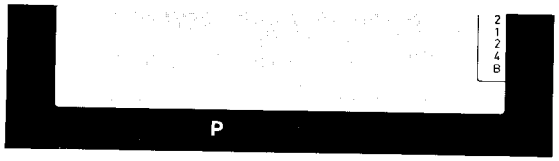
- Die AE-Schaltung kann nur dann den Richtigen Belichtungswert speichern, wenn die TTL-Hessung aktiviert ist. Deshalb vor Betätigung des AE-Schaltungshebels immer den Auslöser kurz antippen. Die Speicherung des Belichtungswertes hingegen kann beliebig lange erfolgen, egal ob dabei der Auslöser betätigt wird oder nicht.

Die AE-Schaltung der Contax 159 MM speichert die Belichtungsinformation, abgeleitet aus einer passenden Kombination von Blende und Belichtungszeit. In der "A"-Betriebsart (Blendenvorwahl), wählt die Kamera bei Einstellung einer anderen Blende nach Aktivierung der AE-Schaltung automatisch eine andere, passende Verschlußzeit, um immer gleichmäßige Belichtung zu garantieren. Nach Einstellung der AE-Schaltung kann die Belichtung weiter durch Einsatz der Belichtungskompensationsscheibe reguliert werden.

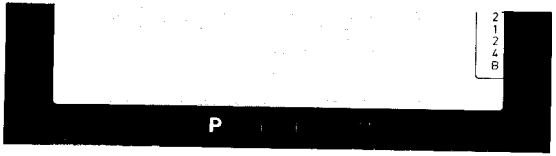


In the Program and Aperture-priority AE modes, the exposure compensation dial is normally set at "X1." However, for exposure compensation, turn the dial until the desired exposure compensation setting is aligned with the exposure compensation index. The dial is a four-stepped type, with usable intermediate click stops in 1/2-step increments. The "4" and "2" settings increase exposure, while the "1/4" and "1/2" settings decrease exposure.





2, 4 Setting
2, 4-Einstellung
Réglage à 2, 4
Ajuste 2, 4



1/2, 1/4 Setting
1/2, 1/4-Einstellung
Réglage à 1/2, 1/4
Ajuste 1/2, 1/4

When the exposure compensation is in use, a signal lights up in the viewfinder to indicate this. A "+" sign appears to the right of the aperture reading display to indicate when the "4" or "2" setting is in use, and a "–" sign likewise appears when the "1/4" or "1/2" setting is in use. In the Progran AE mode, both the aperture and shutter readings are affected, and in the Aperture-priority AE mode, only the shutter speed reading is affected, governed to the extent of the exposure compensation involved.

Always be sure to reset the compensation dial back to "X1" when exposure compensation is no longer needed.

- The usable compensation range varies with the speed rating of the film in use, so the following table has been provided as a guide.

ISO	Compensation Range Kompensationsbereich Gamme de compensation Alcance de compensación				
12	1/4	1/2	X1	—	—
25	1/4	1/2	X1	2	—
50~800	1/4	1/2	X1	2	4
1600	—	1/2	X1	2	4
3200	—	—	X1	2	4

Type: 35 mm single-lens reflex featuring Auto/Manual exposure modes and focal plane shutter
Image Size: 24 x 36 mm
Lens Mount: Contax/Yashica bayonet mount
Shutter: Quartz-timed, electronically operated vertical travel metal focal plane shutter
Shutter Speeds: 1/4000 to 60 sec. in AE modes; 1/4000 to 1 sec. (13 steps) in Manual mode, with "B"
Flash Synchronization: In direct X-synch only, with dedicated flash unit, automatically synchs at 1/100 sec. in electronic flash mode; at 1/250 sec. or slower (flash bulb synchs at 1/30 sec. or slower) in manual flash mode. X-synch terminal provided.
Self-Timer: Quartz-timed electronic self-timer with 10 sec. delay. LED flashes during operation, accelerating 2 sec. before activation of shutter. Cancellable in mid-operation.
Shutter Release: Electromagnetic release system, with dedicated release socket
Exposure Modes: (1) Normal Program AE mode; (2) High-speed Program AE mode; (3) Low-speed Program AE mode; (4) Aperture-priority AE mode; (5) Manual exposure mode; (6) TTL Program Auto Flash mode; (7) TTL Aperture-Priority Auto Flash mode; and (8) Manual Flash mode
Metering System: TTL center-weighted metering at full aperture (direct TTL center-weighted metering when using TLA electronic flash system) via Silicon Photo Diode (SPD) cell. Metering range from EV 0 to 20 (f/1.4 lens, ISO 100). Film speed range from ISO 12 to 3200. Metering switch turned on by depressing shutter release button partway in, automatically cutting off after 16 seconds.
AE Lock: Exposure memory locking, EV compensating type with exposure compensation dial
Exposure Compensation: +2 to −2 EV with 1/2-step increment click stops (intermediate setting possible)
Viewfinder: Eye-level, pentaprism type, with long eyepoint, showing 95% of picture area at 0.82X magnification, using 50 mm lens set at infinity.
Focusing Screens: Horizontal split-image/microprism collar screen as standard; interchangeable with four other types (requiring services of Contax/Yashica service center)
Viewfinder Display: LED digital display indicating aperture and exposure compensation signs; LED display indicating shutter speed (correct shutter speed, over- and underexposure), program AE modes, dedicated flash mark; array indicating shutter speeds.
Film Advance: Lever operated, 135-degree winding angle and 30-degree stand-off angle; provision made for operation with Contax 159 Winder W-7
Film Rewind: By rewind crank after depressing film rewind release button
Exposure Counter: Auto resetting type; at all shutter settings except "B" (Bulb), camera shutter system automatically operates at 1/100 sec. until counter advances to "1"
Multiple Exposure: Enabled by turning multiple exposure lever
Accessory Shoe: Direct X-synch hot-shoe with Contax TLA capability

Camera Back: Hinged type opened by pulling up on film rewind knob; memo holder provided; interchangeable with Data Back Quartz D-6.
Power Source: Powered by two 1.55 V silver oxide batteries (SR44) or 1.5 V alkaline manganese batteries (LR44); provided with main switch
Battery Check: Indicated by battery check lamp activated by main switch operation
Other Features: Provided with couplings for motorized winder, with LED for Data Back application, and depth-of-field preview button
Size: 138 (W) x 89 (H) x 55 (D) mm
Weight: 520 grams (w/o batteries)

* *All specifications and designs given herein are subject to change without notice.*

Kameratyp: Einäugige Kleinbild-Spiegelreflexkamera mit Auto/manueller Belichtung und Schlitzverschluß
Bildformat: 24x36 mm
Objektivfassung: Contax/Yashica-Bajonettfassung
Verschluß: Quarz-stabilisierter, elektronisch gesteuerter vertikal ablaufender Metall-Schlitzverschluß
Verschlußzeiten: 1/4000 bis 60 Sek. in AE-Betriebsarten; 1/4000 bis 1 Sek. (13 Stufen) in manueller Betriebsart, mit "B"
Blitzsynchronisation: Nur bei Direkt-X-Synchronisation mit angepaßtem Blitz, automatische Synchronisation bei 1/100 Sek. in Elektronenblitz-Betriebsart; bei 1/250 Sek. oder langsamer (Blitzbirnen-Synchronisation bei 1/30 Sek. oder langsamer) in manueller Blitz-Betriebsart. X-Synchr.-Anschluß vorhanden
Selbstauslöser: Quarzgesteuerter elektronischer Selbstauslöser mit 10 Sek. Vorlaufzeit. LED blinkt beim Betrieb und beschleunigt 2 Sek. vor Verschlußauslösung. Kann während des Vorlaufs abgestellt werden
Verschlußauslöser: Elektromagnetisches Auslösesystem mit angepaßter Auslöserbuchse
Belichtungsarten: (1) Normal-Programm-AE Betriebsart; (2) Schnell-Programm-AE Betriebsart; (3) Langsam-Programm-AE Betriebsart; (4) Blendenvorwahl-AE Betriebsart; (5) Manuelle Betriebsart; (6) TTL Programm-Blendenvorwahl-Automatikblitz Betriebsart; (7)TTL Elektronenblitz Betriebsart und (8) Manuelle Blitz-Betriebsart