

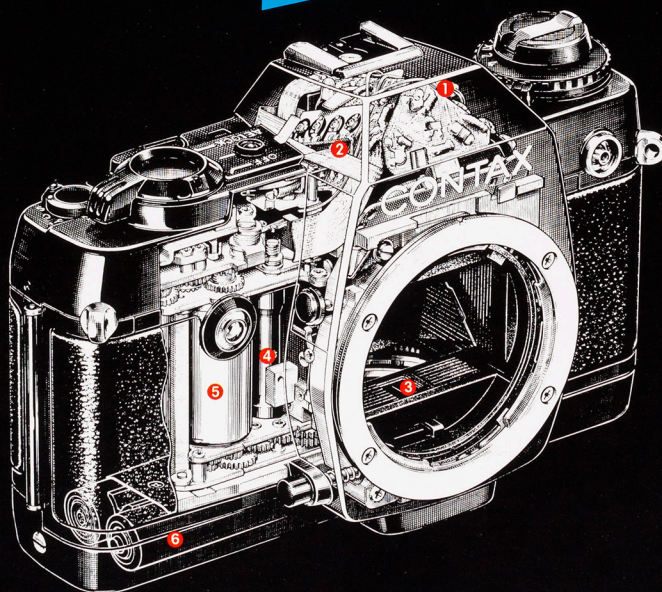
# CONTAX

137 MD QUARTZ



*World's First Built-in Quartz  
Controlled Motor Drive.*





1 Quartz crystal (clock generator) 2 Flexible circuit 3 SPD (for flash control) 4 First shutter curtain drum 5 Micro-motor 6 Four 1.5 V AA-size penlight batteries



# Real Time Direct Drive— Another Contax Innovation

The real contribution of the Contax 137 MD Quartz to modern photography is its Real Time Direct Drive system, a completely new concept in camera design.

In this system, a single fully integrated micro-motor not only handles film advance but the operations of the mirror, aperture and shutter as well.

There are numerous advantages to this system. One is the increased reliability of the operation since there are simply fewer parts to wear out or malfunction. This alone makes the Contax 137 MD Quartz worth its weight in gold to professional and amateur photographers.

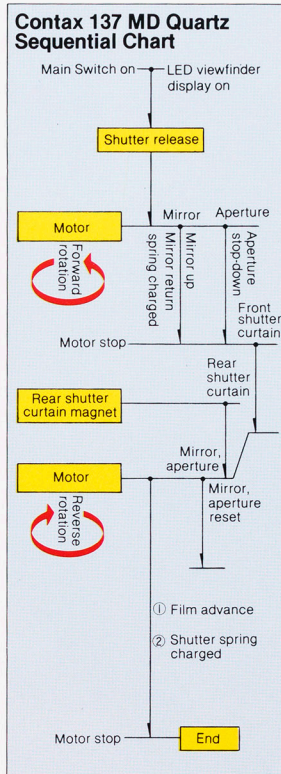
Another advantage is the quietness of the operation. Since there are few springs and other reactive parts, there is less shock and vibration. A simple test is to hold the camera in the palm of the hand and repeatedly release the shutter. You'll be amazed that you feel almost nothing at all. This feature not only allows the photographer to be more unobtrusive in candid situations, it also helps produce sharper photographs.

Not the least of the advantages is the compactness made possible by the one-motor design. No larger than an ordinary 35 mm SLR camera, the Contax 137 MD Quartz still provides motor-drive operation at up to 2 full frames per second, with a choice of single-frame or continuous operation at the flip of a switch.

The motor-drive can thus be used for automatic film advance convenience in normal situations or for instant, continuous response to fast-moving action. In any event, the Contax 137 MD Quartz is always prepared for the next exposure. A capability which enables the photographer to capture the peak of movement in sports, fashion and even candid situations. Fleeting emotions can be photographed easier in that "decisive moment" searched for by all creative photographers. In short, Real Time Direct Drive opens up new areas of convenience and creativity.



The results of oscilloscope tests for camera noise. Above is the wave pattern created by another camera. The extremely flat wave pattern of the Contax 137 MD Quartz shown below indicates the high degree of quietness.



## Exquisitely Accurate Control Through The Latest Electronics Technology

Strictly speaking, the Contax 137 MD Quartz only became a reality through the utilization of the latest advances in electronics technology. Such features as quartz control of all time-related functions, and a micro-computer which calculates exposure values while coordinating camera functions, were a dream only a few short years ago. In other words, the Contax 137 MD Quartz is truly state-of-the-art, in every sense of the phrase.

The 32,768 Hz clock pulse which is the heartbeat of the system is generated by a tiny quartz crystal. An element that is so uniformly constant in its action as to be unbelievable. But these pulses are only the beginning. Inputs from the various camera functions are then relayed to the analog Bi-MOS IC, from

where they go on to the C-MOS LSI digital CPU for processing. From this CPU, commands are sent out to activate the various operations on the basis of the timing provided by the quartz clock pulses to provide full

AE control with extremely accurate shutter speeds from LT (11 secs.) to 1/1000 sec. All of the electronic components are concentrated on a flexible circuit board which fits neatly into the camera body. A true marvel of modern electronics engineering in itself.

While the quartz oscillator generates 32,768 Hz clock pulses which regulate all time-related camera functions, the electronic brain of the Contax 137 MD Quartz is an amazingly complex digital CPU comprising a C-MOS LSI with approximately 6,000 transistorized elements.





**Contax 137**  
MD QUARTZ



# The First Honest-to-Goodness Total Information Viewfinder

Many camera manufacturers have advertised total information viewfinders, but the Contax 137 MD Quartz is the first to make this an honest-to-goodness reality. In other words, the photographer can take full advantage of all of the many features of this camera without ever taking his eye away from the viewfinder.

The shutter speeds are shown bright and clear by the 16 dot-LEDs.

The "OVER" LED flashes to indicate overexposure, while the "B" LED at the bottom flashes for underexposure.

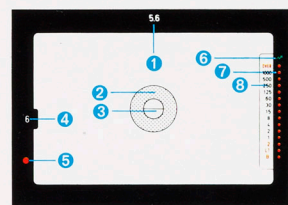
Also at the top is the green "✓" LED which comes on to indicate that the Contax TLA-20 Auto Flash is fully charged. This same LED also lights briefly after a flash shot to show that the exposure was correct. When the AE Lock is activated, the shutter speed LED flashes to indicate which speed has been stored in the memory.

Apertures are shown in a bright window in the center of the viewfinder top section. On the left side is a red LED which lights to show that exposure compensation is being used.



The thing that really sets the viewfinder apart is the built-in frame counter, which enables the photographer to keep track of film while watching the subject through the viewfinder. A red warning mark appears to indicate the end of the film.

- 1 Aperture display
- 2 Microprism collar
- 3 Split-image center spot
- 4 Built-in frame counter
- 5 Exposure compensation indicator LED
- 6 LED Flash data indicator
- 7 LED shutter speed indicator
- 8 Shutter-speed scale



## Dual-mode Metering Backed by Quartz Control

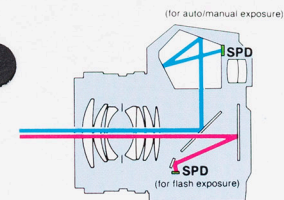
To assure maximum metering accuracy under any situation, the Contax 137 MD Quartz is equipped with two independent exposure metering systems. Both systems use ultra-sensitive, quick-response SPD (Silicon Photo Diode) sensors—one to meter in the usual way for normal photography from 11 sec. to 1/1000 sec., and another located on the floor of the mirror box to meter flash output right at the film plane. When the Contax TLA-20 Auto Flash is used, the camera automatically sets the shutter speed to the

sync speed of 1/60 sec, and controls the flash output in accordance with the lens aperture selected.

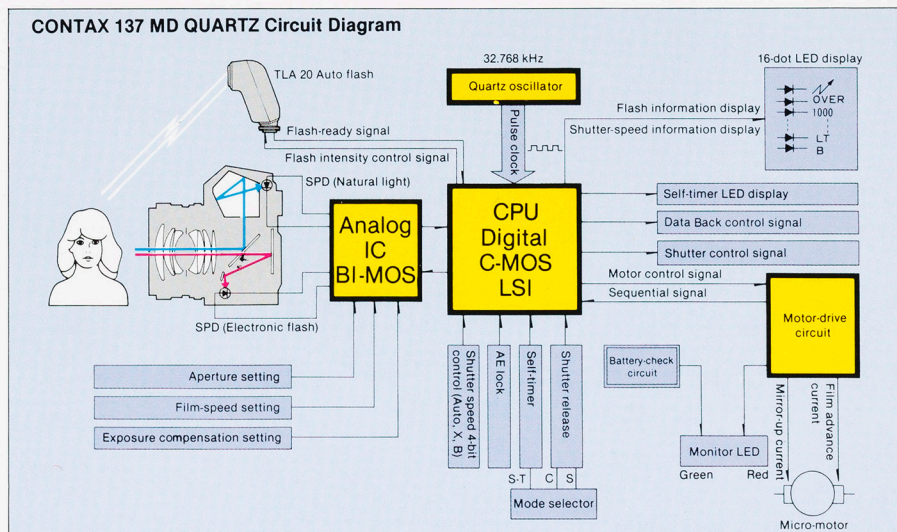
The SPD sensors used in both exposure systems are highly rated for the fast, accurate response required by

modern automatic cameras, especially with motor-drive capability. Even in rapidly fluctuating light conditions, these SPD sensors react instantaneously to assure correct exposure values at all times.

Input from the SPD sensors, aperture setting, film speed and exposure compensation settings are first processed by a Bi-MOS analog IC and sent to the CPU. The CPU then determines exposure and considers such factors as whether or not the AE Lock, self-timer, etc. are being used, and coordinates camera operation on the basis of the clock pulses from the quartz oscillator. The result is camera operation which is not only more accurate but more uniform as well.

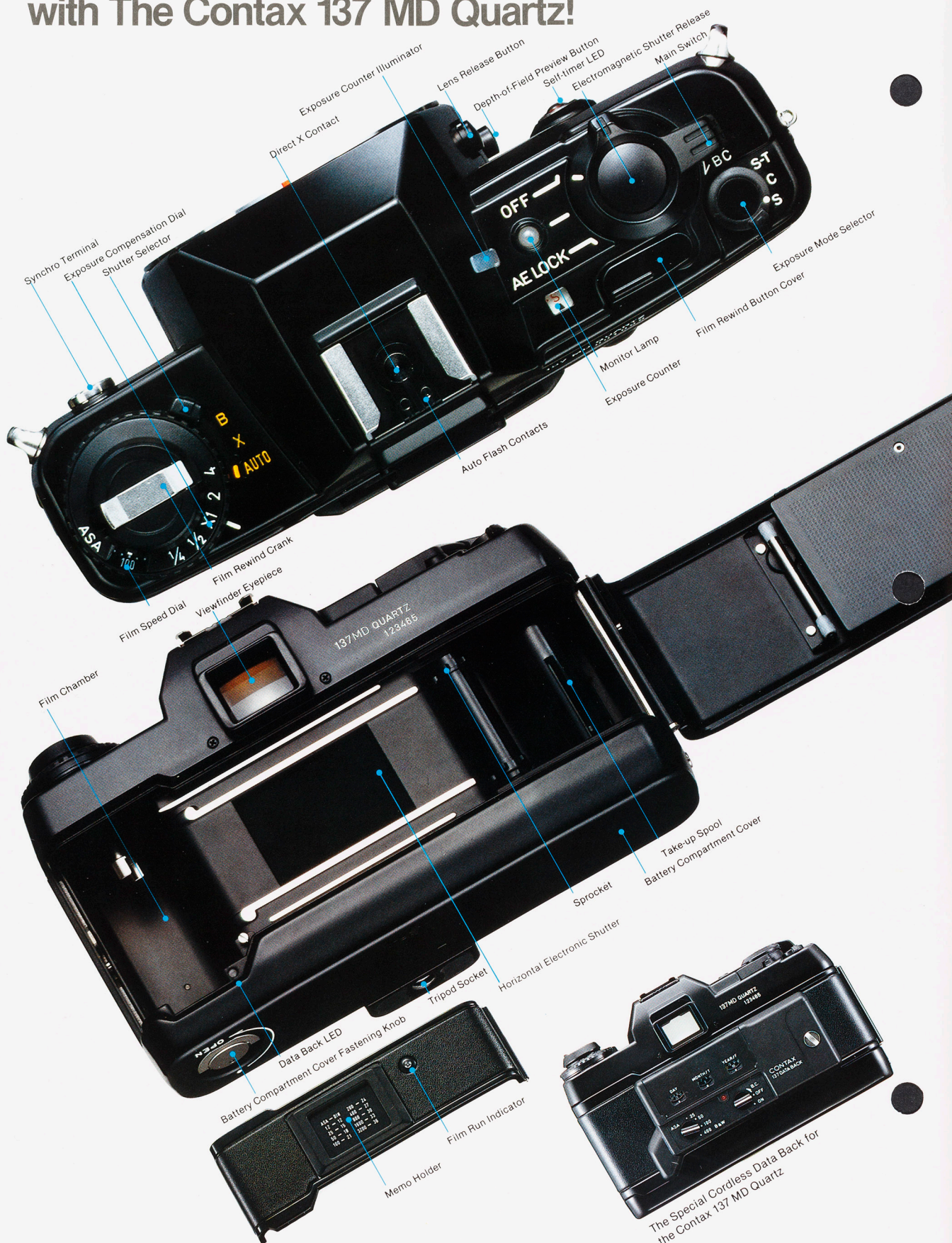


Shown above are the light pathways for the two independent exposure metering systems of the Contax 137 MD Quartz. An arrangement which ensures maximum accuracy.





# Real One-Finger Operation is Here Again.... with The Contax 137 MD Quartz!

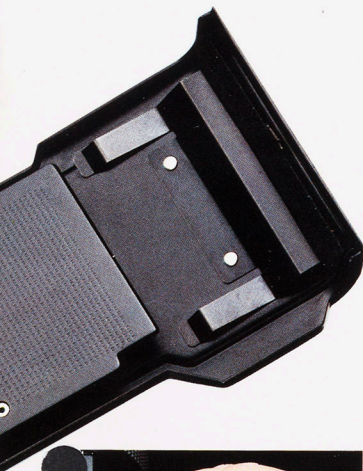






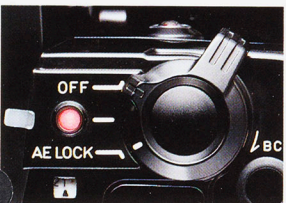
### Main Switch

The first step in using the Contax 137 MD Quartz is to turn on the Main Switch. This single control turns on the viewfinder display, activates the exposure and motor-drive systems and prepares the camera for instant use. As soon as the Main Switch is turned on, the Monitor Lamp lights red to indicate the camera is ready to go. There are also positions for AE Lock, Battery Check and Off.



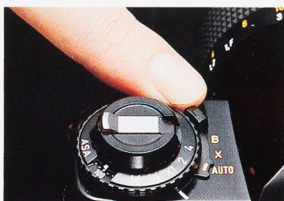
### Monitor Lamp

The LED Monitor Lamp, an exclusive feature of the Contax 137 MD Quartz, has a wide range of uses. Besides lighting red to indicate that the camera is in operating condition, it also flashes when a roll of film ends to indicate that the power has been automatically turned off. This LED also flashes as a safety warning in case the shutter or mirror should be obstructed to indicate that the power has been turned off to prevent any possible damage. When the Main Switch is moved to the BATTERY CHECK position, the Monitor Lamp lights green when the batteries are still providing energy.



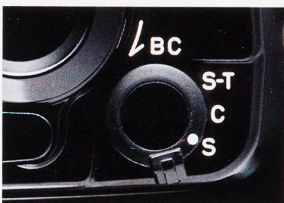
### AE Lock

Setting the Main Switch to the AE Lock position locks in the shutter speed indicated at that time. As many exposures as desired can then be made, even at different apertures, as long as the AE Lock is activated. To release the AE Lock, just return the Main Switch to the ON or OFF position.



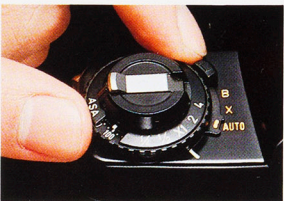
### Shutter Selector

Next, the dial on the left side of the camera top can be set according to the type of photographs to be taken. The "AUTO" position is for normal photography with aperture-preferred automatic exposure control. For exposure times longer than those available with the AE system, the "B" position is used. And, for flash photography with units other than the Contax TLA-20 Auto Flash, the "X" position is selected to obtain the flash sync speed of 1/60 sec.



### Mode Selector

The Mode Selector, located on the right side of the camera top, is used to select single-frame (S) or continuous (C) operation of the built-in motor-drive. There's also an S-T position for activating the built-in electronic self-timer. To use the self-timer, set the Mode Selector to the "S.T." position and press the shutter release when ready. The self-timer LED on the front of the camera and the Monitor Lamp will flash in unison to show that the self-timer is operating, accelerating during the last 2 seconds to warn that the shutter is about to be released.



### Exposure Compensation Dial

Exposure compensation is easy with the Contax 137 MD Quartz using the Exposure Compensation Dial located around the rewind crank on the left end of the camera top. Settings are possible up to  $\pm 2\text{EV}$ , equal to two full f-stops, to enable the proper compensation of a wide range of difficult conditions. Output of the Contax TLA-20 Auto Flash can also be varied.



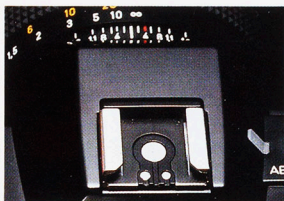
### Electronic Self-timer

An accurate 10-second delay is obtained by setting the Selector Switch to the S-T (self-timer) position. When the shutter release is pressed, the self-timer LED flashes in unison with the Monitor Lamp, accelerating during the last 2 seconds as a warning.



### Electromagnetic Shutter Release

Like all of the other Contax cameras, the 137 MD Quartz features a feather-light electromagnetic shutter release. The light but positive action helps to eliminate camera shake so photographs are sharper.



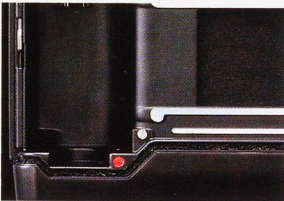
### Hot-shoe for Dedicated or Regular Flash

The hot-shoe of the Contax 137 MD Quartz has terminals for using the dedicated Contax TLA-20 Auto Flash for fully automatic flash operation. Other flash units can also be used in accordance with their individual methods of operation.



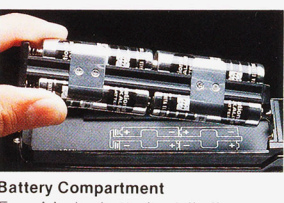
### Release Socket

A secure threaded release socket is provided on the left side of the lens mount of the Contax 137 MD Quartz. System accessories such as cable switches and others can be connected here for a wide range of interesting and useful applications.



### Data Back LED

When the Data Back is used, an LED built into the back of the 137 MD Quartz flashes to record the data on the film. Adjustment is provided for film speed.



### Battery Compartment

Four AA-size batteries (alkaline, alkaline-manganese or Ni-Cd) provide full power for the Contax 137 MD Quartz. They fit into a battery case in the detachable bottom cover, and can only be inserted in the proper manner for operating safety. One set of alkaline batteries can power up to 50 36-exposure rolls of film.



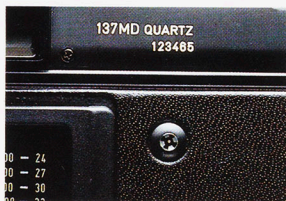
### Contax/Yashica Mount

The 3-claw Contax/Yashica bayonet has a large 48mm diameter. And lenses can be mounted or dismounted with a short 72° turn. This rugged mount resists the hardest use while offering the photographer the satisfaction of using the superb Carl Zeiss T\* optics.



### Rewind Button

The rewind button is located under a pivoted cover just behind the Main Switch. Once this button is pressed, the film can be wound to the end with the rewind crank without further attention. This button can also be utilized for multiple exposures by turning the rewind crank until the film is stretched tight, pressing the rewind button and making the exposure. The frame will stay perfectly aligned for the next exposure. This process can be repeated as many times as desired.



### Removable Back

Lightly pressing the release is all that's necessary to remove the back of the Contax 137 MD Quartz for attaching the Data Back in its place. The regular back is also provided with a Film Run Indicator which spins to indicate that the film is moving properly, either forward or backward. Extremely convenient for checking film advance or rewind.



### Film Speed Dial

Film speed can be easily set by lifting and rotating this simple dial. The range is a wide ASA12-3200.





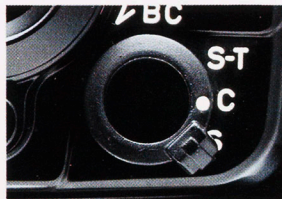
*Taken with Contax 137  
MD Quartz body and Tele-Tessar  
T\* f/4 300 mm,  
using continuous motor drive  
operation.*



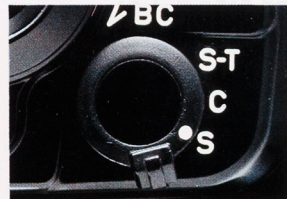


Mode 1: AE Operation  
(Single-Frame or Continuous)

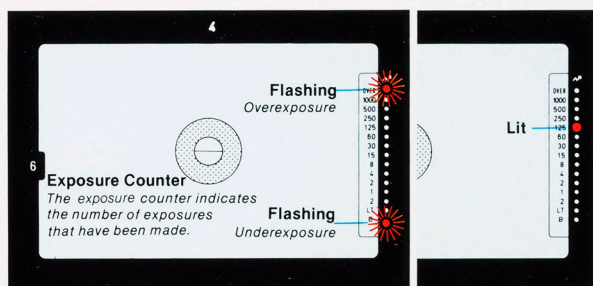
## Pull Out All The Stops and Stay on Top of The Action



Mode Selector Set at the "C" position for continuous operation.



At the "S" position, a single frame is exposed each time the release button is pressed.



Exposure will be correct as long as one of the LEDs between LT and 1/1000 sec. is lit. Underexposure is indicated when the "B" LED flashes; and overexposure when the "OVER" LED flashes.

For continuous AE photography with the Contax 137 MD Quartz, just turn the Main Switch "ON", set the Mode Selector to "C" (for continuous) and the Shutter Selector to "AUTO." The camera will then fire at the rate of 2 frames per second as long as the shutter release is held down. And the quartz controlled automatic exposure system will make sure that each and every frame is correctly exposed, even when light conditions change continuously.

This mode is useful for numerous shooting situations. For example, fast moving sports where the ability to respond continuously and instantly mean the difference between an ordinary shot and a great one. Fashion and other types of photography using models are easier in this mode. The model flows from one pose to another while the photographer makes a continuous record for later selection. Also great for photographing children, animals and many other restless, moving subjects.

Both tests and experience have shown that while continuous shooting with a motor-drive is useful for action, it doesn't always guarantee the best results. In short, the decisive factor is still the photographer's personal judgement of when the peak of the action will occur, or when that "decisive moment" will appear.

The single-frame mode of the Contax 137 MD Quartz, coupled with the instant-response metering system, keeps the photographer always ready for those outstanding opportunities. There is no need to wind the film manually or to check exposure values. All of this is handled automatically by the camera. The photographer is left free to concentrate on getting those great pictures, whenever they occur.

This is also the most frequently used mode for normal shooting, offering the convenience of fully automatic, carefree operation without the need to make bothersome settings that can better be left to the camera.





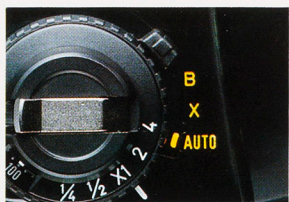




Contax TLA-20 Auto Flash used with Contax 137 MD Quartz body and Planar T\* f/1.7 50 mm.

## Mode 2: AE Electronic Flash Photography

# Independent Flash Exposure Metering Provides Abundant Possibilities



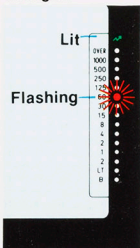
The Shutter Selector set to the "AUTO" position for flash sync with the TLA-20 Auto Flash.

Before fully charged



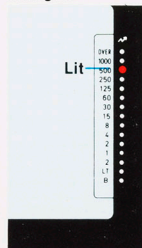
Shutter speed for AE photography.

After flash charged



(\*) mark flashes to confirm correct flash exposure.

Before fully charged

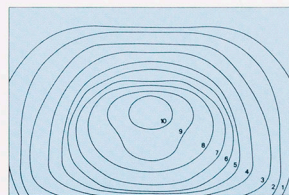


Shutter speed for AE photography.

After flash charged



(\*) mark flashes after proper exposure. When "OVER" flashes, smaller aperture must be used.



The center-weighted, averaged metering pattern of the SPD sensor used for flash photography prevents undue influence from peripheral lighting, concentrating primarily on the subject.

The independent flash exposure metering system of the Contax 137 MD Quartz opens the doors to an enormous variety of possibilities. When the Contax TLA-20 Auto Flash is used, the shutter selector is left in the "AUTO" position. As soon as the unit is fully charged, the shutter speed is automatically set to the flash sync speed of 1/60 sec. and flash output will be controlled in accordance with aperture setting. There are no adjustments to make.

Another major advantage of this system is the TLA Extension Cord 100, used to connect the TLA-20 and the Contax 137 MD Quartz. This enables the flash unit to be

used at any position for improved lighting or special effects. Even so, the independent flash exposure system of the camera controls the flash output to assure correct exposure. The flash can be aimed directly at the subject, or bounced from walls, ceiling or other surface. In any case, exposure is always correct.

This capability also allows the Contax 137 MD Quartz and Contax TLA-20 Auto Flash to be used for extreme close-ups using macro lens or bellows. Or for copying slides using the Contax slide copier. And without the bother of calculating exposure values.

Other flash units can also be used, but the shutter selector must be manually set at the "X" position to obtain the 1/60 sec. flash sync speed. Operation after that is in accordance with the operating instructions of the flash unit used.

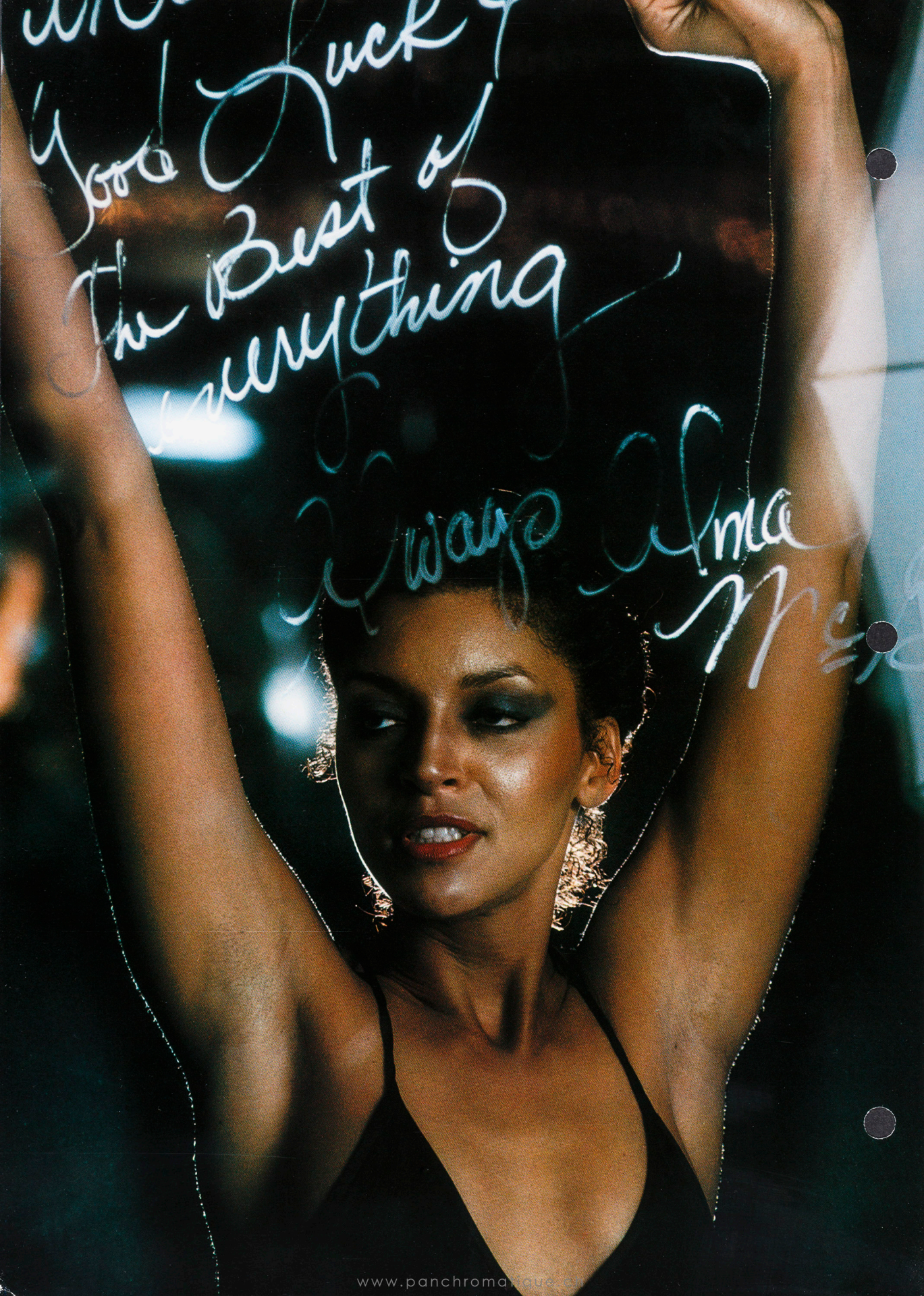


### TLA-20 Auto Flash Unit Specifications

- **Control system:** automatic flash adjustment, series control.
- **Guide Number (ASA 100·m):** Auto: 4—20; Manual: Hi: 20; Lo: 2.8
- **Recycle time:** 3—6 secs., (Fast recycle at Lo for synch with winder).
- **Power source:** Four 1.5 V AA size batteries.
- **Angle of coverage:** 60° horizontal, 45° vertical (covers field of view of 35 mm lens). With wide-panel: 76° horizontal, 58° vertical (covers field of view of 24 mm lens).
- **Dimensions:** 66 (W) × 100 (H) × 71 (D) mm. (2<sup>5</sup>/<sub>8</sub> × 3<sup>15</sup>/<sub>16</sub> × 2<sup>13</sup>/<sub>16</sub> in.)
- **Weight:** 180 grams, (6.4 ozs) without batteries.

Wide-panel and Extension Cord 100





Good Luck  
The Best of  
everything

Always I'ma  
Me





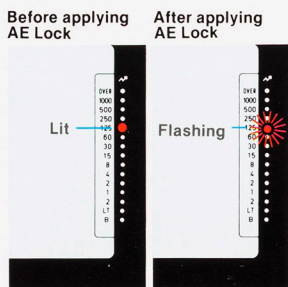
Photo taken with Contax 137 MD Quartz body and Sonnar T\*1/2.8 180 mm, using the AE Lock.

### Mode 3: Personal Control with AE Lock

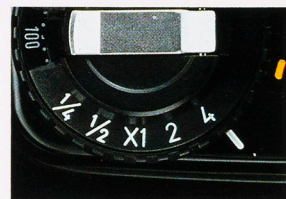
## Have Things Your Own Way with AE Lock Operation



The Main Switch, showing OFF, ON (LED) and AE Lock positions.



Highly advanced techniques are possible by using the Continuous AE Lock for flash photography with the Contax TLA-20 Auto Flash. For example, a shutter speed of 1/8 sec. was set using the AE Lock, and the aperture set accordingly, in order to capture the full effect of the background. The TLA-20 output adjusted automatically to the aperture, so both subject and background are properly exposed. The Contax 137 MD Quartz also has an Exposure Compensation Dial which can be set to from 1/4X to 4X for further adjustment of flash output. An LED inside the viewfinder lights when this dial is in use.



Exposure Compensation Dial provides a compensation range of from 1/4X to 4X.

### Exposure Compensation Dial

A  $\pm 2\text{EV}$  exposure compensation dial is provided on the left side of the top of the Contax 137 MD Quartz. Turning this one simple control enables exposure values to be compensated up to  $\pm 2\text{EV}$ . This feature enables the photographer to control high-lights or shadow detail with exact precision. Or intentional over- and under-exposures can be used to create high- or low-key effects of great beauty.

Output of the Contax TLA-20 Auto Flash can also be controlled with the exposure compensation dial.

An LED inside the viewfinder lights as a reminder that exposure compensation is being used, so that errors do not occur.

When you want to have things your own way, photographically speaking, the AE Lock function of the Contax 137 MD Quartz is just the ticket. Perhaps the most common usage is moving in close to backlit subjects to take an exposure meter reading, locking it in with the AE Lock and returning to the original position for correct rendition of the subject in spite of the adverse lighting conditions.

But opportunities are not limited to this alone. Any desired shutter speed can be selected by rotating the lens aperture ring until the target LED lights, then moving the Main Switch to the AE Lock position to lock it in. The aperture can then be freely moved to any value without affecting the shutter speed. This capability can be utilized for obtaining high- or low-key effects through intentional over- or under-exposure. The AE Lock of the Contax 137 MD Quartz can also be locked on for continuous operation. Useful for situations where the subject is under constant illumination but the background lighting changes, as in theatrical photography.

In this case, the AE Lock can be applied to obtain correct exposure for each frame, regardless of changes in peripheral lighting. This feature is also useful where the subject is being photographed from various angles, in both horizontal and vertical formats, or with a zoom lens at various focal lengths. Exposure values, which would otherwise vary considerably, can be kept constant with the AE Lock. For applications such as copying of documents, the AE Lock can be used to lock in a standard exposure value in order to obtain correct results. The AE Lock is also highly convenient for flash photography as well. Full charging of the Contax TLA-20 Auto Flash automatically sets the shutter speed to the flash sync speed of 1/60 sec. But in fill flash applications, a slower shutter speed is sometimes required for correct exposure of the background. This can be realized by locking in the desired shutter speed before turning the flash on.







# Discover The Mini-World of Close-up Photography

Two options are open to the photographer interested in exploring the mini-world of close-up photography. One is a macro lens: in the Carl Zeiss S-Planar T\* 60 mm f/2.8 Macro, which delivers outstandingly sharp photographs with perfect color rendition.

Another option is the Contax Auto Extension Bellows PC. A variety of Carl Zeiss lenses can be used, either forward or reverse mounted, for a variety of magnification ratios but the S-Planar T\* f/4 100 mm Bellows Lens was created especially for such applications. Reverse mounting is easily performed by merely rotating the front standard of the bellows unit. This bellows unit also incorporates front shifts and swings for perspective control with tiny subjects. Another feature is the automatic diaphragm stop-down when exposures are made, allowing easy focusing without the bother of manual stop-down each time a photograph is taken.



And large magnification ratios are easily obtained. Up to life-size with the Macro Lens and even larger with the Bellows Lens in combination with the Auto Extension Bellows PC.

Other new possibilities in close-up photography can be explored by adding electronic flash, or remote control accessories, and automatic film advance. Even long series of shots can then be taken of shy subjects which otherwise would be unapproachable.

A convenient Macro Stand is also available for photographing small subjects that are normally hard to position. Such subjects are held securely in place on the stage glass, which also rotates for easy positioning.



S-Planar T\* f/2.8 60 mm Macro Lens



S-Planar T\* f/4 100 mm Bellows Lens

# No Possibility is Too Remote with The Contax 137 MD Quartz

The Contax 137 MD Quartz is fully compatible with the Contax remote control accessories. Included are the Infrared Controller S Set, a unit which enables the photographer to operate the camera from distances of up to 20 meters by merely pressing the release button of the set. The infrared sensor is mounted on the camera hot-shoe and can be set at any angle.



Infrared Controller S Set



Radio Controller Set

For greater distances, the Radio Controller Set is available. This unit has two channels, so up to two cameras can be operated alternately or simultaneously from distances of up to 300 meters. Both units are excellent for wildlife photography, candid photography and many other unique applications.

The 137 Power Pack Set comprises the Power Pack Adapter which fits in place of the regular camera base plate, and the Power Pack with Jacket and Cord. Useful to keep batteries warm for more reliable operation in cold weather, or for fast battery changes under hard working conditions.



137 Power Pack Set including Power Pack with 1.5 m Cord, Battery Case, Jacket and Adapter.

Automatic exposure using Contax 137 MD Quartz body and F-Distagon T\* f/2.8 16 mm.



Automatic exposure using Contax 137 MD Quartz body and Distagon T\* f/4 18 mm.



## Contax 137 MD Quartz Specification:

• <b>Type:</b>	Real Time Direct Drive 35 mm single-lens reflex camera with aperture-preferred automatic exposure and direct TTL auto-flash control.	• <b>Viewfinder Display:</b>	LED-dot display of shutter speeds, exposure compensation, flash-ready (also indicates if subject is within flash range), over/under-exposure. Shutter speed LEDs flash to indicate AE Lock operation. Apertures and number of exposed frames indicated numerically.
• <b>Film Format:</b>	35 mm film, 24 x 36 mm.	• <b>Electronic Self-Timer:</b>	Quartz-timed, electronic self-timer with precise 10-second delay. LED flashes to indicate operation, accelerating 2 seconds before shutter is released.
• <b>Lens Mount:</b>	Contax/Yashica large-diameter bayonet.	• <b>Frame Counters:</b>	Besides the normal accumulative type frame counter on the camera body, another is located inside the viewfinder. A red warning appears inside the window of the viewfinder frame counter when the film ends. Both counters reset automatically.
• <b>Standard Lenses:</b>	Carl Zeiss T* f/1.4 50 mm/Carl Zeiss T* f/1.7 50 mm.	• <b>Film Advance:</b>	Fully automatic with Real Time Direct Drive using a single micro-motor. Choice of single-frame or continuous advance at up to 2 frames per second. Automatic stop at film end. Mode selector used to select single-frame or continuous film advance. Includes an S-T position to set the electronic self-timer.
• <b>Shutter:</b>	Horizontally traveling, quartz-timed, electronically controlled cloth focal-plane shutter.	• <b>Film Rewind:</b>	Manual using release button and crank.
• <b>Shutter Speeds:</b>	Continuously variable from LT (11 secs.) to 1/1000 sec. at "AUTO." Shutter remains open as long as release is held down at "B". Shutter set to 1/60 sec. for flash sync at "X".	• <b>Film Run Indicator:</b>	Built into camera back. Rotates to indicate that the film is moving, forward or reverse.
• <b>Shutter Release:</b>	Real Time Electromagnetic Release with quartz-timed operating sequence (operation of mirror, aperture, shutter, film advance) by Real Time Direct Drive. Compatible with Real Time system accessories.	• <b>Back Cover:</b>	Detachable for mounting the Data Back. Memo-holder provided. Opens by pulling up on rewind crank.
• <b>Exposure Control:</b>	Through-the-lens (TTL), center-weighted, averaged metering at full aperture using SPD sensor. EV0 to EV18 sensitivity range at ASA100 with f/1.4 lens. ASA range 12—3200.	• <b>Monitor Lamp:</b>	Indicates normal camera operation when power is turned on. Lights green for battery checking. Also flashes red when self-timer is used and when safety mechanism is operating.
• <b>Exposure Compensation:</b>	± 2EV by rotating exposure compensation dial.	• <b>Power Source:</b>	Four 1.5V AA-size penlight batteries housed in camera base. Ni-Cd, alkaline-manganese batteries can be used. External Power Pack also available for use in cold weather.
• <b>Main Switch:</b>	Turns camera on and off, activates the AE Lock and battery checker.	• <b>Body Construction:</b>	Aluminum die-casting.
• <b>AE Lock:</b>	A built-in memory circuit holds any desired shutter speed. Convenient for compensating difficult lighting situations or for special effects. Can be locked on for continuous operation at a fixed exposure setting.	• <b>Dimensions (W x H x D):</b>	143 x 92.5 x 51 mm. (5.6 x 4.5 x 2 in)
• <b>Flash Exposure Control:</b>	Direct TTL metering at film plane by SPD sensor with the Contax TLA-20 Auto Flash. Output is automatically regulated at any aperture. Shutter speed automatically set to 1/60 sec. when the TLA-20 is fully charged. Set to "X" position for other flash units.	• <b>Weight:</b>	665 grams (with batteries). (23.5 oz)
• <b>Flash Synchronization:</b>	Both hot-shoe and X-terminal connections are provided.	• <b>Accessories:</b>	Eveready case, data back case, front covers wide, 85, 135 and 200. Contax TLA-20 Auto Flash, External Power Pack Set, RTF540 Electronic Flash, Infrared Controller S set and other Contax Real Time accessories.
• <b>Viewfinder:</b>	Silver-coated, eye-level, pentaprism type with fixed split-image/microprism collar focusing screen. Shows 95% of actual picture area at a magnification ratio of 0.86X with a 50 mm lens.		

## Interchangeable Carl Zeiss T\* (T-Star) Lenses

Lens	Composition	Angle of View	Min. Focus (m) (ft.)	Aperture Range	Filter (screw-in)	Lens-Hood (slip-on)	Size (mm)	Weight (gram)
F-Distagon T*/f/2.8 16mm	8-7	180°	0.3 1	f/2.8 ~ 22	Built-in	—	70 x 61.5	460
Distagon T*/f/3.5 15mm	13-12 $\Phi$	110°	0.16 6 in	f/3.5 ~ 22	Built-in	—	83.5 x 94	815
Distagon T*/f/4 18mm	10-9 $\Phi$	100°	0.3 1	f/4 ~ 22	86mm (with 70/86 Ring)	—	70 x 51.5	350
Distagon T*/f/2.8 25mm	8-7	80°	0.25 10 in	f/2.8 ~ 22	55mm	59mm No. 2	62.5 x 56	360
Distagon T*/f/2 28mm	9-8 $\Phi$	74°	0.24 10 in	f/2 ~ 22	55mm	59mm No. 2	62.5 x 76	485
Distagon T*/f/2.8 28mm	7-7	74°	0.25 10 in	f/2.8 ~ 22	55mm	59mm No. 2	62.5 x 50	280
Distagon T*/f/1.4 35mm	9-8 $\Delta \Phi$	62°30'	0.3 1	f/1.4 ~ 16	67mm	70mm	70 x 76	540
Distagon T*/f/2.8 35mm	6-6	62°	0.4 1.5	f/2.8 ~ 22	55mm	59mm No. 1	62.5 x 46	245
PC-Distagon T*/f/2.8 35mm	9-9 $\Phi$	63° (83°)	0.3 1	f/2.8 ~ 22	67mm	—	70 x 85.5	725
Planar T*/f/1.4 50mm	7-6	45°	0.45 1.5	f/1.4 ~ 16	55mm	59mm No. 1	62.5 x 41	275
Planar T*/f/1.7 50mm	7-6	45°	0.6 2	f/1.7 ~ 16	55mm	59mm No. 1	61 x 36.5	190
Planar T*/f/1.4 85mm	6-5	28°30'	1 3.5	f/1.4 ~ 16	67mm	70mm	70 x 64	595
Sonnar T*/f/2.8 85mm	5-4	27°30'	1 3.5	f/2.8 ~ 22	55mm	59mm No. 1	62.5 x 47	255
Planar T*/f/2 100mm	6-5	24°30'	1 3.5	f/2 ~ 22	67mm	70mm	70 x 84	670
Planar T*/f/2 135mm	5-5	18°30'	1.5 5	f/2 ~ 22	72mm	—	75 x 101	830
Sonnar T*/f/2.8 135mm	5-4	18°30'	1.6 5.5	f/2.8 ~ 22	55mm	Built-in	68.5 x 93	585
Sonnar T*/f/2.8 180mm	6-5 $\Phi$	14°	1.4 5	f/2.8 ~ 22	72mm	Built-in	82 x 131	990
Tele-Tessar T*/f/3.5 200mm	6-5	12°40'	1.8 6	f/3.5 ~ 22	67mm	Built-in	77.5 x 121.5	750
Tele-Tessar T*/f/4 300mm	5-5	8°15'	3.5 11.5	f/4 ~ 32	82mm	Built-in	94 x 205	1,720
Mirotar f/4.5 500mm	5-5	5°	3.5 11.5	—	Slide-in type	—	151 x 225	4,500
Mirotar f/5.6 1000mm	5-5	2°30' (4°30')	12 39.4	—	Slide-in type	—	250 x 470	16,500
Vario-Sonnar T*/f/3.5 40 ~ 80mm	13-9	55° ~ 31°	1.2 4	f/3.5 ~ 22	55mm	59mm No. 1	67 x 87	605
Vario-Sonnar T*/f/3.5 70 ~ 210mm	15-12	33° ~ 12°	1.8 6	f/3.5 ~ 22	67mm	70mm	77 x 186	1,145
S-Planar T*/f/2.8 60mm (Macro)	6-4	39°	0.24 9 1/2 in	f/2.8 ~ 22	67mm	70mm	75.5 x 74	570
S-Planar T*/f/4 100mm (Bellows)	6-4	24°30' (33°)	M1.4:1 (Max.)	f/4 ~ 32	55mm	59mm No. 1	62.5 x 48.5	285

$\Delta$  Aspherical lens element  $\Phi$  Floating element

All Contax camera bodies, lenses and major accessories carry an INTERNATIONAL WARRANTY honored all over the world.

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\*Specifications and design are subject to change without notice.

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