

CONTAX

Integral Motor Drive System

137

MA QUARTZ



Contax 137MA Quartz

A Whole New Way To Translate Your



The development concept of the Contax 137MA Quartz is deceptively simple to put into words: "A professional quality Single-Lens Reflex camera with integral motor drive, accepting the full range of Contax Real Time System accessory equipment."

It took the extraordinary design capabilities and quality production techniques of Contax, however, to produce a 35mm

SLR camera that actually meets this concept, and even transcends it to produce a photographic 'experience' that melds photographer and image into a single whole.

The integral motor of the Contax 137MA Quartz is a marvel of both engineering design and production reliability. Small enough to fit inside a camera body that can accurately be classified as 'compact' for 35mm SLRs, the motor powers the mechanical movements and film advance for single-frame and continuous operation at a maximum rate of fully three frames-per-second. This is as fast a rate of advance as offered by many add-on motor drive units for other cameras. The motor is also exceptionally light, allowing the complete camera body to weigh in at only 610 grams.

Professional quality, at Contax, carries a lot of weight. For a Contax camera to be considered professional, it must maintain standards of accuracy and performance far beyond those accepted for

other cameras. All Contax models, for example, must operate in Real Time, the Speed of Light. This provides both adaptability to the uniquely diverse Real Time System of accessories and instantaneous reaction to the photographer in order to guarantee exposure of the film at precisely the moment desired.

When it comes to exposure, only total precision is acceptable in a Contax. That's why the Contax 137MA Quartz features Silicon Photo Diode (SPD) cell metering, for immediate and accurate response to even the most difficult lighting situations. The photographer has the option of Manual or AE modes for exposure control, both featuring the penultimate accuracy of Quartz Crystal Timing for precise, stable shutter speeds right up to 1/1000th of a second. Quartz control of all other time-related camera operations, as well, insures greater reliability and durability in overall camera performance.

One further vital capability that was part of the Contax 137MA Quartz design



Contax 137 MA Quartz body with
Planar T* f/2 135 mm lens &
Contax 137 Power Pack Set

Images Into Realities



concept is full compatibility with the advanced Contax TLA Auto Flash System. Thus, The Contax 137MA Quartz features a second SPD metering cell to provide Through-The-Lens metering of flash exposures, along with dedicated circuitry for use by the 'Fail-Safe' system of flash/shutter synchronization. With Contax system flash units like the TLA20, TLA30 and RTF540, TLA capability insures perfect flash results, indoors or out, studio or candid.

The capabilities and performance of the Contax 137MA Quartz make it a camera that cannot really be compared; one that has no true peers. When it comes to turning images into realities, the Contax 137MA Quartz is a whole new chapter in photographic history.

Contax 137 MA Quartz body with
Planar T* f/1.4 50 mm lens &
TLA 30 Electronic Flash



Contax 137 MA Quartz body with
Data Back Quartz D-5.

Exciting Action Photography

AE Mode Operation---Single-Frame Or Continuous

"To highlight a shot of the 'tag' at home plate, I wanted a good shot of the action just a second before. This is a sort of 'prequel' photo possible only with auto advance."

The easiest way to use the Contax 137MA Quartz for superb action photography is by setting the camera for AE Mode operation. Just turn the shutter dial selector to the AUTO position, and turn on the Main Switch. That's all it takes to be ready for instant action.

Finder Information:

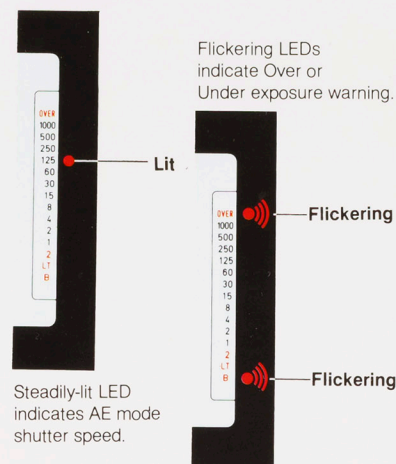
Inside the viewfinder of the Contax 137MA Quartz is an advanced LED display system that provides full information on camera status. Dot LEDs show the AE Mode shutter speed, from LT (Long Time) 11 sec. to 1/1000 sec., while an optical window display shows the aperture setting above the frame. If light conditions are too bright or too dim for the aperture, OVER and B warnings indicate the need for a different aperture selection.

This finder display comes on automatically for 10 seconds when the Main Switch is turned on. It cuts off automatically, to preserve battery power, but can be reactivated by a light touch on the shutter release button.

Other information provided by the viewfinder display includes: AE Lock use, Exposure Compensation use, film supply, TLA Flash status (and exposure determination in Manual Mode).

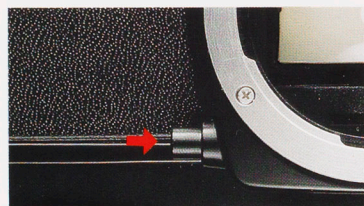
Depth-of-Field Preview:

Since AE Mode operation is often used when the photographer requires precise control over the aperture setting, the Contax 137MA Quartz offers a handy preview of the depth-of-field provided by the lens at the aperture in effect. Just press in the Depth-of-Field Preview Button at the base of the lens mount, and the diaphragm will immediately close down to the set aperture. Then, the photographer can tell precisely how much depth-of-field will be available, and adjust aperture to keep exactly the



Steadily-lit LED indicates AE mode shutter speed.

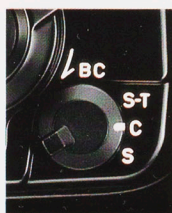
required area of the total scene in pinpoint focus. This depth-of-field preview capability is particularly useful in sports action, allowing the photographer to "pre-focus" on a given section of the field where fast action is likely to occur.



Depth-of Field Preview Button

Single-Frame/Continuous Selection:

Fast action response is the biggest strongpoint of the Contax 137MA Quartz's integral motor. A special Mode Selector switch offers three settings for Single-Frame, Continuous or Self-Timer operation. Continuous mode provides a maximum firing rate of three frames-per-second at high shutter speeds. One frame is exposed each time the shutter release is pressed in Single-Frame mode; while the Self-Timer provides a precise, Quartz-timed 10-second delay.



Mode Selector



Taken with Contax 137 MA Quartz body, Contax Data Back Quartz D-5 and Sonnar T* f/2.8 135mm at full aperture, using automatic exposure, continuous motor drive operation.





Sophisticated Electronic Aids Provide Pinpoint Exposure Control

Professional-level photography demands absolute accuracy in exposure. Even the slightest variation from optimum can mean the ruin of a professional photograph. That's why the Contax 137MA Quartz provides two means of varying exposure factors in order to enhance detail or correct for difficult lighting situations.

AE Lock Operation:

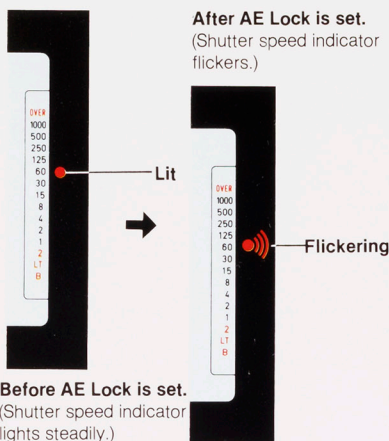
When the Contax 137MA Quartz is used in the AE Mode, the camera itself determines exposure of the film, based on the aperture setting. A shutter speed is selected by the camera's micro-computer to provide just the exposure required by the overall scene, according to the center-weighted metering pattern read by the SPD cell. In difficult lighting situations, however, such as strong back or side lighting, or when just one small section of the overall scene must be perfectly exposed, the photographer can use the sophisticated AE Lock control. Turning the Main Switch to the AE Lock position freezes the AE Mode shutter speed determined by the camera. Until the switch is turned back to its normal On position, all exposures will be made at that shutter speed.

This is uniquely suited to providing delicate exposure shading by means of slight variations in the aperture setting, allowing the photographer to experiment with several slight differences in the exposure



The Main Switch showing AE Lock position, in order to achieve a desired effect. In addition, the AE Lock function can be used to achieve perfect exposure of a small section of the frame, by moving close to that area, locking in the exposure factors and then moving back for the overall shot, and sequence pictures of the subject under the same lighting conditions are possible. When the AE Lock function is in operation, the

viewfinder LED display will show the shutter speed LED indicator flickering, rather than steadily-lit as with normal AE Mode operation.

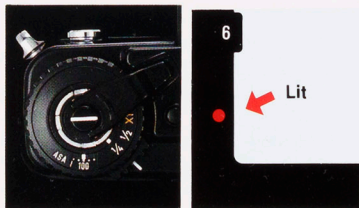


Exposure Compensation System:

Another means of achieving slight variations in exposure with the Contax 137MA Quartz is the built-in Exposure Compensation System. A special dial concentric with the film rewind knob allows the photographer to vary exposures by as much as two aperture settings over or under the standard value ($\pm 2EV$). Thus, the photographer can reduce exposure to 1/2 or 1/4, or increase it to 2X or 4X (intermediate settings are provided)

the amount of light determined by the camera's built-in metering system. This Exposure Compensation use is available in either AE or Manual Mode.

Whenever the Exposure Compensation System is activated, a special red LED in the viewfinder lights as an indicator and reminder to turn the system off after the photograph is taken.



Exposure Compensation Dial



Exposure Compensation at 1/4X



Exposure Compensation at 1/2X



Exposure Compensation at 1X (normal)



Exposure Compensation at 2X



Exposure Compensation at 4X

Versatile Flash Photography With The Contax TLA Auto System

One of the most significant electronic advantages of the Contax SLR photographic system is the unique capabilities of the Contax TLA Auto Electronic Flash System, with its dual advantages of Through-The-Lens metering of flash exposures and 'Fail-Safe' control of flash/shutter synchronization.

Through-The-Lens Flash Metering

The Contax 137MA Quartz incorporates a second SPD metering cell positioned to read flash exposures directly at the film plane. In conjunction with the electronic circuitry of the camera body, this provides for automated cut-off of flash output just as the proper amount of light has been thrown onto the subject. Extremely versatile, the system provides for the use of multiple TLA units, on or off-camera, so as to provide professional-level, studio-type lighting effects from equipment which is extremely portable and easy to use.

'Fail-Safe' Flash/Shutter Synchronization:

The special 'Fail-Safe' flash/shutter synchronization offered by the Contax TLA system means that every photograph will be perfectly exposed, whether or not the flash system was in operation. Sophisticated electronic circuitry inter-

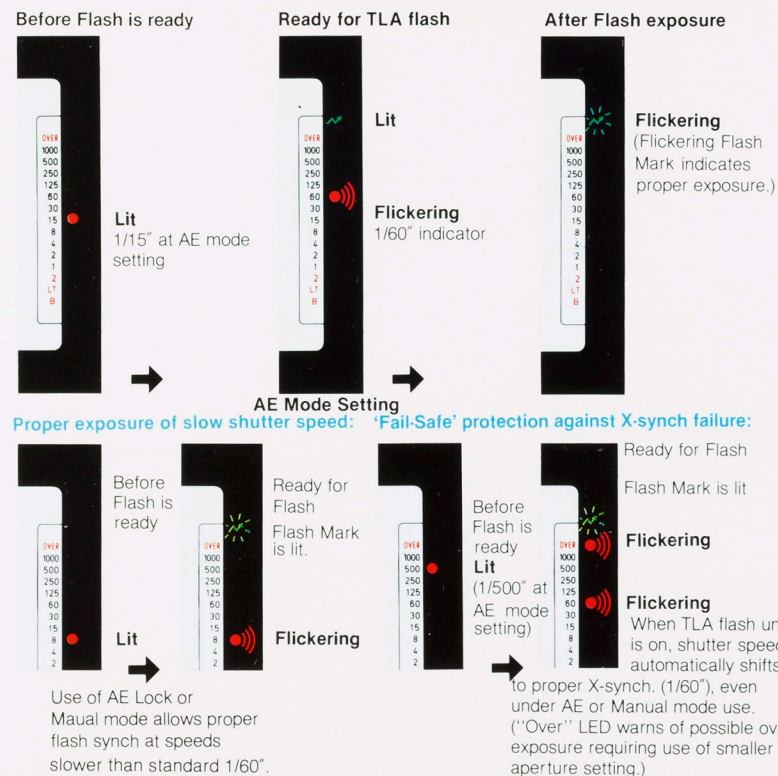
faces the camera body and flash unit, so that a proper X synchronization shutter speed is automatically set whenever the TLA unit is ready to fire. If the flash unit is Off, or in the process of recycling, the camera will revert to a proper non-flash shutter speed. This system works in both AE and Manual exposure modes, setting the maximum X-synch shutter speed of 1/60" automatically whenever required.

Viewfinder Flash Information:

TLA flash use is made even easier by information on flash status provided in the viewfinder. The LED display shows the shifts between X synch and ambient light shutter speeds; displays a green arrow LED to indicate Flash Ready status; and flashes that green arrow as a Confidence Light to indicate accurate flash exposure. Possible Over-Exposure of the scene is indicated by the lighting of the OVER LED, in which case a smaller aperture setting is required.

Synchronizing Slow Shutter Speeds:

Either the AE Lock function or Manual Mode can be employed in order to synchronize TLA flash operation at shutter speeds slower than the maximum 1/60". Slow shutter speeds set by AE Lock or Manual Mode means will be shown in the view finder LED display.



Contax TLA20 Flash used with Contax 137 MA Quartz body and Distagon T* f/1.4 35mm at f/8 aperture, using AE Lock.



"Basically the same photograph, these two shots illustrate the way in which a photographer can utilize the camera's capabilities in order to create two completely different feelings. Daylight fill-flash synchronization brings out vivid color for

a light, happy mood, while allowing the strong backlighting to dominate the scene, without flash, creates a silhouette effect that completely changes the impression created."

Taken with Contax 137 MA Quartz body and Distagon T* f/1.4 35mm at f/8 aperture, using automatic exposure.

Precise Exposure Control Through Completely Accurate Manual Settings



Taken with Contax 137 MA Quartz body and Tele-Tessar T* f/4 300mm at f/5.6 aperture, using manual exposure 1/1000 sec.



www.panchromatique.ch



"Ordinarily I rely on AE mode for exposure, but sometimes it's necessary to control shutter speed completely. This is a good example. In order to get just the effect I wanted, I had to have a shutter speed of 1/1000 sec. This brings out the movement of the river rapids, freezing the water movement to lend a great deal of excitement to the photograph. So here I switched to Manual mode to obtain a steady 1/1000 sec., and was still able to rely on the accurate SPD metering of the camera to obtain perfect exposure results."

Manual Mode Exposures:

Complete Manual Mode control over exposures is provided by the Contax 137 MA Quartz Camera, through a shutter dial incorporating both the Auto setting, and settings for Manual Mode shutter speed from 1" to 1/1000", along with Bulb and X.

Manual Mode speeds are provided for those who want to insure exposure at a particular shutter speed, in order to freeze extremely fast motion, for example.

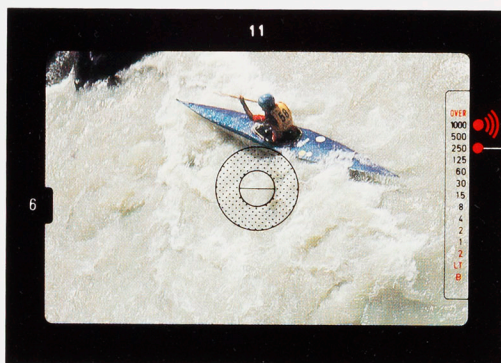
When the Contax 137 MA Quartz is used in Manual Mode, the viewfinder LED display can be employed to determine exposure accuracy, together with the built-in SPD metering system. The actual shutter speed set by Manual control is shown by a flickering LED, while the shutter speed which would provide optimum exposure according to the SPD metering system is shown steadily lit. By adjusting either aperture or shutter speed settings, the photographer aligns these LEDs until only one, flickering, LED is shown in the display and correct exposure can be obtained.



AE Mode setting



Manual Mode setting



Flickering (Manual mode shutter speed)

Lit (Recommended shutter speed)



Lit
(Adjusted for correct exposure)

Remote Operation Potential Through Contax Off-Camera Control System Accessories



Contax Infrared Controller S Set and Contax TLA30 Flash used with Contax 137 MA Quartz body and Distagon T* f/2.8 25mm at f/8 aperture.



"This is a good example of total reliance on sophisticated accessory equipment. The TLA flash provides perfect exposure accuracy while the Infrared Controller let me pick just the right moment."

Two sophisticated accessory systems in the Contax Real Time Photography lineup provide easy access to remote control photography:

Contax Infrared Controller S Set:

At ranges up to about 20 meters, this is the easiest path to full remote control operation of the Contax 137 MA Quartz

camera. Two-channel, 3-mode operation provides for control of more than one camera, while the electromagnetic release system and integral motor of the Contax 137 MA Quartz allow the use of TLA flash and other Real Time accessory equipment simultaneously.

Contax Radio Controller Set:

Employing FM signals, the Radio Controller Set allows remote operation up to 300 meters in distance. Two-channel, 3-mode operation for use of multiple-camera systems, along with full adaptability for additional Real Time System accessories in simultaneous use.

Startling Clarity Of Detail In Close-Up/Macro Photo Applications



Taken with Contax 137 MA Quartz body and S-Planar T* f/2.8 60mm Macro Lens at f/11 aperture, using automatic exposure.

"The versatility of the T* 60mm let me move in tight to get this highly detailed shot that conveys a lot of the power and strength that is so much a part of football. The clarity of the lens shows completely the punishment that the ball takes during a game."

Contax provides a wide range of accessory equipment designed to turn the Contax 137 MA Quartz camera into a versatile, sophisticated system for close-up and macro applications:

Carl Zeiss S-Planar T* (T-star) 60mm Macro Lens:

One of the most versatile and optically

precise lenses ever created the Carl Zeiss T* 60mm Lens provides continuous focusing from infinity to lifesize reproduction (without an extension ring), with a fast maximum aperture and minimal light transmission loss. The perfect lens for bringing out full detail or moving all the way in to achieve fantastic effects.

Real Time System Accessories:

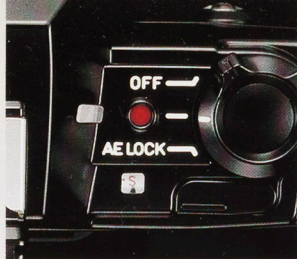
Additional accessory equipment for close-up/macro applications includes the sophisticated Auto Bellows PC and the S-Planar T* 100mm Bellows Lens; Slide Copier, Auto Extension Tubes and the Yashica Medical 100 DX System.





Main Switch

This four-position switch controls the main electronic circuitry of the Contax 137 MA Quartz, with settings Off, On, AE Lock and Battery Check. Turning the Main Switch On activates the viewfinder LED display for 10 seconds, after which the display automatically cuts off to conserve battery power.



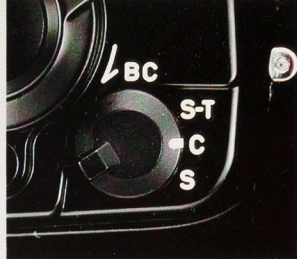
Monitor Lamp

The Monitor Lamp LED lights red to indicate the Contax 137 MA Quartz is On and ready to operate. When the Main Switch is pushed to the Battery Check position, the LED lights green. The Monitor Lamp LED also flashes red to indicate film exhaustion or malfunction of the mirror or shutter mechanisms (power cut-off is automatic), or to indicate operation of the Self-Timer.



Electromagnetic Shutter Release

The standard feather-soft 0.7mm-stroke Contax electromagnetic release provides protection against camera shake and interface potential for Real Time System electronic accessories. Slight pressure on the release reactivates the viewfinder LED data display for 10 seconds.



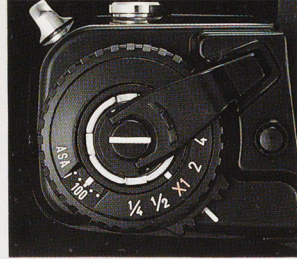
Mode Selector Switch

This three-position switch allows selection of Single-Frame or Continuous operation of the integral motor drive unit, or choice of the Self-Timer with its precise, Quartz-timed 10-second delay.



Shutter Speed Dial

This dial provides settings for AE Mode or Manual Mode shutter speeds (1 sec.-1/1000 sec., B, and X).



Exposure Compensation Dial

Exposure Compensation settings of ± 2 EV, in 1/2EV increments, can be set by this dial, which locks in the X1 setting. This system can be used in AE or Manual Mode, or together with Contax TLA Flash equipment. Operation is indicated by a red LED in the viewfinder.



AE Lock

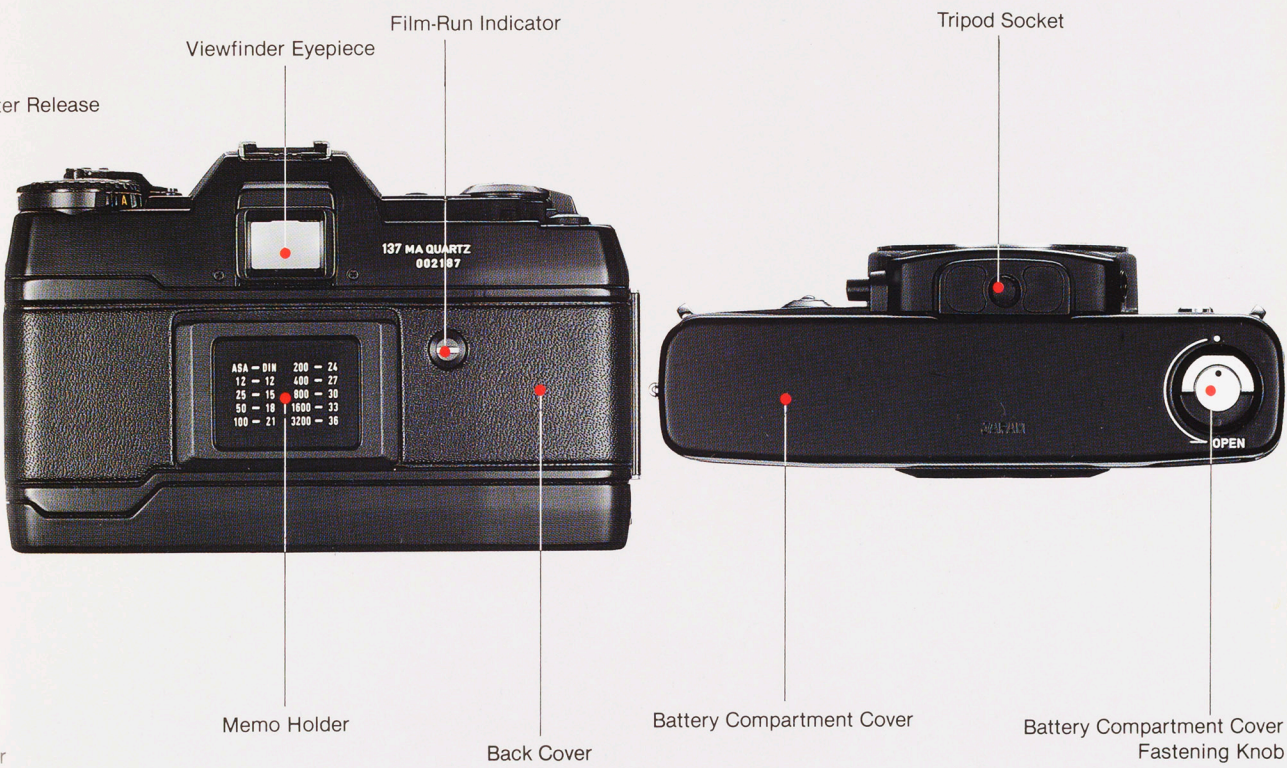
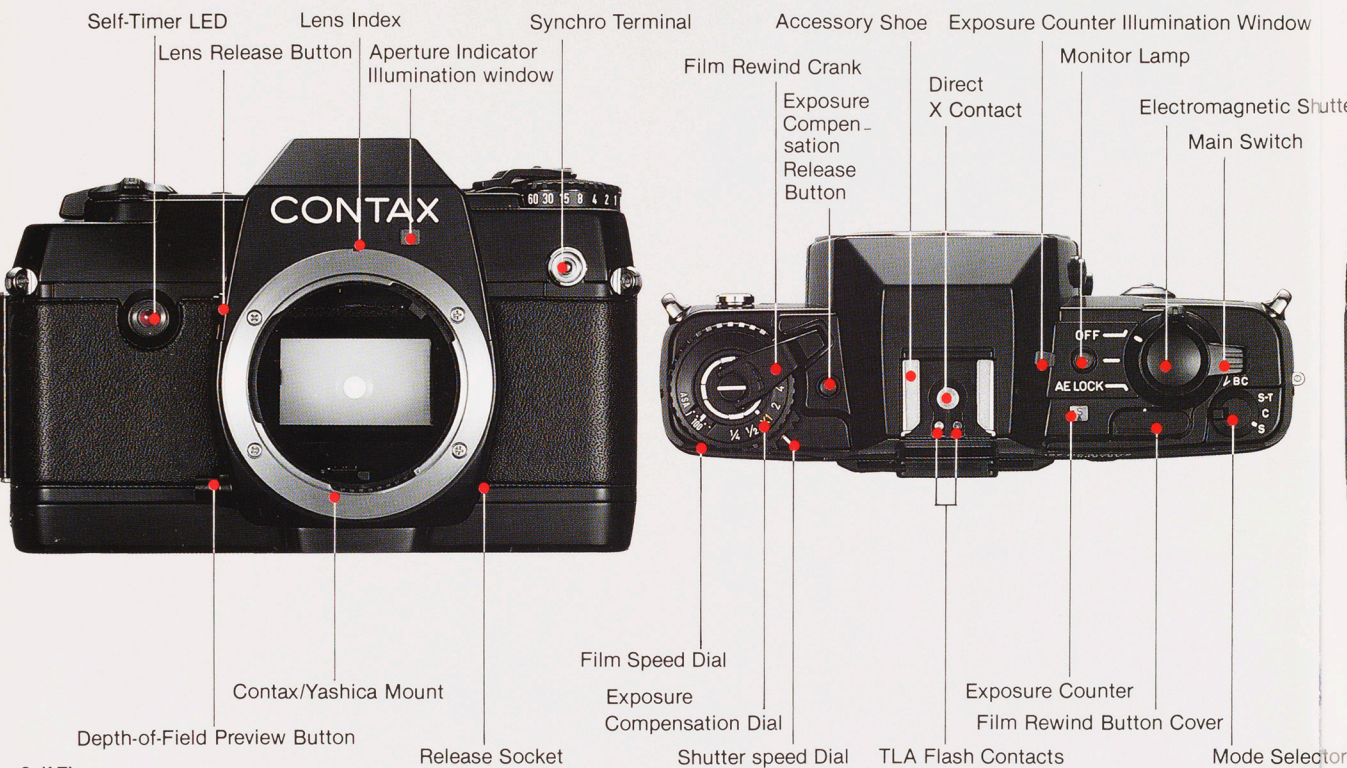
The AE Lock function is activated by turning the Main Switch to the AE Lock position, freezing the camera at the AE-determined shutter speed then effective. The AE Lock remains in effect until the Main Switch is removed from the AE Lock setting.



Film-Run Indicator

A visual, mechanical check on proper run of the film is provided on the back of the Contax 137 MA Quartz, by a small window with a revolving indicator. This indicator shows film movement, either during automated advance or manual rewind.

Simple, Elegant Controls & Functions Compact, Easy-Handling Operations--- Contax 137 MA Quartz



Self-Timer

The Quartz-timed 10-second delay operation of the Contax 137 MA Quartz Self-Timer is indicated by flashing of a red LED on the camera body (Monitor Lamp also flashes), accelerating during the final two seconds. The Self-Timer can be cancelled at any time by changing the Mode Selector setting, or reset for a full 10-second delay by pressing the shutter release once again.

Film Speed Dial

A film speed dial for setting film sensitivity in the range ASA 12 — 3200 is set concentrically around the Film Rewind Knob.

*White index line on top of the knob rotates and indicate proper advance

Accessory Shoe

An accessory hot-shoe on the pentaprism of the Contax 137 MA Quartz provides secure connection of accessory equipment, and incorporates direct electronic circuitry required for operation of the dedicated Contax TLA flash equipment.

Release Socket

A screw-in accessory release socket for remote control operation or electronic Real Time Accessories is located at the bottom of the lens mount. This socket is employed with Off-Camera Control Equipment and other accessories such as the Auto Bellows PC.

Contax/Yashica Lens Mount

The rugged 3-claw Contax/Yashica lens mount features a wide, 48mm diameter for maximum light transmission. Lenses and optical accessories connect with a short, 72° turn, while the precision machining of the mount itself provides a secure, long-lasting connection.

Film Rewind Button

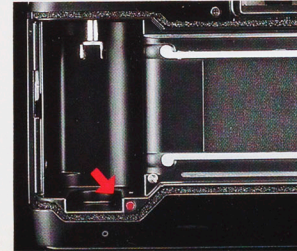
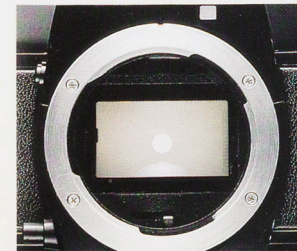
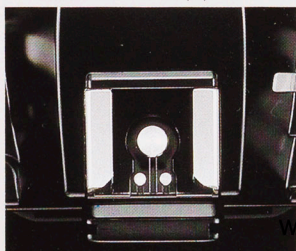
Located under a pivoted cover just behind the Main Switch, the Film Rewind Button is pressed to release the film advance system and allow the rewinding of a fully exposed roll of film. The cover prevents accidental disengagement of the film advance system.

Data Back LED

Inside the back cover of the Contax 137 MA Quartz can be seen the dedicated LED for use with the Quartz Data Back D5 for cordless operation.

Battery Compartment

Four AA-size batteries provide full power for the Contax 137 MA Quartz, fitting easily into a battery case under the detachable bottom cover. The batteries can only be inserted in the proper manner, and spare battery cases are available for rapid changes.



Superb Operational Reliability To Back Up The Professional Performance Of The Contax 137 MA Quartz

As a consummate professional camera, the Contax 137 MA Quartz demands consummate professional reliability and durability in operation. When the original camera design was conceived, the Contax design team recognized immediately that providing this maximum reliability and durability would be the major challenge when it came to actual production.

Real Time Direct Drive

The answer to this problem was to develop the Real Time Direct Drive system, in which a single, fully-integrated micro-motor powers not only film advance, but all other mechanical movements within the camera body, as well.

Development of the Real Time Direct Drive motor concentrated on producing a unit that could provide not only accurate operation, but that would prove reliable under even the toughest working conditions, for thousands upon thousands of rolls of film.

With Real Time Direct Drive the photographer is never left waiting for the camera to catch up. The motor operation is rapid enough to provide firing rates equal to those of many add-on motor drive unit for other cameras, keeping the photographer right on top of the action at all times, always ready for the next shot.

Reduced Movement & Wear

One of the most important things about Real Time Direct Drive is its elimination of so many moving parts within the camera body. In this way, operation is kept smoother and quieter than with add-on units, and reliability is enhanced considerably.

Integration of motor and camera body allows the Real Time Direct Drive system to handle film advance, mirror, shutter, aperture and other operations simultaneously, with a minimum of both motion and parts. Fewer parts means less wear; less wear means fewer breakdowns; fewer breakdowns means longer life. To the professional the fact that the Contax 137 MA Quartz is capable of performing steadily without servicing or repair means a quantum leap in reliability on the job, wherever and whenever that may be.

Fewer parts and reduced movement also contributes to making the Contax 137 MA Quartz quieter than most other cameras — almost as quiet as a completely manual SLR. Springs and other reactive parts are not required, also reducing shock and vibration during operation — again adding to the reliability and durability of the Contax 137 MA Quartz.

Simple Control & Operation

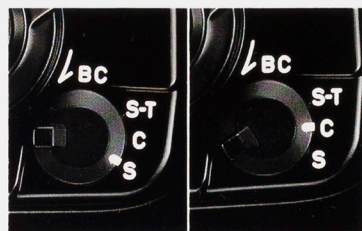
Remarkably, despite the sophisticated operation of the Real Time Direct Drive System, the photographer is able to control its functioning with only minimal effort.

Turning on the four-position Main Switch activates all the electronic circuitry required for Real Time Direct Drive operation. Then, each time the shutter release is pressed, the motor goes to work, activating mirror and diaphragm, tripping the forward and rear shutter curtains, winding film, charging shutter and releasing mirror and diaphragm before shutting down once again. It's all fully automatic, thanks to the sophisticated electronic control which is a vital part of the Real Time Direct Drive System.

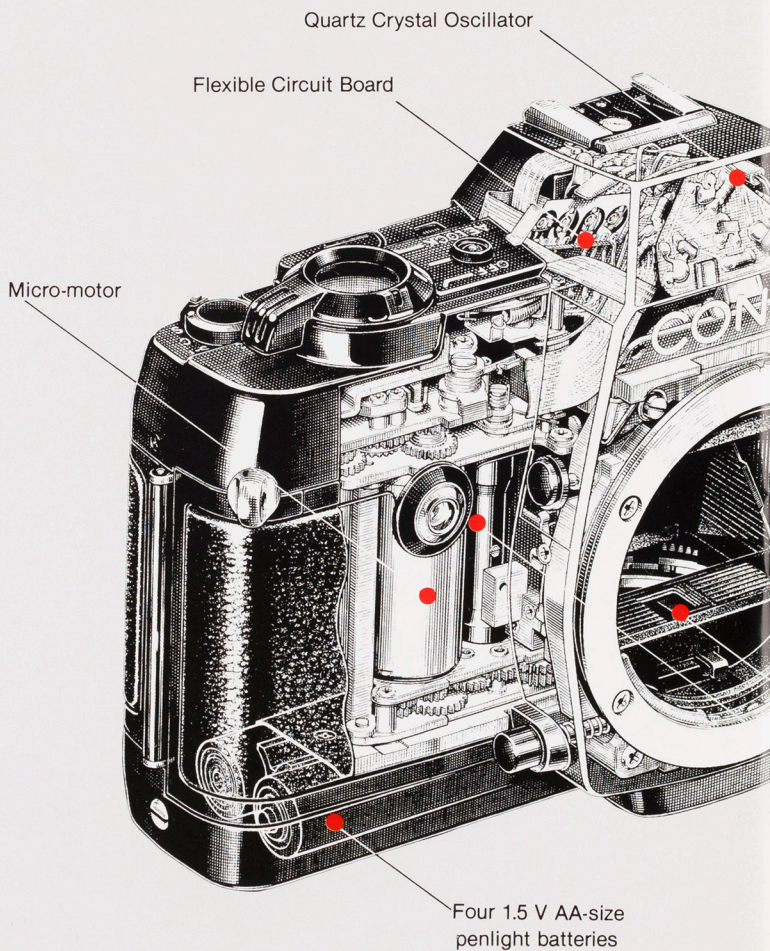
Mode Selection

Real Time Direct Drive operates in either

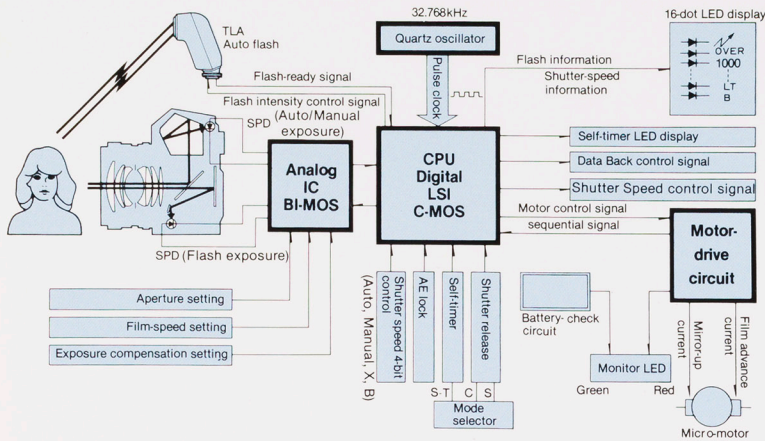
C (Continuous) or S (Single-Frame) modes, selected by means of a simple three-position switch atop the camera. The third mode is for setting the Contax 137 MA Quartz (S-T) Self-Timer unit. In Continuous mode, the Contax 137 MA Quartz provides a maximum firing rate of three frames-per-second; in Single-Frame mode one exposure is made each time the release button is pressed, and film advance is completed when the button is released.



Mode Selector S: Single-Frame C: Continuous



CONTAX 137 MA QUARTZ Circuit Diagram

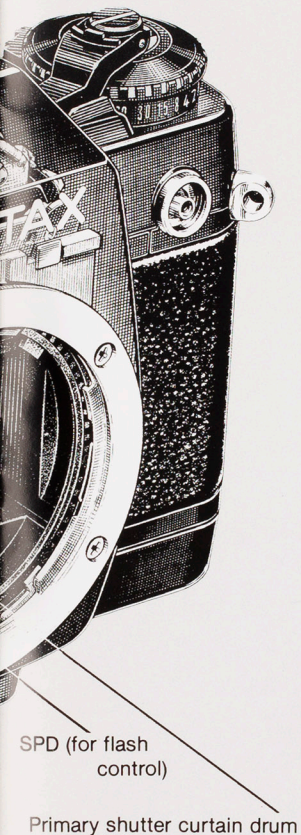
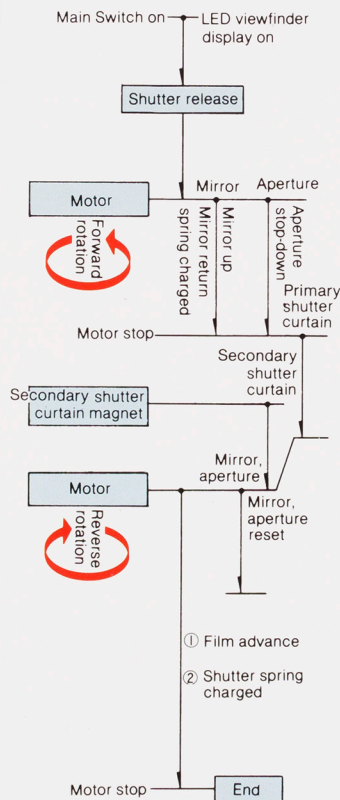


Electronic Data Processing

The 'brain' of the Contax 137 MA Quartz is a sophisticated Central Processing Unit — actually a tiny micro-computer — which incorporates both a Bi-MOS IC and a C-MOS LSI computer chip.

External data is received in analog form by the Bi-MOS integrated circuit, which has receiver circuitry linked to the aperture, film speed and exposure compensation functions, along with inputs from the dual SPD cells which meter ambient or electronic flash light intensity. Adjusted according to the function settings, these analog light measurements are then transferred to the C-MOS LSI chip, where they are converted into digital form for precise control. At the same time, information on other camera function status, already in digital form, is provided to the CPU, which processes the entire data package to determine optimum exposure factors. Digital signals from the CPU activate the viewfinder LED display, for example, to keep the photographer constantly informed. A typical sequence might involve such factors as an aperture setting of f/8, film speed of ASA 100, no exposure compensation, light value of EV11, etc. The CPU determines exposure and operating sequence of camera functions, in accordance with these factors and such other items as Mode Selector setting, etc. The result is a highly precise means of control, in which the CPU handles an immense amount of data while preserving a Real Time link between the photographer and the subject. When the shutter release is pressed, further digital signals from the CPU operate the Real Time Direct Drive system to expose the film and prepare the camera for the next photograph.

CONTAX 137 MA QUARTZ SEQUENTIAL CHART



Advanced Technological Features Enhance Creative Potential

Quartz Crystal Precision

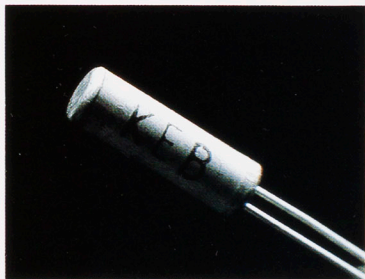
The heartbeat of the Contax 137 MA Quartz is a tiny Quartz Crystal Element that emits precisely stable pulses at a frequency of 32,768 Hz. This is the same type of Quartz element used in ultra-modern timepieces, for precision unparalleled by any mechanical means. The Contax Quartz Crystal Element controls both shutter speeds and all other time-related operations, for complete accuracy and stability.

Pioneering Quartz control with the revolutionary 139 Quartz, Contax has linked Quartz precision with Real Time Direct Drive for a level of accuracy and stability in performance never before achieved in photography.

Quartz-timed shutter speeds are absolutely precise, and absolutely constant.

This allows exposures to be far more precise and constant than ever before, whether in AE or Manual Mode.

And Quartz timing has a wide range of additional advantages, from making operating sequences smoother and more



Quartz Crystal Element

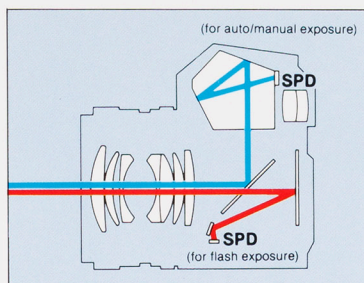
reliable to allowing more accurate, stabler calculations of electronic flash exposures with the TLA auto flash system.

Dual Mode SPD Metering

The Contax 137 MA Quartz incorporates a dual mode SPD cell metering system for perfect exposure accuracy. The exceptional sensitivity and Real Time response of SPD cells provides unparalleled precision in exposure determination. One SPD cell, for ambient light metering, is located in the camera's pentaprism. The other reads electronic flash exposures directly at the film plane from its location in the mirror box. Each of these SPD cells reads a carefully determined center-weighted pattern designed to provide maximum versatility and accuracy in exposing each subject to maximum effect.

Through-The-Lens Flash Metering

Every electronic flash exposure made with the Contax 137 MA Quartz and TLA

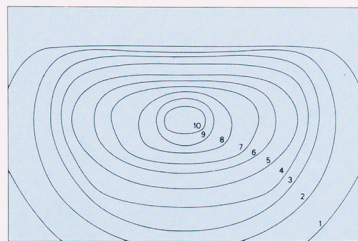


electronic flash system is guaranteed to be perfect, whatever the conditions. All three TLA units (TLA20, TLA30 and RTF540 with 137 grip & TLA Adapter) incorporate the circuitry required to allow the camera's electronic flash metering SPD cell to determine proper exposure. When just the right amount of light has been thrown onto the subject, the metering cell signals this to the camera's CPU, which then relays a command to the flash unit to cut off output.

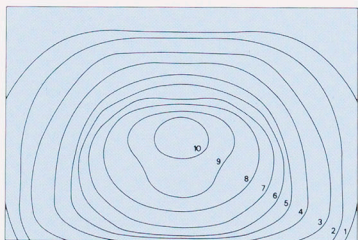
Since this happens in Real Time — the Speed of Light! — cut-off is instantaneous and the result is a perfectly exposed flash photo.

'Fail-Safe' Dedicated Circuitry

Another feature of the Contax 137 MA Quartz + TLA package is the 'Fail-Safe' dedicated flash/shutter synchronization system, that insure a proper 1/60" or slower shutter speed for electronic flash exposures. Completely automated, this 'Fail-Safe' system switches the camera to 1/60" whenever the flash is ready to



Center-weighted metering pattern for auto/manual exposure.



Center-weighted metering pattern for TLA flash photography.

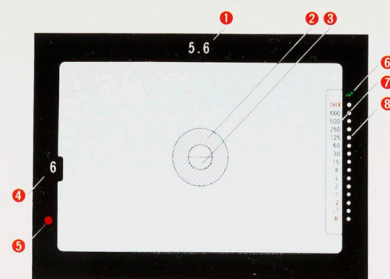


fire, and switches back to the proper ambient light shutter speed if the flash unit is turned off or recycling. Thus, every exposure is correct, whether lit by flash or not.

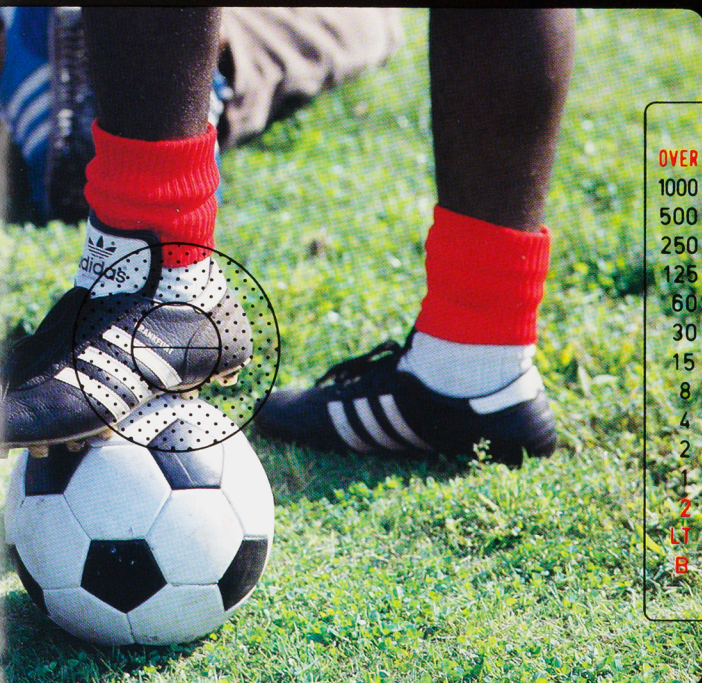
Portable Lighting Versatility

By employing the full capabilities of the Contax 137 MA Quartz and TLA system the photographer can enjoy greater versatility in portable electronic flash lighting techniques than ever before available in 35mm photography. Since flash exposures are metered Through-The-Lens at the film plane there is no need to perform exposure calculations. Filtered exposures, bounce or diffused flash, daylight synchronization of ambient and flash lighting — all are handled automatically by the Contax 137 MA Quartz + TLA combination. More advanced techniques, such as slow shutter flash lighting, are possible through use of the AE Lock system or the Manual

- 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 Shutter-speed scale
- 8 LED shutter speed indicator



5.6



At the top of the screen is an optical window that shows the working aperture value; while another optical window at the left of the screen provides film supply indication through a Frame Counter. Just below this is a red dot LED that lights whenever the Exposure Compensation System is in use.

Altogether, the viewfinder display can provide the following information on camera status: Shutter Speed, Aperture, Exposure Mode, AE Lock use, Exposure Compensation use, TLA Flash use, TLA Flash Ready, Flash Exposure correctness, Over/Under Exposure, Exposure Compensation use, Film Supply.

Depth-Of-Field Preview

One of the critical factors in professional photography is obtaining just the proper Depth-of-Field in focusing. The Contax 137 MA offers a special manual Depth-of-Field Preview system so that the photographer can always know in advance just how much of the scene will be in sharp focus.

By pressing in the Depth-of-Field Preview Button at the base of the lens mount, the diaphragm is manually closed to the working aperture, and the photographer can see exactly how much of the field in focus.

This is an important bonus in such applications as sports and close-up/macro photography, where the photographer will want to have carefully defined limits of sharp focus in order to achieve greater impact.

exposure mode.

And this creative versatility is available in single-flash or multiple-flash applications, on or off-camera, simply by employing the proper TLA equipment and accessories together with the 137MA Quartz.

allows sharp, clear focusing even after manual stop-down of the diaphragm for depth-of-field preview. Even at the corners of the finder screen, consistent brightness provides full focusing ease and accuracy.

Exceptional Viewfinder Brightness

Thanks to a special high-reflection coating applied to the mirror, and a silver-evaporated coating of the pentaprism, the Contax 137 MA Quartz shares with other Contax SLR's the greatest degree of viewfinder brightness consistency found in 35mm photography. Both brightness and color balance are optimal after light transmission through the fresnel lens and matte face screen, and even the eyepiece is multi-coated to prevent deterioration of focusing capability under dim conditions.

Shadows and cut-off are prevented by the extra-large mirror, even with super-telephoto lenses, while screen brightness

Viewfinder LED Data Display

The LED/Optical data display provided by the Contax 137 MA Quartz is the world's most complete system of viewfinder information. To the right of the screen is a 16-dot LED array that includes Shutter Speed indicators from LT (Long Time) 11 sec. to 1/1000 sec. along with B and OVER. These provide shutter speed information in AE Mode, exposure determination in Manual Mode and warning of possible over or under exposure difficulties. Above the shutter speed LEDs is a special green arrow LED that lights to indicate 'Flash Ready' status for Contax TLA units, and flickers as a Confidence Light to indicate correct electronic flash exposure.

Data Display Auto Cut-Off

To conserve battery power, the viewfinder LED display cuts off automatically after 10 seconds.

At any time the photographer can reactivate the display by pressing lightly on the electromagnetic shutter release button, which will cause the display to light up for a further 10 seconds. Even with the Main Switch on, however, there is no fear of total battery drain since the auto cut-off system will prevent the display from remaining permanently lit.

RTF 540 Specifications	
Type	Grip-type system auto flash unit featuring energy-saving thyristorized circuitry for automatic light output cut-off.
Guide Number	40 (ASA 100 in meters) at full output; additional clickstop settings at GN 28, 14 and 7
Coverage Angle	50 degrees vertical and 60 degrees horizontal (58 degrees vertical and 76 degrees horizontal — equivalent to the field covered by a 24 mm lens — with the accessory Wide Panel.)
Effective Range on Auto	0.5 to 14 meters
Aperture Settings on Auto	1/2.8, 1/5.6 and 1/11 with ASA 100 film
Light Sensing Angle	20 degrees
Bounce Flash Angle	Flash head tilts 90 degrees upward and swivels 90 degrees to the right and left
Color Temperature	Daylight balanced
Power Source	1. RTF Power Pack (energized by two 7.2 V RTW Ni-Cd Packs; or twelve 1.5 V AA size penlight batteries) 2. RTF 510 V Battery Pack (housing high-voltage laminated battery) or 3. RTF AC Power Unit
Size	98 × 240 × 92 mm (head and grip only) (3-7/8 × 9-1/2 × 3-5/8 in.)
Weight	720 grams (24.4 ozs.)

FLASH



Real Time Flash 540



- 1 TLA 30 Auto Flash 2 TLA Extension Cord 300 SS
 3 TLA 20 Auto Flash 4 TLA Extension Connector S
 5 TLA Extension Cord 100 SS 6 TLA Multi-Flash
 Connector S 7 RTF 540 TLA Adapter 8 RTF 540
 Unit 9 RTF Power Pack Set 10 Contax 137 MA
 Quartz 11 137 Grip Adapter 12 TLA Attachment
 Adapter

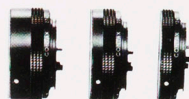
TLA-30 Auto Flash Specifications	
Control circuitry	Thyristorized, energy-saving circuits.
Guide number	Auto: GN 30-4 (ASA 100/meters); manual: GN 30/15/7.5. (Fast recycle at lower settings for synch with winder.)
Flash control	TTL metering through SPD measuring light at film plane with Contax 137 MA Quartz two-aperture auto control with built-in SPD sensor.
Coverage angle:	60° horizontal, 45° vertical (covering field of view of 35 mm lens); with special wide panel 76° horizontal, 58° vertical (covering field of view of 24 mm lens).
Bounce flash	Flash head tilts through vertical angle from -15° to +90°.
Power source:	Four 1.5V AA-size batteries. (Rechargeable Ni-Cds usable.)
Dimensions	80(W) × 120(H) × 60(D) mm (3-1/8 × 4-6/8 × 2-3/8 in.)
Weight	290 grams (10.2 ozs.) without batteries.

TLA-20 Auto Flash Specifications	
Control circuitry	Thyristorized, energy-saving circuits.
Guide number	Auto: 20-4 (ASA 100/meters); manual: hi: 20; lo: 2.8
Flash control	TTL metering through SPD measuring light at film plane; series control
Recycle time	3-6 secs., (Fast recycle at lo for synch with winder).
Coverage angle	60° horizontal, 45° vertical (covering field of view of 35 mm lens); with wide-panel: 76° horizontal, 58° vertical (covering field of view of 24 mm lens).
Power source	Four 1.5 V AA-size batteries
Dimensions	66(W) × 100(H) × 71(D) mm (2-5/8 × 3-15/16 × 2-13/16 in.)
Weight	180 grams (6.4 ozs.) without batteries.



CLOSE-UP

Auto Extension Tube Set



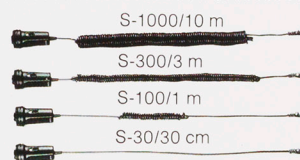
Contax Auto Extension Bellows PC

Contax Auto Extension Bellows PC Specifications	
Mount	Contax/Yashica mount
Scale readings	0 — 200 mm
Range of extension	45.5 mm + 140 mm (45.5 to 185.5 mm)
Lensboard movements	Horizontal shift up to 10 mm to the right and left; horizontal swing through 360 degrees
Depth-of-field preview	Depth-of-field preview provided through depression of stop-down button on base of lens-board
Other features	Lens reversing feasible without removing the lens or lensboard; accepts Slide Copier
Size	200 × 120 × 70 mm
Weight	785 grams (27.7 ozs.)

Contax Cable Switch S

In place of the mechanical cable releases employed for most 35 mm SLR cameras, Contax/Yashica system cameras employ the Contax Cable Switch S (which comes in four lengths) for use with the electromagnetic

shutter release system. These special Cable Switches allow the photographer to move away from the camera and still retain absolute control over shutter release. The switches come in lengths of 30 cm, 1 m, 3 m and 10 m.



REMOTE CONTROL

Contax Radio Controller Set Specifications

Transmission Frequency	40.68 MHz FM (Quartz stabilized)
Modulation Frequency	Signal variation of 2600 Hz and 2900 Hz for channel control
Control Switches	Receiver — Power switch Transmitter — 3-way channel selector, power switch
Power Source	Receiver — One 9 V drycell battery (006P) Transmitter — One 9 V drycell battery (006P)
Size	Receiver — 113 × 24 × 64 mm Transmitter — 35 × 24 × 180 mm
Weight	Receiver — 180 grams Transmitter — 140 grams

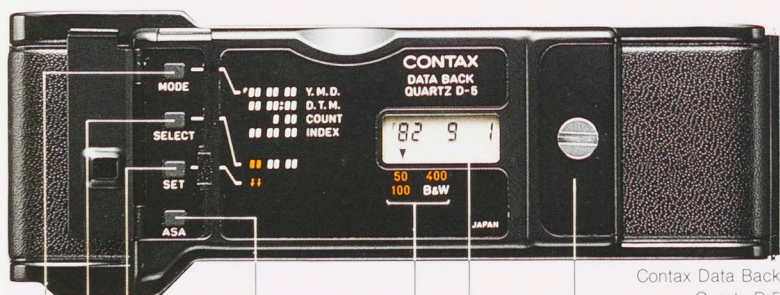
Contax Infrared Controller S Set Specifications

Type	Infrared control remote shutter release system
Range	Approx. 20 meters (max.)
Number of Channels	2 (enabling simultaneous or alternate operation of multiple camera/winder units with additional receivers).
Operating Modes	C (Continuous) for sequential photography S for single-frame shooting.
Transmitter Battery Life	Approx. 3,000 firings
Transmitter Recycling Time	Approx. 0.4 sec. with fresh alkaline batteries.
Receiver Battery Life	10 hrs. of continuous operation; 30 hours stand-by.
Angle of Coverage	Receiver unit (60° angle of reception). Transmitter unit (45° Beam spread).
Power Source	Transmitter (one 1.5 V penlight battery). Receiver (one 006P 9 V battery).
Accessories	Connector Cord B30R, Connector Cord B30S, cases for transmitter and receiver.
Dimensions	Transmitter — 23.5 × 35 × 120 mm (15/16 × 1-3/8 × 4-3/4 in.). Receiver — 38.5 × 51 × 61.5 mm (2-1/8 × 2 × 2-7/16 in.).
Weight	Transmitter — 70 g (2.4 ozs.) w/o battery. Receiver — 65 g (2.3 ozs.) w/o battery.



Contax 137 MA Quartz body with Contax Radio Controller Set

DATA BACK



Contax Data Back Quartz D-5

- 1 Mode Button 2 Select Button 3 Set/Time-Check Button 4 Film Speed Button 5 Film Speed Display 6 Display Window 7 Battery Compartment Cover

Contax Data Back Quartz D-5 Specifications

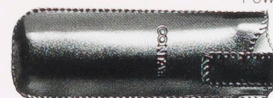
Type	Seven-segment LCD (liquid crystal diode) projection data back with built-in Quartz timing device.
Operating Modes	Year/Month/Date; Date/Hour/Minute; Serial Counting; Six-Digit Coding. (Non-record mode also settable)
Recordable Data	Year/Month/Date, Date/Hour/Minute, Serial Counting (000-399), Six-Digit Coding (00-00-00 — 99-99-99)
Data Location	Lower right corner of frame.
Recording Method	Direct LCD projection onto film (Monitor & Photo LCDs operate in parallel).
ASA Selection	Two-step adjustment
Operating Checks	Time check and battery/operating check
Power Source	Two batteries, type SR44 or LR44
Size	146 × 535 × 27mm (5-3/4 × 2-1/8 × 1-1/16 in.)
Weight	80 grams (2.8 ozs.) (w/o batt.)

Contax 137 Power Pack Set

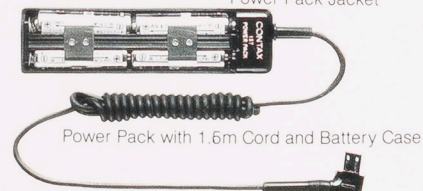
The Power Pack Set consists of the Power Pack Adapter, Battery Case, Power Pack with Cord and Jacket. The Adapter fits in place of the regular camera base plate and the batteries are accommodated in the case so that they can be kept warm in cold weather for more reliable operation. Also useful for quick battery replacement under hard working conditions.



Power Pack Adapter



Power Pack Jacket



Power Pack with 1.6m Cord and Battery Case

Contax 137 Grip Adapter

An accessory grip attaching to the Contax 137 MA Quartz camera base and providing a more secure grip on the camera. Required for on-camera use of the RTF540 flash.

Contax 137 Spare Battery Case

The Spare Battery Case is a convenient means of changing batteries quickly under hard working conditions. It interchanges instantly with the regular 137 MA Quartz battery case simply by removing the bottom plate of the camera body and switching battery cases.

Carl Zeiss T* (T-star) Lenses

The Standard Of Optical Superiority

There is a very good reason why Carl Zeiss is the most respected name in photographic lenses — consistently high quality. Every Carl Zeiss lens shares standards of optical performance that have remained at the very peak of the photographic world. And the amazing Zeiss T* (T-star) lenses produced for Contax SLR photography are no exception. Incorporating the most modern, computer-assisted lens design technology, Zeiss created the T* lens series as the pinnacle of 35mm optical capability. The fantastic T* anti-reflection coating alone would be reason enough to call these lenses the finest ever produced for photographic work, but there is even more to the line, including special aspheric and floating lens elements, complete balancing of optical factors

such as resolution and contrast, uniform field illumination, complete freedom from optical distortion, exceptional light transmission capabilities and optimal color correction. Modulation Transfer Function (MTF) is the most important test of a lens. It balances the important qualities of resolution and contrast, so that a lens with exceptional MTF results is capable of the finest performance under any lighting conditions. Each T* lens for Contax use must pass a rigorous MTF examination that insures high quality optical performance. Color balancing is important to professional photographers, who must be certain that skin tones or basic shades all match in a series of photographs. Thus all T* lenses are completely color balanced to provide precisely the same color tones under

identical lighting conditions. Among the Carl Zeiss T* lenses for Contax SLR use are many famous names that have become classics in photography. The Olympia Sonnar, for example, is an updated reproduction of the classic f/2.8 180mm lens first developed by Carl Zeiss for coverage of the 1936 Olympic Games. The smallest of all T* lenses, the new Tessar T* f/2.8 45mm, bears the classic Tessar design and achieves exceptional optical performance along with a compact length of just 18mm protrusion from the camera body. Altogether there are some 28 Zeiss T* lenses for Contax use, providing exceptional performance capabilities along with strong cost-performance options.

Interchangeable Carl Zeiss T* (T-Star) Lenses

Lens:	Elements-Groups	Angular Field	Minimum Focus	Aperture Range	Diameter x Length	Weight	Filter	Metal Hood + Filter		Rubber Hood (screw-in type)
								Adapter ring	Metal hood	
F-Distagon T* f/2.8 16 mm <Fisheye>	8—7	180°	0.3 m (1 ft)	f/2.8—22	70.0 x 61.5 mm	460 g	Built-in	—	Built-in	—
Distagon T* f/3.5 15 mm	13—12 F	110°	0.16 m (6")	f/3.5—22	83.5 x 94.0 mm	815 g	Built-in	—	Built-in	—
Distagon T* f/4 18 mm	10—9 F	100°	0.3 m (1 ft)	f/4—22	70.0 x 51.5 mm	350 g	86 mm (with 70/86 ring)	—	—	—
Distagon T* f/2.8 25 mm	8—7	80°	0.25 m (10")	f/2.8—22	62.5 x 56.0 mm	360 g	55 mm	—	—	55 mm G-12
Distagon T* f/2 28 mm	9—8 F	74°	0.24 m (10")	f/2—22	62.5 x 76.0 mm	530 g	55 mm	55/86	No.1	55 mm G-12
Distagon T* f/2.8 28 mm	7—7	74°	0.25 m (10")	f/2.8—22	62.5 x 50.0 mm	280 g	55 mm	55/86	No.1	55 mm G-12
Distagon T* f/1.4 35 mm	9—8 F A	62°30'	0.3 m (1 ft)	f/1.4—16	70.0 x 76.0 mm	600 g	67 mm	67/86	No.2	67 mm G-14
Distagon T* f/2.8 35 mm	6—6	62°	0.4 m (1.5 ft)	f/2.8—22	62.5 x 46.0 mm	245 g	55 mm	55/86	No.3	55 mm G-11
PC-Distagon T* f/2.8 35 mm <Shift>	9—9 F	63°/83°	0.3 m (1 ft)	f/2.8—22 M	70.0 x 85.5 mm	725 g	86 mm (with 70/86 ring)	—	—	—
Tessar T* f/2.8 45 mm	4—3	50°	0.6 m (2 ft)	f/2.8—22	60.0 x 18.0 mm	90 g	49 mm, 55 mm (with 49/55 ring)	—	—	—
Planar T* f/1.4 50 mm	7—6	45°	0.45 m (1.5 ft)	f/1.4—16	62.5 x 41.0 mm	275 g	55 mm	55/86	No.4	55 mm G-11
Planar T* f/1.7 50 mm	7—6	45°	0.6 m (2 ft)	f/1.7—16	61.0 x 36.5 mm	190 g	55 mm	55/86	No.4	55 mm G-11
Planar T* f/1.4 85 mm	6—5	28°30'	1.0 m (3.5 ft)	f/1.4—16	70.0 x 64.0 mm	595 g	67 mm	67/86	No.4	67 mm G-13
Sonnar T* f/2.8 85 mm	5—4	27°30'	1.0 m (3.5 ft)	f/2.8—22	62.5 x 46.5 mm	230 g	55 mm	55/86	No.5	55 mm G-11
Planar T* f/2 100 mm	6—5	24°30'	1.0 m (3.5 ft)	f/2—22	61.0 x 46.5 mm	267 g	67 mm	67/86	No.4	67 mm G-13
Sonnar T* f/3.5 100 mm	5—4	24°	1.0 m (3.5 ft)	f/3.5—22	61.0 x 61.0 mm	285 g	55 mm	55/86	No.5	55 mm G-11
Planar T* f/2 135 mm	5—5	18°30'	1.5 m (5 ft)	f/2—22	75.0 x 101 mm	830 g	72 mm	72/86	No.4	—
Sonnar T* f/2.8 135 mm	5—4	18°30'	1.6 m (5.5 ft)	f/2.8—22	68.5 x 93.0 mm	585 g	55 mm	—	Built-in	—
Sonnar T* f/2.8 180 mm	6—5 F	14°	1.4 m (5 ft)	f/2.8—22	78.0 x 131 mm	815 g	72 mm	—	Built-in	—
Tele-Tessar T* f/3.5 200 mm	6—5	12°40'	1.8 m (6 ft)	f/3.5—22	77.5 x 121.5 mm	750 g	67 mm	—	Built-in	—
Tele-Tessar T* f/4 300 mm	5—5	8°15'	3.5 m (11.5 ft)	f/4—32	88.0 x 205 mm	1,200 g	82 mm	—	Built-in	—
Mirotar f/4.5 500 mm	5—5	5°	3.5 m (11.5 ft)	—	151.0 x 225.0 mm	4,500 g	Slide-in type	—	—	—
Mirotar f/5.6 1000 mm	5—5	2°30' 1/4°30'	12.0 m (35.0 ft)	—	250.0 x 470.0 mm	16,500 g	Slide-in type	—	—	—
Vario-Sonnar T* f/3.5 40—80 mm	13—9	55° ~ 31°	1.2 m (4 ft)	f/3.5—22	67.0 x 87.0 mm	605 g	55 mm	55/86	No.2	55 mm G-11
Vario-Sonnar T* f/3.5 70—210 mm	15—12	33° ~ 12°	1.8 m (6 ft) Macro <0.3m/M1.2>	f/3.5—22	77.0 x 186 mm	1,145 g	67 mm	67/86	No.3	—
S-Planar T* f/2.8 60 mm <Macro>	6—4	39°	M1.1 <0.24 m>	f/2.8—22	75.5 x 74.0 mm	570 g	67 mm	67/86	No.3	67 mm G-13
S-Planar T* f/4 100 mm <Bellows>	6—4	24°30' 33°	<M1.4> 1°	f/4—32	62.5 x 48.5 mm	285 g	55 mm	55/86	No.5	55 mm G-11

F With Aberration Correction at close range A Aspherical Lens Element M Manual aperture setting

* The above specifications and design are subject to change without notice.

Contax Preview

For Professional Applications

In professional photography one of the most attractive capabilities is being able to know in advance just how a particular situation will appear on film. To provide this, Contax has developed the Preview, a special camera offering Polaroid film capability. The Preview accepts all Zeiss T* (T-star) lenses, and provides a full 35mm frame photo on Polaroid film (Type

107, 108 Polacolor 2; Type 665, 667, 668 Polacolor 2). Finished prints can be used to determine lighting results, shadow effects, exposure, perspective, etc., and are also usable in design/layout work or as teaching aids. Light, compact and portable, the Contax Preview is ideal for both studio and location use.

Size: 168 x 145 x 67 (6-5/8 x 5-11/16 x 2-5/8 in.)

Weight: 705 grams (24.9 ozs.) (body only)





F-Distagon T* 16mm F2.8



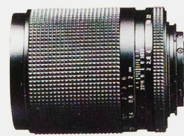
Distagon T* 15mm F3.5



Distagon T* 18mm F4



Distagon T* 25mm F2.8



Distagon T* 28mm F2



Distagon T* 28mm F2.8



Distagon T* 35mm F1.4



Distagon T* 35mm F2.8



Tessar T* 45mm F2.8



Planar T* 50mm F1.4



Planar T* 50mm F1.7



Planar T* 85mm F1.4



Sonnar T* 85mm F2.8



Planar T* 100mm F2



Sonnar T* 100mm F3.5



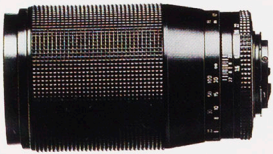
Planar T* 135mm F2



Sonnar T* 135mm F2.8



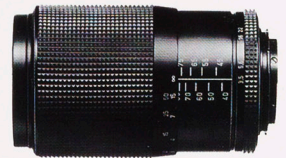
Sonnar T* 180mm F2.8 (Olympia Sonnar)



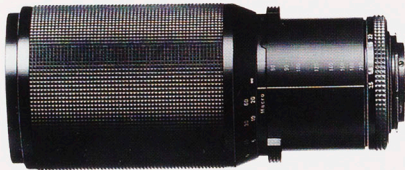
Tele-Tessar T* 200mm F3.5



Tele-Tessar T* 300mm F4



Vario-Sonnar T* 40~80mm F3.5 (Zoom)



Vario-Sonnar T* 70~210mm F3.5 (Zoom)



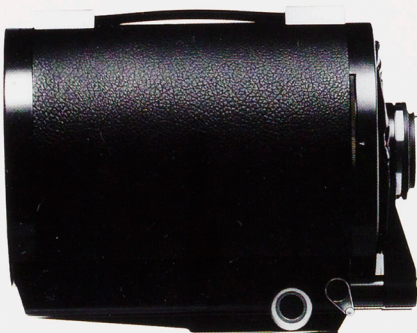
S-Planar T* 60mm F2.8 (Macro)



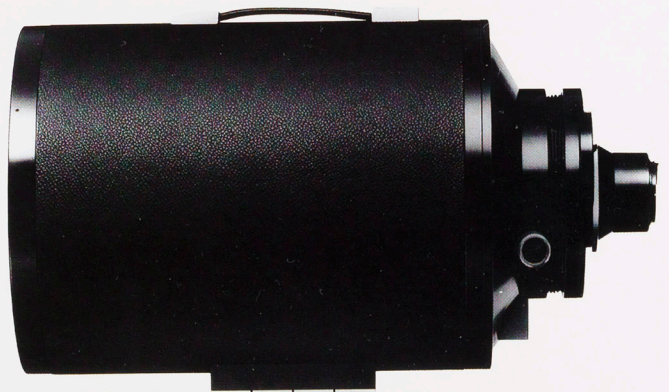
S-Planar T* 100mm F4 (Bellows)



PC-Distagon T* 35mm F2.8



Mirotar 500mm F4.5



Mirotar 1000mm F5.6

CONTAX 137 MA QUARTZ Specifications

Type:	35 mm single-lens reflex; aperture-preferred automatic exposure or manual exposure control; Quartz-timed operation; Contax TLA auto flash control; Real Time Direct Drive.
Image Size:	24 × 36 mm
Viewfinder:	Silver-coated pentaprism showing 95% field-of-view at 0.86X magnification.
Lens Mount:	Contax/Yashica three-claw bayonet.
Standard Lens:	Carl Zeiss Planar T* f/1.4 50mm (f/1.7 50 mm)
Shutter:	Quartz-timed cloth focal plane shutter; electronic control with horizontal travel; AE Mode speeds from 11 to 1/1000 sec.; Manual Mode speeds from 1 to 1/1000 sec., plus B and X (1/60'). 'Fail-Safe' flash/shutter synch with TLA flash.
Shutter Release:	Electromagnetic with 0.7 mm stroke; release socket for off-camera control accessories.
Flash Synchronization:	X-synch at 1/60sec. (or slower) via direct hot-shoe or X-synch terminal.
Exposure Control:	Center-weighted TTL metering by SPD cell; EV range 0 to +18 (ASA100, f/1.4). TTL flash metering at film plane with TLA flash.
TLA Auto Flash Control:	With Contax TLA system, separate SPD cell reads flash exposure directly at film plane; 'Fail-Safe' control of flash/shutter synchronization. X-synch terminal for all non-TLA electronic flash units.
Film Speed Range:	ASA 12-3200.
Viewfinder Display:	LED display of shutter speed, exposure compensation, TLA flash status. Shutter speed LEDs flash to indicate AE Lock operation. Aperture and frame counter display. 10-second auto cut-off conserves battery power.
AE Lock:	Locks in shutter speed, aperture can be varied; continuous operation.
Self-Timer:	Electronic, Quartz-timed, 10-second delay; cancellable/resettable; red LED and Monitor Lamp indicate operation.
Film Advance:	Real Time Direct Drive, single-frame or continuous at 3 frames-per-second.
Film Rewind:	By clutch-action rewind crank after rewind film release button is pressed.
Exposure Compensation:	±2EV in 0.5EV increments.
Film Supply Indication:	Accumulative, auto-resetting frame counter with additional display in viewfinder.
Accessory Shoe:	Direct X-synch hot-shoe with Contax TLA capability.
Camera Back:	Interchangeable type, film memo holder.
Battery Check:	Monitor Lamp LED lights green to indicate sufficient battery power when Main Switch is in "BC" position.
Power Source:	Four 1.5 V (or 1.2 V Ni-Cd) AA-size batteries.
Main Switch:	Four-position (Off/On/AE Lock/BC); activates electronic functions and operates AE Lock, Battery Check features.
Size:	143 × 92.5 × 51 mm (body only) (5-5/8 × 3-5/8 × 2 in.)
Weight:	610 grams (body only, w/o batteries.) (21.52 oz.)

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

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CONTAX

CUSTOM CAMERA REPAIR, INC.
2515 N. SCOTTSDALE RD., (STE. 2)
SCOTTSDALE, ARIZONA 85257

YASHICA CO., LTD., Tokyo Office
 20-3, Denenchofu-Minami, Ohta-ku, Tokyo 145, Japan
 Tel: (03) 750-2240

YASHICA INC., USA Main Office
 411 Sette Drive, Paramus, New Jersey, 07652, U.S.A.
 Tel: (201) 262-7300

YASHICA INC., Midwestern Regional Office
 120 King Street, Elk Grove Village, Illinois 60007, U.S.A.
 Tel: (312) 640-6060

YASHICA INC., Western Regional Office
 344 Mira Loma Avenue Glendale, California 91204, U.S.A.
 Tel: (213) 247-2140

YASHICA INC., Dallas Service Station
 Empire Center, Suite No. 124, 8383 Stemmons Freeway, Dallas, Texas 75247, U.S.A. Tel: (214) 630-2345

YASHICA CANADA INC.
 7470 Bath Road, Mississauga, Ontario, L4T 1L2, Canada
 Tel: (416) 671-4300

YASHICA EUROPE G.m.b.H.

Billstraße 28, 2 Hamburg 28, West Germany
 Tel: 78 15 21/25

YASHICA HANDELSGESELLSCHAFT m.b.H.
 Rustenschacherallee 38, 1020 Wien, Austria
 Tel: (0222) 72-34-72, 73-81-27

YASHICA AG.,
 Zürcherstraße 73, 8800 Thalwil, Switzerland
 Tel: (01) 720 34 34

YASHICA A/S
 Industrivægt 2, Dk-2600, Glostrup, Denmark
 Tel: 2-630806

YASHICA SVENSKA AB.,
 Box 715, Kostervägen 3, S-181 07, Lidingö, Sweden
 Tel: 08-767-9045

YASHICA DO BRASIL LTDA.
 Rua Cruz e Souza 59, Aclimacao, Sao Paulo, Brasil
 Tel: 283-4244

YASHICA HONGKONG CO., LTD.
 Room 1101, New World Office Building, 20 Salisbury Road, Kowloon, Hong Kong Tel: (3) 665216~9

www.panchromatique.ch

LAB 10

LAB 25

LAB 50

LAB 75

LAB 90