

## Contax 139 QUARTZ



- BODY ONLY w/two 1.5V silver-oxide batteries & strap Price .....
- STANDARD CASE Price .....
- Planar T\* 50mm f/1.7 Price .....
- Planar T\* 50mm f/1.4 Price .....

### CONTAX 139 QUARTZ

#### Total Precision In System Photography

For the first time in the history of photography, total control and absolute precision are available in a system of photographic equipment capable of meeting every challenge. The CONTAX 139 Quartz brings to photography the fantastic accuracy of quartz crystal timing — combined with the system advantages of Real Time operation.

This combination of quartz timing and Real Time operation now gives photographers the capability to capture precisely on film the image created in the viewfinder — without time-lag, exposure error or any of the variables that so often limit conventional photographic systems.

The CONTAX 139 Quartz is an integral part of the world-famous Contax Real Time System, the system that has revolutionized photography in recent years. It is a compact, lightweight, 35mm SLR camera available with a 50mm f/1.7 standard lens of the Zeiss T\* line, or an optional high-speed 50mm f/1.4. Or, the 139 Quartz body can be purchased separately to fit into an existing Real Time System equipment line.

On its own or as part of an overall system, however, the CONTAX 139 Quartz offers unbelievable control over any photographic situation. Exposure factors are computed automatically in the camera body by the most advanced combination of electronics and data-processing hardware ever employed in camera design. And the 139 Quartz also offers full manual control over exposure settings.

To take full advantage of the amazing exposure accuracy of the system, quartz crystal control regulates each timing step in the photographic process. And the entire sequence progresses at the **Speed Of Light!** because it is fully electronic. This is the meaning of Real Time Photography — even the slightest time delay is completely eliminated.

Among the major feature advantages of the CONTAX 139 Quartz are the following:

- Quartz Crystal Control — A unique property of quartz crystal is its ability to generate pulses at an absolutely uniform rate of 32,768 Hz per second. This superb precision, an integral part of precision timing devices worldwide, has now become the key to ultimate accuracy and control in photography. Shutter speeds, for example, can be set to a degree of accuracy never before approached.
- Two-Mode SPD Exposure Control — The 139 Quartz employs two SPD (Silicon Photo Diode) cells to control exposure factors. One SPD measures light through the lens for ordinary exposures, while the other takes reflected readings from the film surface to control electronic flash exposures.



- Real Time Electromagnetic Release System — Identical to the system used in the famed CONTAX RTS, this release system is the heart of Real Time Photography. At a stroke of just 0.7mm, the release initiates shutter operation which is fully electronic, to eliminate delay and allow Real Time operation.
- Automatic TTL Flash Exposure Control — Through Real Time operation with the TLA-20 Auto Flash unit, the 139 Quartz controls flash output precisely, through-the-lens, for absolute accuracy with every flash exposure.
- Zeiss T\* Lenses — The 139 Quartz shares the outstanding system of Carl Zeiss T\* lenses developed specially for the CONTAX system of Real Time Photography. This is, without doubt, the finest system of lenses every produced for a 35mm single-lens-reflex camera.
- CONTAX Real Time System Accessories — The 139 Quartz matches with its own special auto winder, electronic flash and data back, but shares with the CONTAX RTS and 137 MD Quartz the capability to employ almost the entire range of system accessories available in the Real Time System of photography.

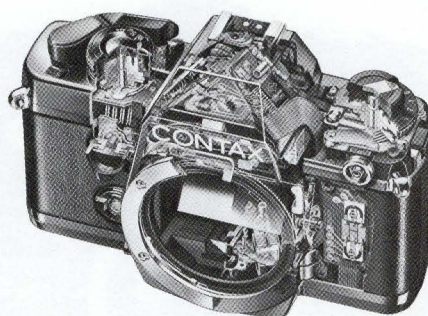
## Micro-Computerized Control of the Photographic Process

Quartz crystal timing is the heart of the CONTAX 139 Quartz, and Real Time operation is its legs.

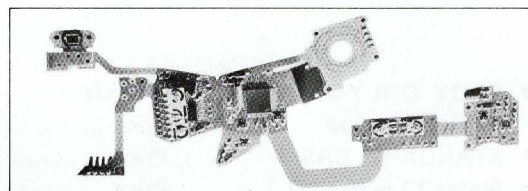
But the 'brain' of the 139 Quartz is the combination of an advanced Central Processing Unit micro-computer with data processing circuitry capable of achieving unparalleled accuracy in exposure calculation.

The Central Processing Unit is based on a digital C-MOS LSI chip. Exposure input data goes directly to a special Bi-MOS analog integrated circuit. This circuit processes the data from analog to digital form, and relays it to the C-MOS chip. Then, the CPU processes the data, and uses it to signal all related camera functions with the precise factors needed to achieve a perfect exposure of the scene in the viewfinder.

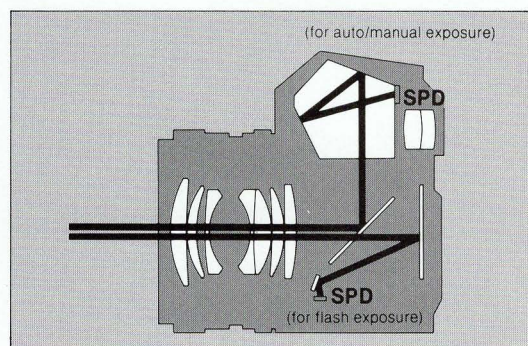
Aperture, film speed and exposure compensation [if any] data feeds to the analog system, which integrates these factors with the raw exposure data before CPU operation determines the final, precise shutter speed to be employed. And in addition to this ultimate control over exposure values, the CPU also coordinates the operation of all accessory equipment used with the 139 Quartz, such as the Auto Winder, TLA-20 Auto Flash, Data Back, etc. And full information on exposure data is relayed to the viewfinder's 'Pulsar' LED display system.



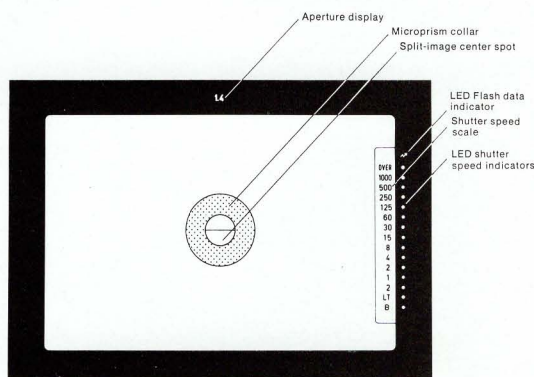
*This cutaway view of the internal electronic system of the 139 Quartz shows the technological wizardry leading to total automation.*



*A single flexible circuit board houses the Quartz control and micro-computer system that regulate all camera functions.*

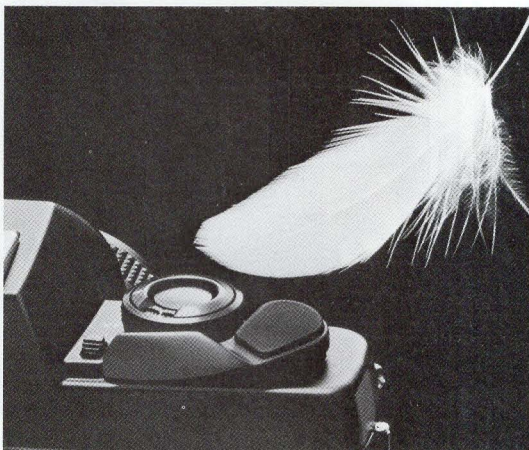


*A two-mode exposure calculation system controls all exposure data on a Real Time basis.*



*The 139 Quartz viewfinder provides split-image or micro-prism focusing, and displays all exposure information.*

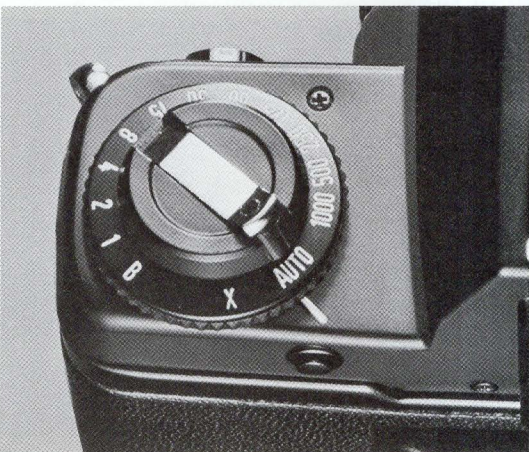




*The feather-light electromagnetic shutter release requires a stroke of only 0.7mm for Real Time operation.*



*A collar around the release provides ASA film speed settings and exposure compensation capability.*



*Click-stop settings from Bulb to 1/1000 sec., plus X-synch and AUTO are found on the shutter speed dial. The dial locks in the AUTO position.*

## Electromagnetic Operation of the Photographic Process

"System" — in photographic terminology — means far more than simply the availability of a few lenses and accessories; it indicates a fully integrated equipment system capable of taking maximum advantage of every photo opportunity and meeting the challenge of widely varying photo situations.

And it also implies a central control over each function and step in photography. The CONTAX Real Time System, as applied to the 139 Quartz, revolves around a unique Electromagnetic Shutter Release which controls and coordinates every step of the photographic process, instantaneously, to achieve Real Time operation.

Mechanical linkage, with its inherent time lag in operation, has been replaced with a release system that utilizes the Real Time capabilities of electromagnetics. With a stroke of just 0.7mm, the release initiates and controls the entire photographic sequence.

And this same electromagnetic system meshes fully with the operation of all Real Time System accessories, to provide, for the first time, a true photographic 'system' capable of meeting every challenge.

As an integral part of the electromagnetic release system, the 139 Quartz includes a dial for setting the proper ASA film speed factor for films rated from 12 to 3200. The protective collar around the release rotates to allow exposure compensation (for strong backlighting or creative control over exposures without switching to full manual) in incremental steps.

The 139 Quartz features a full range of manual shutter speeds, from one to 1/1000th sec., along with bulb and X-synch settings. In the 'AUTO' position, the dial transfers full control of exposures back to the micro-computerized data processing center. One special feature of the 139 Quartz is the automatic setting of the proper X-synch shutter speed, by the Central Processing Unit, when the TLA-20 Auto Flash unit is employed.



## Full Information Viewfinder Display

A special 'Pulsar' LED display in the 139 Quartz viewfinder gives full exposure data information in the AUTO mode, an indication when the AE Lock system is operating, full information on proper manual exposure settings and indication of electronic flash operation. This LED display is activated for 10 seconds at a single touch of the exposure check button. In addition, a window at the top of the viewfinder indicates the aperture setting in use. Incorporated into the exposure check button is a special AE Lock control, which freezes exposure data to allow compensation for backlighting or other varying conditions. The AE Lock can also be set for continuous operation, when the 139 Winder is attached to the camera for sequential photography.

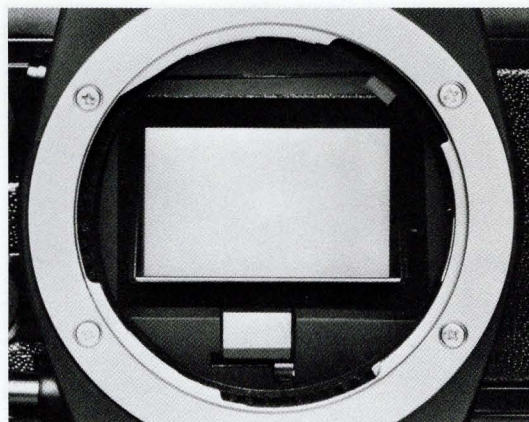
The rugged, secure, three-claw bayonet lens mount of the 139 Quartz is the same used for both the CONTAX and Yashica FR series, allowing the full range of Carl Zeiss T\* lenses or Yashica ML lenses to be used, along with all lens-mounting accessory equipment. This mount allows full automatic diaphragm operation and keeps the lens in perfect alignment at all times, while providing fast, simple, convenient changing of lenses.

The Quartz Self-Timer can be set by means of a simple lever on the front of the camera body, and activated by pressing the shutter button. The system provides a precise, 10-second delay, and operation is indicated by a flashing red LED. The LED flash accelerates during the final two seconds before the shutter releases, to warn that the actual photo process is about to begin.

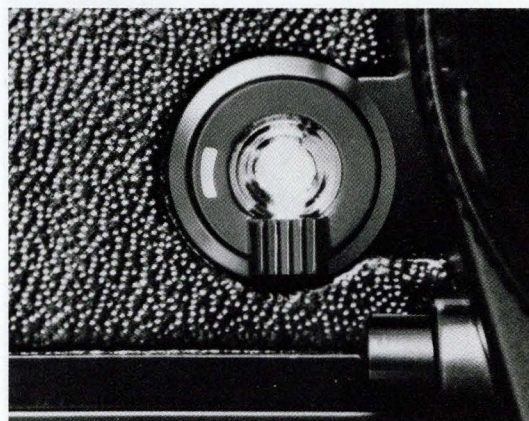
- **Exposure Control:** TTL, full-aperture, center-weighted metering EV 0-18 at ASA100 w/1.4 lens. ASA range 12-3200 (DIN 12-36).
- **Power Source:** two 1.55V silver-oxide batteries (Eveready S76, Ucar S76, Mallory MS76 or equivalent)
- **Size & Weight:** 135 x 85 x 50mm (5-5/16 x 3-3/8 x 2 in.) 500 grams (17.6 ozs.) (body) w/o batteries.



*Pressing the Exposure Check Button lights the LED exposure display system for 10 seconds ①. An AE Lock Lever can be used to 'freeze' exposure values ②.*



*This rugged, secure, three-claw Contax/Yashica bayonet mount allows full lens interchangeability, quickly and with ease.*

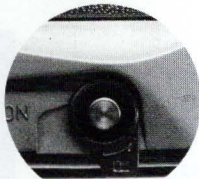


*The Quartz Self-Timer provides an exact 10-second delay in shutter release, with a flashing LED to indicate the timer is working.*



## CONTAX 139 WINDER II

Price



The improved Winder for the Contax 139 Quartz provides the added advantage of a new safety lock lever on the film rewind button, to guard against accidental disengagement of the film drive sprocket.

The highly convenient Contax 139 Winder offers sequential, automatic film advance at a continuous speed of two frames per second. The Winder couples at all shutter speeds, in both manual and auto exposure modes. Connecting directly to the base of the camera, via a simple threaded connection to the tripod socket, the Winder can be attached to the 139 Quartz in just seconds. In addition to sequential film advance, it provides continuous remote operation when used in conjunction with off-camera control systems available for Contax equipment. And the Winder also offers full operation with the new Yashica FX-D Quartz camera body. Operating on four 1.5V AA-size batteries, the Winder can handle approximately 20 rolls of 36-exposure film when powered by alkaline cells.

- **Winding Speed:** two frames per second, continuous.
- **Coupling Range:** Full coupling with all shutter speeds, auto or manual.
- **Operation:** Through camera shutter release or special release built into winder.
- **LED Display:** Lights to indicate film end.
- **Connection:** Via threaded tripod mount



## CONTAX DATA BACK QUARTZ D-6 (for Contax 139 Quartz)

Price

A new and more advanced data back, the Contax Data Back Quartz D-6, has been developed for dedicated use with the new Contax 139 Quartz camera body.

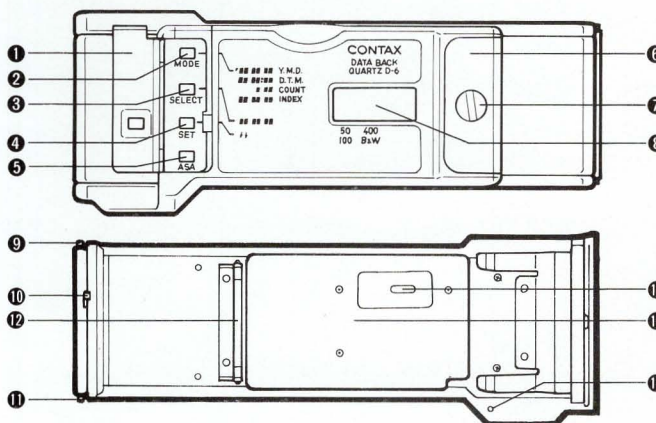
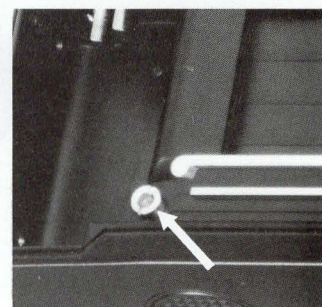
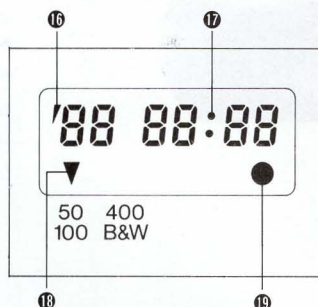
The Data Back Quartz D-6 offers a number of improvements and new features, starting with cordless operation and connection to the camera body. Internally, the most advanced feature added to this new unit is a built-in Quartz timing Device operating at the same 32,768-pulse rate as the Quartz Crystal Elements used in Contax camera bodies. This Quartz Timer allows the Data Back Quartz D-6 to provide a highly precise Date/Hour/Minute imprint, accurate to within  $\pm 15$  sec./month, along with the conventional Year/Month/Date capability set by the photographer. Other modes of use possible with the Data Back Quartz D-6 include auto serial counting from 000 to 399, and numerical, six-digit code indication. The unit can also be set in a non-record mode. In the Date/Hour/Minute mode, operation is fully automatic, with the Quartz Timer providing the proper settings (leap years taken into account). Other features of the Data Back Quartz D-6 include: two-stage ASA adjustment, built-in auto battery check circuit, time check indication, external LCD operation check indication. The Contax Data Back Quartz D-6 is powered by two batteries of the SR44 (3.1 V) or LR44 (3V) type.

### 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 (3.1V) or LR44 (3V).
- **Size:** 138 x 53 x 27mm (5-7/16 x 2-1/16 x 1-1/16 in.)
- **Weight:** 80 grams (w/o batt.) (2.8 ozs)

### Description of Parts

- |                             |                          |
|-----------------------------|--------------------------|
| ① Counter Cover             | ⑧ Display Window         |
| ② Mode Button               | ⑨ Hinge Pin              |
| ③ Select Button             | ⑩ Release Lug            |
| ④ Set/Time-Check Button     | ⑪ Hinge Pin              |
| ⑤ Film Speed Button         | ⑫ Film Pressure Roller   |
| ⑥ Battery Compartment Cover | ⑬ Data Imprinting Window |
| ⑦ Retaining Screw           | ⑭ Sensor                 |
|                             | ⑮ Film Pressure Plate    |



### (Display Window)

- ⑬ Pulsating mark indicating YMD Mode in effect
  - ⑭ Pulsating mark indicating DTM Mode in effect
  - ⑮ Film speed index
- Comes on to indicate speed rating of loaded film

- ⑯ Imprint confirmation mark
- Comes on (for one sec.) only when data is being imprinted. Indicates that data has been imprinted on film.