The Quartz Digital Revolution





- BODY ONLY w/6.2V silver-oxide battery or 6V alkaline-manganese battery, strap and eye cup Price
 - Standard Case Price
- Planar T* f/1.4 50mm Price Planar T* f/1.7 50mm Price

A New Dimension In Real Time Photography

The new CONTAX RTS II Quartz represents a quantum leap in Real Time Photography, combining all of the advantages of the original RTS camera with advanced new mechanical and electronics technology to produce a 35mm SLR more accurate, more consistent and more reliable than any other camera in the world.

Most of the improvements in the RTS II Quartz are internal, reflecting more advanced electronics and more reliable mechanical functions. The camera body itself retains the smooth, sleek Porsche design of the RTS, with a few new control points for its enhanced photographic capabilities.

Among the innovations found in the RTS II Quartz are: Quartz Crystal Timing of shutter speeds and all time-related camera functions; Dual SPD exposure metering for full compatibility with the Contax TLA Auto Electronic Flash System, Improved Shutter with Titanium curtains and shaft bearings; Exposure Value-based AE Lock function; Increased Field-of-View to 97% of the total picture area, Digital Viewfinder LED Data Display; Mechanical Shutter Release options at 1/50 sec. and B.

And these new features back up the outstanding Real Time operations retained from the original RTS body, including AE/Manual Mode exposure metering, 1/2000 sec. top shutter speed, Electromagnetic shutter release, Contax/Yashica 3-claw bayonet mount for Carl Zeiss T* lenses and complete integration of all system accessories.

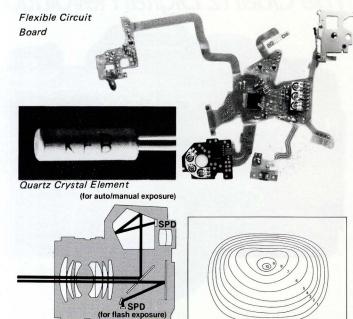
Naturally, all standard Real Time System accessories can be employed with the RTS II Quartz. Improved versions of the Professional Motor Drive (W-6 model) and Real Time Winder (W-3 model) have been specially developed [although previous PMD/RTW units may be used]. A new Quartz Data Back D-4 with remarkably expanded capabilities is available

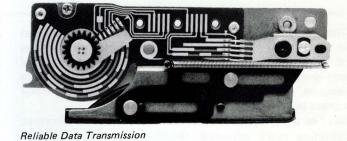
for the RTS II Quartz, along with an upgraded External Power Pack P-3 that offers considerably expanded power capacity. A special new series of interchangeable focusing screens (FS-type) has been introduced in conjunction with the increased 97% field-of view.



MAIN FEATURES:

- Quartz Crystal Timing The RTS II Quartz now features the same advanced Quartz timing perfected in the Contax 137 MD Quartz and 139 Quartz cameras, assuring exceptional accuracy and total consistency of shutter speeds and all time-related camera functions. The Quartz Crystal Element pulses at a rate of 32,768/second to offer shutter speeds immeasurably more accurate and consistent than any previous mechanical or electronic timing system. The Quartz element also regulates the timing of various operations within the camera body, to improve reliability, durability and consistency of operation.
- Dual SPD Exposure Metering Two Silicon Photo Diode (SPD) cells within the camera body provide instantaneous reaction to even the slightest variation in lighting. One SPD is employed for ambient light exposure measurement, the other for Contax TLA flash exposure control. The SPDs measure center-weighted light patterns, at maximum aperture, for optimum exposure accuracy.
- Central Processing Unit The heart of the RTS II Quartz is a sophisticated C-MOS LSI microprocessing 'chip' which, together with the Quartz Element, comprises the camera's Central Processing Unit. This CPU accepts exposure information in digital values (converted from analog by a Bi-MOS Integrated Circuit) and relays commands to the camera's operating circuitry. The data processing capabilities of this CPU would have required entire rooms of computer equipment just one generation ago; today they are fully integrated on a single flexible circuit board fitting inside the camera body.



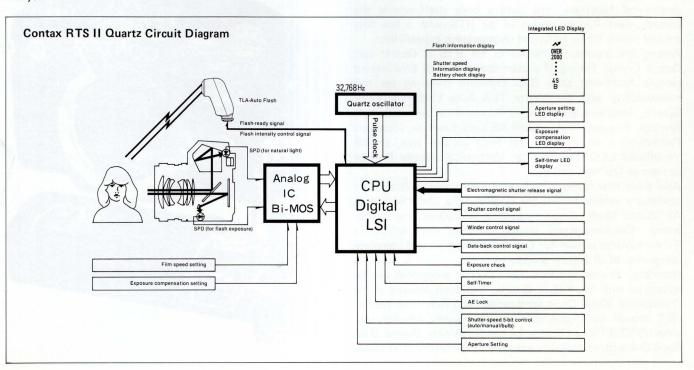


Center-weighted metering

pattern for auto/manual exposure

Pathway of Light to Metering

System

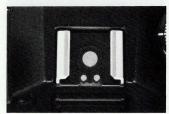




Auto Exposure (AE) Mode



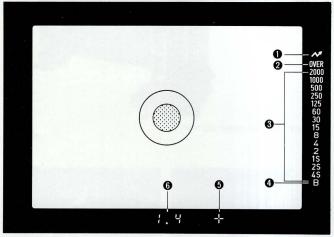
Manual Exposure Mode



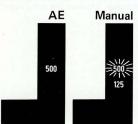
Contax Hot-Shoe with TLA circuit contacts.



Center-weighted Metering Pattern for TLA Flash Photography



●TLA Flash Ready/After-Flash Signal Mark ②Over-Exposure Warning ③Shutter Speed Display ④Steadily-lit(Correct exposure for long time-exposure up to 16 seconds) Flickering (Under-Exposure Warning) ⑤ Exposure Compensation Warning ⑥ Digital Aperture Display



AE/Manual Mode Indication: Indication as to whether the RTS II Quartz in operating in AE or Manual exposure mode is provided by the Shutter Speed LED Display.



Exposure Compensation Indication: Use of the camera's exposure compensation function is indicated by the lighting of a (+) or (-) LED at the bottom of the frame.

- AE/Manual Mode Exposure Control Both AE and Manual operating modes are available with the RTS II Quartz. In the AE Mode, the camera's CPU determines shutter speed automatically, according to the other exposure factors. In the Manual Mode, the camera "recommends" a shutter speed for optimal exposure to the photographer. [AE Mode shutter speeds are stepless within a range of 16 to 1/2000 sec.; Manual Mode shutter speeds range from 4 to 1/2000 sec., and include "B" and "X" (1/60 sec.) settings.]
- TLA Auto Flash Compatibility The RTS II Quartz offers complete compatibility with The Contax TLA flash system, including direct TTL metering of flash exposures at the film plane and 'Fail-Safe' automated control of flash/shutter synchronization. Flash output is metered by an SPD cell, and monitored by the CPU which signals cutoff of the flash when perfect exposure has been achieved. The camera automatically switches between proper X-synch shutter speeds and ambient lighting shutter speeds, depending on the readiness of the TLA unit to fire. AE Lock or Manual Mode use allows setting of shutter speeds slower than the standard 1/60 sec. speed used for X-synch.
- Viewfinder LED Data Display An improved, digital LED data display in the RTS II Quartz viewfinder provides the photographer with full information on Shutter Speeds, Aperture, AE/Manual Mode operation, AE Lock use, Exposure Compensation use, TLA Flash 'Ready' indication, Accurate TLA Flash Exposure, OVER Exposure warning and Battery Check. The LED Display is turned on by pressing the Exposure Check Button on the front of the camera body. After 16 seconds the display cuts off, to conserve battery power, and can be activated again simply by pressing the button once more.

AE Mode shutter speeds are indicated by a steadily-lit LED. Use of the camera's exposure metering system in Manual Mode requires alignment of two LEDs, one steadily lit at the recommended shutter speed, the other flashing at the set shutter speed. Alignment is possible by adjusting either shutter speed or aperture settings.

AE Lock use in AE Mode is indicated by a flashing, rather than steadily-lit shutter speed LED.

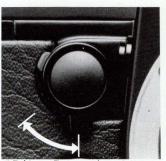
In TLA Mode (automatic when TLA unit is attached to camera), a steadily-lit green arrow LED indicates the flash unit is prepared to fire. This LED also operates as a 'confidence light', flickering after a flash exposure if the exposure was correct. [Note: possible over-exposure of scene is indicated by "OVER" LED in all modes.]

Exposure Compensation use is indicated by red +/- LEDs at the bottom of the frame, next to the aperture LED.

Automatic Battery Check is provided by the data display. If the display flickers at slow intervals when turned on, batteries should be replaced.

The viewfinder LED data display also features a special two-stage control which automatically brightens or dims the LED indicators, according to ambient lighting.

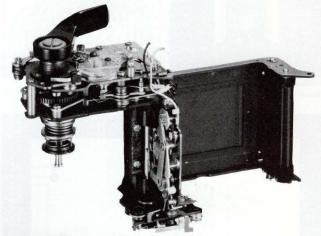
- AE Lock Function The AE Lock function of the RTS II Quartz is of a wholly new type, based on Exposure Value factors. Rather than freezing the exposure system at a particular shutter speed, the RTS II Quartz freezes in an Exposure Value, so that any adjustment of aperture will result in automatic adjustment of shutter speed to maintain consistent exposure. This new system is particularly advantageous in providing for photo series, in which exposure is consistent while depth-of-field varies.
- Exposure Compensation Function: In order to allow the photographer to vary exposure for creative effect, the RTS II Quartz incorporates an Exposure Compensation Function providing for ±2EV exposure variance, with intermediate click-stops. The main uses of this function are in overcoming moderate back or side-lighting, or as a means of bracketing exposures under difficult lighting conditions.
- Improved Shutter The RTS II Quartz features an entirely new shutter mechanism, with Titanium curtains for improved high-speed accuracy and consistency and increased durability. Only half the weight of standard cloth shutter curtains, these Titanium curtains offer extreme resistance to heat and cold. Six shutter shaft bearings guarantee smoother operation with reduced friction, while a special declutching mechanism frees the shutter itself from the film wind mechanism after cocking, to lighten the running load and eliminate inertial drag. A wedge-shaped shutter brake is highly effective in damping shock, contributing to reduced wear and increased consistency.
- Electromagnetic Release Naturally the RTS II Quartz features the standard Contax electromagnetic shutter release, with its feather-touch 0.7mm stroke and full system compatibility for electronic accessories. In the RTS II Quartz, however, this is backed up by two optional manual mechanical release capabilities. To use the camera at a mechanical 1/50 sec. shutter speed, the photographer turns the Mechanical Shutter Switch Lever to the horizontal position. This turns the Depth-of-Field Preview Button into a mechanical shutter release button for 1/50 sec. operation. The camera can also be used at a mechanical B (Bulb) setting by threading a standard cable release into the mechanical release socket (lower right side of lens mount). This feature is useful in conserving battery power during extremely long exposures (astrophotography, etc.).
- ullet 97% Field-of-View In order to prevent the appearance of distracting, unwanted elements in the final image, the RTS II Quartz features a field-of-view increased to 97% of the picture area.



AE (Auto Exposure) Lock Lever



Exposure Compensation Dial/ Film Speed Ring



Titanium, Quartz-timed shutter



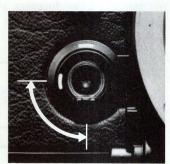
Electromagentic Shutter Release



Mechanical Shutter Switch Lever



Contax/Yashica Bayonet Mount



Self-Timer LED Indicator



Main Switch



Shutter Dial Lock-Release Button

- Contax/Yashica Bayonet Mount The RTS II Quartz offers complete integration with all Carl Zeiss T* lenses and Contax Real Time System optical-path accessories through use of the standard three-claw bayonet lens mount. This rugged, durable stainless steel mount provides optimum linkage between the camera body and either lenses or accessories, and is designed to withstand even long years of hard, professional use.
- Quartz Self-Timer A Quartz-timed, 10-second delay Self-Timer is incorporated into the RTS II Quartz. The Self-Timer can be reset or cancelled at any time during operation, which is indicated by a flashing red LED on the front of the camera body (flashes accelerate during the final two seconds before shutter release).
- Auto 1/60 sec. Wind-On When new film is loaded in the camera and the camera back is closed, a shutter speed of 1/60 sec. is automatically set (AE or Manual Modes, except "B") until film wind to Frame 1 in the counter is reached. This is particularly convenient for the photographer who loads film in the shade, to prevent unduly long AE shutter speeds while winding on to Frame 1. Normal AE or Manual shutter speeds begin with Frame 1.

OTHER FEATURES:

Othe special features of the Contax RTS II Quartz include: a built-in eyepiece shutter, shutter dial locks at A and X positions, a Main Switch controlling all electronic circuitry, a screw-in flash terminal and release socket, a flip-up key for the battery cap (rather than the standard coin-slot type) and a memo-holder on the back cover.

EXCLUSIVE ACCESSORIES:

Exclusive accessories for use with the RTS II Quartz include: External Power Pack P-3, Professional Motor Drive (W-6), Real Time Winder (W-3), FS-type Focusing Screens and Data Back Quartz D-4.

SYSTEM ACCESSORIES:

All Contax Real Time System accessories integrate fully with the RTS II Quartz camera, including Close-Up/Macro and Off-Camera Control Systems, TLA Auto Flash equipment and Carl Zeiss T* lenses.

New Focusing Screens (FS Type)

Because of the increased field-of-view of the RTS II Quartz, a whole new series of Focusing Screens has been developed, the FS Type, enlarged to dimensions of 37.3×25.9 mm. The new Focusing Screens come in eight variations. Seven of these are identical to those for the original RTS, while one new model especially for use with the Data Back Quartz D-4 has been added.

FS-1 Microprism Screen: This is the standard screen provided with the RTS II Quartz body. When the subject is in sharp focus, the image appears crisp and sharp within the center microprism area.

FS-2 45° **Split-Image Screen:** This is an extremely handy screen useful for most photo applications. The diagonal split-image focusing aid indicates sharp focus by the aligning of the two halves of the image.

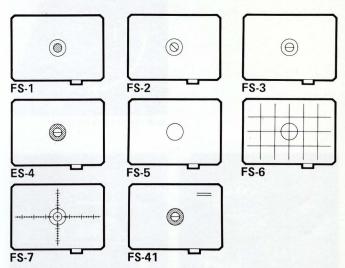
FS-3 Horizontal Split-Image Screen: Especially convenient for subjects having sharp vertical lines (Horizontal format) or horizontal lines (Vertical format). This screen is widely used, for example, in architectural photography.

ES-4 Split-Image/Microprism Collar Screen: Combining the advantages of both types of screens, this allows the photographer to employ the split-image focusing aid for subjects with sharp lines, or the microprism collar for generalarea focusing sharpness.

FS-5 Matte Screen: This screen has an overall, uniform matte field that allows critical focusing over wide areas. It is especially useful with telephoto lenses.

FS-6 Sectioned Matte Screen: This screen too has an overall matte field, but also features cross-section horizontal and vertical lines that can be exceptionally useful in checking perspective or proportions, or insuring proper alignment of horizons.

FS-7 Cross-Scale Screen: An overall matte field featuring vertical and horizontal cross-scale aids that allow the photographer to make size comparisons, proportional checks, etc. FS-41 Horizontal Split-Image/Microprism Collar w/Data Position: This is a new screen specially adapted for use with the RTS II Quartz Data Back. The horizontal split-image and microprism collar focusing aids insure sharpness, while a special section of the screen indicates where data will be imprinted in the frame.



Note: All FS Type Focusing Screens for the RTS II Quartz come with handling tweezers included.

CONTAX RTS II QUARTZ Specifications:

• TYPE: 35mm single-lens reflex with aperture-preferred automatic exposure and manual capability, direct TTL auto flash control, and Quartz-timed operation. • VIEWFINDER: Silver-coated pentaprism type. Shows 97% of picture area at 0.87x magnification. Eyepiece shutter to block out extraneous light. • LENS MOUNT: Contax/Yashica 3-claw bayonet. • SHUTTER: Quartz-timed, electronically controlled horizontal travel Titanium focal plane shutter. AE mode -1/2000 sec. to 16 sec. speeds. Manual mode -1/2000 sec. to 4 sec. speeds with "B" and "X" (1/60 sec.). Built-in mechanical release at 1/50 sec. and "B" without battery power. • SHUTTER RELEASE: Electromagnetic with 0.7mm stroke. Release socket for off-camera electronic remote control. • ELECTRONIC SELF-TIMER: Quartz-timed with 10 sec. delay. Red LED flashes to indicate operation. • EX-POSURE CONTROL: Center-weighted TTL metering. Flash metering at film plane. EV range -1 to 19 (ASA 100, f/1.4). Manual override and control. ● ASA RANGE: 12-3200 • AE LOCK: Activated by AE Lock lever, locks in EV setting. Continuous operation possible. • VIEWFINDER DIS-PLAY: Numerical LED array indicating shutter speed, aperture, exposure compensation LED (+, -), over/under warning, TLA flash status. Numerical shutter speed LEDs flash to indicate AE Lock operation. • FILM ADVANCE: Manual advance with 120° stroke, ratchet, 3 frames per second with Real Time Winder (W-3) or 5 frames per sec. with PMD (W-6). ● EXPOSURE COMPENSATION: ±2 EV with click-stop every. 0.5EV. • EXPOSURE COUNTER: Auto resetting type, accumulative. (Camera will automatically set 1/60 sec, shutter speed until counter advances to "1" except at manual "B" shutter speed.) ● MULTIPLE EX-POSURE: Possible by depressing Film Rewind Button. BATTERY CHECK: Low power level indicated by flickering light pattern of viewfinder LED data display.

POWER SOURCE: 6.2V silver-oxide battery (4RS44) or 6V alkalinemanganese battery (4LR44). Provided with a main switch. • SIZE: $142 \times 89.5 \times 50$ mm (Body only) $(5\frac{9}{16} \times 3\frac{1}{2} \times 2 \text{ in})$ WEIGHT: 735 grams (Body only, w/o battery.) (25.93 ozs)

CONTAX REAL TIME WINDER W-3

Price





To complement the improved capabilities of the new Contax RTS II Quartz, Contax also offers a new Real Time Winder, the W-3 model. The most visible new feature of the RTW W-3 is its grip-style design for easier handling and greater convenience. The winder incorporates two electromagnetic shutter releases, one on the grip itself and one on the winder body for faster, surer operation in the vertical format. In addition, the camera's own release may be employed, providing three ways to operate the camera/winder unit.

Internally, the RTW W-3 features improved electronic circuitry and greater power, sufficient to provide a maximum operating rate of three frames/second, equal to that of many motor drive units.

This new winder also features a design improvement allowing easier and more convenient handling. Battery replacement is now made via a side-insertion battery holder, so that the camera/winder unit need not be removed from a tripod to change batteries.

[Note: The RTW W-3 can be used with the Contax RTS body.]

Specifications:

• Film Drive Modes: Single-Frame or Continuous (at three frames/second). Usable at all shutter speeds, in AE or Manual modes. ● Maximum Operating Speed: Three frames/second (Continuous). ● Auto Stop System: Power is automatically cut off when end of film is reached; indicated by LED. ● Shutter Release: Operation by two built-in Shutter Release Button. ● Operation Checks: Battery/Operation check button. ● Power Sources: [1] Six 1.5V AA-size batteries (Ni-Cd batteries usable), side-loading [2] External Power with RTW Power Pack utilizing either AA-size batteries or RTW Ni-Cd Pack. ● Remote Control Accessories: Contax Cable Switches, Contax Infrared Controller S Set, Contax Radio Controller Set. ● Size: 152 x 79 x 64 mm (6 x 3½ x 2½ in) ● Weight: 360 grams (w/o batt.) (12.7 oz)

CONTAX PROFESSIONAL MOTOR DRIVE UNIT W-6

Price

The heart of any professional quality 35 mm SLR camera system is a professional quality motor drive unit. Contax recognized this from the start, and introduced the original Professional Motor Drive unit with the original RTS camera body as an integrated part of the total Real Time System.

Now, with the introduction of the new RTS II Quartz, Contax has also developed a new Professional Motor Drive unit, the W-6 model, which integrates completely with the new camera body. There are no visible differences to mark the new PMD W-6, but considerable improvements have been made in the internal circuitry of the unit, to offer added voltage stabilization.

In all other respects the PMD W-6 is identical in features and specifications to the original PMD, offering the same five frames/second maximum performance and the total integration that allows Real Time operation together with the camera. In addition to the maximum rate, the PMD W-6 allows the photographer to select the shooting rate via a built-in intervalometer offering settings from 60 seconds to 30, 10, 5, 2 and one second, along with five, three or two frames/second sequential operation. The PMD W-6 can also be fitted with the convenient 250 Film Back for extended shooting. The Motor Drive unit operates via the camera's release button or by its own built-in shutter release, or through the use of the PMD Power Pack release or other Real Time System off-camera control accessories.

Specifications:

• Type: Grip-type motor drive with built-in intervalometer.

 Mounting: Direct to camera body via tripod socket. • Operating Speeds: Five frames/second at (Intervalometer's) "H" setting; 3f/s at "1/3", 2f/s at "1/2"; additional settings for 1, 2, 5, 10, 30 & 60-second intervals; single-frame release at "S" (60-second) setting. • Shutter Release: Sequential via built-in release buttons on PMD or Power Pack; singleframe via camera body release. • Sequential Flash Capability: Maximum of five flashes/second when used with Real Time Flash 540 unit. • Film Capacity: 36 exposures (250 exposures with special 250 Film Back accessory.) • Frame Counter: 36-frame subtractive-type with lock, manually reset. Power Sources: [1] PMD Power Pack utilizing two PMD Battery Cases (each holding six AA-size cells) [2] AC Control Box (120V & 220V models available). • Remote Control Accessories: Contax Cable Switches, Contax Infrared Controller S Set, Contax Radio Controller Set, AC Control Box. • Size: 149 x 98.5 x 65.5mm ($5^{7/8}$ x $3^{7/8}$ x $2^{9/16}$ in) Weight: 430 grams (15.2 ozs)

PMD Power Pack Specifications:

Power Source: 12 AA-size batteries (18V) installed in two
 PMD Battery Cases. ● Battery Check: Built-in meter-type battery check. ● Other Features: 3P terminals for connecting the PMD Control Cord and tripod socket ● Size: 149 x
 72 x 36mm ● Weight: 250 grams (w/o batteries)

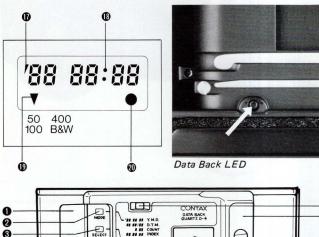


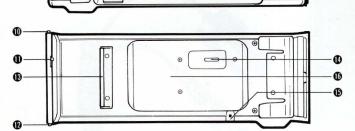


CONTAX DATA BACK QUARTZ D-4

Price



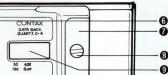




Description of Parts

SET

- O Counter Cover
- 2 Mode Button
- Select Button
- 4 Set/Time-Check Button
- Film Speed Button
- 6 Manual Imprinting Button
- Battery Compartment Cover



Retaining Screw

Display Window

- M Hinge Pin
- Release Lug
- Hinge Pin
- B Film Pressure Roller
- Data Imprinting Window
- Sensor

A new and more advanced data back, the Contax Data Back Quartz D-4, has been developed for dedicated use with the new Contax RTS II Quartz camera body.

The Data Back Quartz D-4 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-4 to provide a highly precise Date/Hour/Minute imprint, accurate to within ±15"/month, along with the conventional Year/Month/Data capability set by the photographer. Other modes of use possible with the Data Back Quartz D-4 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-4 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-4 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; Data/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). [Data Imprint Button can be used for manual operation.] • 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: 142 x 55 x 23,5mm $(5^{9}/_{16} \times 2^{3}/_{16} \times {}^{15}/_{16} \text{ in}) \bullet \text{Weight: } 100 \text{ grams (w/o batt.)} (3.6)$ ozs)
- Film Pressure Plate

(Display Window)

- 1 Pulsating mark indicating YMD Mode in effect
- Pulsating mark indicating DTM Mode in effect
- Film speed index Comes on to indicate speed

rating of loaded film

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

CONTAX EXTERNAL POWER PACK P-3

Price

Protection against extreme cold is vital to camera batteries. To provide this protection, the new External Power Pack P-3 has been developed for use with the Contax RTS II Quartz. The External Power Pack P-3 provides a considerable increase in battery capacity over the unit used with the original Contax RTS. It accepts four 1.5V AA-size batteries in a case that can be kept warm inside coat or pocket. The battery case is connected to the camera via a silicon-coated, cold-proof cord with a plug that fits into the camera body's battery chamber. The connecting cord is 1.5-meters in length for convenience and versatility.

The new External Power Pack P-3 Set for the Contax RTS II Quartz consists of the Power Adapter, Battery Case and new Power Pack P-3 with Cord and Jacket. This set can be used with the Contax RTS camera body.

Contax External Power Pack P-3 Specifications:

Usable Camera: Contax RTS II Quartz, Contax RTS
 Camera Connection: Connects to the camera body's battery chamber.
 Power Source: Four 1.5V AA-size batteries.
 *Ni-Cd batteries can not be used.
 Cord: Length; 1.5m Silicon-coated, cold-proof cord.



CONTAX RTS EXTERNAL BATTERY HOLDERS

Price

This unit plusg into the battery compartment of the RTS & RTS II Quartz power source at the other end of a one-meter cord for keeping the battery warm in a pocket, etc., during cold-weather conditions.

