

# **Contax/Yashica 35mm SLR Camera System**



# YASHICA

## *The Quartz Digital Revolution*



### *New* **CONTAX RTS II QUARTZ**

- 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.

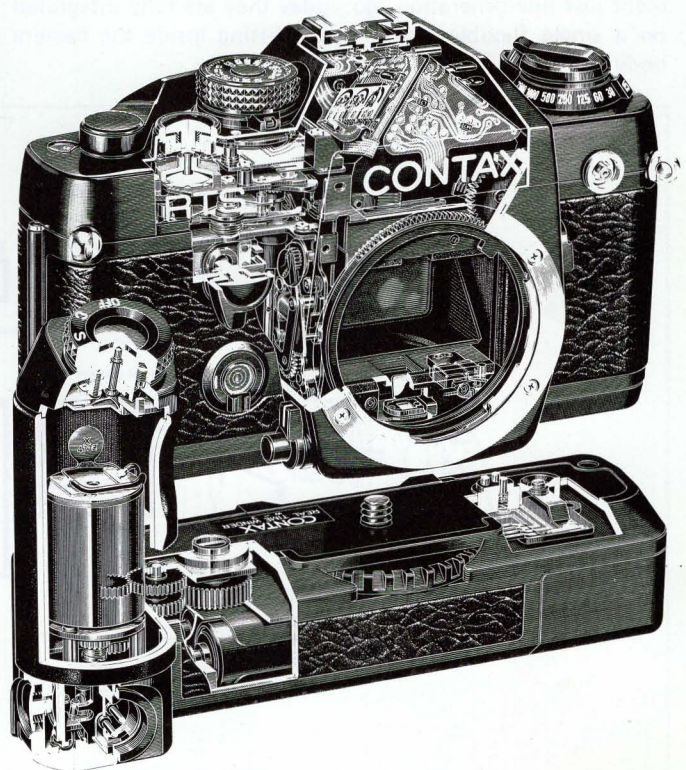
Most of the improvements in the RTS II Quartz are internal, reflecting more advanced electronics and more reliable mechanical functions. The camera body itself retains the smooth, sleek Porsche design of the RTS, with a few new control points for its enhanced photographic capabilities.

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.





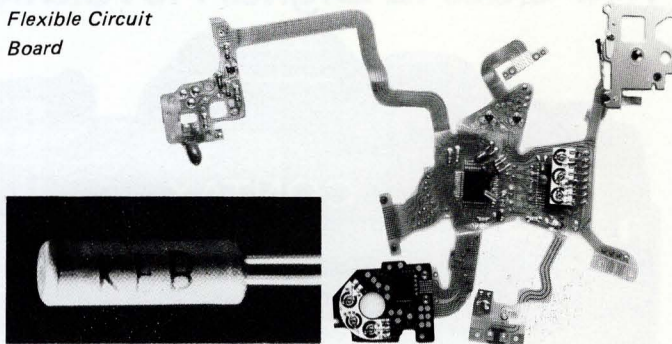
## MAIN FEATURES:

- 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.

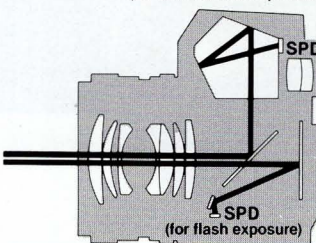
- Dual SPD Exposure Metering** — Two Silicon Photo Diode (SPD) cells within the camera body provide instantaneous reaction to even the slightest variation in lighting. One SPD is employed for ambient light exposure measurement, the other for Contax TLA flash exposure control. The SPDs measure center-weighted 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.

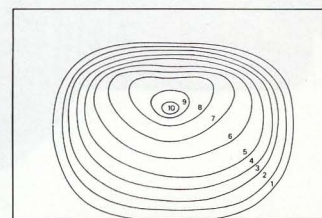
*Flexible Circuit Board*



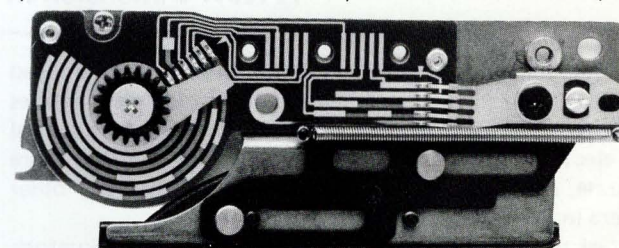
*Quartz Crystal Element  
(for auto/manual exposure)*



*Pathway of Light to Metering System*

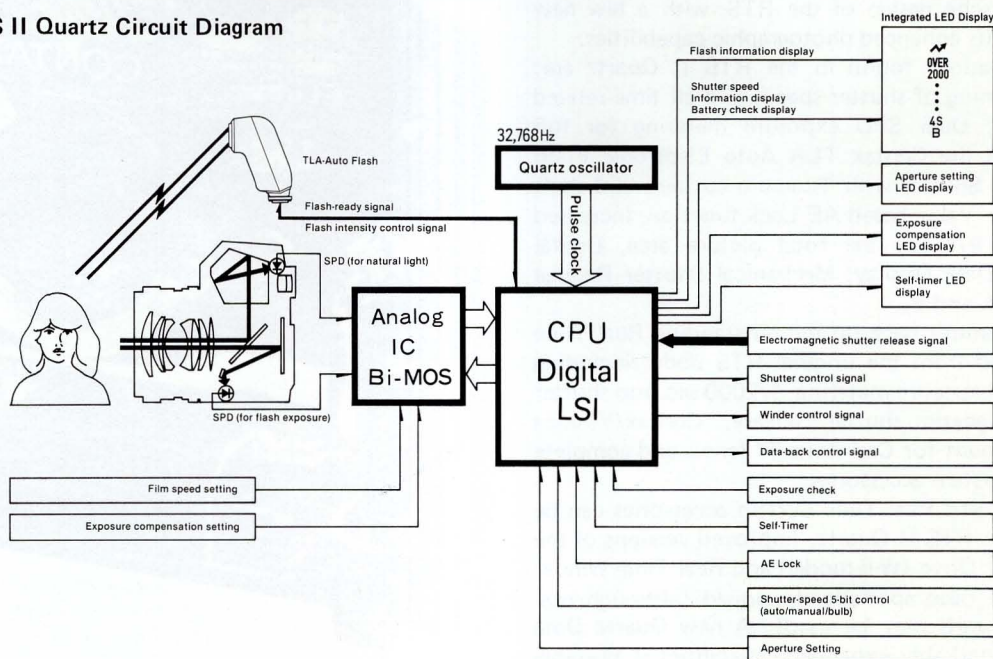


*Center-weighted metering pattern for auto/manual exposure*

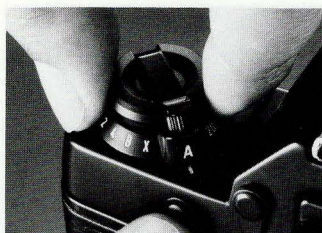


*Reliable Data Transmission*

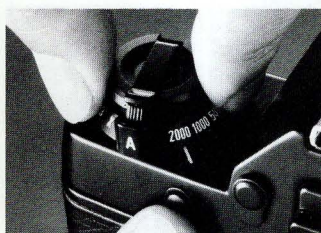
## Contax RTS II Quartz Circuit Diagram



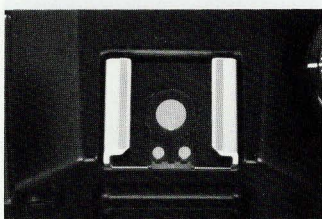




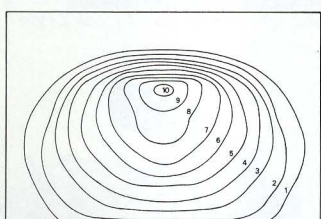
Auto Exposure (AE) Mode



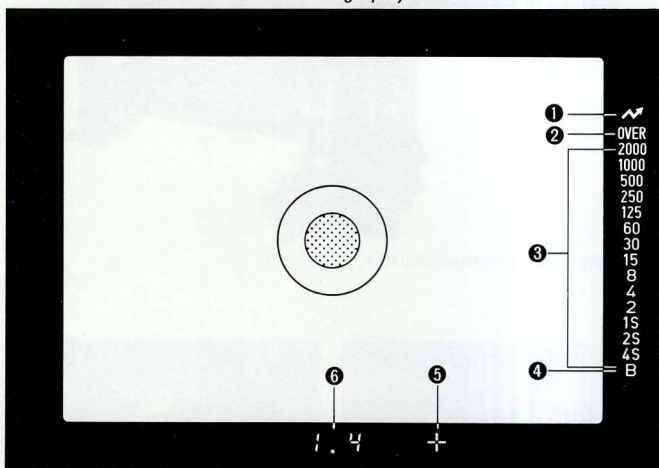
Manual Exposure Mode



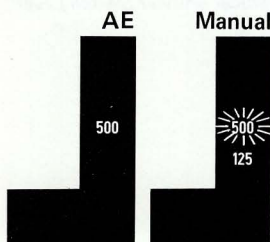
Contax Hot-Shoe with TLA circuit contacts.



Center-weighted Metering Pattern for TLA Flash Photography



- ① TLA Flash Ready/After-Flash Signal Mark
- ② Over-Exposure Warning
- ③ Shutter Speed Display
- ④ Steadily-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 is 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.



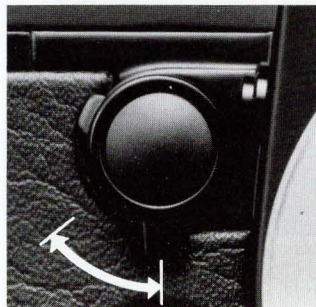
- AE Lock Function** — The AE Lock function of the RTS II Quartz is of a wholly new type, based on Exposure Value factors. Rather than freezing the exposure system at a particular shutter speed, the RTS II Quartz freezes in an Exposure Value, so that any adjustment of aperture will result in automatic 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  $\pm 2\text{EV}$  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.).

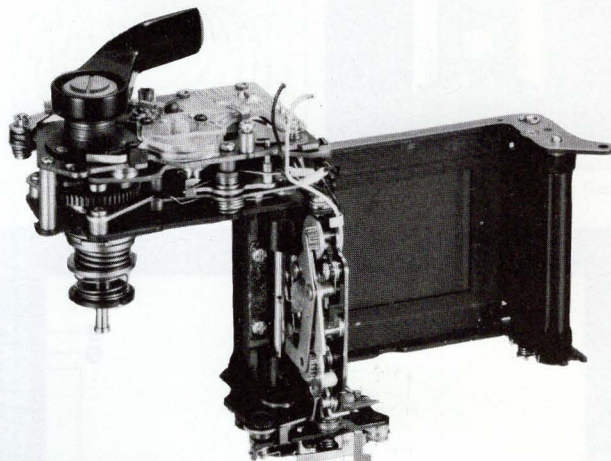
- 97% Field-of-View** — In order to prevent the appearance of distracting, unwanted elements in the final image, the RTS II Quartz features a field-of-view increased to 97% of the picture area.



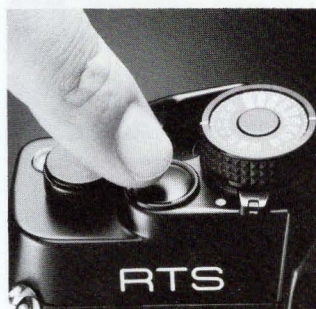
*AE (Auto Exposure) Lock Lever*



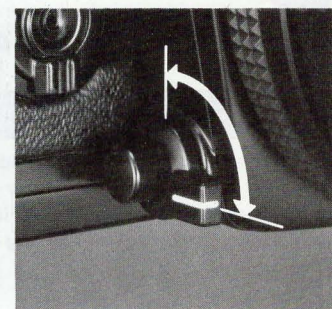
*Exposure Compensation Dial/  
Film Speed Ring*



*Titanium, Quartz-timed shutter*

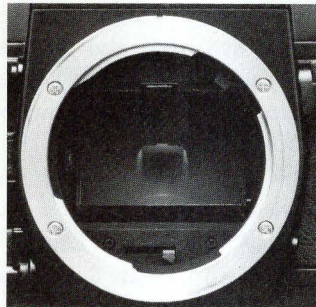


*Electromagnetic Shutter Release*

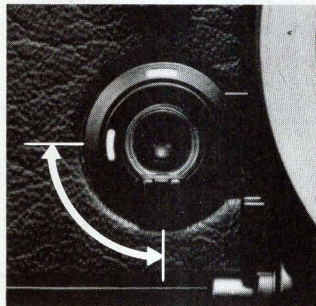


*Mechanical Shutter Switch Lever*





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:

Other 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 x 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.

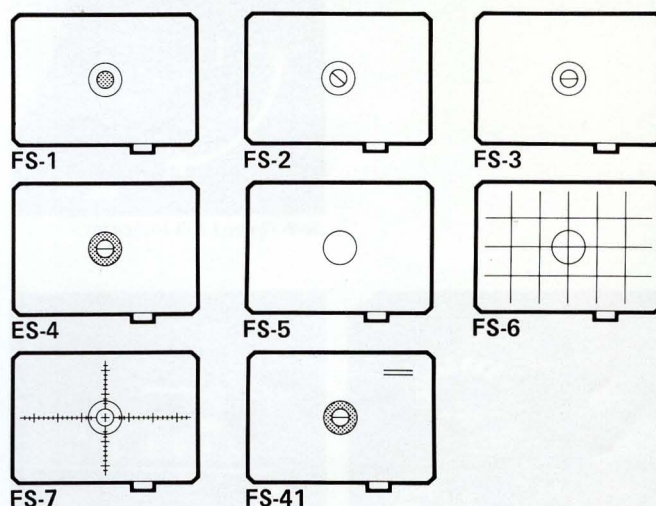
**ES-4 Split-Image/Micropism Collar Screen:** Combining the advantages of both types of screens, this allows the photographer to employ the split-image focusing aid for subjects with sharp lines, or the micropism collar for general area focusing sharpness.

**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/Micropism 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 micropism 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. • **EXPOSURE 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 set-

ting. Continuous operation possible. • **VIEWFINDER DISPLAY:** 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 EXPOSURE:** 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 alkaline-manganese battery (4LR44). Provided with a main switch. • **SIZE:** 142 x 89.5 x 50mm (Body only) (5<sup>9</sup>/<sub>16</sub> x 3<sup>1</sup>/<sub>2</sub> x 2 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 3<sup>1</sup>/<sub>8</sub> x 2<sup>1</sup>/<sub>2</sub> 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; single-frame 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<sup>7</sup>/<sub>8</sub> x 3<sup>7</sup>/<sub>8</sub> x 2<sup>9</sup>/<sub>16</sub> in)
- **Weight:** 430 grams (15.2 ozs)

### PMD Power Pack Specifications:

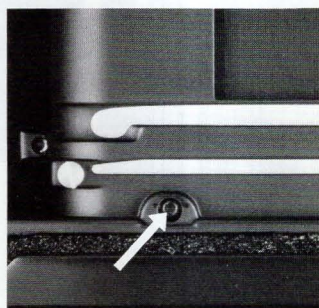
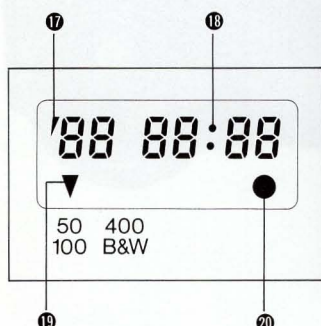
- **Power Source:** 12 AA-size batteries (18V) installed in two PMD Battery Cases.
- **Battery Check:** Built-in meter-type battery check.
- **Other Features:** 3P terminals for connecting the PMD Control Cord and tripod socket
- **Size:** 149 x 72 x 36mm
- **Weight:** 250 grams (w/o batteries)



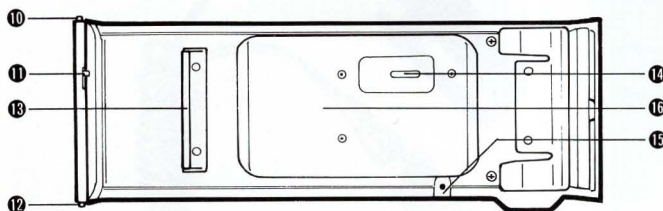
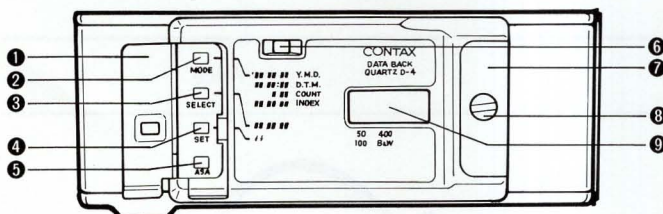


## CONTAX DATA BACK QUARTZ D-4

Price



Data Back LED



### Description of Parts

- |                             |                           |
|-----------------------------|---------------------------|
| 1 Counter Cover             | 8 Retaining Screw         |
| 2 Mode Button               | 9 Display Window          |
| 3 Select Button             | 10 Hinge Pin              |
| 4 Set/Time-Check Button     | 11 Release Lug            |
| 5 Film Speed Button         | 12 Hinge Pin              |
| 6 Manual Imprinting Button  | 13 Film Pressure Roller   |
| 7 Battery Compartment Cover | 14 Data Imprinting Window |
|                             | 15 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  $\pm 15''$ /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 ( $5\frac{9}{16} \times 2\frac{3}{16} \times 1\frac{5}{16}$  in)
- **Weight:** 100 grams (w/o batt.) (3.6 ozs)

- |   |  |
|---|--|
| 16 Film Pressure Plate                          | rating of loaded film                                      |
| (Display Window)                                | 20 Imprint confirmation mark                               |
| 17 Pulsating mark indicating YMD Mode in effect | Comes on (for one sec.) only when data is being imprinted. |
| 18 Pulsating mark indicating DTM Mode in effect | Indicates that data has been imprinted on film.            |
| 19 Film speed index                             |  |
| Comes on to indicate speed                      |  |



## 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:

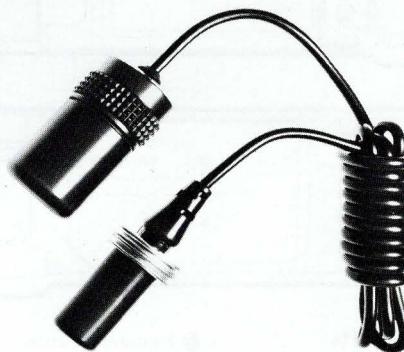
- **Usable Camera:** Contax RTS II Quartz, Contax RTS
- **Camera Connection:** Connects to the camera body's battery chamber.
- **Power Source:** Four 1.5V AA-size batteries. \*Ni-Cd batteries can not be used.
- **Cord:** Length; 1.5m Silicon-coated, cold-proof cord.



## CONTAX RTS EXTERNAL BATTERY HOLDERS

Price

This unit plugs 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.







*New*

## Contax 137 MA QUARTZ

- BODY ONLY w/four AA-size batteries & strap Price .....
- STANDARD CASE Price .....
- PLANAR T\* f/1.4 50mm Price .....
- PLANAR T\* f/1.7 50mm Price .....

### Real Time Direct Drive With Auto/Manual Exposure Capabilities

The extraordinary capabilities of the Contax 137 MA Quartz make it one of the most innovative and exciting single-lens reflex cameras ever created. Designed as an integral part of the famed Contax Real Time System of photography, the 137 MA Quartz incorporates high level professional features that allow its use in even the most sophisticated circumstances, and at the same time is so simple to operate that even beginning photographers will find their abilities enhanced.

**Three important new features** characterize the 137 MA Quartz, and differentiate it from the Contax 137 MD Quartz: **Manual Exposure Controls** backing up the aperture-preferred auto exposure system;

**Faster Real Time Direct Drive** at a maximum continuous rate of three frames-per-second;

**Clutch Disengagement System** for the film rewind crank, to make film winding and rewinding smoother and more stable. The development goal of the 137 MA Quartz was to further improve the basic Real Time Direct Drive concept, in which a single, fully integrated micro-motor controlled by Quartz pulses directly drives all camera operations: mirror, aperture, shutter and film advance. At the same time, the full range of

manual shutter speeds was incorporated into the camera, in order to provide the professional or advanced amateur photographer with more control over exposure factors.

Real Time Direct Drive was improved by increasing the firing rate to **three frames-per-second**, equal to that of many motor drive systems offered with other cameras. Yet, the Contax 137 MA Quartz remains exceptionally quiet and vibration-free — an important factor in its extreme durability and reliability. The clutch disengagement system used in the 137 MA Quartz is the same as that proven so reliable in the Contax RTS and RTS II Quartz cameras. By disengaging the film rewind and wind gearing completely, this system vastly improves the smoothness and reliability of the overall film movement, contributing to a reduction in friction that in turn increases the durability of the camera's moving parts.

And, of course, these improvements in the 137 MA Quartz are backed up by the famed precision of the Quartz Crystal Element that regulates shutter speeds and time-related operations of the camera to a degree of accuracy unprecedented in photography, and by the accuracy and sensitivity of a micro-processing exposure calculation system based on SPD (Silicon Photo Diode) metering.



# YASHICA

## MAIN FEATURES:

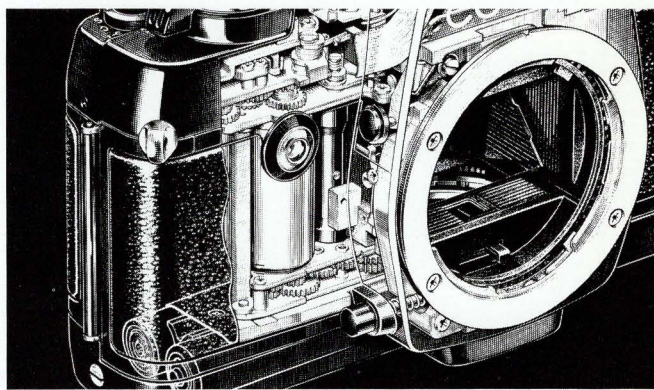
- **Real Time Direct Drive at 3fps** — The Real Time Direct Drive concept, first introduced in the Contax 137 MD Quartz and now improved in the 137 MA Quartz, is revolutionary in its approach. A single, fully-integrated micro-motor directly operates the shutter, mirror, aperture and film advance mechanisms. This reduces moving parts and simplifies overall operation, thus resulting in less noise and vibration, more reliability and durability.

Even at a maximum firing rate of three frames-per-second, the Contax 137 MA Quartz remains quieter 'on the job' than standard 35mm SLR cameras, and no larger in size, despite the complex micro-motor and drive systems built into the body.

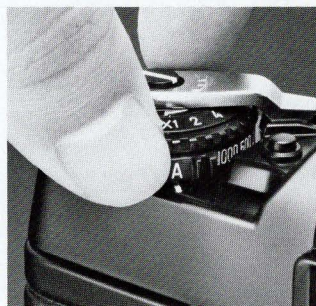
- **Dual AE/Manual Exposure Control Systems** — The 137 MA Quartz allows the photographer to select either aperture-preferred AE exposure control or full MANUAL exposure control. In both modes, exposure data is provided by a sophisticated C-MOS LSI microchip that offers digital exposure values for increased accuracy. In AE mode the camera signals approximate shutter speed through the Viewfinder LED Display; in Manual mode, the photographer employs this display as a guide to setting accurate exposure factors. AE mode shutter speeds range from LT (11 sec.) to 1/1000 sec. Manual mode speeds can be set from one to 1/1000 sec., plus Bulb and X-synch (1/60).

- **Quartz Timing Controls** — A Quartz Crystal Element generating 32,768 pulses each second completely regulates shutter speeds and all other time-related functions of the 137 MA Quartz for total timing accuracy and consistency. Shutter speeds are Quartz-timed in both AE and Manual exposure modes, for more accurate and consistent exposure results. And, Quartz control also remains in effect for the timing of aperture, mirror and film advance operations, as well, no matter how the camera is used, or what accessory equipment is attached. The Quartz control system makes the Contax 137 MA Quartz one of the world's most accurate, consistent and reliable SLRs.

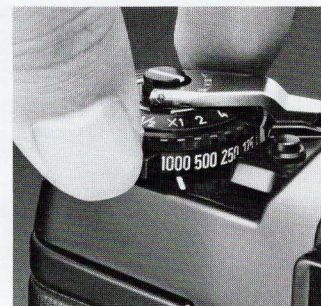
- **Twin SPD Metering Cells** — Silicon Photo Diode (SPD) cells are the most accurate and sensitive means of determining proper exposure values. They react instantaneously to even the slightest variance in ambient lighting. The Contax 137 MA Quartz employs two SPD cells, one metering ambient light exposures in a center-weighted pattern and relaying that information to the Central Processing Unit that provides digital exposure information. The second SPD cell is located so as to meter electronic flash output directly from the film plane for total automated flash exposure control with the Contax TLA Auto Electronic Flash System.



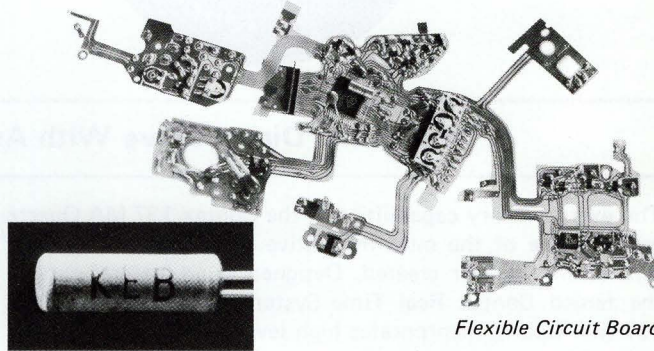
*This see-through diagram shows the locations of the various parts, including the fully integrated micromotor drive system.*



*AE Mode Setting*

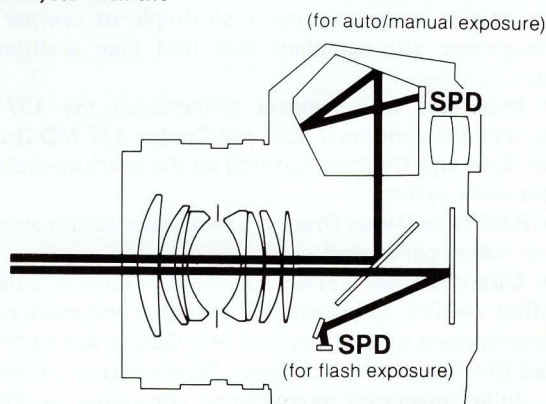


*Manual Mode Setting*



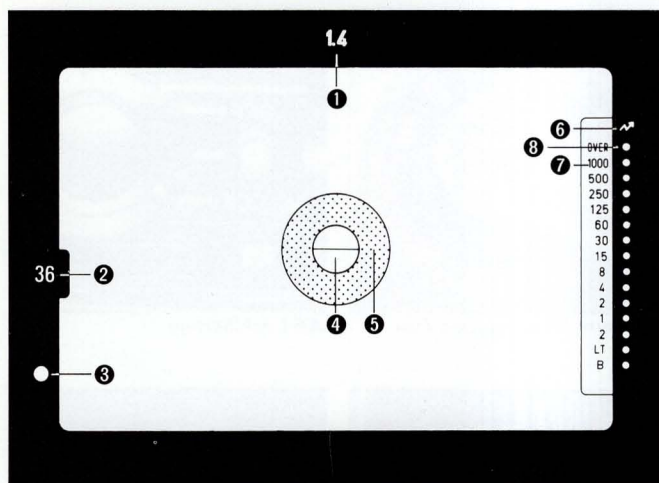
*Quartz Crystal Element*

*Flexible Circuit Board*

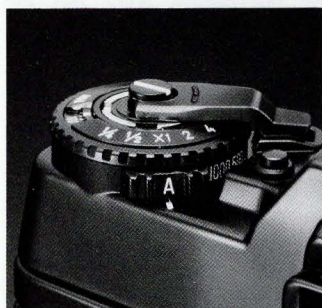


*The light pathways for the two independent exposure systems, also showing the locations of the SPD sensors.*

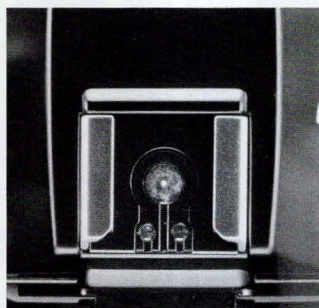




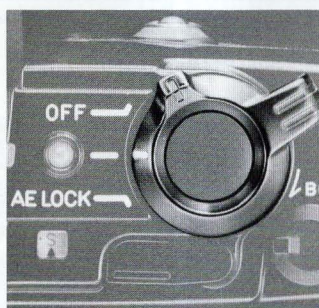
1 Aperture display 2 Built-in frame counter 3 Exposure compensation indicator LED 4 Split-image center spot 5 Microprism collar 6 LED Flash data indicator 7 Shutter-speed scale 8 LED shutter speed indicator



The 137MA Quartz and other Contax cameras provide automatic 'Fail-Safe' flash/shutter synch in AE Mode setting.



Contax Hot-Shoe with TLA circuit contacts for 'Fail-Safe' flash/shutter synchronization.



Showing the three main switch positions of OFF, ON (indicated by lighting of the monitor lamp) and AE LOCK. This switch also activates as the battery checker.

● **Viewfinder LED Data Display** — Complementing the extraordinarily sophisticated capabilities of the Contax 137 MA Quartz is the camera's outstanding Viewfinder LED Data Display system which indicates not only Shutter Speed and Aperture values, but also such factors as AE/Manual Mode selection, AE Lock use, Exposure Compensation use, TLA Flash status, Over/Under Exposure warnings and Film Supply Indication.

A special frame counter at the left of the viewfinder screen provides the photographer with film supply information.

An optical aperture indication window is located at the top center of the screen.

A special red LED below the Frame Counter lights to indicate when the Exposure Compensation system is in use. Above the Shutter Speed display, a green "arrow" LED lights steadily whenever a TLA Flash unit is attached and ready for use, and flickers as a 'confidence light' after flash shots if exposure was accurate.

Over and Under exposure warnings are indicated by the OVER and B LEDs in the Shutter Speed display.

The Shutter Speed Display itself consists of LED dot indicators which light up to show operative speeds in the AE mode, and flicker to indicate an AE Lock shutter setting. In the Manual mode, one steadily-lit indicator shows the speed 'recommended' by the camera, while another flickering indicator shows the speed actually set. These can be aligned for correct exposure setting by manipulating either the shutter speed dial or lens aperture ring.

● **Extremely Low Power Consumption** — The entire electronics system of the 137 MA Quartz is designed to operate with minimal power consumption. Backing up this energy-saving design is a special auto cut-off system for the Viewfinder Data Display, which cuts off the display after 10 seconds. The display is reactivated simply by putting slight pressure on the Electromagnetic Shutter Release button.

● **TLA Auto Flash Control** — The combination of the 137 MA Quartz and a Contax TLA system flash unit makes electronic flash photography faster, simpler and more accurate than ever before. Through-the-lens center-weighted metering of flash exposure guarantees perfect lighting results, while the 'Fail-Safe' flash/shutter synchronization system keeps the camera in proper flash or non-flash mode, according to the status of the flash unit.

● **Simplified Controls** — In addition to the Shutter Speed Dial, the 137 MA Quartz is controlled quickly and simply through two additional switches. The Main Switch is a four-position control featuring Off, On, AE Lock and Battery Check selections. The Mode Control Switch selects single-frame (S) or continuous (C) operation of the Real Time Direct Drive system, or can be set at the Self-Timer (S-T) position.



- **AE Lock Function** — The AE Lock function operates to 'freeze' the camera's automated exposure system at the shutter speed then operative. This is a highly convenient function, which can be employed to overcome severe back or side lighting, standardize exposures in the AE mode, insure proper exposure of a small part of the overall scene or obtain X-synch AE shutter speeds slower than the standard 1/60 sec.

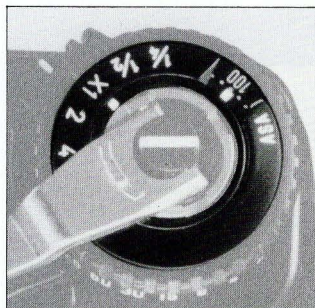
- **Exposure Compensation Function** — Moderate side or back lighting is overcome through the use of the Exposure Compensation system of the Contax 137 MA Quartz. This system provides  $\pm 2$  EV compensation of AE or Manual mode exposure settings, in 0.5EV increments. It can also be employed as a means of varying TLA flash exposure results, or to achieve various special lighting effects.

- **Quartz Self-Timer** — The 137 MA Quartz features a Quartz-timed, electronically operated Self-Timer that provides a precise 10-second delay. Self-Timer operation is indicated by a flashing red LED on the front of the camera body, and the flashing of the Monitor Lamp LED. These flashes accelerate during the final two seconds before shutter release. At any time, the Self-Timer can be cancelled simply by turning the Mode Selector Switch back to the C or S positions, and it can be reset again.

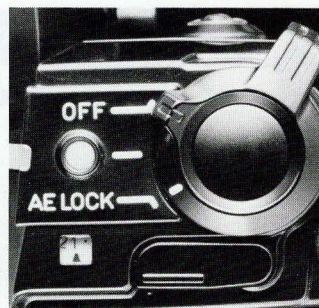
- **Electromagnetic Shutter Release** — At the heart of the system capabilities of the 137 MA Quartz is the standard Contax Electromagnetic Shutter Release, requiring only a 0.7mm stroke to operate with silken smoothness. This release system is exceptionally effective in reducing camera shake during handheld exposures, but also serves to operate all the many electronic Real Time System accessories that can be employed with the camera, including TLA Auto flash equipment, Off-Camera Control systems and others.

- **Contax/Yashica Bayonet Lens Mount** — The 137 MA Quartz features the standard Contax/Yashida three-claw bayonet lens mount, a rugged system that provides precision alignment of lens and film plane and allows the camera to accept all of the many optical-path Real Time accessories such as the Close-Up/Macro equipment. The exceptional Carl Zeiss T\* lens series provides optical superiority, while Yashica-brand ML lenses can also be used.

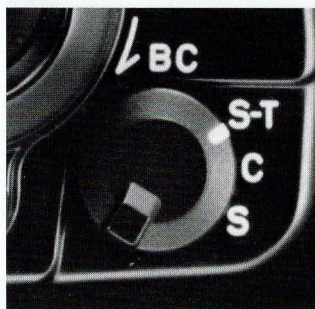
- **Film-Run Indicator** — A special Film-Run Indicator is built into the back of the Contax 137 MA Quartz, providing mechanical guarantee of proper film operation. The red/white indicator rotates along with film run, letting the photographer visually check that the film is running smoothly during advance or rewind.



Exposure Compensation Dial



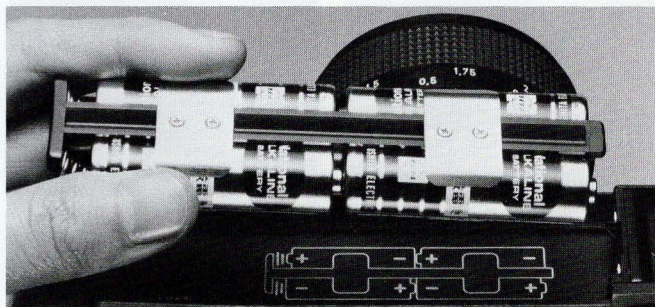
AE Lock Setting



The mode selector used for selecting single-frame or continuous motor-drive operation, and for setting the electronic self-timer.



When the electronic self-timer is activated, the LED on the front of the camera body and the monitor lamp on top both flash in unison, accelerating during the last 2 seconds as warning.

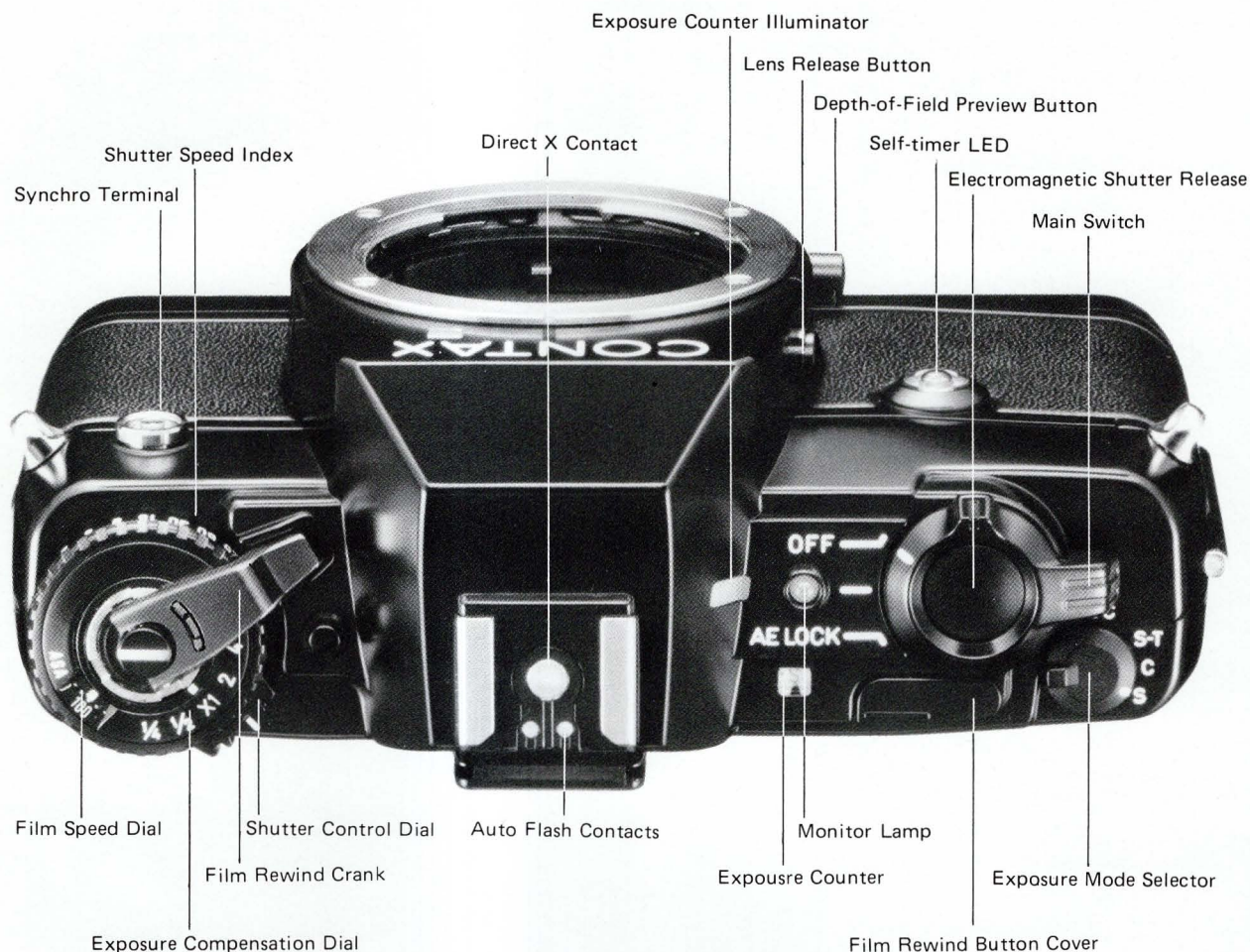


Only four AA-size batteries, accommodate in this magazine, can supply power for exposing up to 50 rolls of 36-exposure film. (alkaline penlight batteries)



This tiny device rotates when the film is moving, either forward or rewind.





## CONTAX 137 MA QUARTZ

### Specifications

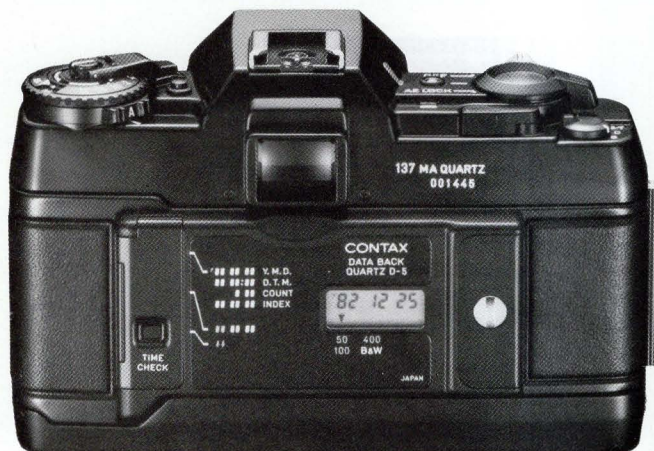
**• Type:** 35mm single-lens reflex; aperture-preferred automatic exposure or manual exposure control; Quartz-timed operation; Contax TLA auto flash control; Real Time Direct Drive. **• Viewfinder:** Silver-coated pentaprism showing 95% field-of-view at 0.86X magnification. **• Lens Mount:** Contax/Yashica three-claw bayonet. **• 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 sec.). 'Fail-Safe' flash/shutter synch with TLA flash. **• Shutter Release:** Electromagnetic with 0.7mm stroke; release socket for off-camera control accessories. **• 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. **• 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 3fps. **• Exposure Compensation:**  $\pm 2$  EV in 0.5 EV increments. **• Film Supply Indication:** Accumulative, auto-resetting frame counter with additional display in viewfinder. **• Battery Check:** Monitor Lamp LED lights green to indicate sufficient battery power when Main Switch is in "BC" position. **• Power Source:** Four 1.5V (or 1.2V 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 x 92.5 x 51mm (body only) (5-5/8 x 3-5/8 x 2in) **• Weight:** 610 grams (body only, w/o batteries.) (21.52oz)

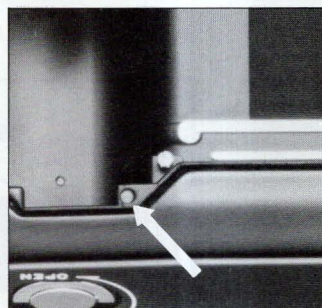
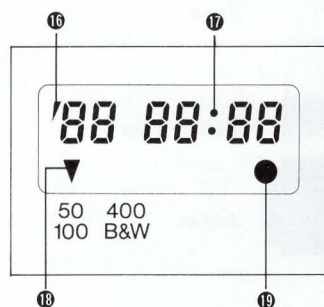


## CONTAX DATA BACK QUARTZ D-5 (for Contax 137MA/137MD Quartz) Price



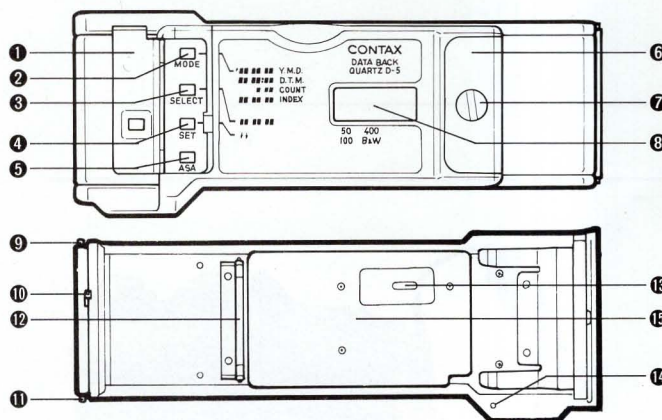
A new and more advanced data back, the Contax Data Back Quartz D-5, has been developed for dedicated use with the new Contax 137MA Quartz or 137MD camera body.

The Data Back Quartz D-5 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-5 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-5 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-5 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-5 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:** 146 x 53.5 x 27mm (5-3/4 x 2-1/8 x 1-1/16 in)
- **Weight:** 80 grams (w/o batt.) (2.8 ozs)



### Description of Parts

- Counter Cover
- Mode Button
- Select Button
- Set/Time-Check Button
- Film Speed Button
- Battery Compartment Cover
- Retaining Screw

- Display Window
- Hinge Pin
- Release Lug
- Hinge Pin
- Film Pressure Roller
- Data Imprinting Window
- Sensor
- Film Pressure Plate

### (Display Window)

- 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

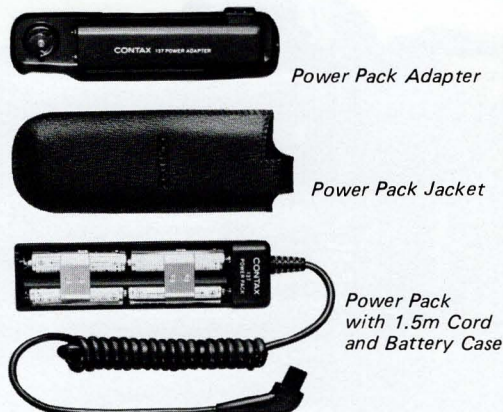
- Imprint confirmation mark
- Comes on (for one sec.) only when data is being imprinted. Indicates that data has been imprinted on film.



## CONTAX 137 EXTERNAL POWER PACK SET

Price

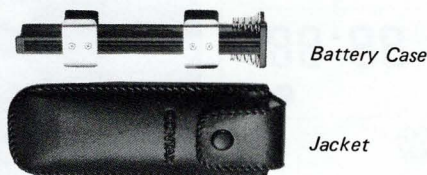
The External Power Pack Set for the Contax 137 MA Quartz consists of the Power Pack Adapter, Battery Case, Power Pack with Cord and Jacket. The Adapter fits in place of the regular camera base plate and the batteries are accommodated in the case so that they can be kept warm in cold weather for more reliable operation. Also useful for quick battery replacement under hard working conditions.



## CONTAX 137 SPARE BATTERY CASE

Price

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.



## CONTAX 137 GRIP ADAPTER

Price

This new accessory grip attaches to the base of the Contax 137 MA Quartz to provide a more secure hand-holding capability. It can be used at any time for steadying the camera, and must be employed when the 137 is used together with the RTF540 electronic flash unit, in order to provide clearance for the flash-bracket attachment.





## 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.

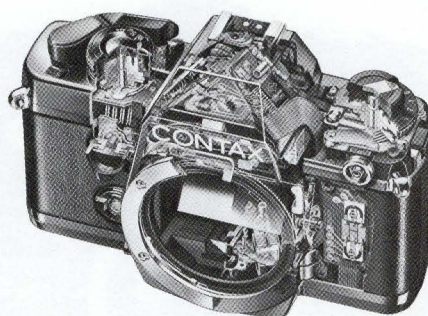
## Micro-Computerized Control of the Photographic Process

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

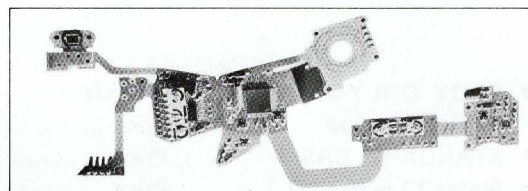
But the 'brain' of the 139 Quartz is the combination of an advanced Central Processing Unit micro-computer with data processing circuitry capable of achieving unparalleled accuracy in exposure calculation.

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.

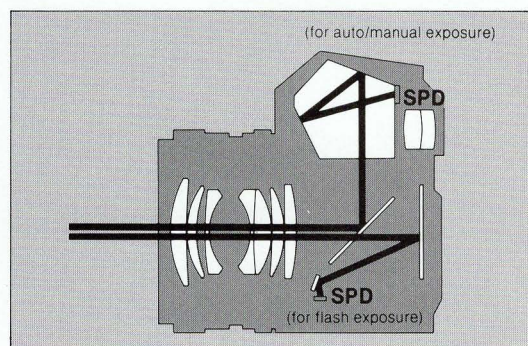
Aperture, film speed and exposure compensation [if any] data feeds to the analog system, which integrates these factors with the raw exposure data before CPU operation determines the final, precise shutter speed to be employed. And in addition to this ultimate control over exposure values, the CPU also 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.



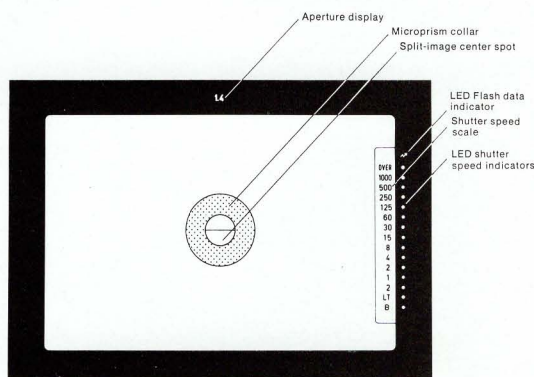
*This cutaway view of the internal electronic system of the 139 Quartz shows the technological wizardry leading to total automation.*



*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 microprism focusing, and displays all exposure information.*

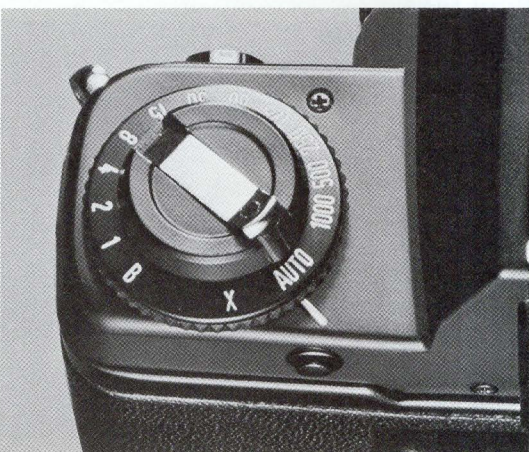




*The feather-light electromagnetic shutter release requires a stroke of only 0.7mm for Real Time operation.*



*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.

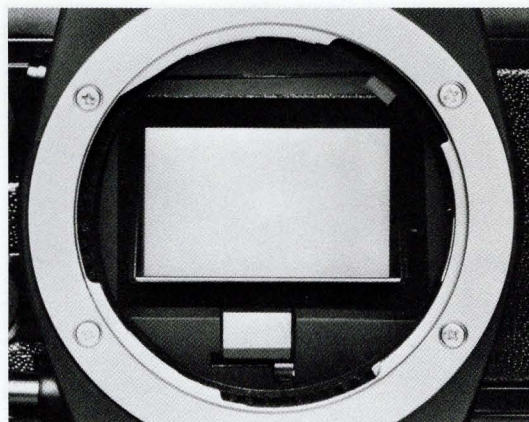
The rugged, secure, three-claw bayonet lens mount of the 139 Quartz is the same used for both the CONTAX and Yashica FR series, allowing the full range of Carl Zeiss T\* lenses or Yashica ML lenses to be used, along with all lens-mounting accessory equipment. This mount allows full automatic diaphragm 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.

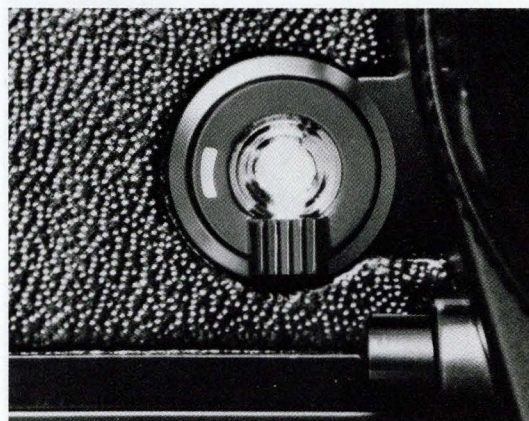
- **Exposure Control:** TTL, full-aperture, center-weighted metering EV 0-18 at ASA100 w/1.4 lens. ASA range 12-3200 (DIN 12-36).
- **Power Source:** two 1.55V silver-oxide batteries (Eveready S76, Ucar S76, Mallory MS76 or equivalent)
- **Size & Weight:** 135 x 85 x 50mm (5-5/16 x 3-3/8 x 2 in.) 500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

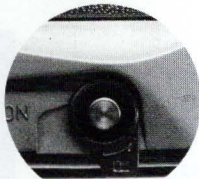


*The Quartz Self-Timer provides an exact 10-second delay in shutter release, with a flashing LED to indicate the timer is working.*



## 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.

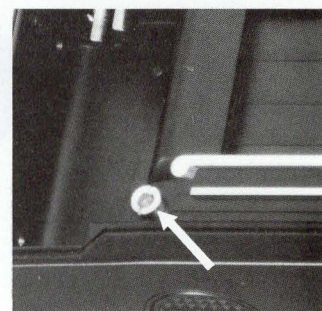
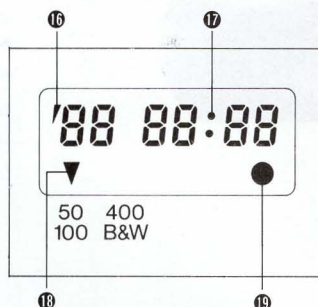
The Data Back Quartz D-6 offers a number of improvements and new features, starting with cordless operation and connection to the camera body. Internally, the most advanced feature added to this new unit is a built-in Quartz timing Device operating at the same 32,768-pulse rate as the Quartz Crystal 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:

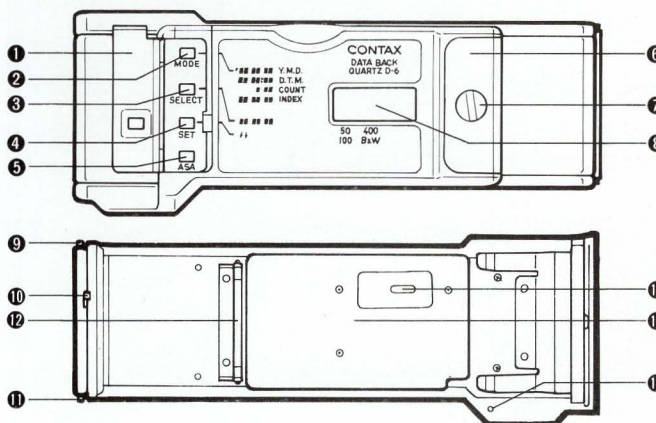
- **Type:** Seven-segment LCD (liquid crystal diode) projection data back with built-in Quartz timing device.
- **Operating Modes:** Year/Month/Date; Date/Hour/Minute; Serial Counting; Six-Digit Coding. (Non-record mode also settable)
- **Recordable Data:** Year/Month/Date, Date/Hour/Minute, Serial Counting (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    |



Data Back LED



### (Display Window)

- ⑮ Pulsating mark indicating YMD Mode in effect
- ⑯ Pulsating mark indicating DTM Mode in effect
- ⑰ Film speed index  
Comes on to indicate speed rating of loaded film

- ⑱ Imprint confirmation mark  
Comes on (for one sec.) only when data is being imprinted. Indicates that data has been imprinted on film.





## CONTAX PREVIEW

### Handy Polaroid Accessory Camera For Contax Equipment Users

Designed primarily for the professional Contax user, the Contax Preview is also a handy tool for either advanced amateurs seeking maximum photographic quality or instructors seeking high-level instrumentation for classroom purposes. The Preview is a very simple, very durable single-lens reflex design. It comprises a Polaroid CB102 Film Back attached to a Contax/Yashica lens mount equipped with built-in shutter. The film back accepts Polaroid sheet film (Type 107, Type 108 Polacolor 2, Type 665, Type 667, Type 668 Polacolor 2), while any Zeiss T\* or Yashica ML lens can be attached to the lens mount.

Only a minimal number of controls are required, including a shutter cocking lever, shutter speed dial, shutter release, lens release lever, back cover lock and X-synch terminal.

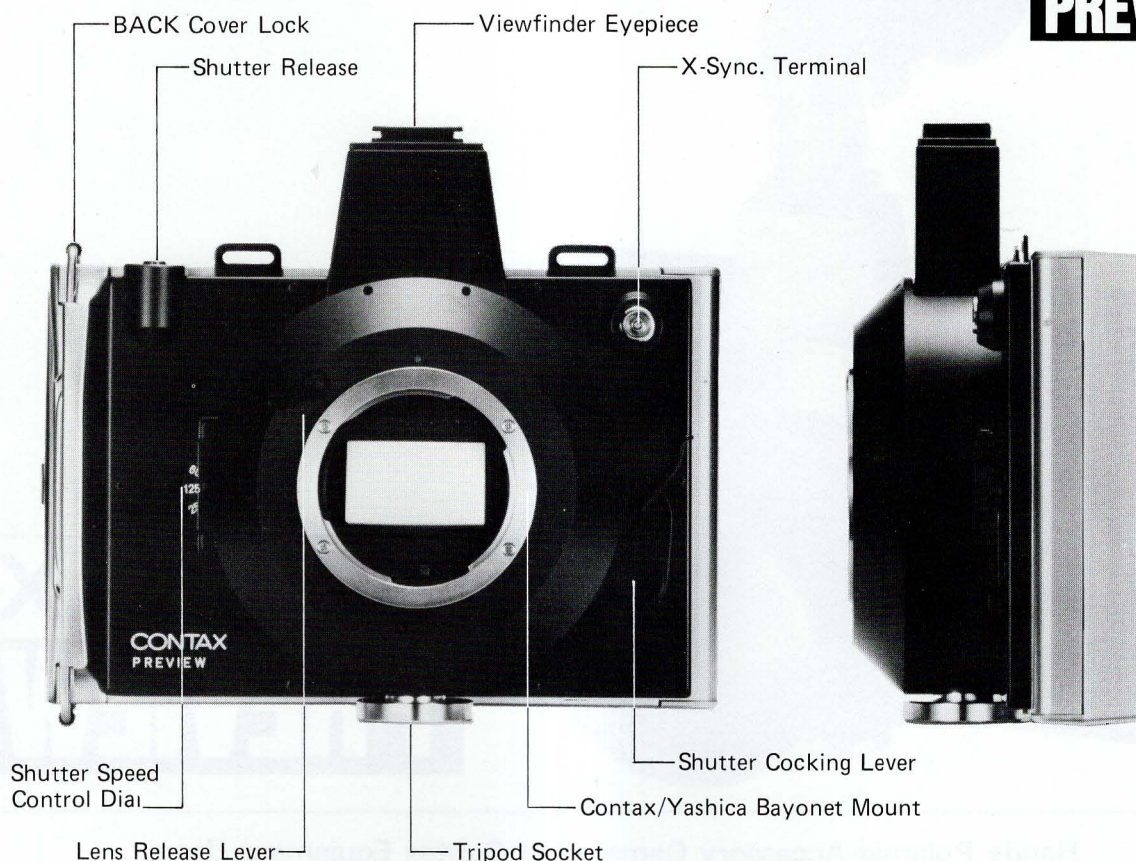
The waist-level viewfinder provides 95% coverage of the actual film area, with an optional right-angle finder available for correct, eye-level image viewing. Shutter speeds range from one to 1/1000 sec., plus B (Bulb), with X-synch at a fast 1/125 sec. for easy use in daylight fill-flash applications. Because its primary use comes in professional applications, the Preview was designed to be ruggedly durable, light in weight and compact for location portability. Particular

attention was given to insuring maximum film flatness in order to guarantee total reliability in reproducing the image. The instant-developing Polaroid film allows the photographer to immediately see the results that will be obtained, in the studio or on location. This is an invaluable check on such vital factors to the professional as overall composition, depth-of-field, intrusion of distracting background elements, etc. It also provides a complete and accurate check on the effectiveness of natural or artificial lighting sources, reflectors, etc. The image provided by the Preview is an exact 35mm format frame, reproducing precisely what image will appear on normal film. Since the Polaroid images can also be used for rough design/layout purposes, or as instructional aids, they have even greater value as working tools in photojournalism, commercial applications or learning situations.

Beyond the obvious value of the Preview to the professional Contax user, it has a tremendous scope of applications that can assist the advanced amateur to improve technique or introduce beginners to the creative potential afforded by the overall Contax Real Time System.



## CONTAX PREVIEW



### CONTAX PREVIEW Specifications:

Type:	Single-lens reflex camera
Film:	Polaroid (Type 107, Type 108 Polacolor 2, Type 665, Type 667, Type 668 Polacolor 2)
Image Size:	24 x 36mm
Lens Mount:	Contax/Yashica three-claw bayonet
Shutter:	Vertical-run, metal focal plane shutter with speeds from 1 to 1/1000 sec. plus B. Mechanical operation with x-synch at 1/125 sec.
Finder:	Waist-level type showing 95% of viewing area at 0.91X magnification (with 50mm lens)
Shutter Cocking:	Manual, via shutter cocking lever next to lens mount
Film Back:	Corresponds to Polaroid Back CB-102
Synchronization:	X-synch socket for electronic flash
Optional Accessories:	Right Angle Finder for CONTAX PREVIEW (correct image, eye-level)
Size:	168 x 145 x 67mm (6-5/8 x 5-11/16 x 2-5/8 in.)
Weight:	705 grams (24.9 oz.) (body only)

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

\*\* "Polaroid" and "Polacolor" are registered trademarks of Polaroid Corporation, Cambridge, Mass. U.S.A.



## FX-D QUARTZ



- BODY ONLY w/strap, body cap, batteries, standard case Price .....
- STANDARD SET
  - w/ML f/2.0 50 mm Price .....
  - w/ML f/1.7 50 mm Price .....
  - w/ML Zoom f/3.5-4.5
  - 42-75 mm (w/Zoom case) Price .....

### Precision Quartz Timing in a Simple, Fast Camera Designed for Action Photography

With the introduction of the FX-D Quartz, Yashica has taken a giant step into full utilization of the most advanced new technology available for the single-lens reflex camera. This exciting new "full system" camera body provides for the first time all the advantages of lightweight, compact cameras favored by modern, action-oriented photographers, with the revolutionary advances being made in photographic technology and the amazing, unequalled precision timing offered by the use of quartz crystal elements.

The elegant, simplified body design makes the FX-D an extremely easy camera to handle and operate, with perfect balance for maximum steadiness during shooting. Every control function is positioned perfectly for natural use during photography, and designed to let the photographer handle the camera with full confidence. The FX-D need never be taken away from the eye to search for a particular feature, or discover operating factors. All such information is available surely and immediately through the viewfinder data display or the "feel" of the controls.

In operation, the FX-D delivers maximum performance under any conditions. Exposure calculation is performed by a rapid-response Silicon Photo Diode cell capable of measuring even the slightest, fastest changes in ambient lighting. And that data can be used to operate the camera in either an aperture-priority AE (automated exposure) mode or completely manually. Shutter timing is precisely controlled by the FX-D's quartz crystal element, as is the operating sequence for every factor involved in the taking of a photograph. This insures not only perfect exposure results, but vast improvements in the working of every camera function.

Concerning the camera body itself, three major factors deserve particular stress in describing the new FX-D Quartz: the superb precision of its advanced shutter system, the sensitivity and response of its exposure control system and the enormous advantages it offers in accessibility to a full range of system accessories.

The shutter mechanism of the FX-D is basically a vertical, metal focal-plane system. Shutter operation is electronically controlled for smoother, more precise results. But the major feature of the shutter mechanism is, of course, the fact that shutter speed timing is performed by the quartz crystal element for accuracy never before possible. Mechanical shutters cannot be regulated to a degree which even approaches quartz timing, since this system depends on the absolute regularity of the 32,768 pulses emitted by quartz crystal every second. By employing these pulses to time shutter operation, the FX-D brings unheard of precision to shutter speeds, and thus complete consistency to all time values involved in exposure. In the AE operating mode, the



shutter operates at speeds from LT (11 secs.) to 1/1000 sec. Manually set shutter speeds (with the shutter still electronically controlled and Quartz-timed) range from 1 to 1/1000 sec. In addition, X (flash synchronization) and B (bulb) settings can be employed.

Exposure control with the FX-D starts with through-the-lens metering at full aperture. Light values are read by the SPD cell which measures a center-weighted pattern within a sensitivity range from EV 1 to EV 18 (at ASA 100 with a f/1.4 lens). The light values metered are transferred to microprocessing units which determine shutter speed in accordance with the working aperture. In the AE mode, the proper shutter speed is automatically set by the camera. In the manual mode, an indication of the precise shutter speed required for perfect exposure is given in the viewfinder LED array. The SPD cell which meters light values is capable of responding instantly to even the subtlest changes in lighting, and this, combined with the amazing precision of the quartz-timed shutter allows the FX-D to give fully accurate and consistent exposure results under any circumstances.

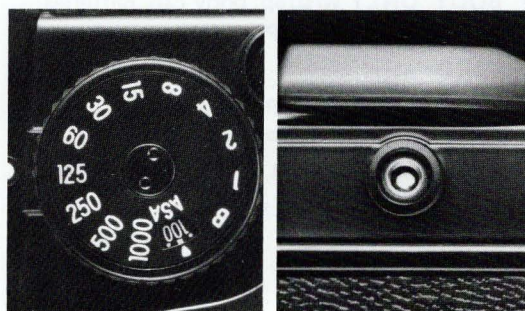
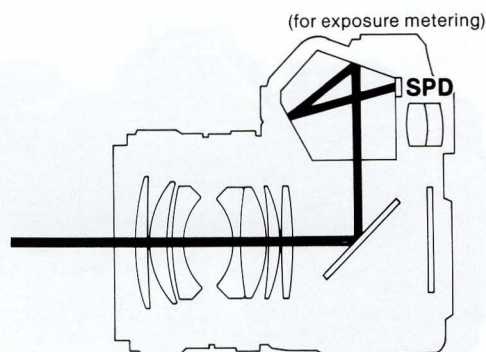
System capability is provided for the FX-D through the use of the same electromagnetic shutter release system and the rugged, three-claw Contax/Yashica bayonet lens mount employed in the Contax camera line. This allows the FX-D to be equipped with almost any of the wide range of Contax Real Time Photography accessories, including both Zeiss T\* and Yashica ML lenses, all optical path accessories and the full range of off-camera control equipment available for the Contax system. For automatic, sequential photography, the FX-D Quartz accepts the New FX-Winder which provides two frames-per-second automatic film advance.

film advance.

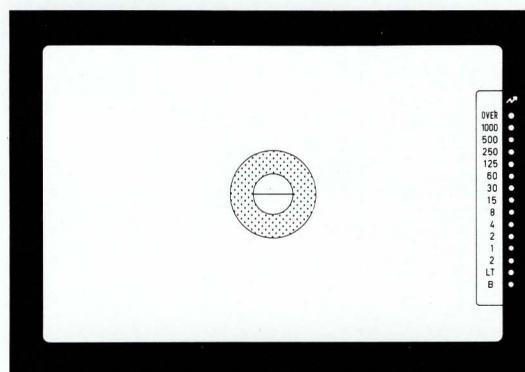
Viewfinder information is displayed via an arrangement of 15 dot LEDs plus a special "Λ" LED flash indicator. The system is extremely visible as well as simple to use, and conserves battery power by remaining off until the photographer requires it.

To light up the LED display, simply press the exposure check button located on the front right side of the camera body. This turns the display on for ten seconds, or until the shutter is released. In addition, the display can be lit by pressing the shutter release button if the film advance mechanism has not been cocked.

In the AE mode, the LED display signals the approximate working shutter speed that will be set by the camera for a perfect exposure. Should two LEDs light, the shutter speed will be somewhere between the two speeds indicated (eg. LEDs at both 1/60 & 1/30 sec lit, working speed will be between 1/31 & 1/59 sec.).

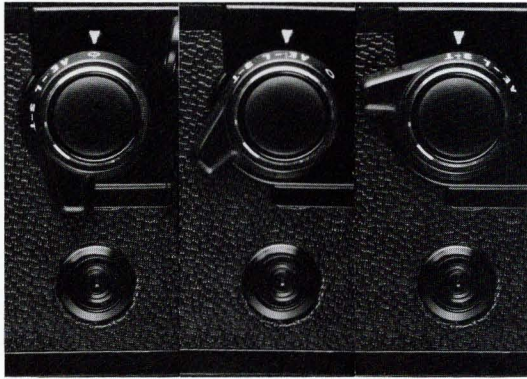


*The FX-D allows full manual or AE control of shutter speeds, and uses the Contax electromagnetic shutter release system.*

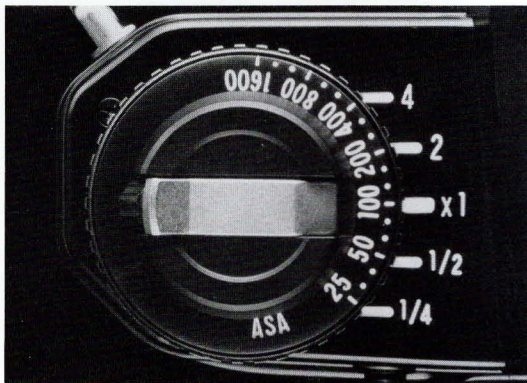


*The FX-D Quartz viewfinder gives a bright, crisp image with split-image/micropism focusing and LED indication of shutter speed and flash-ready data.*





*The FX-D's AE Lock and Self-Timer functions are controlled by this simple 3-position switch.*



*The ASA dial also provides  $\pm 2$  EV exposure Compensation control for increased creative potential.*

When used in the manual mode, the FX-D provides a fast, simple and highly accurate exposure indication system. Pressing the exposure check button to light the LED display, the photographer will see two LEDs lit up, one lit steadily and the other flickering. The flickering LED indicates the manually set shutter speed, while the steady LED indicates the speed required for perfect exposure at the aperture in use. By changing either shutter speed or aperture setting, the photographer can bring the two LEDs together until only one is flickering; at that point, aperture and shutter speed factors are set perfectly for proper exposure of the scene. (NOTE: In manual mode, shutter speeds as slow as 1 sec. can be set. However, if slower speed is required for proper exposure, the shutter dial can be set on B (bulb) and exposure manually timed or set on AE for proper exposure timing by the FX-D's quartz system. Should extremely dark scenes be beyond the metering capability of the FX-D in AE mode, the lowest 'B' LED will light. In this case, exposure must be determined by the photographer and timed manually with the shutter dial set in the B position. [eg. f/1.4 at 6 minutes] In all standard situations, the FX-D will meter and set exposure accurately within the 11-second capability of the LT indication in AE mode.)

Should there be too bright a scene for proper exposure even at the 1/1000 sec. shutter speed, the Viewfinder display will light the "OVER" LED, and at the same time an audible warning tone will sound. The photographer must adjust to a smaller aperture setting to bring shutter speed requirement down to 1/1000 sec. or lower. In extremely rare cases of particularly brilliant scenes, it may be necessary to switch to a film with a lower ASA rating. A special feature of the FX-D Quartz is the incorporation of an AE Lock function. The switch for setting the camera in AE Lock mode is located around the exposure check button. This same switch also is used to set the FX-D's self-timer. By using the AE Lock switch, the photographer can "freeze" the shutter speed setting while in AE mode. Aperture can then be varied, but the FX-D will remain set at the same shutter speed as long as the AE Lock switch remains on. This is extremely useful as a tool for more creative exposure techniques while retaining the advantages of AE control. Additional exposure compensation is afforded by use of the exposure compensation indication marks next to the ASA setting dial. These marks indicate  $\pm 2$  EV compensation of normal AE exposure for overcoming strong back-lighting or other unusual lighting effects. Care should be taken to return the ASA dial to the (X1) setting, or turn off the AE Lock switch, after using exposure compensation techniques.

The quartz-controlled Self-Timer of the FX-D is put into effect by shifting the AE Lock switch to the S-T position.

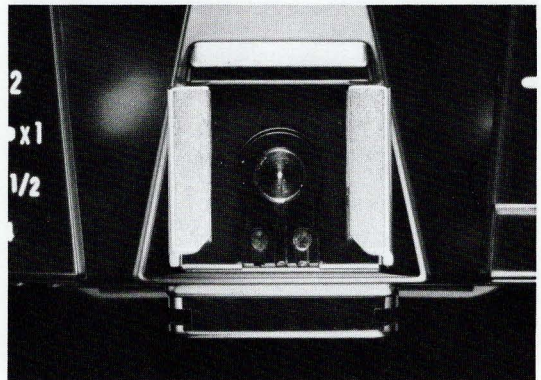


Then, when the shutter release is pressed, the camera provides a precise, quartz-timed 10-second delay before shutter operation. Indication that the Self-Timer is working is provided by a flickering red LED on the front of the camera and an audible warning tone, both of which accelerate during the final two seconds before shutter release. At any time up until the moment of shutter release, the Self-Timer can be reset for a full 10-second delay (by pressing the shutter release button) or turned off (by returning the AE Lock switch to AE-L or (0) normal position.

Another special feature of the FX-D Quartz is its full electronic flash dedication when used with the CS-201 Auto flash unit. With the CS-201 attached to the accessory hot-shoe, the FX-D provides "fail-safe" performance. Shutter speed is automatically set at the proper X synchronization (1/100 sec.) when the unit is fully charged and the FX-D is in AE mode. When the camera is in manual mode, X speed is automatically set when the manual shutter speed is 1/125 or faster. This means that every flash shot is properly synchronized, no matter what mode or setting the camera is in. Shutter speed reverts to proper AE setting (or set manual speed) whenever the CS-201 is not fully charged, or is turned off. Within the viewfinder, the "∞" LED lights to indicate that the CS-201 is fully charged, and at the same time, the LED display will also show proper X speed.



*The electronically-controlled, quartz-timed automatic shutter of the FX-D.*



*The FX-D's hot-shoe incorporates contacts for fully automatic flash dedication.*





*With Yashica FX Winder*



*With Yashica CS-201 Auto*

## System Accessories:

The new Yashica FX Winder, designed for complete integration with the Yashica FX-D Quartz camera body, is a handy grip-type unit that provides sequential automated film advance at a speed of two frames/second, coupling at all shutter speeds in both the AE and Manual modes. The attractively finished unit allows completely stable hand-holding of the camera body, even at slower shutter speeds, whether in the horizontal or vertical positions, thanks to the molded grip. It attaches to the FX-D Quartz body in just seconds, via a single tripod-mount connection, and is controlled by a single On/Off switch.

• **Yashica CS-201 Auto:** provides completely automated control over shutter/flash synchronization through dedicated circuitry. Compact and lightweight, with both Auto and Manual control capability, and with the new 'fail-safe' shutter synchronization. Output is rated at Guide Number 20 (ASA 100/meters) automatically metered by built-in 20° sensor. Powered by four 1.5V AA-size batteries.

## FX-D Quartz Specifications:

• **Type:** 35mm single-lens reflex with quartz-controlled, aperture-preferred automated exposure and full manual override. • **Viewfinder:** Silver-coated pentaprism type, shows 95% of actual area at 0.86X magnification. • **Lens Mount:** Contax/Yashica 3-claw bayonet. • **Shutter:** Quartz-timed, electronically-controlled, vertical metal focal plane shutter with speeds approx. 11 secs. to 1/1000 sec. on auto, B, X (1/100) and 1 to 1/1000 sec. on manual. • **Shutter Release:** Electromagnetic with 0.7mm stroke, interconnects with all accessories. • **Exposure Control:** Center-weighted metering at full aperture using SPD (Silicon Photo Diode) sensor, EV 1 to EV 18 (ASA 100 at f/1.4) with  $\pm 2$  EV exposure compensation. • **Viewfinder Display:** LED display of auto and manual shutter speeds with OVER/UNDER warning (audible tone signals OVER), LED flash-ready indicator. • **Film Advance:** Manual advance with 130° stroke. Also continuous sequential automatic advance with optional Winder • **Frame Counter:** Accumulative auto-resetting type. • **AE Lock:** Locks in shutter speeds, aperture can be varied. Continuous operation possible. • **Self-Timer:** Electronic with 10-second delay, LED and audible tone indicate operation • **Power Source:** Two 1.55V silveroxide batteries (S76 or equivalent). • **Size:** 135 x 86 x 50.5mm (body only). (5-5/16 x 3-3/8 x 2 in.) • **Weight:** 460 grams (body only). (1.01 lbs.)



## YASHICA FX ZOOM D



- FX-D Quartz (Chrome) Body with ML Zoom f/3.5-4.5 42-75mm (FX ZOOM Case, two 1.5V silver-oxide batteries & strap included)

Price .....

### ZOOM Versatility Combined with Sophisticated Electronic Precision

Yashica's FX ZOOM D is a revolutionary new concept in photographic equipment. It combines ultra-sophisticated electronic processing capabilities with the versatility and creative potential offered by a zoom lens. Basically, the FX ZOOM D incorporates the FX-D Quartz (chrome finish) camera body and the ML f/3.5-4.5 42-75mm Zoom lens. The result is an integrated photo system which is unmatched in performance and potential, offering the supreme advantages of light weight and compact size for easy portability together with simplified handling and exceptionally accurate performance.

The amazing electronic advances of the FX-D body perfectly complement the total precision of quartz crystal control; and the optical capabilities of the 42-75mm 'Normal Zoom' allow the photographer a wide range of performance options with a single lens no larger, heavier or more complicated to use than standard normal lenses.

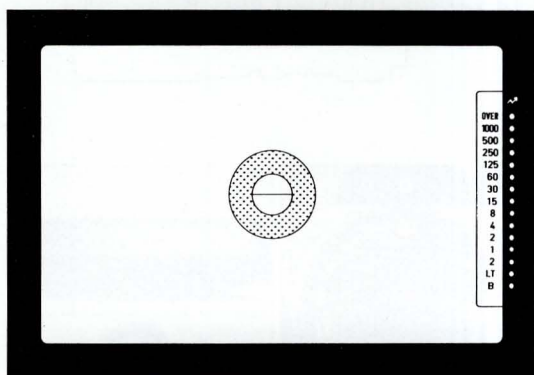
#### Easy Handling

Easy to handle and operate, the FX-D body is well balanced for steady hand-holding, and has all controls positioned to fit naturally in the hand and be operable with full confidence, even with the eye to the viewfinder. Exposure calculation is performed by a rapid-response Silicon Photo Diode (SPD) sensitive enough to react to even the slightest changes in lighting. All exposure data is processed by a central unit that delivers commands to the camera's aperture priority AE system — or via the viewfinder LED display to the photographer — to obtain perfect AE or Manual mode exposures under any lighting conditions.

The viewfinder display incorporates 15 dot LEDs plus a flash data indicator "⚡". The display is turned on (for 10 seconds at a time) by pressing the exposure check button. It provides indication of AE-set shutter speed, or match-LED system to adjust manual exposure settings.

#### Quartz Crystal Precision

Shutter speeds and all other time-related operations of the FX ZOOM D camera body are controlled and regulated by the fantastic accuracy of quartz crystal, 32,768 pulses every second to offer the most precise timing ever available. Quartz control guarantees both total accuracy and complete stability in shutter timing, and smooths operation of sequential camera operations to provide improved durability and performance. In the AE mode, the FX ZOOM D offers shutter speeds from LT (11 secs.) to 1/1000 sec. Shutter settings for manual use run from 1 to 1/1000 sec., along with X (flash synch) and B (Bulb) for time exposures.



*The FX-D Quartz viewfinder gives a bright, crisp image with split-image/micoprism focusing and LED indication of shutter speed and flash-ready data.*



# YASHICA

## Automated Synchronization

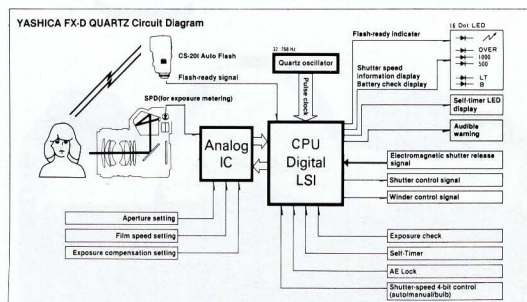
'Fail-Safe' flash/shutter synchronization is a major advantage of the camera, providing a guarantee of perfect flash/shutter synch when used with the dedicated CS-201 AUTO electronic flash unit. This system allows the camera body to automatically set the proper X-synch shutter speed whenever the flash unit is switched on and connected. In AE or Manual mode, the camera will automatically shift to the proper 1/100 sec. flash synch speed, indicating this in the viewfinder display by a flickering LED at the 125 setting. In addition, the green "✓" LED will also light to show that the flash unit is fully charged and ready to operate. In between flash shots, while the unit is recycling, the camera automatically shifts back to the proper AE (or Manually-set) shutter speed for non-flash exposures.

Possible over-exposure in the AE mode or with dedicated flash use is indicated by the LED at the OVER mark, and also by an audible electronic tone warning.

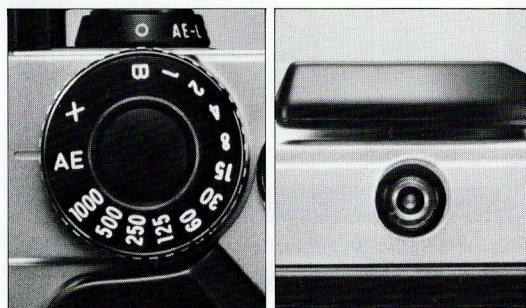
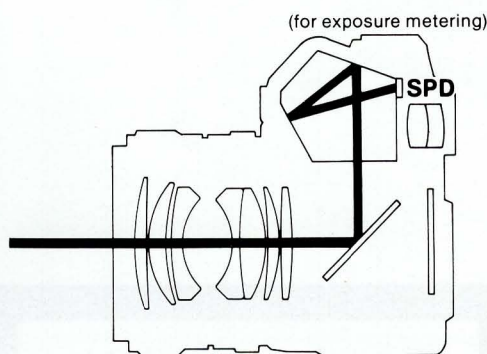
The FX ZOOM D is also a genuine 'system' SLR, capable of accepting the entire wide range of Contax/Yashica electronic and optical accessories thanks to incorporation of the same electromagnetic shutter release and three-claw Contax/Yashica bayonet lens mount.

## FX ZOOM D Specifications:

- **Type:** 35mm single-lens reflex with quartz-controlled, aperture-preferred automated exposure and full manual override.
- **Viewfinder:** Silver-coated pentaprism type, shows 95% of actual area at 0.86X magnification.
- **Lens Mount:** Contax/Yashica 3-claw bayonet.
- **Shutter:** Quartz-timed, electronically-controlled, vertical metal focal plane shutter with speeds approx. 11 secs. to 1/1000 sec. on auto, B, X (1/100) and 1 to 1/1000 sec. on manual.
- **Shutter Release:** Electromagnetic with 0.7mm stroke, interconnects with all accessories.
- **Exposure Control:** Center-weighted metering at full aperture using SPD (Silicon Photo Diode) sensor, EV 1 to EV 18 (ASA 100 at f/1.4) with  $\pm 2$  EV exposure compensation.
- **Viewfinder Display:** LED display of auto and manual shutter speeds with OVER/UNDER warning (audible tone signals OVER), also LED flash-ready indicator.
- **Film Advance:** Manual advance with 130° stroke. Also continuous sequential automatic advance with optional 139 Winder and 139 Winder II.
- **Frame Counter:** Accumulative, auto-resetting type.
- **AE Lock:** Locks in shutter speeds, aperture can be varied. Continuous operation possible.
- **Self-Timer:** Electronic with 10-second delay, LED and audible tone indicate operation.
- **Power Source:** Two 1.5V silver-oxide batteries (S76 or equivalent).
- **Size:** 135 x 86 x 50.5mm (5-5/16 x 3-3/8 x 2 in.) (body only)
- **Weight:** 460 grams (1.01 lbs.) (body only).



The FX-D's AE Lock and Self-Timer functions are controlled by this simple 3-position switch.



The FX-D allows full manual or AE control of shutter speeds, and uses the Contax electro-magnetic shutter release system.



## YASHICA FX WINDER

Price



The new Yashica FX Winder, designed for complete integration with the Yashica FX-D Quartz camera body, is a handy grip-type unit that provides sequential automated film advance at a speed of two frames/second, coupling at all shutter speeds in both the AE and Manual modes. The attractively finished unit allows completely stable hand-holding of the camera body, even at slower shutter speeds, whether in the horizontal or vertical positions, thanks to the molded grip. It attaches to the FX-D Quartz body in just seconds, via a single tripod-mount connection, and is controlled by a single On/Off switch. (Note: the FX Winder can also be employed with the Contax 139 Quartz camera body.)

With the exception of no electromagnetic shutter release built into the unit itself (unnecessary due to the convenient grip design), the FX Winder is identical in mechanical and electronic specifications and features to the standard Contax 139 Quartz Winder. It incorporates the special safety lock lever on the film rewind button, to guard against accidental disengagement of the film-drive spocket, and allows continuous remote operation in conjunction with off-camera control systems available in the Contax/Yashica accessory lines. The FX Winder is powered by four 1.5V AA-size batteries, and can handle approximately 50 rolls of 36-exposure film when equipped with 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.
- **LED Display:** Lights to indicate film end.
- **Connection:** Via threaded tripod mount direct to camera body.
- **Film Rewind:** Manual rewind button with lock to prevent accidental disengagement of film drive.
- **Power Source:** Four 1.5V AA-size batteries drive 50 rolls of 36-exposure film (alkaline) or 20 rolls (manganese).
- **Dimensions:** 138 x 36 x 50mm (5-7/16 x 1-7/16 x 2 in.) (excluding grip).
- **Weight:** 225 grams (w/o batteries) (7.9 ozs.)



# YASHICA

## You Press The Shutter The Camera Does The Work!



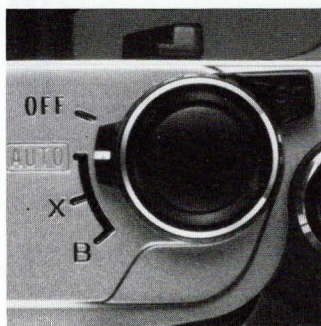
- Aperture-Preferred Automatic Exposure
- Silicon Photo Diode Metering
- Quartz-Controlled Shutter Timing
- Viewfinder LED Data Display (with energy-saving auto cut-off)
- Compact, Lightweight Body
- Full Yashica/Contax System Integration

## YASHICA FX-70 QUARTZ

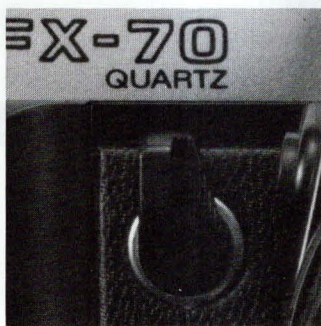
- BODY ONLY w/two 1.55V silver-oxide batteries & strap Price .....
- Standard Case Price .....
- Yashica Lens ML f/2 50mm Price .....
- Yashica Lens ML f/1.7 50mm Price .....
- Yashica Lens DX f/2 50 mm Price .....



Quartz Crystal Element



4-Position Main Switch



AE Lock Lever

The exciting new Yashica FX-70 Quartz makes photography faster, easier and more fun than ever thanks to a host of convenient features that start with accurate, aperture-preferred Auto Exposure and include Quartz-timed shutter speeds, SPD light metering and an energy-saving LED viewfinder data display.

• **Basic Features** — The FX-70 Quartz provides all the basic requirements for outstanding photography in a compact body contoured to handle quickly and smoothly. Its AE control system insures accurate results under virtually any lighting conditions, while requiring the photographer only to set the desired aperture. A sophisticated electronic microprocessor within the body takes care of balancing all exposure factors to determine precisely the shutter speed that will give optimum results.

Then, that shutter speed operates with the accuracy and consistency available only from Quartz timing, in a stepless range from 11 sec. to 1/1000 sec. — fast enough to freeze any action. The metal, vertical-travel focal plane shutter provides exceptional durability and reliability, as well as allowing high speed synchronization of electronic flash at 1/100 sec. with Yashica CS-210 Auto or Contax TLA30 Electronic Flash. Since the exposure determination is made according to a center-weighted TTL metering pattern by an ultra-sensitive Silicon Photo Diode, the photographer can be certain of obtaining exactly the results that best show off the subject.

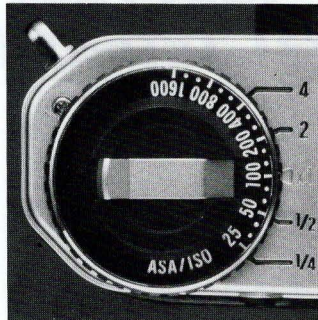


# YASHICA

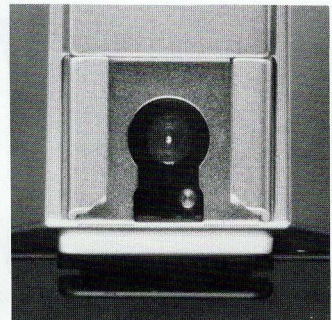
● **Camera Controls** — Control of the FX-70 Quartz is extremely simple. The Main Switch for the camera's electronic circuitry includes Off, Auto, "X" and "B" positions. The electromagnetic shutter release (which accepts Contax off-camera control systems) is automatically locked whenever the switch is Off. "X" and "B" provide special settings for manual use of X-synchronization (set automatically with the dedicated CS-201 electronic flash) or Bulb shutter speed. At Auto, the camera's aperture-preferred AE system goes to work.

● **Viewfinder Display** — Slight pressure on the shutter release activates a viewfinder LED data display for 10 seconds. The display shuts off by itself to conserve battery power, but can be turned on again simply by lightly touching the release once more. Included in the display are 15 dot-LEDs showing shutter speed, over/under-exposure warnings, flash-ready and indication of AE Lock use. Other controls include an AE Lock lever to freeze shutter speed (for overcoming extreme backlight) and a combined ASA/ISO and Exposure Compensation Dial providing  $\pm 2EV$  compensation. An electronic Quartz-timed 10-second delay Self-Timer (cancellable/resettable) indicates operation by a flashing red signal light on the camera body. Film advance is via a manual lever employing a  $130^\circ$  single-stroke action with a convenient stand-off angle for quick reaction.

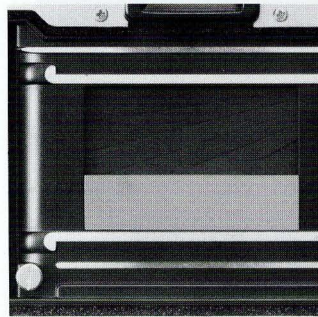
● **Focusing** — The eyelevel pentaprism of the FX-70 Quartz incorporates a viewfinder showing 95% of actual picture area at 0.86X magnification. The focusing screen includes a horizontal split-image focusing aid surrounded by a micro-prism collar. This makes focusing accurate and easy, even for those wearing eyeglasses.



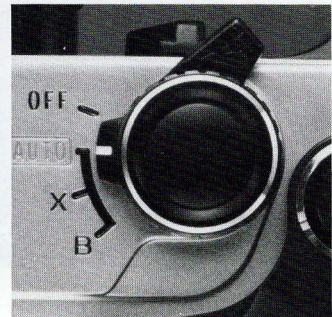
*ASA/Exposure Compensation Control*



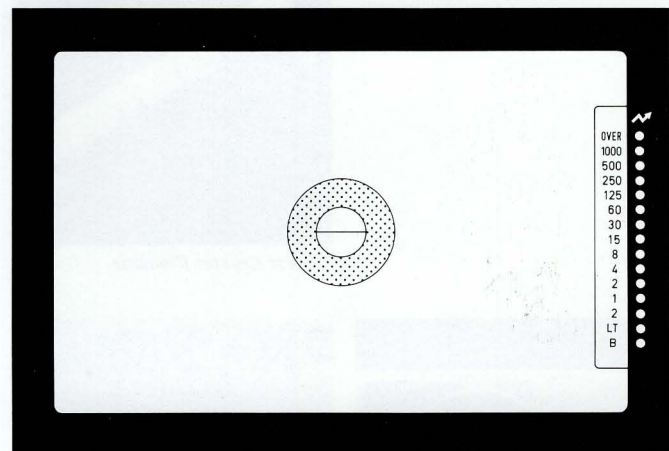
*"Fail-Safe" Flash Synchronization Control*



*Quartz Shutter Speeds*



*Electronic Self-Timer Setting*



*Viewfinder Display*





*Yashica FX-70 Quartz  
w/ML f/2 50mm Lens  
and CS-201 Auto Electronic Flash*



*Yashica FX-70 Quartz  
w/ML Bellows f/4 100mm  
and Auto Bellows F2*

*Yashica Auto  
Extension Tube  
Set F*

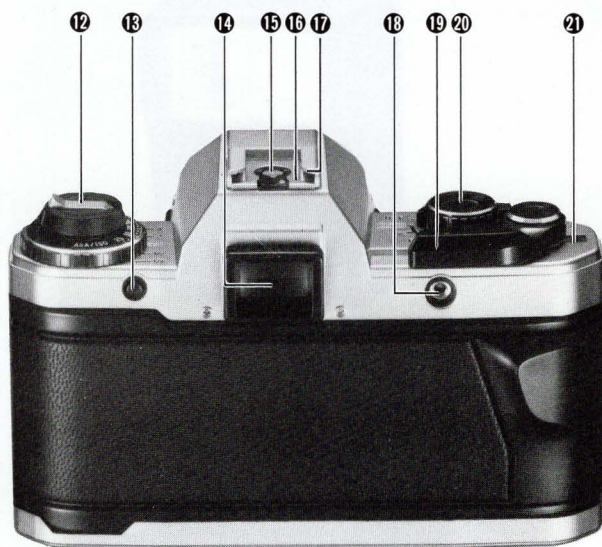
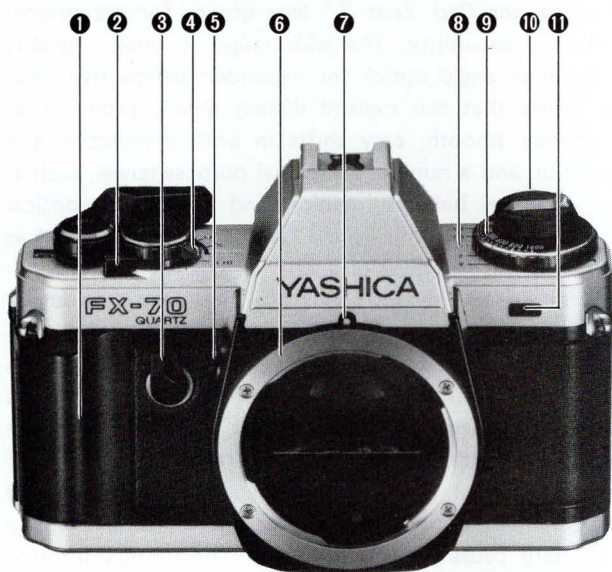
• **System Accessories** — The Yashica/Contax bayonet lens mount allows use of all Yashica brand lenses, or the choice of the superior Carl Zeiss T\* lens group, for exceptional reproductive capability. The wide range of lenses available includes wide angle optics for expanded perspective, telephoto lenses that can expand distant detail, zoom lenses that provide smooth, easy shifts in both perspective and composition and a number of special purpose lenses, such as macro, fish-eye, bellows, medical and surveillance optical systems. This allows the FX-70 Quartz to be employed as a basic SLR for beginners or amateurs, but to retain the versatility for use as a second camera by those who have advanced to professional-level capabilities. The full range of Yashica and Contax brand Macro/Close-Up accessories can also be employed, including auto extension tubes, auto bellows units, slide copier, macro stand and even a microscope adapter. The electromagnetic shutter release allows use of off-camera control equipment, such as the Contax Cable Switches which eliminate the problem of camera shake (the primary cause of bad pictures). The Contax Infrared Controller S Set even allows completely "no hands" photography at distances up to 20 meters. For remote control at even greater distances, the sophisticated Contax Radio Controller Set is available.

• **Creative Versatility** — The new Yashica FX-70 Quartz is an extremely easy camera to use — fast, responsive and versatile in performance and capable of handling virtually any photographic chore. It is the perfect choice for those interesting in obtaining maximum performance and quality at a high level of cost-efficiency, since it is capable of performing so many roles with extreme effectiveness.



# YASHICA

The Camera That makes It easy!



- |                             |                                   |                                    |
|-----------------------------|-----------------------------------|------------------------------------|
| 1 Contoured Grip            | 8 Exposure Compensation Index     | 15 Direct X Contact ("hot-shoe")   |
| 2 Self-Timer Lever          | 9 Film Speed Dial                 | 16 Flash-Ready Signal Contact      |
| 3 AE Lock Lever             | 10 Film Rewind Crank              | 17 Accessory Shoe                  |
| 4 Four-Position Main Switch | 11 Self-Timer LED                 | 18 Release Socket                  |
| 5 Lens Release Button       | 12 Film Rewind Knob               | 19 Film Advance Lever              |
| 6 Contax/Yashica Lens Mount | 13 Film-Speed-Dial Release Button | 20 Electromagnetic Shutter Release |
| 7 Lens Mount Index          | 14 Viewfinder Eyepiece            | 21 Exposure Counter                |

• **Type:** 35mm single-lens reflex with quartz-controlled, aperture preferred automatic exposure. • **Lens Mount:** Contax/Yashica three-claw bayonet. • **Standard Lens:** 50mm f/1.4, f/1.7, f/2 or 42-75mm f/3.5-f/4.5 • **Shutter:** Quartz-timed, electronically-controlled vertical metal focal plane type with speeds LT (11 sec.) to 1/1000 sec. on auto, B, X (1/100 sec.) setting. • **Flash Synch.:** X-synch. at 1/100 sec. (or slower) via direct hot-shoe. Auto flash dedication with CS-201 Auto electronic flash unit. • **Self Timer:** Quartz-timed electronic self-timer with 10 sec. delay, cancellable during operation. LED flashes during operation, accelerating 2 sec. before shutter releases. • **Shutter Release:** Electromagnetic with 0.7mm stroke, interconnects with all off-camera control accessories. • **Exposure Control:** Through-the-lens (TTL) center weighted metering at full aperture using SPD (Silicon Photo Diode) sensor; EV1 to EV18 (ASA/ISO 100 at f/1.4) with  $\pm 2$ EV exposure compensation. • **Exposure Check:** Viewfinder LED display lights up for 10 seconds when a slight pressure is applied to the

shutter release button. • **Film Speed Range:** ASA/ISO 25 to 1600. • **AE Lock:** Locks in shutter speed, aperture can be varied. For special effects with intentional OVER or UNDER exposure. • **Viewfinder:** Silver-coated pentaprism type, shows 95% of actual area at 0.86x magnification. • **Focusing Screen:** Horizontal split-image with micropism. • **Viewfinder Display:** LED display of auto shutter speeds with OVER/UNDER warning and LED flash-ready indicator. 10 second auto cut-off conserves battery power. • **Film Advance:** Manual advance with 130° stroke. • **Film Rewind:** By rewind crank after rewind film release button is pressed. • **Frame Counter:** Accumulative, auto-resetting type. • **Power Source:** Two 1.55V silver-oxide batteries SR-44 or 1.5V alkaline batteries LR-44. • **Battery Check:** Low power level indicated by slow flickering of viewfinder LED display. • **Other Features:** contoured grip on camera body. Padded simulated leather covering. Four-position main switch (Off/Auto/X/B). • **Size:** 135 x 88.5 x 50mm (5-5/16 x 3-1/2 x 1-15/16 in.) • **Weight:** 435 g w/o battery (15.3 ozs.)



## FX-3



- BODY ONLY w/two 1.5V silver-oxide batteries & strap
- Standard Case
- Zoom Case
- Yashica Lens ML f/2 50mm

Price .....  
 Price .....  
 Price .....  
 Price .....

### Sporty, Ultra-Compact FX-3 with LED Readout Expands FX Series

The LED•O•MATIC Yashica FX-3 adds a new dimension to the Yashica FX Series cameras. Like other FX cameras, the FX-3 features the Contax/Yashica bayonet mount permitting use with a wide range of interchangeable lenses, but it also features the latest lightweight and ultra-compact sporty body design to permit the ultimate in handling ease. Moreover, its new easy-to-set, easy-to-read LED•O•MATIC exposure system is almost as easy to operate as Auto and features a quick-response SPD cell for highly accurate exposure setting. To set the exposure, the user simply preselects the shutter speed in relation to shooting conditions, presses the exposure check button and turns the aperture ring until the green LED indicator dot in the viewfinder indicates correct exposure. A red (+) LED lights when he is overexposed; if underexposed, a red (–) LED comes on. In addition, when giving priority to depth-of-field control, he may set the aperture first and adjust the shutter speed accordingly.

Another outstanding feature of the FX-3 is a precision, vertically run all-metal focal plane shutter which enables fast 1/125 sec. flash synch via hotshoe. The large-bright viewfinder shows 92% of the picture area and features a split-image/micropism focusing screen for easy focusing with most all lenses. Other convenient features include an 10 sec. self-timer, multi-slot take-up spool for easy film loading and rapid-wind film advance lever.

In addition, the FX-3 accepts a wide range of Contax/Yashica camera and lens accessories, making it a most highly attractive system camera for the cost conscious photographer. The Contax/Yashica Mount also permits the option of later moving up to the high performance Zeiss T\* lens systems.

- Yashica Lens ML f/2 50mm featuring the Contax/Yashica Mount and fully automatic diaphragm action. Full interchangeability with Yashica ML and Zeiss T\* lens lines.
- Vertically run, all-metal focal plane shutter with speeds from 1/1000 sec. to 1 sec., plus "B". Direct hotshoe flash synch at 1/125 sec. or slower.
- Through-the-lens full aperture center-weighted light reading via quick-response SPD cell in pentaprism housing.
- LED•O•MATIC "Zero-in" exposure-metering system. Green LED indicates correct exposure, Red (+) LED indicates overexposure, Red (–) LED indicates underexposure. Readout in viewfinder on pressing exposure check button. ASA range from 12 to 1600. EV range from EV 2 to 18 (f/1.4 at ASA 100).
- Through-the-lens reflex viewfinder with image magnification of 0.91X (at infinity); shows approx. 92% of the image field; diagonal split-image centerspot focusing screen surrounded by micropism collar in matte field.

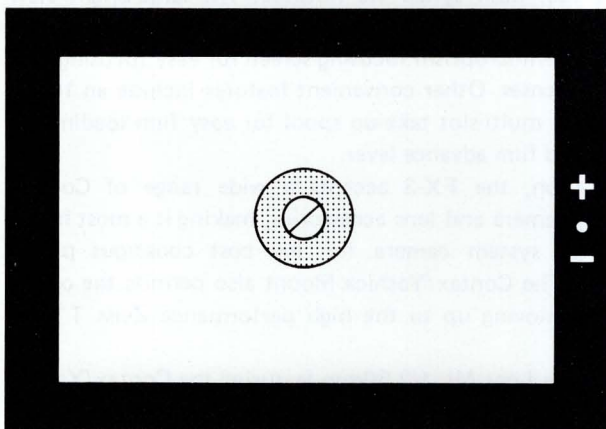


# YASHICA

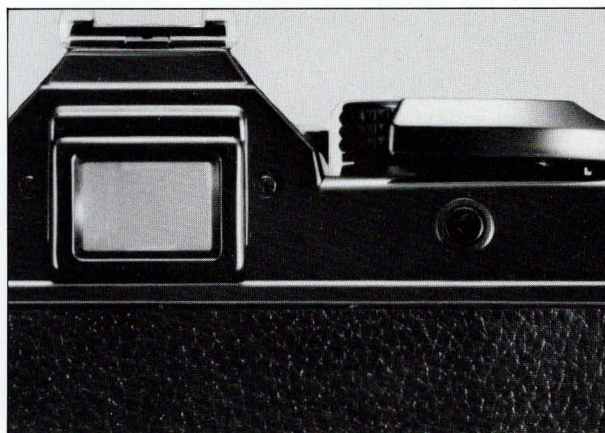
- Other features include built-in 10 sec. self-timer, 130° full-stroke film advance lever with 20° stand-off; multi-slot take-up spool for easy film loading; rapid rewind crank, hinged backcover with double safety lock, lens release button, tripod socket; additive-type, auto resetting exposure counter.
- Powered by two 1.55V silver-oxide batteries (Eveready S76, Ucar S76, Mallory MS-76 or equivalent). Viewfinder LEDs cease to light on pressing exposure check button when batteries need replacement.
- Size and weight:  
135 x 84.5 x 50mm (body only) 450 grams  
5-5/16 x 3-5/16 x 2 in; 15.9 ozs.

## Lens Shade and Filter Size

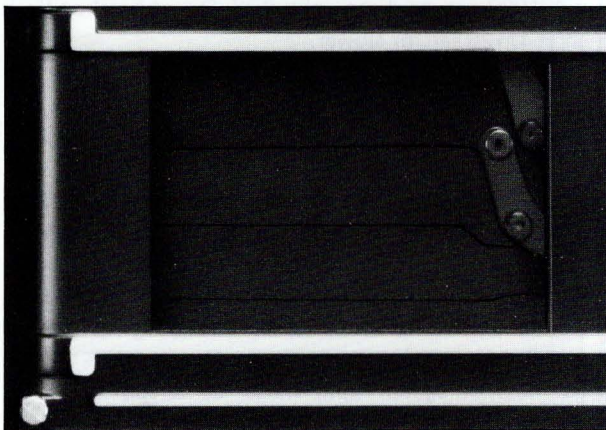
- 54mm slip-on type lens shade for ML f/2 50mm lens.
- 52mm screw-in type filter for ML f/2 50mm lens.



Bright FX-3 viewfinder with 3-way easy-to-set LED•O•MATIC exposure readout system.



Exposure Check Button lights LED display in viewfinder; also serves as battery check button.



High precision, vertically run, metal focal plane shutter enables fast 1/125 sec. flash synch via hotshoe.



Precision Contax/Yashica mount accepts all Yashica ML and Zeiss T\* lenses in addition to optical-path accessories.



## YASHICA FX-3 ZOOM



- |   |             |
|---|-------------|
| • BODY ONLY w/two 1.5V silver-oxide batteries & strap | Price ..... |
| • Zoom Case   | Price ..... |
| • Bottom Case   | Price ..... |
| • Front cover   | Price ..... |
| • Yashica Lens ML Zoom f/3.5~4.5 42~75mm              | Price ..... |
|   | Price ..... |

### Full Creative Control And Zoom Versatility In A Compact, Lightweight 'System' Camera

Yashica's exciting new FX-3 Zoom offers photographers the advantages of the lightweight, compact FX-3 camera body and the creative versatility provided by the ML Zoom f/3.5-4.5 42-75mm lens. The combination of this camera and this lens opens a whole new door to creative, fast-action coverage of a wide range of photographic subjects without any sacrifice in portability.

Marketing as a package of this compact, economical single-lens reflex camera with a zoom optic covering the slightly-wide to slightly-telephoto viewing range is designed to meet the demands of young photographers just beginning in the field, and those restricted to tight budgets. The FX-3 ZOOM expands photographic potential well beyond the capabilities of a 'normal' lens, without increasing cost, size or weight significantly.

Of course, the FX-3 ZOOM retains the full features of the standard FX-3, including simplified-but-precise exposure control through an LED-O-MATIC viewfinder display system that provides instant response for action coverage.

And Zoom Action Freezing of subjects is guaranteed by the fast 1/1000 sec. top shutter speed which combines with the action design for fast handling — fast response to every situation.

System capability is another advantage of the FX-3 ZOOM. Incorporation of the standard three-claw Contax/Yashica bayonet mount allows the camera body to accept not only the optically improved Yashica ML lens line, but also the superior Carl Zeiss T\* lenses as well as every optical-path accessory available in the Real Time System of Photography. This brings the FX-3/FX-3 ZOOM extensive capabilities in the close-up/macro field, ranging all the way from slight increases in magnification using auto extension tubes right down to microscopic images through the use of the Microscope Adapter. And in-between is the entire range of high-magnification photography that produces exquisite creative effects and stunning color designs.

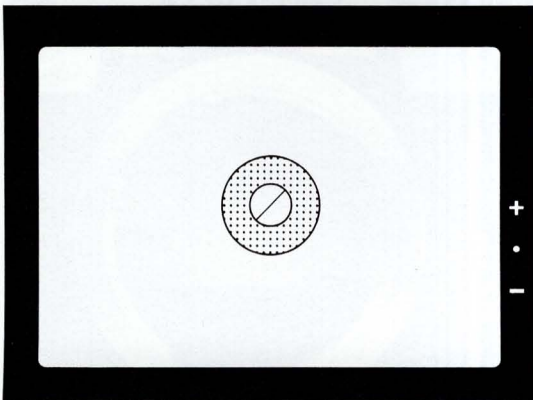


# YASHICA

## YASHICA FX ZOOM 7



- FX-7 (Chrome) Body with ML Zoom f/3.5-4.5 42-75mm (FX ZOOM Case, two 1.5V silver-oxide batteries & strap included)  
Price .....



Bright FX-7 viewfinder with 3-way easy-to-set LED-O-MATIC exposure readout system.

### Total Creative Control with Compact, Lightweight Portability

The incredible versatility of the new Yashica FX ZOOM 7 offers the photographer every function required to take maximum advantage of photo opportunities, yet retains all the compact, lightweight convenience and handling simplicity of the popular FX-3 which has proven itself fully suited to the needs of today's action-oriented photographers.

The FX ZOOM 7 combines a chrome variation FX-3 body (the FX-7) with the optically superior Yashica ML f/3.5-4.5 42-75mm Zoom lens to create a photographic system capable of handling every challenge. With no sacrifice at all in portability or handling simplicity, the FX ZOOM 7 allows the photographer expanded potential for fast-action coverage and creative composition.

#### Simplified functions

All of the functions and controls of the new FX ZOOM 7 are identical to those of the basic FX-3 camera body. To start with, there's the extremely accurate and easy-to-operate exposure metering system known as LED-O-MATIC. The three-symbol LED display in the viewfinder lights red + or - symbols to indicate over or under-exposure, and a green dot to indicate spot-on exposure. The actual metering is performed by a rapid response Silicon Photo Diode (SPD) cell of extreme sensitivity.

To use the LED-O-MATIC system to its maximum potential, simply preselect either shutter speed or aperture setting. Then, press the Exposure Check Button and turn the aperture ring or shutter speed dial until the green dot lights. Shutter speed should be preselected for action coverage; aperture when depth-of-field is a vital consideration in the photograph.

Shutter speeds with the FX ZOOM 7 range from 1 to 1/1000 sec., fast enough to freeze any action, as well as Bulb setting for long exposures. Flash synchronization is at a fast 1/125 sec., thanks to the vertical format of the metal focal plane shutter. The clear, bright viewfinder shows 92 percent of the total picture area, and allows crisp focusing via a split-image/microprism screen that retains full clarity with virtually any lens.



# YASHICA

## System Capabilities

The design contours of the FX ZOOM 7 make it a particularly appropriate camera for the photographer on the move. The body itself is small and light, and the 42-75mm 'Normal Zoom' lens is no larger or heavier than the standard lens to complete an especially portable SLR system. And "system" is no exaggeration with this unit. The use of the standard three-claw Contax/Yashica bayonet lens mount allows the body to accept any Yashica ML or Zeiss T\* lens, along with the entire wide range of optical path accessories available under the Contax and Yashica brandnames. These accessories provide particular advantages in the close-up/macro field, allowing coverage from slight enlargement of detail all the way to normally invisible subjects thanks to microscope adapting.

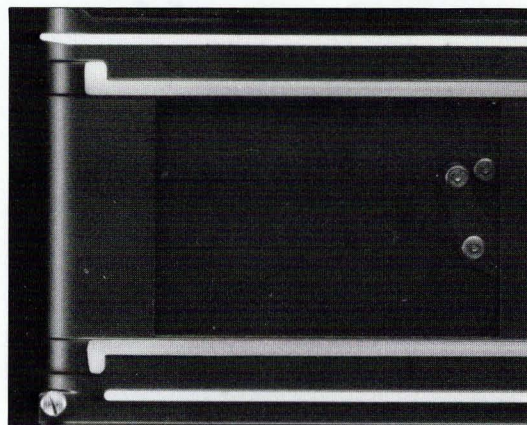
The ML Zoom f/3.5-4.5 42 - 75mm lens of the FX ZOOM 7 provides the photographer with creative composition performance in a range from slightly wider-than-normal to medium telephoto or portrait length. With this single optic, the photographer can perform the work of two or three fixed-focus lenses, and also obtain the creative advantages of zoom-effect images. And all this in a package designed to be no larger or heavier than the standard lens most SLR cameras come equipped with.

The FX ZOOM 7 is particularly advantageous as the first step into SLR photography for a beginner, or for the photographer seeking to obtain maximum creative performance on a limited budget. In addition, its functional capabilities and system advantages make it the perfect choice for a 'second' camera to back up the more sophisticated Contax/Yashica SLRs.

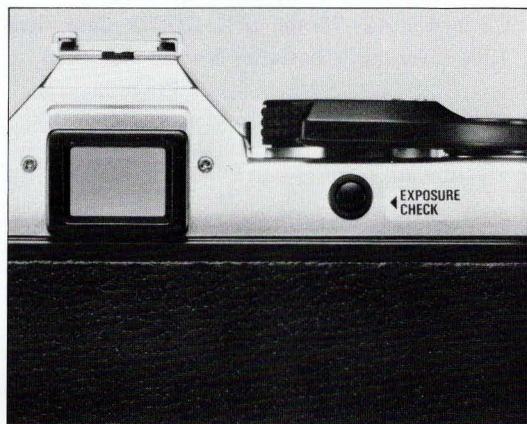
Additional features of the FX ZOOM 7 include its 10-second delay self-timer, a multi-slotted takeup spool for easier, faster film loading and a rapid-wind film advance lever.

## FX ZOOM 7 Specifications:

- **Type:** 35mm single-lens reflex with full manual exposure control
- **Viewfinder:** Silver-coated pentaprism type, shows 92% of actual area at 0.91X magnification
- **Lens Mount:** Contax/Yashica 3-claw bayonet
- **Shutter:** Vertical-format all-metal focal plane shutter with manual speeds 1 to 1/1000 sec. plus 'B'. Direct hot-shoe flash synch at 1/125 sec.
- **Exposure Control:** LED-O-MATIC three-symbol viewfinder display of center-weighted metering pattern read by SPD in range from EV2 to EV18 (f/1.4, ASA 100)
- **Viewfinder Display:** Red + and - LEDs indicate over/under-exposure green dot LED indicates correct exposure
- **Film Advance:** Manual with 130° stroke
- **Frame Counter:** Accumulative, auto-resetting type
- **Self-Timer:** 10-second delay
- **Power Source:** Two 1.55V silver-oxide batteries (S76 or equivalent)
- **Size:** 135 x 84.5 x 50mm (5-5/16 x 3-5/16 x 2 in.)
- **Weight:** 450 grasm (body only) (15.9 ozs.).



*High precision, vertical format, metal focal plane shutter enables fast 1/125 sec. flash synch via hotshoe.*



*Exposure Check Button lights LED display in viewfinder; also serves as battery check button.*



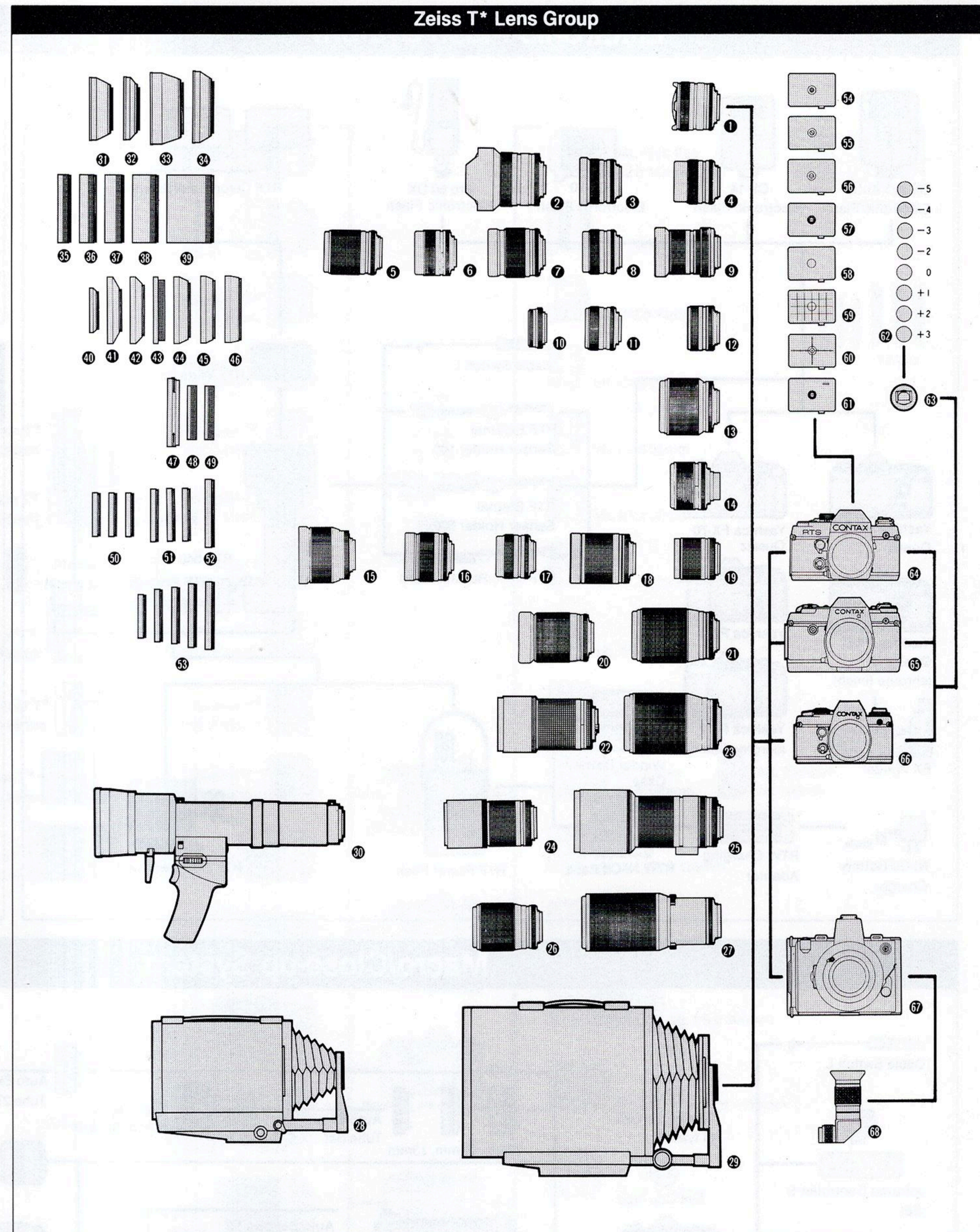
*Precision Contax/Yashica mount accepts all Yashica ML and Zeiss T\* lenses in addition to optical-path accessories.*



# Contax SLRs System Accessories.

## Zeiss T\* Lens Group

- 1 F-Distagon T\* 16mm F2.8 (Fish Eye)
- 2 Distagon T\* 15mm F3.5
- 3 Distagon T\* 18mm F4
- 4 Distagon T\* 25mm F2.8
- 5 Distagon T\* 28mm F2
- 6 Distagon T\* 28mm F2.8
- 7 Distagon T\* 35mm F1.4
- 8 Distagon T\* 35mm F2.8
- 9 PC-Distagon T\* 35mm F2.8 (Shift)
- 10 Tessar T\* 45mm F2.8
- 11 Planar T\* 50mm F1.4
- 12 Planar T\* 50mm F1.7
- 13 S-Planar T\* 60mm F2.8 (Macro)
- 14 S-Planar T\* 100mm F4 (Bellows)
- 15 Planar T\* 85mm F1.2
- 16 Planar T\* 85mm F1.4
- 17 Sonnar T\* 85mm F2.8
- 18 Planar T\* 100mm F2
- 19 Sonnar T\* 100mm F3.5
- 20 Planar T\* 135mm F2
- 21 Sonnar T\* 135mm F2.8
- 22 Sonnar T\* 180mm F2.8
- 23 Tele-Tessar T\* 200mm F3.5
- 24 Tele-Tessar T\* 200mm F4
- 25 Tele-Tessar T\* 300mm F4
- 26 Vario-Sonnar T\* 40~80mm F3.5
- 27 Vario-Sonnar T\* 70~210mm F3.5
- 28 Mirotar 500mm F4.5
- 29 Mirotar 1000mm F5.6
- 30 N-Mirotar 210mm
- 31 Soft Lens Shade 55mm G-11
- 32 Soft Lens Shade 55mm G-12
- 33 Soft Lens Shade 67mm G-13
- 34 Soft Lens Shade 67mm G-14
- 35 Metal Lens Hood No.1
- 36 Metal Lens Hood No.2
- 37 Metal Lens Hood No.3
- 38 Metal Lens Hood No.4
- 39 Metal Lens Hood No.5
- 40 Adapter Ring (49/55)
- 41 Adapter Ring (55/66)
- 42 Adapter Ring (67/86)
- 43 Adapter Ring (70/86)
- 44 Adapter Ring (72/86)
- 45 Adapter Ring (77/86)
- 46 Adapter Ring (82/86)
- 47 Gelatine Filter Holder Set (55mm Ring, Filter Frame included)
- 48 55mm Ring (Adapter Ring)
- 49 52mm Ring (Adapter Ring)
- 50 Softar 55mm I~III
- 51 Softar 67mm I~III
- 52 Softar 86mm II
- 53 Filters
- 54 Focusing Screens (FS-Type)
- 55 Micro-prism FS-1
- 56 45° Split-image FS-2
- 57 Horizontal Split-image FS-3
- 58 Split Micro-prism FS-4
- 59 Matte FS-5
- 60 Sectioned matte FS-6
- 61 Cross-scale FS-7
- 62 Split Micro-prism (w/Data Position FS-41)
- 63 Diopter Lens (8 types)
- 64 Eye Cup
- 65 Contax RTSII Quartz
- 66 Contax 137 MA Quartz
- 67 Contax 139 Quartz
- 68 Contax Preview Camera body
- 69 Right Angle Finder for Contax Preview

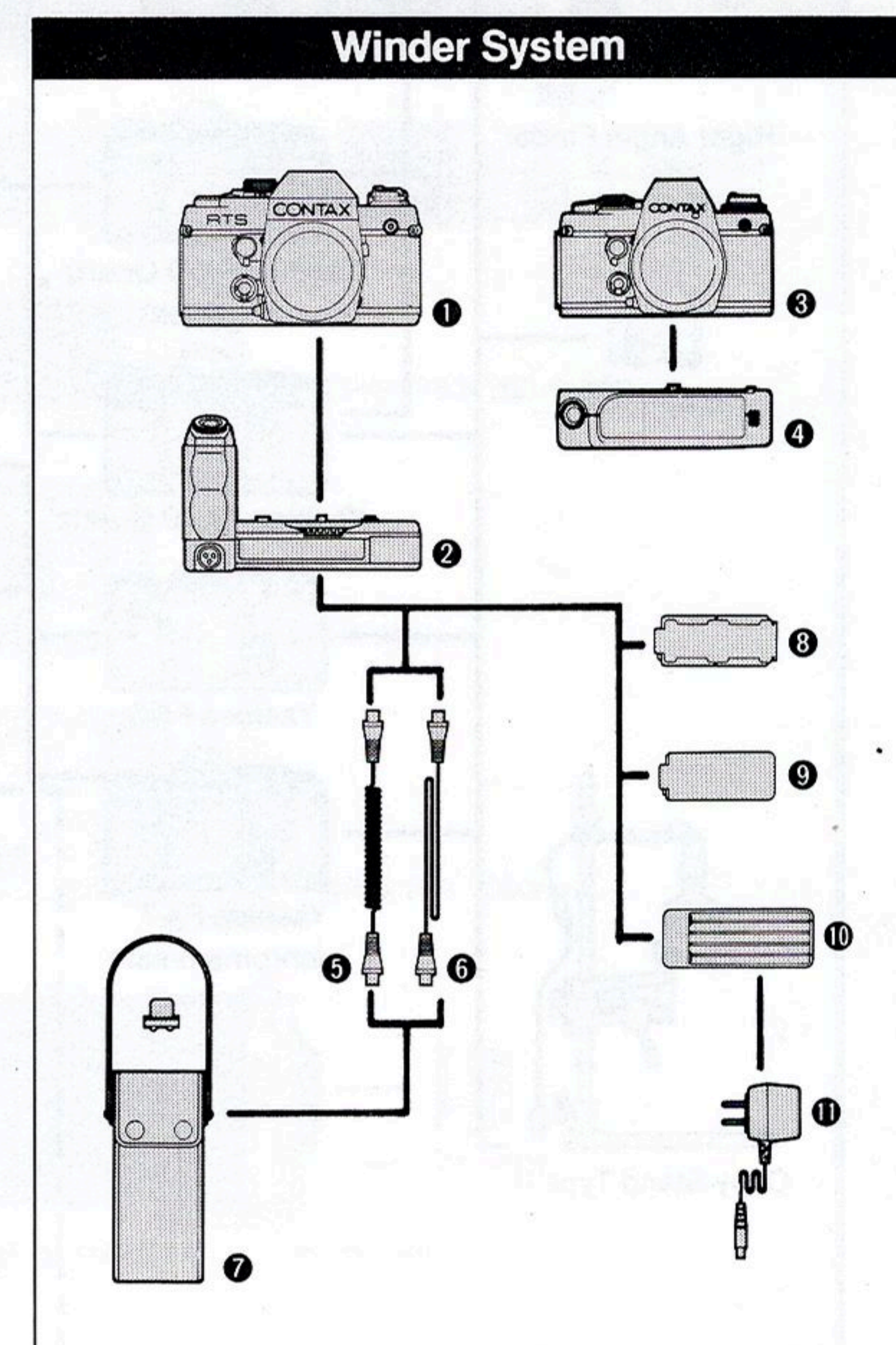
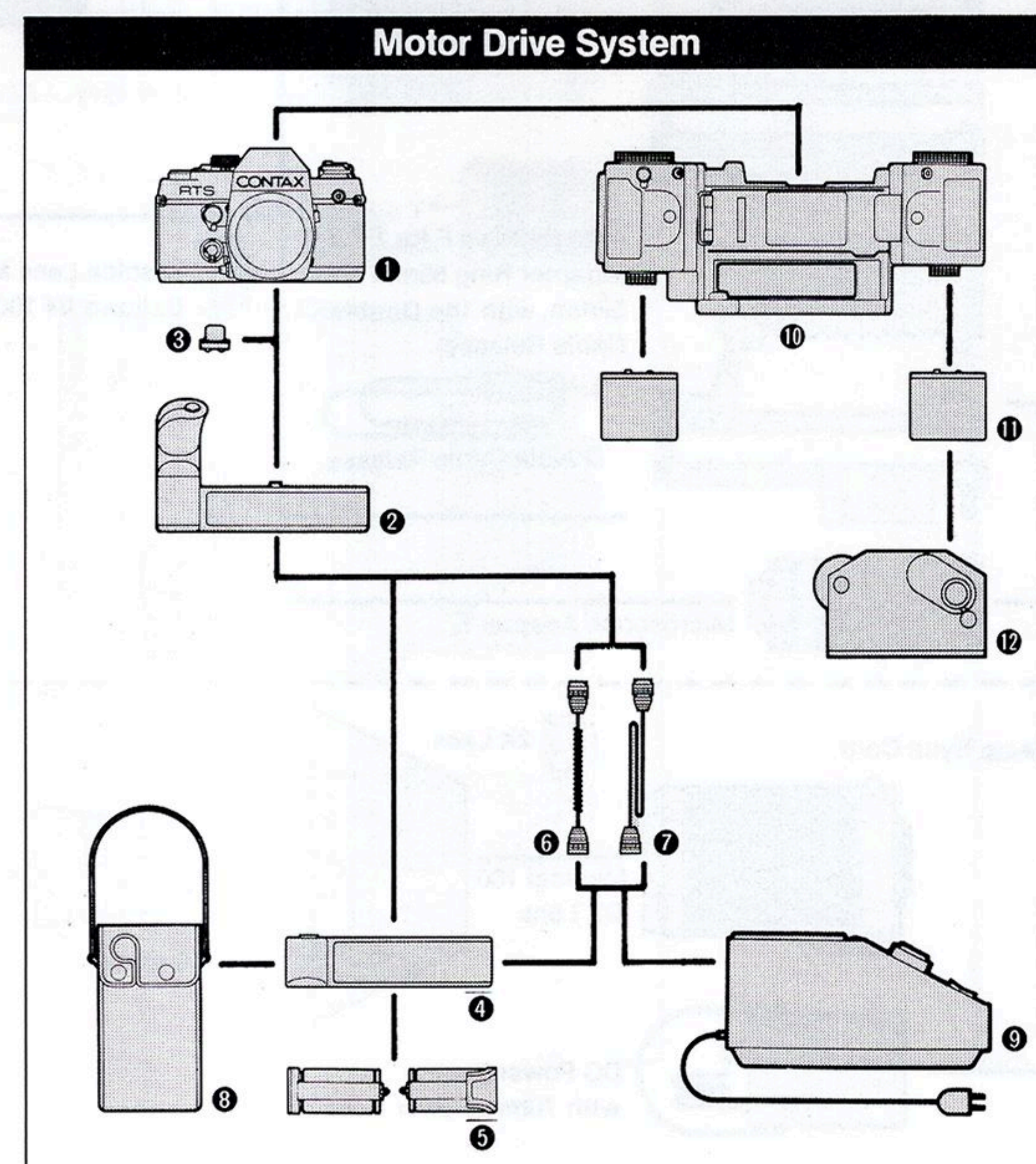


## Motor Drive System

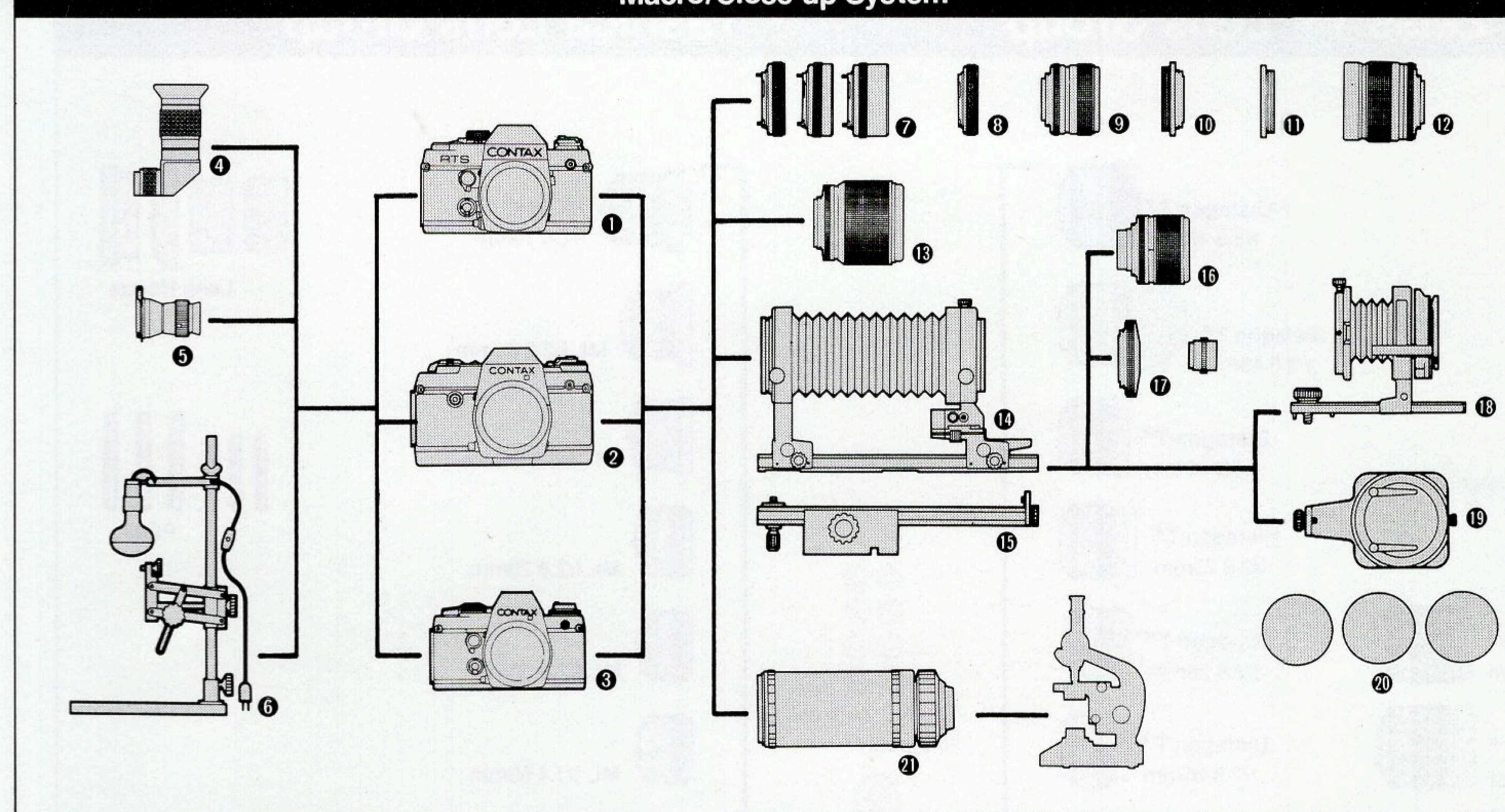
- 1 Contax RTSII Quartz
- 2 Professional Motor Drive W-6
- 3 Power Adapter
- 4 PMD Power Pack
- 5 PMD Battery Cases
- 6 PMD Control Cord 100
- 7 PMD Control Cord 300
- 8 PMD Power Pack Jacket
- 9 AC Control Box
- 10 250 Film Magazine
- 11 Film Loader

## Winder System

- 1 Contax RTSII Quartz
- 2 Real Time Winder W-3
- 3 Contax 139 Quartz
- 4 139 Winder
- 5 RTW Power Cord 100
- 6 RTW Power Cord 300
- 7 RTW Power Pack (w/Power Adapter & Jacket)
- 8 Winder Battery Case
- 9 RTW Ni-Cd Pack
- 10 RTW Charging Adapter
- 11 Ni-Cd Battery Charger



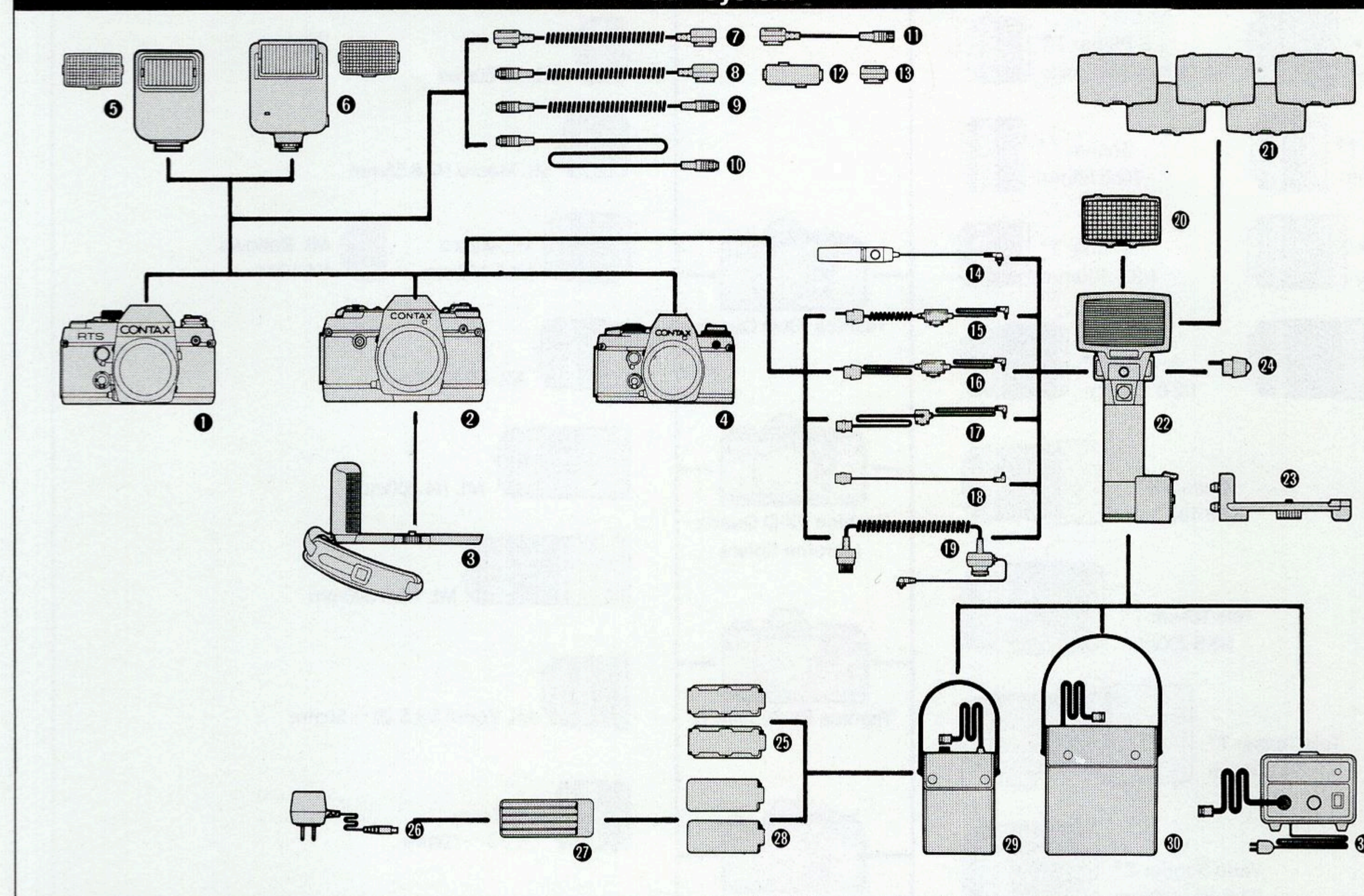
## Macro/Close-up System



## Macro/Close-up System

- 1 Contax RTSII Quartz
- 2 Contax 137 MA Quartz
- 3 Contax 139 Quartz
- 4 Right Angle Finder
- 5 Magnifier
- 6 Copy Stand Type II
- 7 Auto Extension Type Set
- 8 Extension Tube 7.5mm
- 9 Planar T\* 50mm
- 10 Reverse Ring
- 11 Adapter Ring 67mm
- 12 Planar T\* 85mm F1.4
- 13 S-Planar T\* 60mm F2.8 (Macro)
- 14 Auto Bellows PC Set (Connector Cord, Adapter Ring 55mm, 52mm, Cable Release)
- 15 Focusing Rail
- 16 S-Planar T\* 100mm F4 (Bellows)
- 17 Luminar Adapter
- 18 Slide Copier
- 19 Macro Stand
- 20 Stage Glasses
- 21 Microscope Adapter F

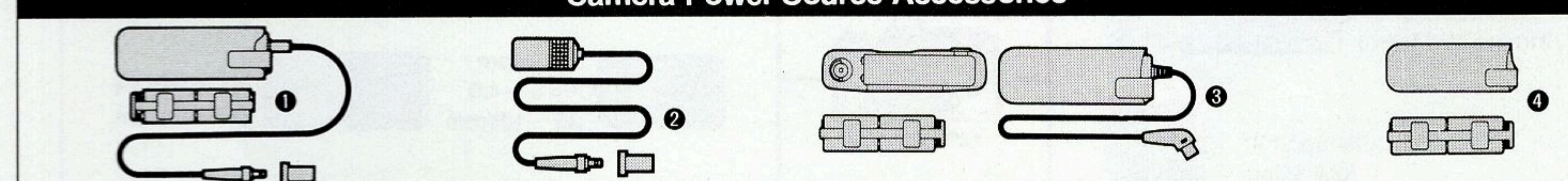
## Flash System



## Flash System

- 1 Contax RTSII Quartz
- 2 Contax 137 MA Quartz
- 3 137 Grip Adapter
- 4 Contax 139 Quartz
- 5 TLA 20 Auto Electronic Flash
- 6 TLA 30 Auto Electronic Flash
- 7 TLA Extension Cord 100
- 8 TLA Extension Cord 100S
- 9 TLA Extension Cord 100SS
- 10 TLA Extension Cord 300SS
- 11 TLA Extension Connector S
- 12 TLA Multi-Connector S
- 13 TLA Attachment Adapter
- 14 Cable Switch L
- 15 RTF External Sensor Holder 100
- 16 RTF External Sensor Holder 500
- 17 RTF Sync-Release Cord S
- 18 RTF Sync Cord
- 19 RTF 540 TLA Adapter
- 20 RTF Wide Panel
- 21 RTF Color Panel (5 Types)
- 22 RTF 540 Unit
- 23 RTF Bracket
- 24 RTF Slave Unit
- 25 Winder Battery Cases
- 26 Ni-Cd Battery Charger
- 27 RTW Charging Adapter
- 28 RTW Ni-Cd Pack
- 29 RTF Power Pack Set
- 30 RTF Battery Pack Set
- 31 RTF AC Power Unit

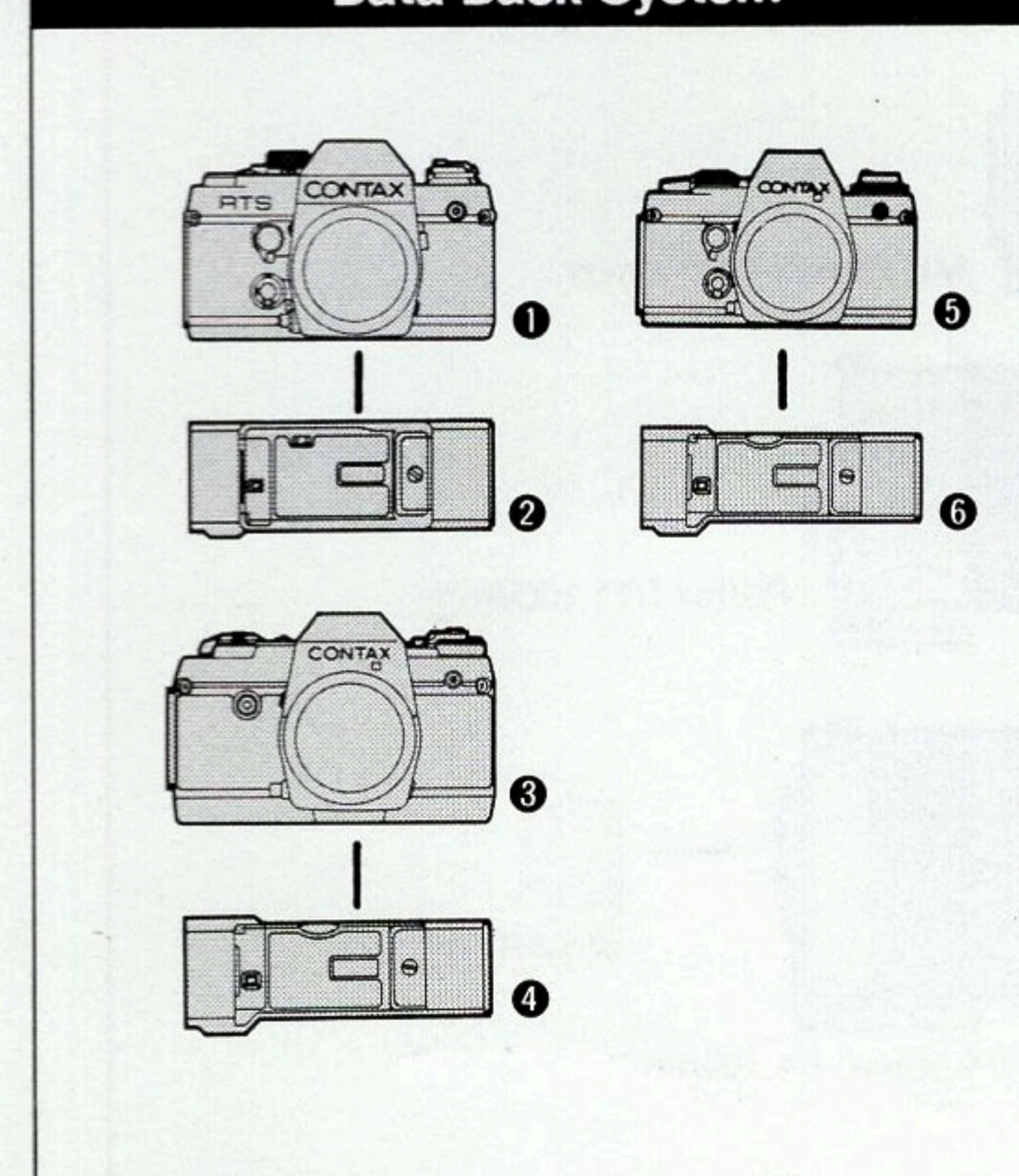
## Camera Power Source Accessories



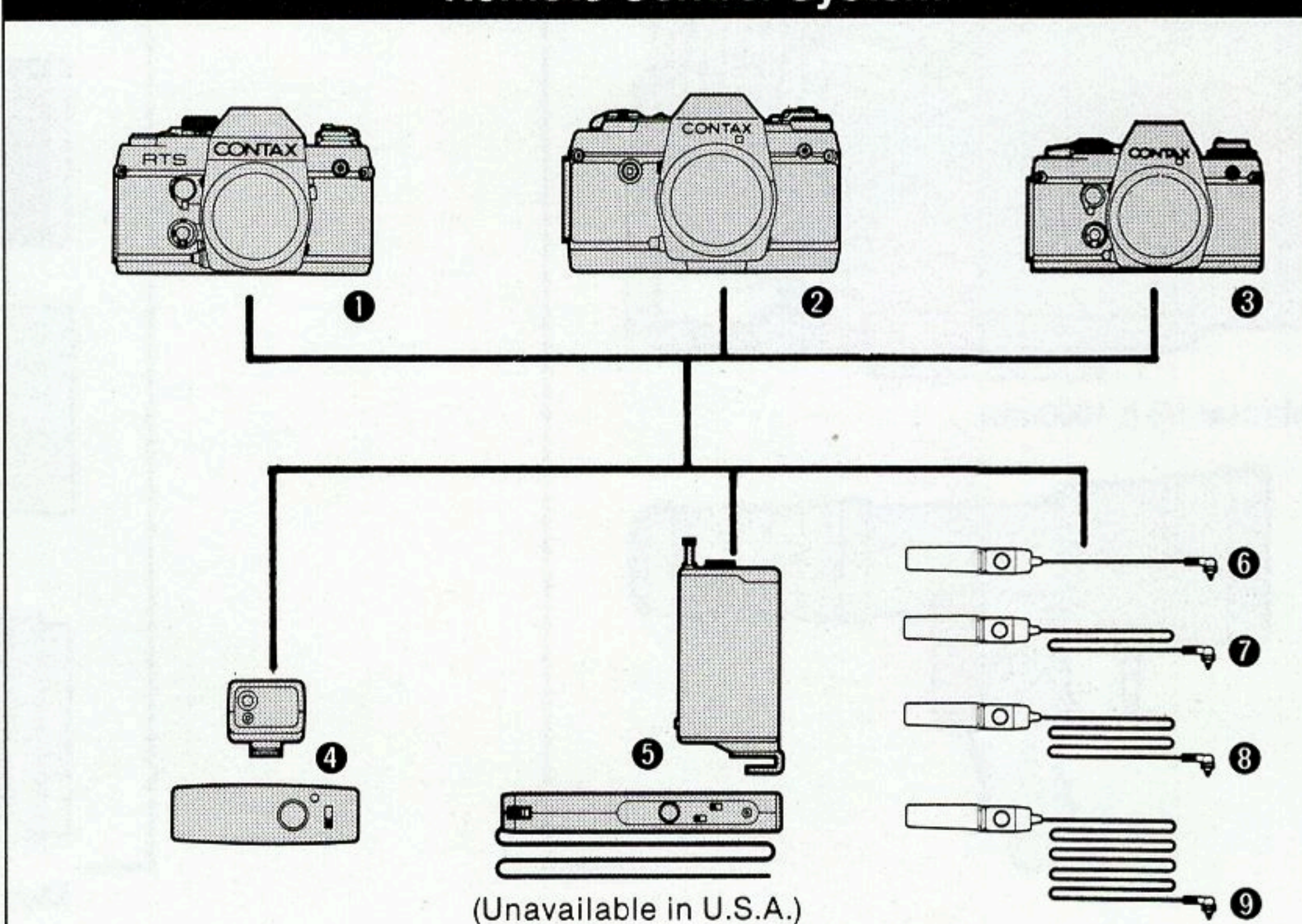
## Camera Power Source Accessories

- 1 External Power Pack P-3 Set (RTSII Q/RTS)
  - 2 External Battery Holder Set (RTSII Q/RTS)
  - 3 137 Power Pack Set (Power Pack, Power Adapter, Battery Case, Jacket)
  - 4 137 Spare Battery Case
- Note: The Battery Case of the 137 Power Pack Set, the 137 Spare Battery Case and the Power Pack P-3 Set are all interchangeable.

## Data Back System



## Remote Control System



## Data Back System

- 1 Contax RTSII Quartz
- 2 Data Back Quartz D-4
- 3 Contax 137 MA Quartz
- 4 Data Back Quartz D-5
- 5 Contax 139 Quartz
- 6 Data Back Quartz D-6

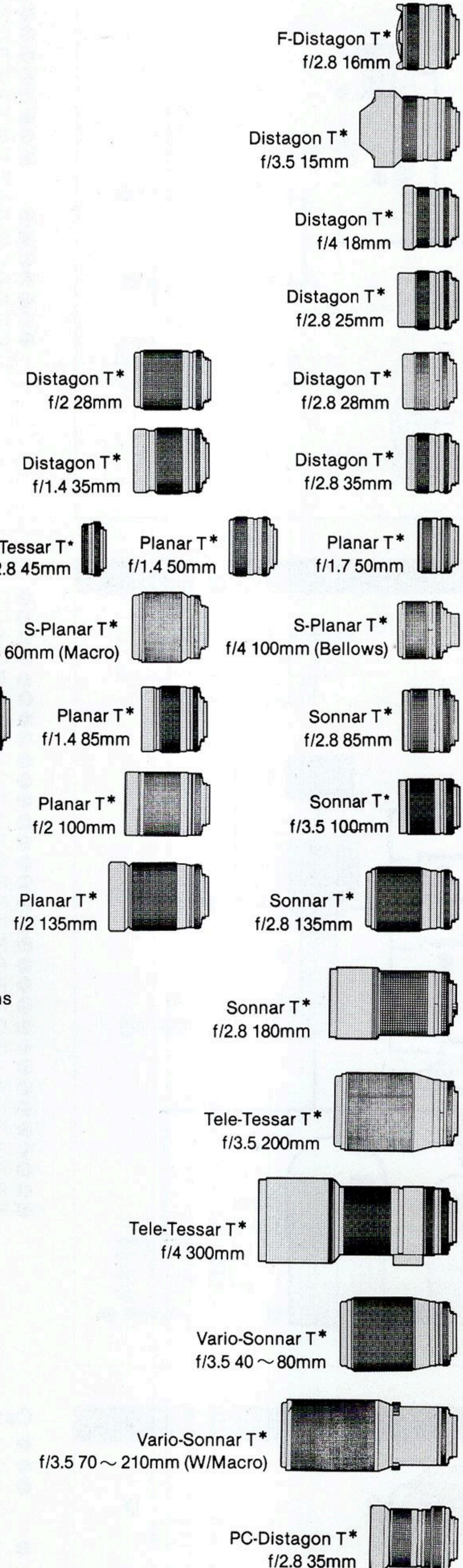
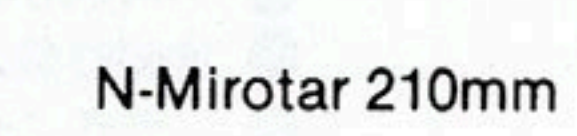
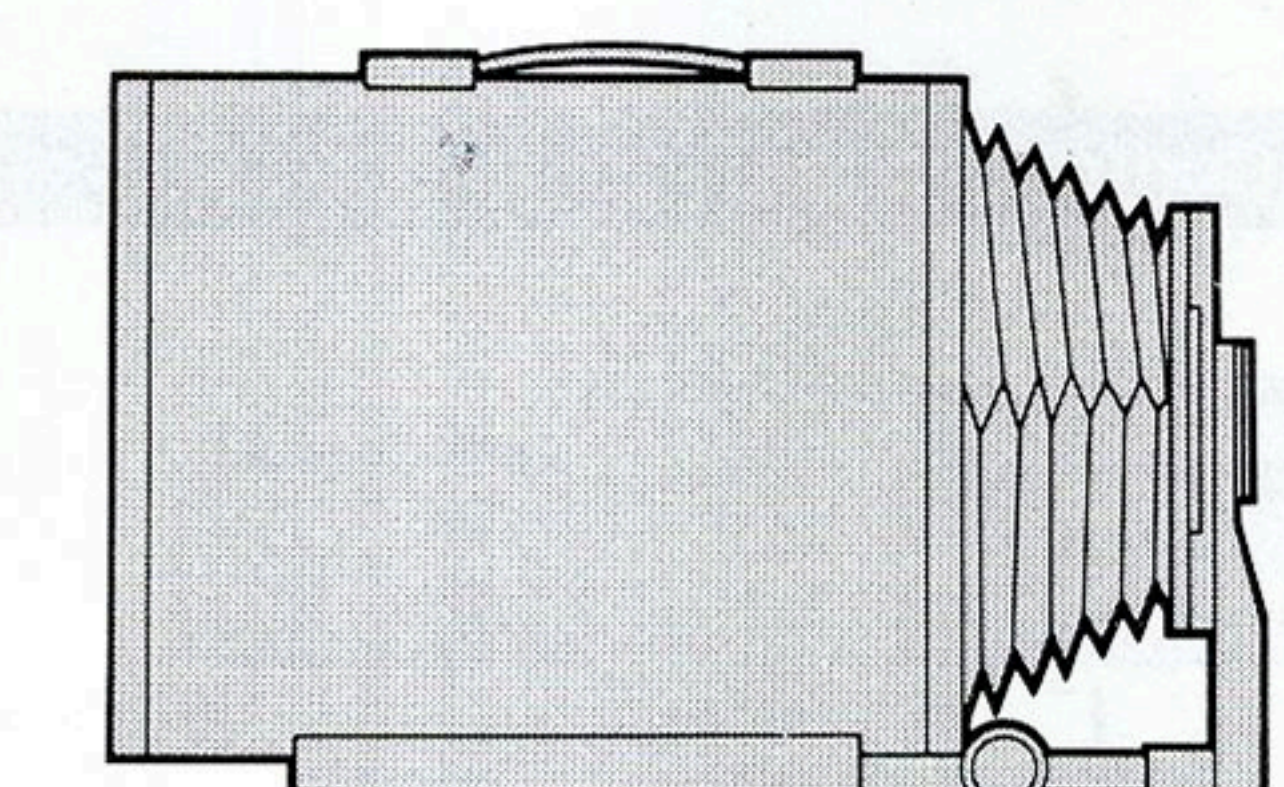
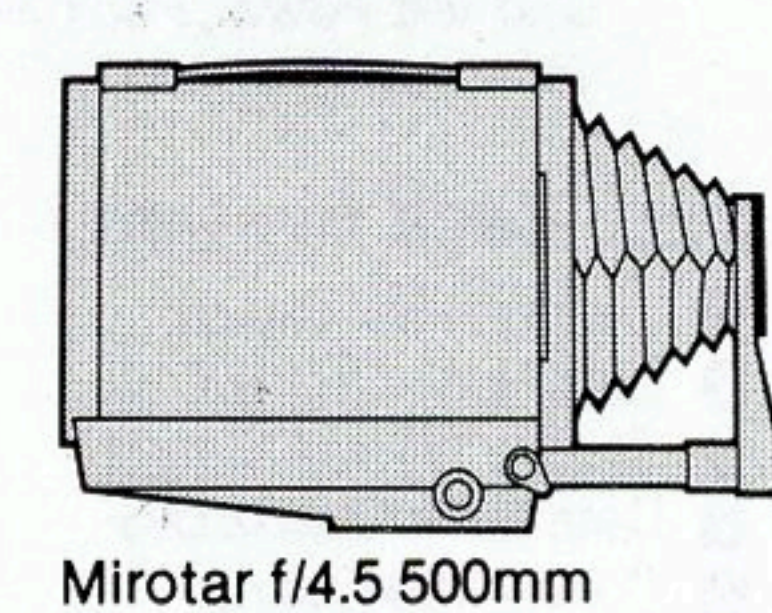
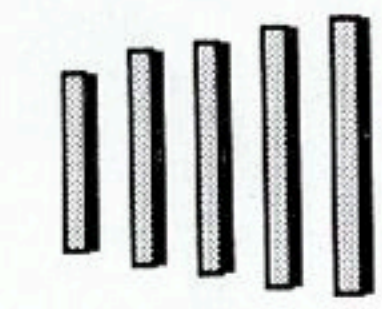
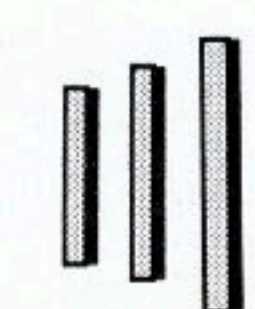
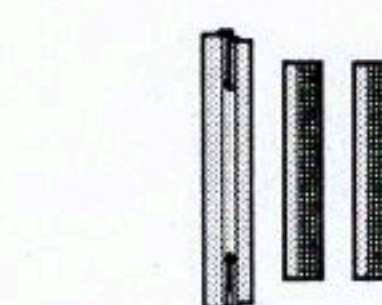
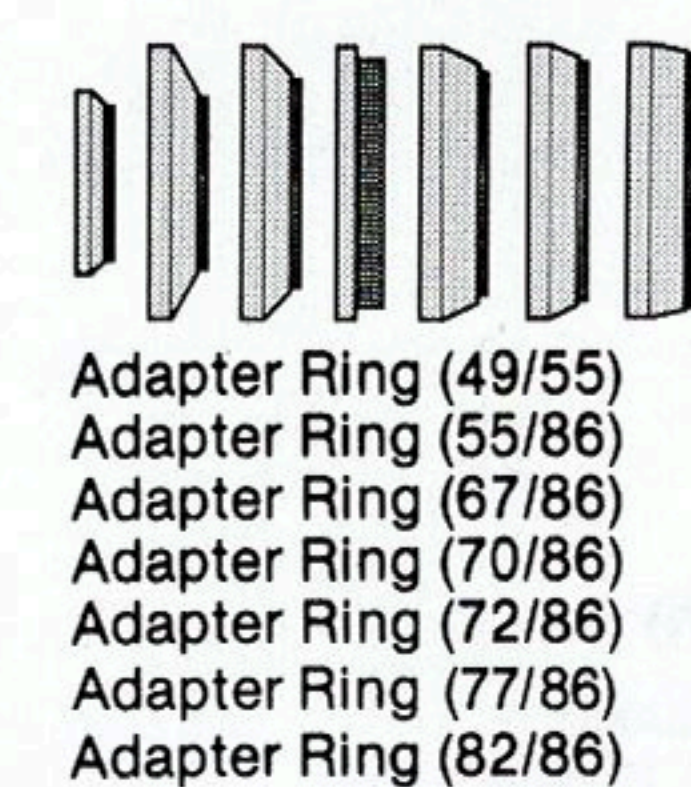
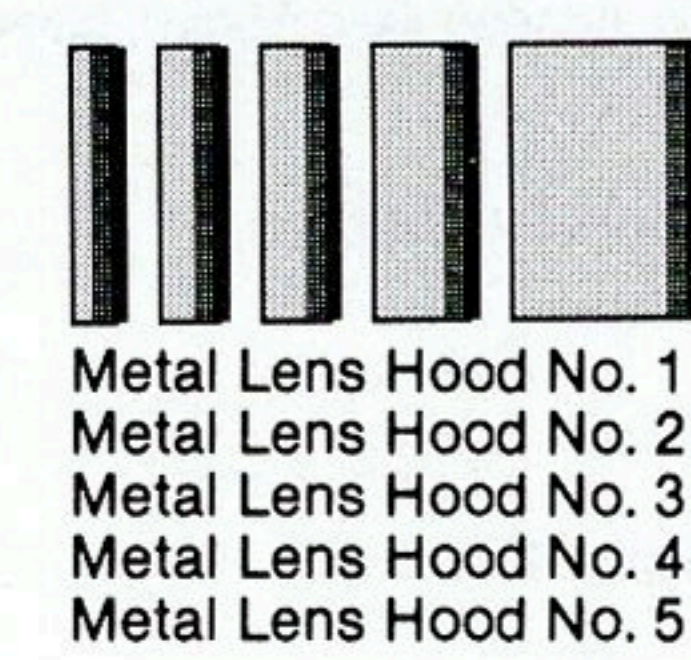
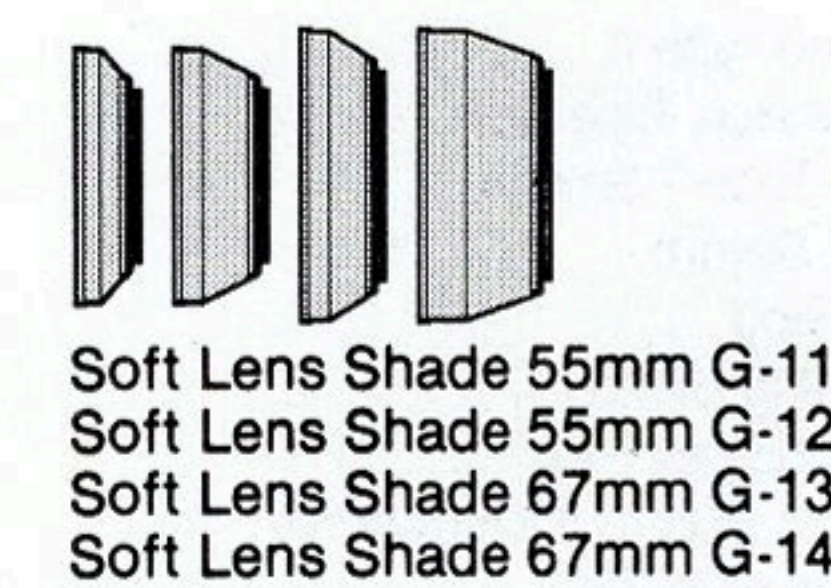
## Remote Control System

- 1 Contax RTSII Quartz
- 2 Contax 137 MA Quartz
- 3 Contax 139 Quartz
- 4 Infrared Controller S Set
- 5 Radio Controller Set
- 6 Cable Switch L-30
- 7 Cable Switch L-100
- 8 Cable Switch L-300
- 9 Cable Switch L-1000

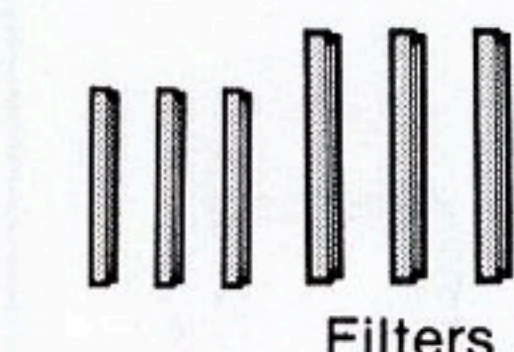
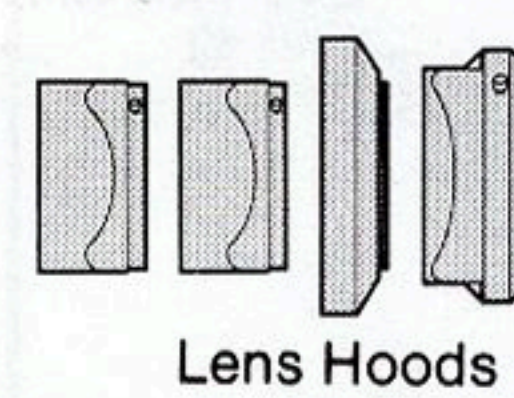
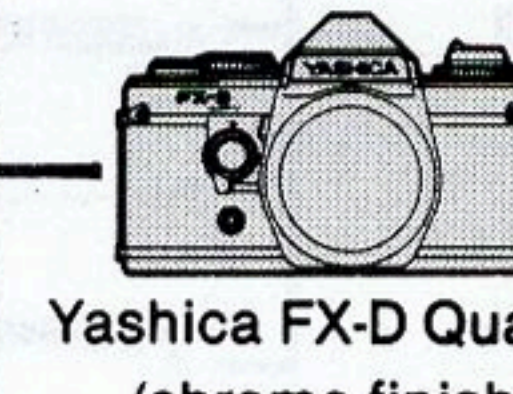
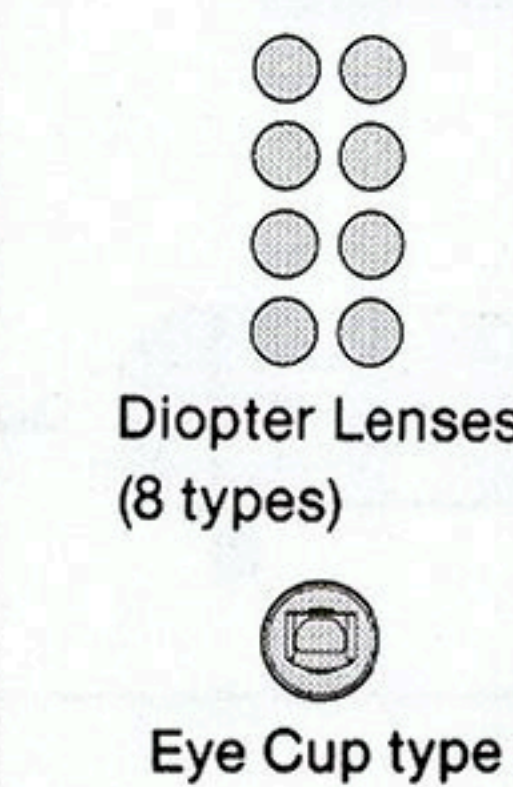
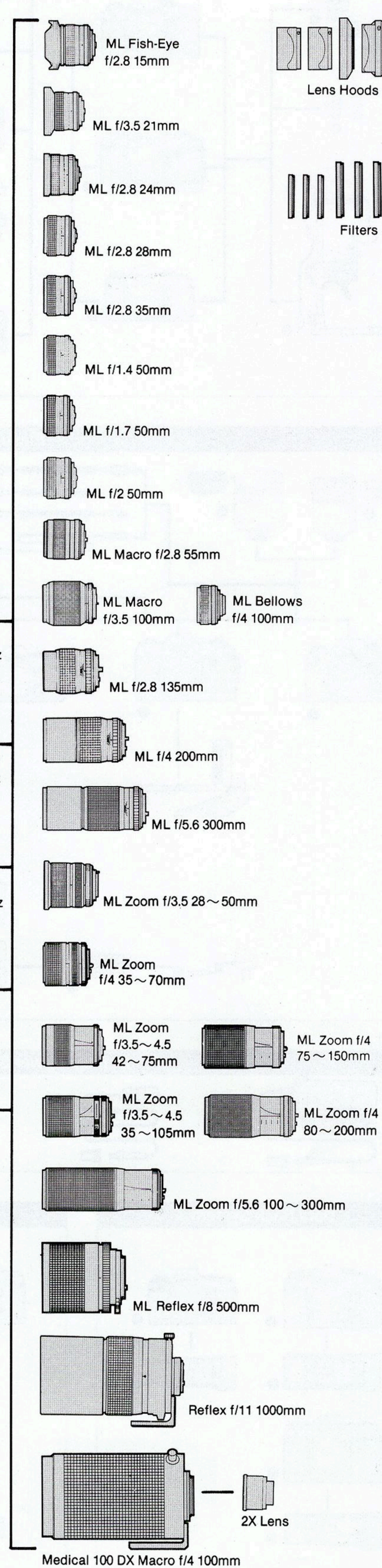


# Yashica SLRs System Accessories.

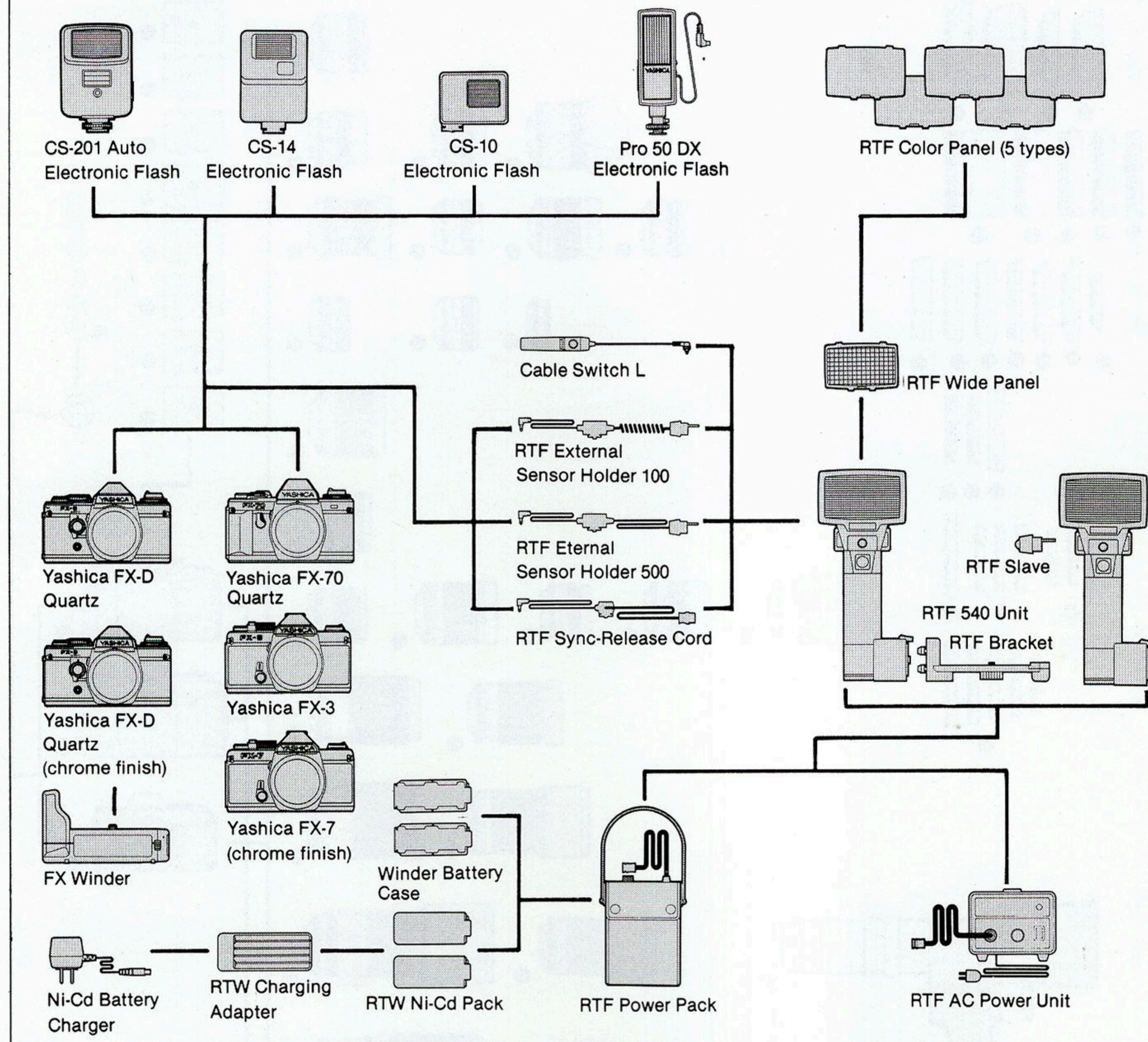
## Zeiss T\* Lens Group



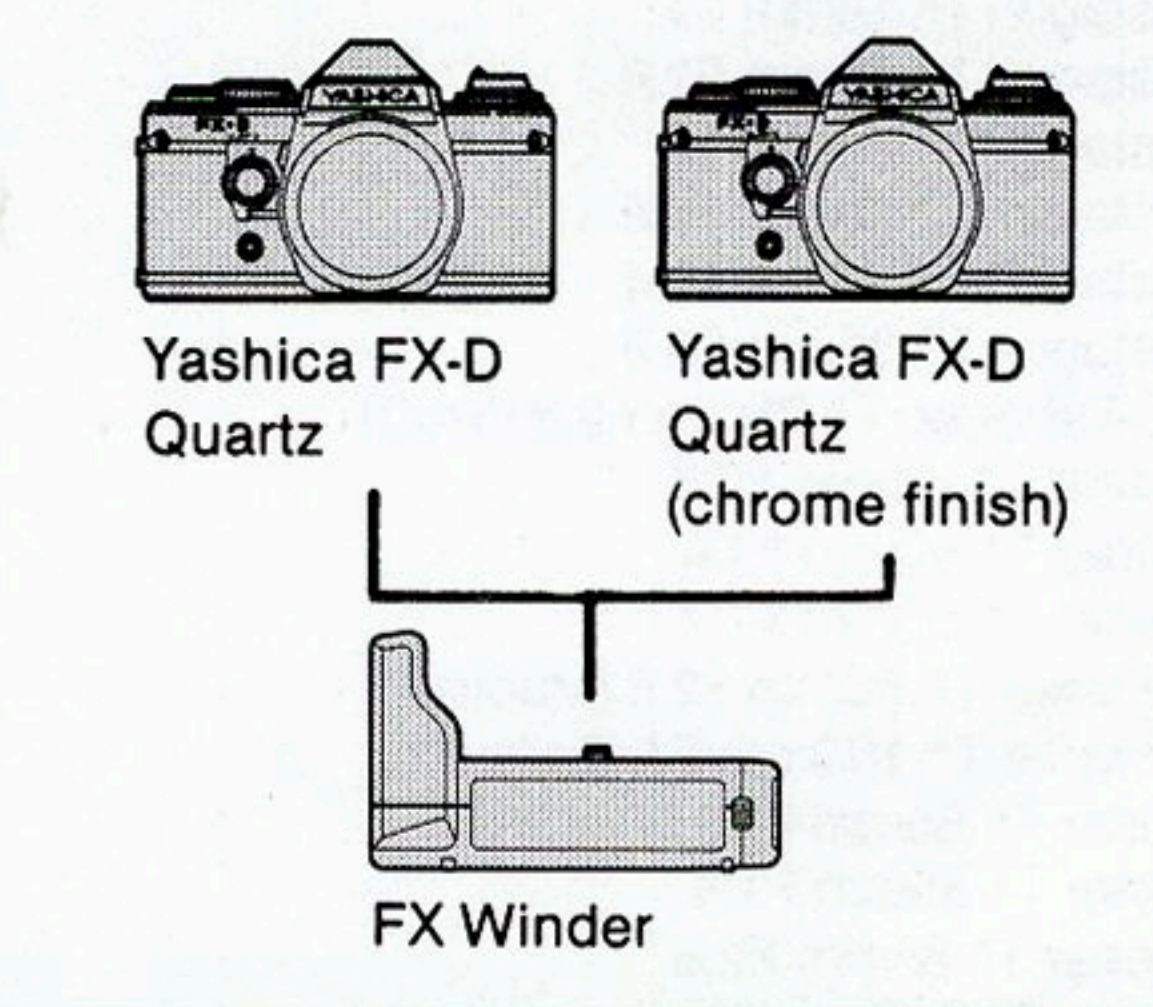
## Yashica Lens Group



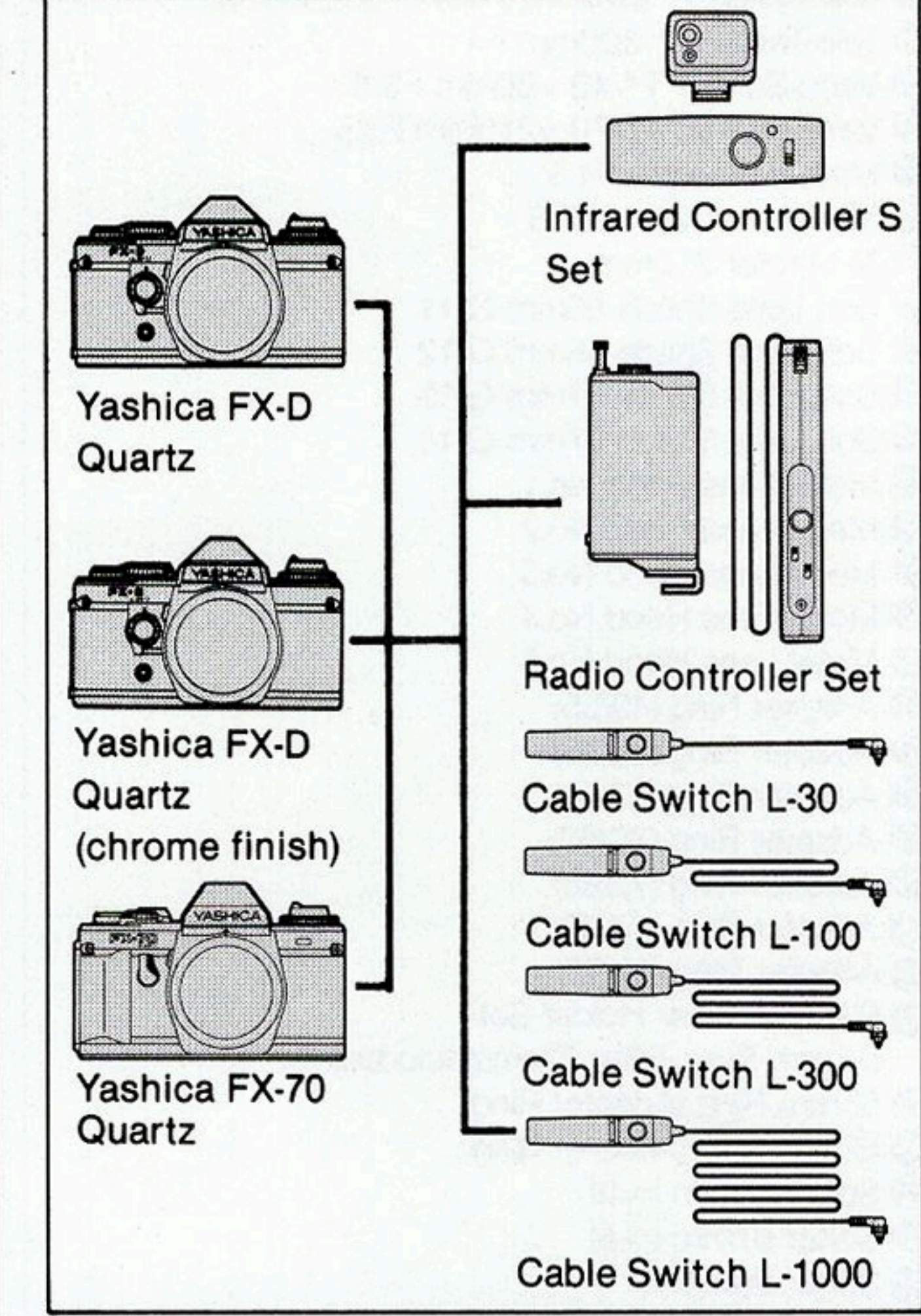
## Electronic Flash System



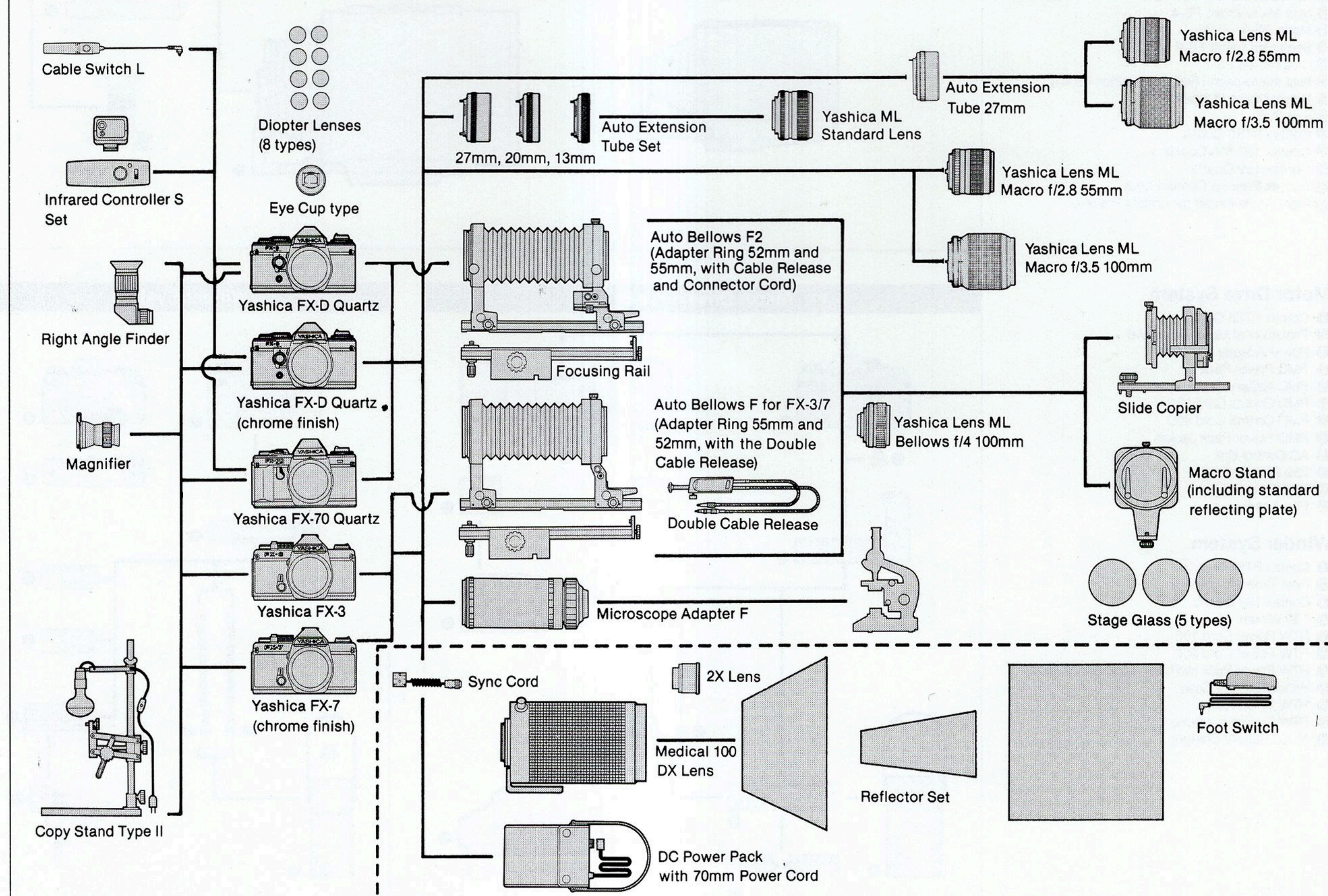
## Winder System



## Remote Control System Cable Switch System



## Macro/Close-up System





**YASHICA**

# **Yashica ML Interchangeable Lenses**





## Interchangeable Yashica Lenses

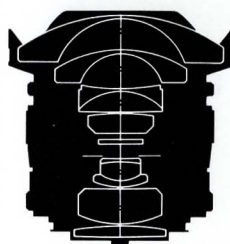
\*Specifications and exterior design subject to change without prior notice.

Lens	Composition	Angle of View	Min. Focus (m) (ft.)		Aperture range	Size (mm)	Weight (g)
ML Fish-Eye f/2.8 15 mm	10 - 7	170°	0.3	1	f/2.8 ~ 16	75 x 70.5	445
ML f/3.5 21 mm	12 - 8	91°	0.3	1	f/3.5 ~ 16	75 x 54	370
ML f/2.8 24 mm	9 - 8	84°	0.3	1	f/2.8 ~ 16	66 x 48.5	285
ML f/2.8 28 mm	7 - 6	75°	0.3	1	f/2.8 ~ 16	61.5 x 41.5	250
ML f/2.8 35 mm	6 - 5	63°	0.3	1	f/2.8 ~ 16	61.5 x 41.5	230
ML f/1.4 50 mm	7 - 6	46°	0.5	1.75	f/1.4 ~ 16	61.5 x 42	295
ML f/1.7 50 mm	6 - 5	46°	0.5	1.75	f/1.7 ~ 16	61.5 x 40	240
ML f/2 50 mm	6 - 4	46°	0.5	1.75	f/2 ~ 16	61 x 32	140
ML f/1.2 55 mm	7 - 6	43°	0.5	1.75	f/1.2 ~ 16	66.5 x 50	410
ML f/2.8 135 mm	5 - 4	18°30'	1.5	5	f/2.8 ~ 22	63 x 75	420
ML f/4 200 mm	5 - 4	12°30'	2.5	8	f/4 ~ 22	64 x 113.5	535
ML f/5.6 300 mm	6 - 3	8°30'	4.5	15	f/5.6 ~ 22	66 x 147.5	645
ML Reflex f/8 500 mm	8 - 6	5°	2.5	10	f/8 only	78 x 87.5	470
Reflex f/11 1000 mm	6 - 5	2°30'	8	25	f/11 only	118 x 220	2,330
ML Zoom f/3.5 28~50 mm	10 - 8	74°~48°	1.0	3.5	f/3.5 ~ 22	75 x 74.5	475
ML Zoom f/4 35~70 mm	7 - 7	64°~35°	0.6	2	f/4 ~ 22	67 x 71	390
ML Zoom f/3.5~4.5 35~105 mm	15 - 11	64°~23°40'	1.5	5	f/3.5 ~ 22	65 x 84.5	470
ML Zoom f/3.5~4.5 42~75 mm	7 - 7	53°~33°	1.2	3.9	f/3.5 ~ 22	61 x 57	315
ML Zoom f/4 75~150 mm	12 - 9	30°~16°30'	1.5	5	f/4 ~ 22	63.5 x 115.5	485
ML Zoom f/4 80~200 mm	12 - 9	30°~12°20'	1.9	6.3	f/4 ~ 22	65 x 133	610
ML Zoom f/5.6 100~300 mm	13 - 10	24°~8°30'	1.5 (Reproduction ratio 1:4)	5	f/5.6 ~ 32	68.5 x 192.5	850
ML Macro f/2.8 55 mm	6 - 4	43°	0.25	10 in	f/2.8 ~ 22	61.5 x 56.5	305
ML Macro f/3.5 100 mm	6 - 4	24°	0.44	1.5	f/3.5 ~ 22	67 x 77	430
ML Bellows f/4 100 mm	5 - 3	24°	—	—	f/4 ~ 32	60 x 32	190
Medical 100 Macro f/4 100 mm	5 - 3	24°	0.147	6 in	f/4 ~ 22	94.5 x 155.5	1,000



## YASHICA LENS ML Fisheye f/2.8 15mm w/CASE

Price

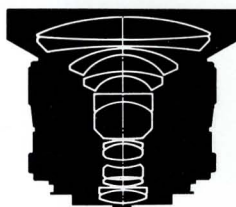


A large aperture, full frame fisheye lens which is ideal for creating spatial and perspective effects of an unusual nature. Features built-in filters and lens shade.

- **Lens Composition:** 10 elements in 7 groups
- **Angular Field:** 170°
- **Minimum Focus:** 0.3m (1 ft.)
- **Aperture Range:** f/2.8 — f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** Built-in turret type (1A, Y48, & O56)
- **Lens Shade:** Built-in type
- **Lens Case:** 80A
- **Lens Cap:** 75mm Slip-on type
- **Size:** 75 x 70.5mm (3 x 2-3/4 in.)
- **Weight:** 445 grams (15.7 ozs.)

## YASHICA LENS ML f/3.5 21mm w/CASE

Price



A super wideangle lens of the most advanced design. The highest performance is assured under all light conditions. And a wide variety of spatial and perspective effects are possible without excessive distortion.

- **Lens Composition:** 12 elements in 8 groups
- **Angular Field:** 91°
- **Minimum Focus:** 0.3m (1 ft.)
- **Aperture Range:** f/3.5 — f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** 72mm screw-in type
- **Lens Shade:** 75mm slip-on type
- **Lens Case:** 80A
- **Lens Cap:** 75mm slip-on type
- **Size:** 75 x 54mm (3x2-1/8 in.)
- **Weight:** 370 grams (13.1 ozs.)

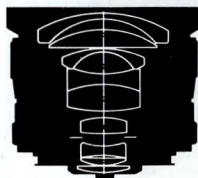


## YASHICA LENS ML f/2.8 24mm w/CASE

Price

The favorite of many photographers because of the large aperture and wide coverage which makes it useful for an enormous range of applications. Emphasizes depth and spatial relations.

- **Lens Composition:** 9 elements in 8 groups
- **Angular Field:** 84°
- **Minimum Focus:** 0.3m (1 ft.)
- **Aperture Range:** f/2.8 – f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** 62mm screw-in type
- **Lens Shade:** 62mm screw-in type available
- **Lens Case:** 70A
- **Lens Cap:** 65mm slip-on type
- **Size:** 65 x 48.5mm (2-9/16 x 1-15/16 in.)
- **Weight:** 285 grams (10.1 ozs.)

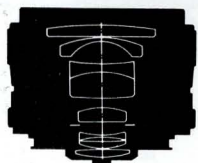


## YASHICA LENS ML f/2.8 28mm w/CASE

Price

One of the most popular wideangle lenses. Provides a wide field of view with minimum distortion for easy handling. Advanced optical design assures uniform field illumination.

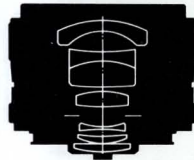
- **Lens Composition:** 7 elements in 6 groups
- **Angular Field:** 75°
- **Minimum Focus:** 0.3m (1 ft.)
- **Aperture Range:** f/2.8 – f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** 52mm screw-in type
- **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A
- **Lens Cap:** 52mm Clip-on type
- **Size:** 61.5 x 41.5mm (2-7/16 x 1-5/8 in.)
- **Weight:** 250 grams (8.8 ozs.)





## YASHICA LENS ML f/2.8 35mm w/CASE

Price

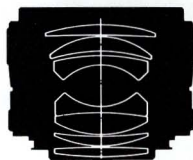


Used as a standard lens by many photographers due to the moderately wide field of view. Can be utilized in almost any situation. The great depth-of-field is convenient for fast shooting where there is little time for precise focusing.

- **Lens Composition:** 6 elements in 5 groups
- **Angular Field:** 63° • **Minimum Focus:** 0.3m (1 ft.)
- **Aperture Range:** f/2.8 — f/16 • **Diaphragm Action:** Fully automatic
- **Filter:** 52mm screw-in type • **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A • **Lens Cap:** 52mm Clip-on type
- **Size:** 61.5 x 41.5mm (2-7/16 x 1-5/8 in.) • **Weight:** 230 grams (8.1 ozs.)

## YASHICA LENS ML f/1.4 50mm

Price



The perfect combination of high speed and high image quality. Field illumination is uniform at all apertures. An all-round lens for practically all purposes.

- **Lens Composition:** 7 elements in 6 groups
- **Angular Field:** 46° • **Minimum Focus:** 0.5m (1.75 ft.)
- **Aperture Range:** f/1.4 — f/16 • **Diaphragm Action:** Fully automatic
- **Filter:** 52mm screw-in type • **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A (optional) • **Lens Cap:** 52mm Clip-on type
- **Size:** 61.5 x 42mm (2-7/16 x 1-11/16 in.) • **Weight:** 295 grams (10.4 ozs.)

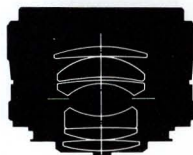


## YASHICA LENS ML f/1.7 50mm

Price

A light, compact standard lens with superb sharpness. Useful for general work as well as for close-up work with the aid of accessories.

- **Lens Composition:** 6 elements in 5 groups
- **Angular Field:** 46° • **Minimum Focus:** 0.5m (1.75 ft.)
- **Aperture Range:** f/1.7 — f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** 52mm screw-in type
- **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A (optional)
- **Lens Cap:** 52mm Clip-on type
- **Size:** 61.5 x 40mm (2-7/16 x 1-5/8 in.)
- **Weight:** 240 grams (8.5 ozs.)

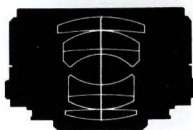


## YASHICA LENS ML f/2 50mm

Price

A new, economical addition to the Yashica lens line. Performance is excellent while the lens is compact and lightweight for easier handling.

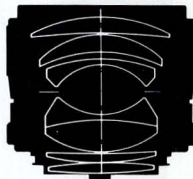
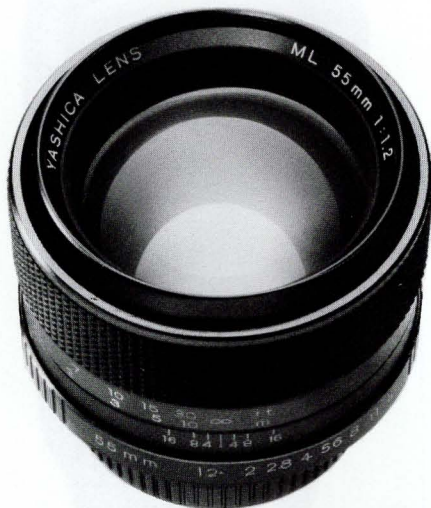
- **Lens Composition:** 6 elements in 4 groups
- **Angular Field:** 46° • **Minimum Focus:** 0.5m (1.75 ft.)
- **Aperture Range:** f/2 — f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** 52mm screw-in type
- **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A (optional)
- **Lens Cap:** 52mm Clip-on type
- **Size:** 61 x 32mm (2-3/8 x 1-1/4 in.)
- **Weight:** 140 grams (4.9 ozs.)





## YASHICA LENS ML f/1.2 55mm

Price

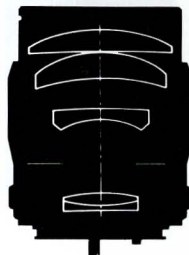


An ultra-fast standard lens for low light conditions. Featured are uniform field illumination and corner-to-corner sharpness at all apertures due to the highly advanced optical design.

- **Lens Composition:** 7 elements in 6 groups
- **Angular Field:** 43° • **Minimum Focus:** 0.5m (1.75 ft.)
- **Aperture Range:** f/1.2 — f/16
- **Diaphragm Action:** Fully automatic
- **Filter:** 55mm screw-in type
- **Lens Shade:** 57mm slip-on type
- **Lens case:** 70A (optional)
- **Lens Cap:** 55mm Clip-on type
- **Size:** 66.5 x 50mm (2-5/8 x 2 in.)
- **Weight:** 410 grams (14.5 ozs.)

## YASHICA LENS ML f/2.8 135mm w/CASE

Price



One of the most widely used of all telephoto lenses. Handles most situations with ease and can be used hand-held without fear of blurring.

- **Lens Composition:** 5 elements in 4 groups
- **Angular Field:** 18°30'
- **Minimum Focus:** 1.5m (5 ft.)
- **Aperture Range:** f/2.8 — f/22
- **Diaphragm Action:** Fully automatic
- **Filter:** 52mm screw-in type
- **Lens Shade:** Built-in type
- **Lens Case:** 70A-2
- **Lens Cap:** 57mm slip-on type
- **Size:** 63 x 75mm (2-1/2 x 3 in.)
- **Weight:** 420 grams (14.8 ozs.)



## YASHICA LENS ML f/4 200mm w/CASE

Price

Producing sharp, crisp images, this telephoto delivers the "reach" required for sports and outdoor shooting. Can be used hand-held with relatively fast shutter speeds.

- **Lens Composition:** 5 elements in 4 groups
- **Angular Field:** 12°30' • **Minimum Focus:** 2.5m (8 ft.)
- **Aperture Range:** f/4 — f/22
- **Diaphragm Action:** Fully automatic • **Filter:** 58mm screw-in type
- **Lens Shade:** Built-in type
- **Lens Case:** 70B-2 • **Lens Cap:** 60mm slip-on type
- **Size:** 64 x 113.5mm (2-1/2 x 4-1/2 in.)
- **Weight:** 535 grams (18.9 ozs.)



## YASHICA LENS ML f/5.6 300mm w/CASE

Price

The most popular super-telephoto lens for most photographers. Provides sharp results with the "reach" to bring faraway subjects in close. Special effects can be produced through compression of space.

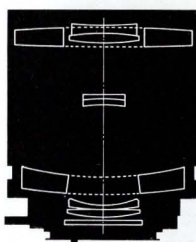
- **Lens Composition:** 6 elements in 3 groups
- **Angular Field:** 8°30' • **Minimum Focus:** 4.5m (15 ft.)
- **Aperture Range:** f/5.6 — f/22
- **Diaphragm Action:** Fully automatic • **Filter:** 58mm screw-in type
- **Lens Shade:** Built-in type
- **Lens Case:** 70C • **Lens Cap:** 60mm slip-on type
- **Size:** 66 x 147.5mm (2-5/8 x 5-13/16 in.)
- **Weight:** 645 grams (22.8 ozs.)





## YASHICA LENS ML Reflex f/8 500mm w/CASE

Price

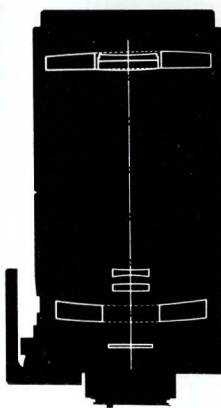


This new version of Yashica's original reflex lens features more compact size and reduced weight, along with multi-coating for improved optical performance. Closer focusing capability provides wider creative potential.

- **Lens Composition:** 8 elements in 6 groups
- **Angular Field:** 5° ● **Minimum Focus:** 2.5m (10 ft.) ● **Aperture Range:** f/8 only ● **Diaphragm Action:** No diaphragm ● **Filter:** Slide-in type; 4-filter set supplied (NORMAL, ND4X, Y52, R60) ● **Lens Shade:** Screw-in type ● **Lens Case:** 90R, Leather ● **Lens Cap:** 82mm slip-on type
- **Size:** 78 x 87.5mm (3-1/16 x 3-7/16 in.)
- **Weight:** 470 grams (1.04 lbs.)

## YASHICA LENS Reflex f/11 1000mm w/CASE

Price



Great for really large magnification of faraway subjects. This super-telephoto lens is relatively light for its performance, so can be carried easily on trips.

- **Lens composition:** 6 elements in 5 groups
- **Angular field:** 2°30' ● **Minimum focus:** 8 m (25 ft.) ● **Filter:** Built-in turret type (1A, Y48, O56 & R60) ● **Lens shade:** Built-in ● **Size:** 118 x 220 mm (4-5/8 x 8-11/16 in.) ● **Weight:** 2,330 grams (5.1 lbs.) ● **Lens case:** 140R ● **Lens cap:** 108mm slip-on type



---

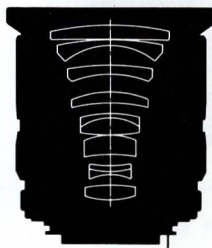
## YASHICA LENS ML Zoom f/3.5 28~50mm w/CASE

---

Price

A highly useful wide angle/standard lens range zoom lens. Uniform correction of aberration assures high resolution and contrast at all focal lengths. Perfect for group shots, scenic photography and many other uses.

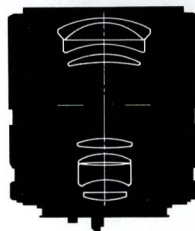
- **Lens Composition:** 10 elements in 8 groups
- **Angular Field:** 74°—48°
- **Minimum Focus:** 1m (3.5 ft.)
- **Aperture Range:** f/3.5 — f/22
- **Diaphragm Action:** Fully automatic
- **Focus & Zoom:** Dual controls
- **Filter:** 72mm screw-in type
- **Lens Shade:** 75mm slip-on type
- **Lens Case:** 80A
- **Lens Cap:** 75mm slip-on type
- **Size:** 75 x 74.5mm (3 x 2-15/16 in.)
- **Weight:** 475 grams (1.05 lbs.)





## YASHICA LENS ML ZOOM f/4 35~70mm w/CASE

Price

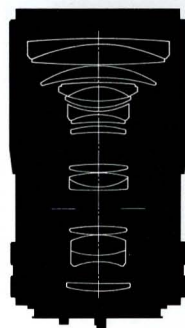


An extremely small and lightweight wide angle to portrait zoom featuring twin control and extreme optical precision. Close focusing capability enhances creative possibilities.

- **Lens Composition:** 7 elements in 7 groups
- **Angular Field:** 64° — 35° • **Minimum Focus:** 0.6m (2 ft.)
- **Aperture Range:** f/4 — f/22
- **Diaphragm Action:** Fully automatic • **Focus & Zoom:** Dual controls
- **Filter:** 55mm screw-in type
- **Lens Case:** 80A, Leather
- **Lens Cap:** 57mm slip-on type
- **Size:** 67 x 71mm (2-5/8 x 2-3/4 in.)
- **Weight:** 390 grams (13.8 ozs.)

## YASHICA LENS ML ZOOM f/3.5~4.5 35~105mm w/CASE

Price



This 3X coverage lens offers creative capabilities ranging from popular wide angle to medium telephoto in a single package designed for excellent optical performance with lightness and compactness. The perfect choice for the fast-moving photographer, with 'one-touch' control and macro-focusing capability.

- **Lens Composition:** 15 elements in 11 groups
- **Angular Field:** 64° — 23°40'
- **Minimum Focus:** 1.5m (5 ft.) Macro mode 0.3m (1:5.7)
- **Aperture Range:** f/3.5 — f/22
- **Diaphragm Action:** Fully automatic
- **Focus & Zoom:** One-touch operation
- **Filter:** 55mm screw-in type
- **Lens Case:** 70A-2, Leather
- **Lens Cap:** 57mm slip-on type
- **Size:** 65 x 84.5mm (2-9/16 x 3-5/16 in.)
- **Weight:** 470 grams (16.6 ozs.)

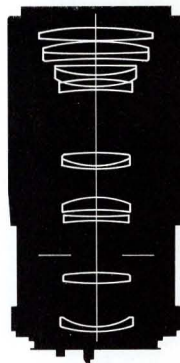


## YASHICA LENS ML ZOOM f/4 75 ~ 150mm w/CASE

Price

An extraordinarily versatile lens covering the range from portrait to telephoto and excellent for a wide variety of applications such as landscape, sports or candid photography. The 'one-touch' control and compact construction make it fast and easy to use, while the light weight means total portability.

- **Lens Composition:** 12 elements in 9 groups
- **Angular Field:** 32° — 16°30'
- **Minimum Focus:** 1.5m (5 ft.)
- **Aperture Range:** f/4 — f/22
- **Diaphragm Action:** Fully automatic
- **Focus & Zoom:** One-touch operation
- **Filter:** 52mm screw-in type
- **Lens Case:** 70B-2, Leather
- **Lens Cap:** 54mm slip-on type
- **Size:** 63.5 x 115.5mm (2-1/2 x 4-1/2 in.)
- **Weight:** 485 grams (17.1 ozs.)

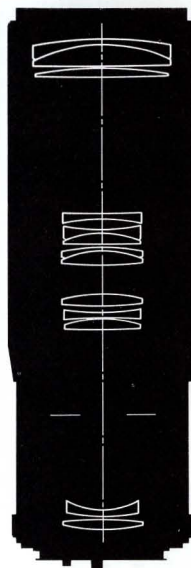


## YASHICA LENS ML ZOOM f/5.6 100 ~ 300mm w/CASE

Price

A compact 'telephoto' zoom that lets the photographer handle all the challenges of precision photography under action conditions, or concentrate on pulling in added detail in long-range subjects. One-touch operation combines with a 3X zoom ratio plus Macro capability for convenience and great performance.

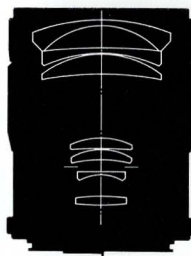
- **Lens Composition:** 13 elements in 10 groups
- **Angular Field:** 24° — 8°30'
- **Minimum Focus:** 1.5m (5 ft.)
- **Macro Capability:** 300mm at 1.5m (1:4)
- **Aperture Range:** f/5.6 — f/32
- **Diaphragm Action:** Fully automatic
- **Focus & Zoom:** One-touch operation
- **Filter:** 58mm screw-in type
- **Lens Case:** 70D, Leather
- **Lens Cap:** 60mm slip-on type
- **Size:** 68.5 x 192.5mm (2-11/16 x 7-9/16 in.)
- **Weight:** 850 grams (30.0 ozs.)





## YASHICA LENS ML Zoom f/3.5~4.5 42~75mm w/CASE

Price

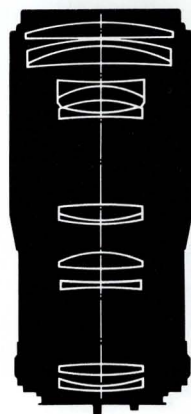


A compact zoom lens that provides a range from just under that of a standard lens to short telephoto. Great for portraits and other close range work. Features one-touch focusing and zooming operation.

- **Lens Composition:** 7 elements in 7 groups
- **Angular Field:** 53° — 33° • **Minimum Focus:** 1.2m (3.9 ft.) • **Aperture Range:** f/3.5 — f/22
- **Diaphragm Action:** Fully automatic • **Focus & Zoom:** One-touch operation • **Filter:** 55mm screw-in type • **Lens Shade:** Contax Metal Hood No. 3 with 55/86 Ring
- **Lens Case:** 70A • **Lens Cap:** 57mm slip-on type • **Size:** 61 x 57mm (2-3/8 x 2-1/4 in.)
- **Weight:** 315 grams (11.1 ozs.)

## YASHICA LENS ML Zoom f/4 80~200mm w/CASE

Price



One of the most used telephoto zooms, this lens is ideal for sports or wildlife photography as well as for portraits. Features a "one-touch" zoom/focus control for fast, efficient operation.

- **Lens Composition:** 12 elements in 9 groups
- **Angular Field:** 30° — 12°20' • **Minimum Focus:** 1.9m (6.3 ft.) • **Aperture Range:** f/4 — f/22
- **Diaphragm Action:** Fully automatic
- **Focus & Zoom:** One-touch operation • **Filter:** 55mm screw-in type • **Lens Shade:** Contax Metal Hood No. 4 with 55/86 Ring or 57mm slip-on type
- **Lens Case:** 70B-2 • **Lens Cap:** 57mm slip-on type • **Size:** 65 x 133mm (2-9/16 x 5-1/4 in.)
- **Weight:** 610 grams (1.3 lbs.)

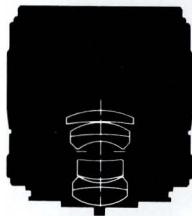


## YASHICA LENS ML Macro f/2.8 55mm w/CASE

Price

This unusually fast macro lens focuses down to 25 cm with ease because of the large aperture. Maximum magnification is 1:2 with the lens alone but 1:1 is possible using the 27 mm extension tube. The lens is deeply inset to eliminate the need for a lens shade.

- **Lens Composition:** 6 elements in 4 groups
- **Angular Field:** 43°
- **Minimum Focus:** 0.25m (10 in.)
- **Aperture Range:** f/2.8 – f/22
- **Diaphragm Action:** Fully automatic
- **Maximum Magnification:** 1:2 (increased to life-size with 27mm Auto Extension Tube No. 3)
- **Filter:** 52mm screw-in type
- **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A
- **Lens Cap:** 52mm clip-on type
- **Size:** 61.5 x 56.5mm (2-7/16 x 2-1/4 in.)
- **Weight:** 305 grams (10.8 ozs.)

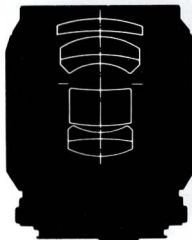


## YASHICA LENS ML Macro f/3.5 100mm w/CASE

Price

With continuous focusing from 44 cm to infinity, this lens can be used for both macrophotography and as a short telephoto. Provides an ample working distance for close-up work. Also useful for portraits.

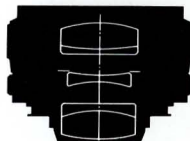
- **Lens Composition:** 6 elements in 4 groups
- **Angular Field:** 24°
- **Minimum Focus:** 0.44m (1.5 ft.)
- **Aperture Range:** f/3.5 – f/22
- **Diaphragm Action:** Fully automatic
- **Maximum Magnification:** 1:2 [increased to life-size with Auto Extension Tubes Nos. 2 (20mm) and 3 (27mm)]
- **Filter:** 55mm screw-in type
- **Lens Shade:** 57mm slip-in type
- **Lens Case:** 70A-2
- **Lens Cap:** 57mm slip-on type
- **Size:** 67 x 77mm (2-5/8 x 3-1/16 in.)
- **Weight:** 430 grams (15.2 ozs.)





## YASHICA LENS ML Bellows f/4 100mm w/CASE

Price



A compact, universal type lens for use with a bellows for extreme close-ups. Can also be focused to infinity for use in normal photography.

- **Lens Composition:** 5 elements in 3 groups
- **Angular Field:** 24° ● **Minimum Focus:** No focusing helicoid (Max. amgnification: M1.4:1) w/Auto Bellows
- **Aperture Range:** f/4 — f/32
- **Diaphragm Action:** Instantaneous stop-down
- **Filter:** 52mm screw-in type ● **Lens Shade:** 54mm slip-on type
- **Lens Case:** 70A ● **Lens Cap:** 52mm clip-on type
- **Size:** 60 x 32mm (2-3/8 x 1-1/4 in.)
- **Weight:** 190 grams (6.7 ozs.)

\* For use with bollows only.



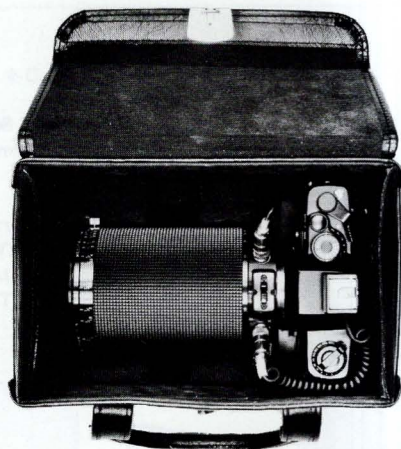
## YASHICA MEDICAL 100 DX MACROPHOTO SYSTEM

Set Price



• Medical 100 Lens  
Price .....

• DC Pack  
Price .....



• Carrying Case  
Price .....

The Yashica Medical 100 DX System, centering around the Medical 100 Lens, is a precision optical system designed to provide perfect photographic reproduction of medical, dental and other scientific subjects. It also produces high-quality precision photographs for industrial design and other areas of close-up work.

Designed as a comprehensive, self-contained system, the Medical 100 features an integral ringflash unit with external power supply; and comes complete with all required equipment, ready for use in a portable carrying case which holds the unit attached to the camera body (with or without winder).

One of the unique features of the system is continuously variable focusing between magnification ratios of 1:15 to 1:1, allowing selection of the exact magnification ratio suited to the subject being photographed. Precise ratio settings are engraved on the lens barrel, which can be locked into place for photography at a predetermined magnification through a convenient setscrew. The 100mm effective focal length of the lens allows ample working distance between the subject and the camera so as to not interfere with continuing medical/scientific work on the subject.

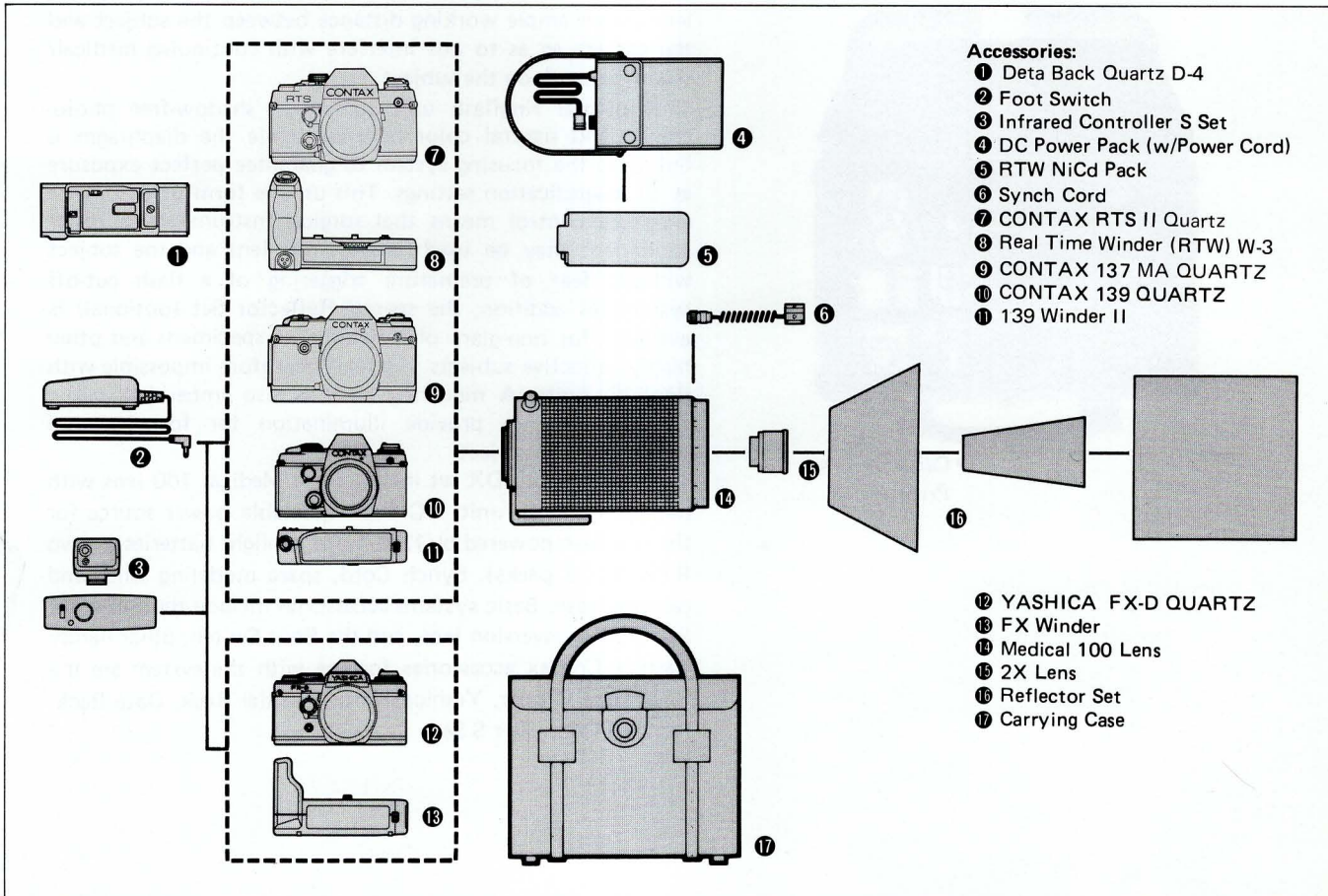
The integral ringflash unit guarantees shadow-free photographs and natural color balance, while the diaphragm is linked to the focusing system to guarantee perfect exposure at all magnification settings. This unique form of automatic exposure control means that surgical instruments or other equipment may be used between the lens and the subject without fear of premature triggering of a flash cut-off system. In addition, the special Reflector Set (optional) is available for non-glare photographs of specimens and other highly reflective subjects — a feat heretofore impossible with ringflash units. A modeling lamp is also embedded in the ringflash unit to provide illumination for focusing and previewing the subject.

The Medical 100 DX set includes the Medical 100 lens with built-in ringflash unit, DC Pack (portable power source for the ringflash powered by 12 AA-size penlight batteries or two RTW Ni-Cd packs), Synch Cord, spare modeling lamp and carrying case. Basic systems accessories include the Reflector Set, a 2X conversion lens, and the Foot Switch; other handy Yashica/Contax accessories for use with the system are the Real Time Winder, Yashica Winder, Initial Back, Data Back, Infrared Controller S Set.



Lens	
• Focal Length:	100 mm
• Lens Composition:	5 elements in 3 groups
• Angular Field:	24°
• Aperture Range:	f/4 ~f/22 (coupled to magnification ratio).
• Distance Scale:	Indicated by magnifications
• Magnification Scale:	1/1-1/1.2-2/3-1/1.8-1/2.5-1/3-1/3.5- 1/4-1/5-1/6-1/8-1/10-1/12-1/15
• Picture-Taking Area:	24 x 36mm ~360 x 540 mm (down to 12 x 18 mm with 2X Lens)
• Working Distance:	14.7 ~150 cm (from lens front)
• Filter Size:	35.5 mm screw-in type
• Hood Attachment Size:	90 mm
• Dimensions & Weight:	94.5mmφ x 155.5 mm (3-3/4 x 6-1/8 in.), 1000 grams (2.2 lbs.)

Flash:	
• Light Source:	Ring-shaped xenon discharge tube with Fresnel lens cover
• Maximum output:	Approx. 23W, equivalent to Guide Number 6.5 (ASA 100/meters)
• Flash Duration:	1/1500 sec
• Recycling Time:	Approx. 1.5 sec with NiCd batteries, 2.5 sec with alkali-manganese batteries or AC current, 3 sec with manganese batteries (for ASA 100 film; higher film speed for shorter recycling time)
• Power Sources:	DC Power Pack (9v); powered by 6 alkaline, manganese or 2 RTW NiCd Packs
• Number of Flashes:	Approx. 550 (alkali-manganese batteries) Approx. 250 (manganese batteries) Approx. 120 (NiCd batteries)
• Film Speed Range:	ASA 25-400 with 1/3 intermediate steps
• Modeling Lamp:	6V 3W, interchangeable





## Medical 100 DX Macrophoto System

### 2X LENS

Price



A conversion lens which mounts to the rim of the Medical 100 Lens to double the magnification ratio of the master lens.

- Size: 37 x 31mm (1-7/16 x 1-1/4 in.)
- Weight: 31g (1.1 ozs)

### FOOT SWITCH

Price



The Foot Switch is used for convenient switching on and off of the ringflash of the Medical 100 Lens when both hands are busy with other operations. It saves valuable time and eliminates fumbling during complicated medical/scientific work.

- Size: 80 x 82 x 30mm (3-1/8 x 3-1/4 x 1-3/16 in.)
- Weight: 220g (7.7 ozs)



---

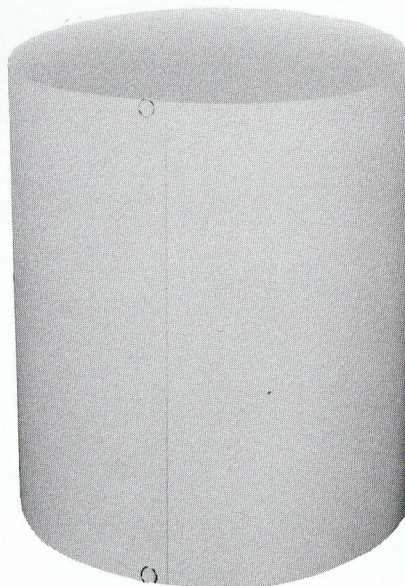
## REFLECTOR SET

---

Price

A special Reflector Set, developed exclusively for use with the Medical 100, which totally eliminates glare and mirror-images from highly reflective subjects. Provides perfect illumination of any subject while preventing crucial areas from reflecting the brightness of the ringflash. The set consists of two chrome-coated cone reflectors which attach to the Medical 100 Lens, and a third disposable reflector which folds in a circle around the subject to disperse light; 4-extra disposable reflectors are included along with an adapter ring for mounting the larger cone reflector when the lens barrel is extended.

The Reflector Set is of particular value for photographing medical and dental specimens which often produce troublesome reflections when photographed by ordinary flash photo methods.





**YASHICA**

# **Carl Zeiss Interchangeable Lenses**





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

\* Specifications and exterior design subject to change without prior notice.

Lens:	Elements-Groups	Angular Field	Minimum Focus	Aperture Range	Lens Pouch	Diameter x Length	Weight
F-Distagon T* f/2.8 16 mm ( Fisheye )	8 - 7	180°	0.3 m (1 ft)	f/2.8 - f/22	No. 2	70.0 x 61.5 mm	460 g
Distagon T* f/3.5 15 mm	13 - 12 (F)	110°	0.16 m (6")	f/3.5 - f/22	No. 4	83.5 x 94.0 mm	815 g
Distagon T* f/4 18 mm	10 - 9 (F)	100°	0.3 m (1 ft)	f/4 - f/22	No. 2	70.0 x 51.5 mm	350 g
Distagon T* f/2.8 25 mm	8 - 7	80°	0.25 m (10")	f/2.8 - f/22	No. 1	62.5 x 56.0 mm	360 g
Distagon T* f/2 28 mm	9 - 8 (F)	74°	0.24 m (10")	f/2 - f/22	No. 3	62.5 x 76.0 mm	530 g
Distagon T* f/2.8 28 mm	7 - 7	74°	0.25 m (10")	f/2.8 - f/22	No. 1	62.5 x 50.0 mm	280 g
Distagon T* f/1.4 35 mm	9 - 8 (A)(F)	62° 30'	0.3 m (1 ft)	f/1.4 - f/16	No. 2	70.0 x 76.0 mm	600 g
Distagon T* f/2.8 35 mm	6 - 6	62°	0.4 m (1.5 ft)	f/2.8 - f/22	No. 1	62.5 x 46.0 mm	245 g
Tessar T* f/2.8 45 mm	4 - 3	50°	0.6 m (2.1 ft)	f/2.8 - f/22	No. 7	60.0 x 18.0 mm	90 g
Planar T* f/1.4 50 mm	7 - 6	45°	0.45 m (1.5 ft)	f/1.4 - f/16	No. 1	62.5 x 41.0 mm	275 g
Planar T* f/1.7 50 mm	7 - 6	45°	0.6 m (2 ft)	f/1.7 - f/16	No. 1	61.0 x 36.5 mm	190 g
Planar T* f/1.4 85 mm	6 - 5	28° 30'	1.0 m (3.5 ft)	f/1.4 - f/16	No. 2	70.0 x 64.0 mm	595 g
Sonnar T* f/2.8 85 mm	5 - 4	27° 30'	1.0 m (3.5 ft)	f/2.8 - f/22	No. 1	62.5 x 46.5 mm	230 g
Planar T* f/2 100 mm	6 - 5	24° 30'	1.0 m (3.5 ft)	f/2 - f/22	No. 2	70.0 x 84.0 mm	670 g
Sonnar T* f/3.5 100 mm	5 - 4	24°	1.0 m (3.5 ft)	f/3.5 - f/22	No. 1	61.0 x 61.0 mm	285 g
Planar T* f/2 135 mm	5 - 5	18° 30'	1.5 m (5 ft)	f/2 - f/22	No. 5	75.0 x 101 mm	830 g
Sonnar T* f/2.8 135 mm	5 - 4	18° 30'	1.6 m (5.5 ft)	f/2.8 - f/22	No. 3	68.5 x 93.0 mm	585 g
Sonnar T* f/2.8 180 mm	6 - 5 (F)	14°	1.4 m (5 ft)	f/2.8 - f/22	No. 5	78.0 x 131 mm	815 g
Tele-Tessar T* f/3.5 200 mm	6 - 5	12° 40'	1.8 m (6 ft)	f/3.5 - f/22	No. 5	77.5 x 121.5 mm	750 g
Tele-Tessar T* f/4 200 mm	6 - 5	12° 40'	1.5 m (5 ft)	f/4 - f/32	No. 5	66.5 x 122 mm	550 g
Tele-Tessar T* f/4 300 mm	5 - 5	8° 15'	3.5 m (11.5 ft)	f/4 - f/32	No. 6	88.0 x 205 mm	1.2 kg
Vario-Sonnar T* f/3.5 40~80 mm	13 - 9	55° ~ 31°	1.2 m (4 ft)	f/3.5 - f/22	No. 3	67.0 x 87.0 mm	605 g
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 - f/22	No. 6	77.0 x 186 mm	1.145 kg
S-Planar T* f/2.8 60 mm ( Macro )	6 - 4	39°	M1:1 (0.24 m)	f/2.8 - f/22	No. 2	75.5 x 74.0 mm	570 g
S-Planar T* f/4 100 mm ( Bellows )	6 - 4	24° 30' / 33°	(M1.4:1)	f/4 - f/32	No. 1	62.5 x 48.5 mm	285 g
PC-Distagon T* f/2.8 35 mm ( Shift )	9 - 9 (F)	63° / 83°	0.3 m (1 ft)	f/2.8 - f/22 (M)	No. 1	70.0 x 85.5 mm	725 g
Mirotar f/4.5 500 mm	5 - 5	5°	3.5 m (11.5 ft)	-	-	151 x 225 mm	4.5 kg
Mirotar f/5.6 1000 mm	5 - 5	2° 30' (4° 30')	12.0 m (about ca. 39.5 ft)	-	-	250 x 470 mm	16.5 kg

(F) With Aberration Correction at close range

(A) Aspherical Lens Element

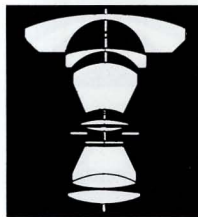
(M) Manual aperture setting

YASHICA



## F-Distagon T\* f/2.8 16mm w/CASE

Price

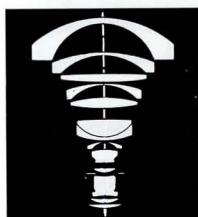


An ultra-wideangle lens of the so-called fisheye type. Features excellent image quality and remarkable field illumination at full aperture. Unusually fast for this type.

- **Lens Composition:** 8 elements, 7 groups.
- **Angular Field:** 180° • **Minimum Focus:** 0.3 m (1 ft.).
- **Aperture Range:** f/2.8 — f/22.
- **Diaphragm Action:** fully automatic.
- **Filter:** built-in turret type (UV, Or57, Y50, B11).
- **Lens Shade:** built-in
- **Lens Case:** No. 2, Leather.
- **Lens Cap:** 70 mm slip-on type.
- **Size:** 70 x 61.5 mm (2-3/4 x 2-7/16 in.)
- **Weight:** 460 grams (1 lbs.)

## Distagon T\* f/3.5 15mm w/CASE

Price



A sensational ultra-wideangle lens that is highly effective for accentuating perspective for strong spatial impressions. Marginal illumination is unbelievably good when slightly stopped down.

- **Lens Composition:** 13 elements, 12 groups. Correction of aberration at close range with "floating element"
- **Angular Field:** 110°
- **Minimum Focus:** 0.16 m (6 in.)
- **Aperture Range:** f/3.5 — f/22
- **Diaphragm Action:** fully automatic
- **Filter:** built-in turret type (UV, Or57, Y50, B11).
- **Lens Shade:** built-in
- **Lens Case:** No. 4 Leather
- **Lens Cap:** 83.5 mm slip-on type
- **Size:** 83.5 x 94 mm (3-5/16 x 3-11/16 in.)
- **Weight:** 815 grams (1.8 lbs.)



## Distagon T\* f/4 18mm w/CASE

Price

Well proven design with excellent imaging performance, exceptional correction of distortion and extremely compact. Performance is superb for close range photography.

• **Lens Composition:** 10 elements, 9 groups  
 Correction of aberration at close range with "floating element" • **Angular Field:** 100° • **Minimum Focus:** 0.3 m (1 ft.) • **Aperture Range:** f/4 – f/22 • **Diaphragm Action:** fully automatic  
 • **Filter:** 86 mm with 70/86 mm ring • **Lens Shade:** used with 70/86 mm ring • **Lens Case:** No. 2, Leather • **Lens Cap:** 70 mm slip-on type  
 • **Size:** 70 x 51.5 mm (2-3/4 x 2 in.) • **Weight:** 350 grams (12.3 ozs.)



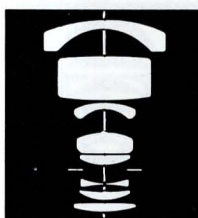
## Distagon T\* f/2.8 25mm w/CASE

Price

Image quality is excellent over entire format, even at full aperture. Excellent for architectural and landscape photography where wide angular field with true rendition is required.

• **Lens Composition:** 8 elements, 7 groups  
 • **Angular Field:** 80° • **Minimum Focus:** 0.25 m (10 in.) • **Aperture Range:** f/2.8 – f/22 • **Diaphragm Action:** fully automatic • **Filter:** 55 mm screw-in type • **Lens Shade:** 55 mm G-12 soft lens shade, screw-in types • **Lens Case:** No. 1, Leather • **Lens Cap:** 59 mm clip-on type • **Size:** 62.5 x 56 mm (2-7/16 x 2-3/16 in.) • **Weight:** 360 grams (12.7 ozs.)

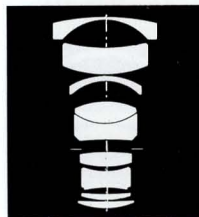
\* Rubber Hood should be used without filter.





## Distagon T\* f/2 28mm w/CASE

Price



Amazingly uniform image quality right up to the corners even with the large maximum aperture. An intermediate wideangle lens useful for many applications where a wide angular field is required.

- **Lens Composition:** 9 elements 8 groups. Correction of aberration at close range with "floating element"
- **Angular Field:** 74°
- **Minimum Focus:** 0.24 m (10 in.)
- **Aperture Range:** f/2 – f/22
- **Diaphragm Action:** fully automatic
- **Filter:** 55 mm screw-in type
- **Lens Shades:** 55 mm G-12 Soft lens shade screw-in type; No. 1 Metal Hood (55/86 mm ring.), screw-in type
- **Lens Case:** No. 3 Leather
- **Lens Cap:** 59 mm clip-on type
- **Size:** 62.5 x 76 mm (2-7/16 x 3 in.)
- **Weight:** 530 grams (1.17 lbs.)

## Distagon T\* f/2.8 28mm w/CASE

Price



Designed for those who demand the highest image quality without the need for extra speed. Imaging performance and image field illumination are remarkable, even at full aperture.

- **Lens Composition:** 7 elements, 7 groups
- **Angular Field:** 74°
- **Minimum Focus:** 0.25 m (10 in.)
- **Aperture Range:** f/2.8 – f/22
- **Diaphragm Action:** fully automatic
- **Filter:** 55 mm screw-in type
- **Lens Shades:** 55 mm G-12 soft lens shade screw-in type; No. 1 Metal Hood (55/86 mm ring.), screw-in type
- **Lens Case:** No. 1 Leather
- **Lens Cap:** 59 mm clip-on type
- **Size:** 62.5 x 50 mm (2-7/16 x 1-15/16 in.)
- **Weight:** 280 grams (9.9 ozs.)

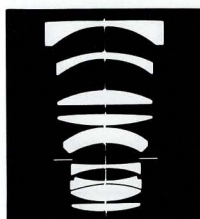


## Distagon T\* f/1.4 35mm w/CASE

Price

Image quality is surprisingly high in spite of the 4X greater speed than an f/2.8 lens. Distortion is highly corrected. The wide field of view and great depth-of-focus make this lens useful for many applications.

- **Lens Composition:** 9 elements, 8 groups (1 aspheric surface.) Correction of aberration at close range with "floating element"
- **Angular Field:** 62°30'
- **Minimum Focus:** 0.3 m (12 in.)
- **Aperture Range:** f/1.4 — f/16
- **Diaphragm Action:** fully automatic
- **Filter:** 67 mm screw-in type
- **Lens Shades:** 67 mm G-14 Soft lens shade, screw-in type; No. 2 Metal Hood (67/86 mm), screw-in type
- **Lens Case:** No. 2 Leather
- **Lens Cap:** 70 mm clip-on type
- **Size:** 70 x 76 mm (2-3/4 x 3 in.)
- **Weight:** 600 grams (1.32 lbs.)

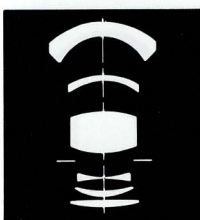


## Distagon T\* f/2.8 35mm w/CASE

Price

Designed for those who stress extraordinary image quality in a moderate wideangle rather than high speed. Image field illumination is also excellent, even at full aperture.

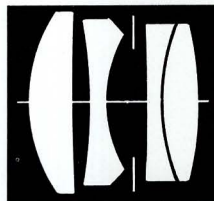
- **Lens Composition:** 6 elements, 6 groups
- **Angular Field:** 62°
- **Minimum Focus:** 0.4 m (1.5 ft.)
- **Aperture Range:** f/2.8 — f/22
- **Diaphragm Action:** fully automatic
- **Filter:** 55 mm screw-in type
- **Lens Shades:** 55 mm G-11 Soft lens shade, screw-in type; No. 3 Metal Hood (55/86 mm ring), screw-in type
- **Lens Case:** No. 1 Leather
- **Lens Cap:** 59 mm, clip-on type
- **Size:** 62.5 x 46 mm (2-7/16 x 1-13/16 in.)
- **Weight:** 245 grams (8.6 ozs.)





## Tessar T\* f/2.8 45mm w/CASE

Price



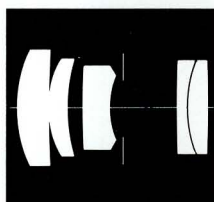
Exceptional sharpness in the classic Tessar 4-element design for extremely small size and light weight. Slightly wider than 'standard' lenses for versatile application in all types of photography.

- **Lens Composition:** 4 elements, 3 groups.
- **Angular Field:** 50° • **Minimum Focus:** 0.6 m (2.1ft) • **Aperture Range:** f/2.8 — f/22 • **Diaphragm Action:** fully automatic • **Filter Size:** 49mm screw-in type • **49/55 Ring** for use with 55mm filters and softars. • **Lens Shade:** 55mm G-11 soft lens shade screw-in type (with 49/55 ring) • **Size:** 60 x 18mm (2-3/8 x 11/16 in.)
- **Weight:** 90 grams (3.2 ozs.) • **Lens case:** No. 7, Leather • **Lens cap:** 49mm, clip-on type

\* Rubber Hood should be used without filter.

## Sonnar T\* f/3.5 100mm w/CASE

Price



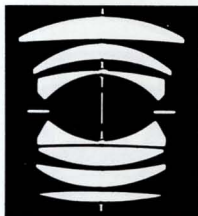
Exceptional reproduction at all apertures and extremely even edge-to-edge illumination make this lens outstanding for medium telephoto or portrait applications. Excellent separation of main subject and background.

- **Lens composition:** 5 elements, 4 groups
- **Angular Field:** 24° • **Minimum focus:** 1m (3.5ft) • **Aperture range:** f/3.5—f/22 • **Diaphragm action:** fully automatic • **Filter Size:** 55mm screw-in type • **Lens Shades:** 55mm screw-in type • **Size:** 61 x 61mm (2-3/8 x 2-3/8 in.) • **Weight:** 285 grams (10.1 ozs.)
- **Lens case:** No. 1, Leather • **Lens cap:** 55mm, clip-on type.



## Planar T\* f/1.4 50mm

Price

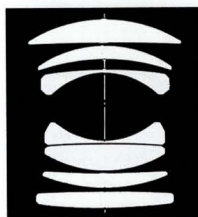


A fast, high-performance standard lens incorporating the latest achievements in optical glass and correction of image errors. Valuable both for fast action and low light levels.

- **Lens Composition:** 7 elements 6 groups
- **Angular Field:** 45° • **Minimum Focus:** 0.45 m (1.5 ft.) • **Aperture Range:** f/1.4 — f/16 • **Diaphragm Action:** fully automatic • **Filter:** 55 mm screw-in type • **Lens Shades:** 55 mm G-11 Soft lens shade, screw-in type; No. 4 Metal Hood (55/86 mm ring), screw-in type • **Lens Case:** No. 1 Leather, optional • **Lens Cap:** 59 mm, clip-on type • **Size:** 62.5 x 41 mm (2-7/16 x 1-5/8 in.) • **Weight:** 275 grams (9.7 ozs.)

## Planar T\* f/1.7 50mm

Price



The newest standard lens in the line-up, featuring the same optical performance as the f/1.4 50 mm lens in a more compact package. Outstanding cost performance.

- **Lens Composition:** 7 elements, 6 groups
- **Angular Field:** 45° • **Minimum Focus:** 0.6 m (2 ft.) • **Aperture Range:** f/1.7 — f/16 • **Diaphragm Action:** fully automatic • **Filter:** 55 mm screw-in type • **Lens Shades:** 55 mm G-11 Soft lens shade, screw-in type; No. 4 Metal Hood (55/86 mm ring), screw-in type • **Lens Case:** No. 1 Leather, optional • **Lens Cap:** 59 mm, clip-on type • **Size:** 61 x 36.5 mm (2-3/8 x 1-7/16 in.) • **Weight:** 190 grams (6.7 ozs.)

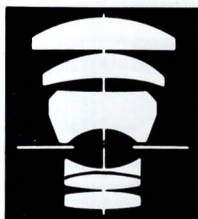


## Planar T\* f/1.4 85mm w/CASE

Price

One of the fastest 85 mm lens available for 35 mm SLR cameras. Image performance is excellent even at full aperture. Excellent for both outdoor and indoor photography where light levels may be low.

- **Lens Composition:** 6 elements, 5 groups
- **Angular Field:** 28°30' • **Minimum Focus:** 1 m (3.5 ft)
- **Aperture Range:** f/1.4 — f/16
- **Diaphragm Action:** fully automatic • **Filter:** 67 mm screw-in type
- **Lens Shades:** 67 mm G-13 Soft lens shade, screw-in type; No. 4 Metal Hood (67/86 mm ring.), screw-in type
- **Lens Case:** No. 2 Leather
- **Lens Cap:** 70 mm, clip-on type
- **Size:** 70 x 64 mm (2-3/4 x 2-1/2 in.)
- **Weight:** 595 grams (1.3 lbs.)

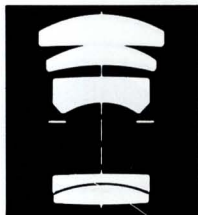


## Sonnar T\* f/2.8 85mm w/CASE

Price

A natural choice for those who want outstanding optical performance in a compact design, but are willing to forego a large maximum aperture. Useful for a wide range of applications where a slightly long focus lens is demanded.

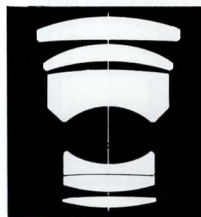
- **Lens Composition:** 5 elements, 4 groups
- **Angular Field:** 27°30' • **Minimum Focus:** 1 m (3.5 ft.)
- **Aperture Range:** f/2.8 — f/22
- **Diaphragm Action:** fully automatic • **Filter:** 55 mm screw-in type
- **Lens Shades:** 55 mm G-11 Soft lens shade, screw-in type; No. 5 Metal Hood (55/86 mm ring), screw-in type
- **Lens Case:** No. 1, Leather
- **Lens Cap:** 59 mm, clip-on type
- **Size:** 62.5 x 47 mm (2-7/16 x 1-7/8 in.)
- **Weight:** 255 grams (9 ozs.)





## Planar T\* f/2 100mm w/CASE

Price

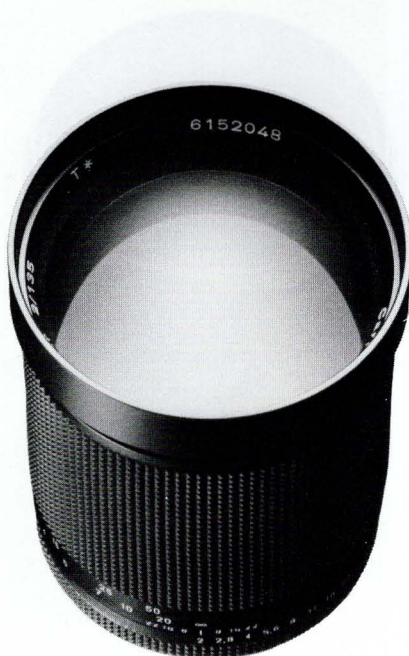


An extremely fast, high-performance lens, and one of the newest of the Carl Zeiss T\* lenses. Excellent for portraits, landscapes and architecture. Selective focus effects possible due to small depth-of-field at full aperture

- **Lens Composition:** 6 elements, 5 groups
- **Angular Field:** 24°30' • **Minimum Focus:** 1 m (3.5 ft.)
- **Aperture Range:** f/2 — f/22
- **Diaphragm Action:** fully automatic
- **Filter:** 67 mm screw-in type
- **Lens Shades:** 67 mm G-13 Soft lens shade, screw-in type; No. 4 Metal Hood (67/86 mm ring), screw-in type
- **Lens Case:** No. 2 Leather
- **Lens Cap:** 70 mm, clip-on type
- **Size:** 70 x 84 mm (2-3/4 x 3-5/16 in.)
- **Weight:** 670 grams (1.48 lbs.)

## Planar T\* f/2 135mm w/CASE

Price



Surprisingly small for its type, this lens has outstanding image quality and image field illumination at all apertures. An ideal medium focal length lens.

- **Lens Composition:** 5 elements, 5 groups
- **Angular Field:** 18°30' • **Minimum Focus:** 1.5 m (5 ft.)
- **Aperture Range:** f/2 — f/22
- **Diaphragm Action:** fully automatic
- **Filter:** 72 mm screw-in type
- **Lens Shade:** No. 4 Metal Hood (72/86 mm ring), screw-in type
- **Lens Case:** No. 5 Leather
- **Lens Cap:** 75 mm, slip-on type
- **Size:** 75 x 101 mm (2-15/16 x 4 in.)
- **Weight:** 830 grams (1.83 lbs.)

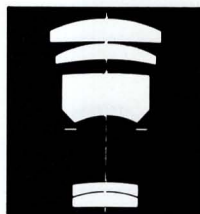


## Sonnar T\* f/2.8 135mm w/CASE

Price

Outstanding for landscape photography, flora and fauna studies, portraits and others where a telephoto effect is desired without the undesirable flattening of perspective prevalent with longer focal lengths.

- **Lens Composition:** 5 elements, 4 groups
- **Angular Field:** 18°30' ● **Minimum Focus:** 1.6 m (5.5 ft.) ● **Aperture Range:** f/2.8 — f/22
- **Diaphragm Action:** fully automatic ● **Filter:** 55 mm screw-in type ● **Lens Shade:** slide type metal hood built-in ● **Lens Case:** No. 3, Leather
- **Lens Cap:** 59 mm clip-on type ● **Size:** 68.5 x 93 mm (2-11/16 x 3-11/16 in.) ● **Weight:** 585 grams (1.29 lbs.)

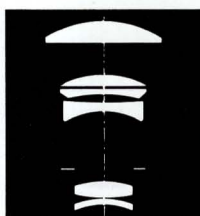


## Sonnar T\* f/2.8 180mm w/CASE

Price

The famous "Olympia Sonnar", updated with modern computer design techniques. Combines a telephoto focal length with a large maximum aperture for convenience in fast sports action and other similar fields.

- **Lens Composition:** 6 elements, 5 groups. Correction of aberration at close range with "floating element" ● **Angular Field:** 14° ● **Minimum Focus:** 1.4 m (5.0 ft.) ● **Aperture Range:** f/2.8 — f/22 ● **Diaphragm Action:** fully automatic ● **Filter:** 72 mm screw-in type ● **Lens Shade:** slide type metal hood built-in ● **Lens Case:** No. 5, Leather ● **Lens Cap:** 75 mm, slip-on type ● **Size:** 78 x 131 mm (3-1/16 x 5-3/16 in.)
- **Weight:** 815 grams (1.8 lbs.)





## Tele-Tessar T\* f/3.5 200mm w/CASE

Price

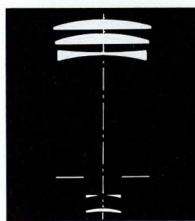


An ideal choice for long-range work in sports and press photography as well as for landscapes. The bright image makes focusing easier even with fresnel lens ground glass. Very compact.

- **Lens Composition:** 6 elements, 5 groups
- **Angular Field:** 12°40' • **Minimum Focus:** 1.8 m (6 ft.)
- **Aperture Range:** f/3.5 – f/22
- **Diaphragm Action:** fully automatic • **Filter:** 67 mm screw-in type
- **Lens Shade:** slide type metal hood built-in • **Lens Case:** No. 5 Leather
- **Lens Cap:** 70 mm, clip-on type • **Size:** 77.5 x 121.5 mm (3-1/16 x 4-13/16 in.)
- **Weight:** 750 grams (1.65 lbs.)

## Tele-Tessar T\* f/4 300mm w/CASE

Price



Outstanding correction of all aberrations so performance is clearly superior to that of other lenses in this class. Useful for situations where the subject cannot be approached.

- **Lens Composition:** 5 elements, 5 groups
- **Angular Field:** 8°15' • **Minimum Focus:** 3.5 m (11.5 ft.)
- **Aperture Range:** f/4 – f/32
- **Diaphragm Action:** fully automatic • **Filter:** 82 mm screw-in type
- **Lens Shade:** slide type metal hood built-in • **Lens Case:** No. 6, Leather
- **Lens Cap:** 85 mm, slip-on type • **Size:** 88 x 205 mm (3-7/16 x 8-1/16 in.)
- **Weight:** 1,200 grams (2.65 lbs.)



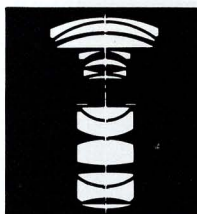
## Vario-Sonnar T\* f/3.5 40~80mm w/CASE

Price

Covers the most frequently used focal length range of 40-80 mm. Image quality is high at all focal lengths, even at full aperture.

Focusing and zooming performed with one easy-to-use ring.

- **Lens Composition:** 13 elements, 9 groups
- **Angular Field:** 55° — 31° ● **Minimum Focus:** 1.2 m (4 ft.)
- **Aperture Range:** f/3.5 — f/22
- **Diaphragm Action:** fully automatic ● **Filter:** 55 mm screw-in type
- **Lens Shades:** 55 mm G-11 Soft lens shade, screw-in type; No. 2 Metal Hood (55/86 mm ring), screw-in type
- **Lens Case:** No. 3, Leather ● **Lens Cap:** 59 mm, clip-on type
- **Size:** 67 x 87 mm (2-5/8 x 3-7/16 in.)
- **Weight:** 605 grams (1.33 lbs.)

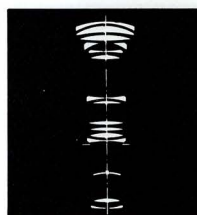


## Vario-Sonnar T\* f/3.5 70~210mm w/CASE

Price

Covers the medium to long telephoto range with a 3X focal length variation range. Images are sharp even with the large maximum aperture. Also has a macro range for close focusing. Sharpness and contrast are outstanding throughout the range.

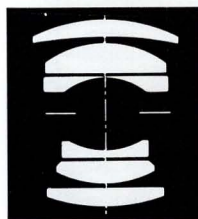
- **Lens Composition:** 15 elements, 12 groups
- **Angular Field:** 33° — 12° ● **Minimum Focus:** 1.8 m (6 ft.) at macro setting
- **Aperture Range:** f/3.5 f/22
- **Diaphragm Action:** fully automatic
- **Filter:** 67 mm screw-in type ● **Lens Shade:** No. 3 Metal Hood (67/86 mm ring), screw-in type
- **Lens Case:** No. 6, Leather ● **Lens Cap:** 70 mm, clip-on type
- **Size:** 77 x 186 mm (3-1/16 x 7-5/16 in.)
- **Weight:** 1.145 grams (2.52 lbs.)





## S-Planar T\* f/2.8 60mm Macro w/CASE

Price

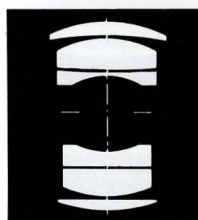


A special lens characterized by optimum correction of aberrations apt to occur in photography at close distances. Can also be used for distant subjects. Provides up to 1:1 magnification ratio without extension tube.

- **Lens Composition:** 6 elements, 4 groups
- **Angular Field:** 39° ● **Minimum Focus:** 0.24 m (10 in.) ● **Aperture Range:** f/2.8 — f/22 ● **Diaphragm Action:** fully automatic ● **Filter:** 67 mm screw-in type ● **Lens Shades:** 67 mm G-13 Soft lens shade, screw-in type; No. 3 Metal Hood (67/86 mm ring), screw-in type ● **Lens Case:** No. 2, Leather ● **Lens Cap:** 70 mm clip-on type
- **Size:** 75.5 x 74 mm (3 x 2-15/16 in.) ● **Weight:** 570 grams (1.26 lbs.)

## S-Planar T\* f/4 100mm Bellows w/CASE

Price



Used with the Contax Auto Extension Bellows PC for extreme close-ups. Features superb correction of all aberrations at close distances. Has no helicoid, focuses using bellows action to infinity.

- **Lens Composition:** 6 elements, 4 groups
- **Angular Field:** 24°30' w/33° image circle
- **Minimum Focus:** 1.4X magnification ratio
- **Aperture Range:** f/4 — f/32 ● **Diaphragm Action:** instantaneous stopdown w/connector cord ● **Filter:** 55 mm screw-in type ● **Lens Shades:** 55 mm G-11 Soft lens shade, screw-in type; No. 5 Metal Hood (55/86 mm ring), screw-in type ● **Lens Case:** No. 1, Leather
- **Lens Cap:** 59 mm clip-on type ● **Size:** 62.5 x 48.5 mm (2-7/16 x 1-15/16 in.) ● **Weight:** 285 grams (10.1 ozs.)

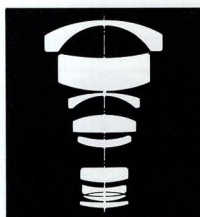


## PC-Distagon T\* f/2.8 35mm w/CASE

Price

This wideangle lens has an extra large image circle of 83 mm in order to permit displacements for control of perspective. Displacement of 10 mm is possible with slight thumb pressure. And the lens rotates 90° in 15° steps for control in all directions.

- **Lens Composition:** 9 elements, 9 groups
- Correction of aberration at close range with "floating elements"
- **Angular Field:** 63° (83° image circle)
- **Minimum Focus:** 0.3 m (1 ft.)
- **Aperture Range:** f/2.8 — f/22
- **Diaphragm Action:** preset
- **Filter:** 86 mm with 70/86 ring
- **Lens Shade:** Use 70/86 ring
- **Lens Case:** No. 2, Leather
- **Lens Cap:** 70 mm slip-on type
- **Size:** 70 x 85.5 mm (2-3/4 x 3-3/8 in.)
- **Weight:** 725 grams (1.6 lbs.)

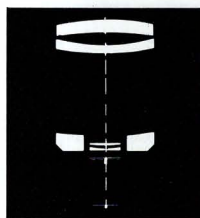


## Mirotar f/4.5 500mm w/CASE

Price

The fastest lens available today in this focal length, the Mirotar f/4.5 500 mm completely eliminates the chromatic aberrations so prevalent in conventional high-speed lenses of this class. Since lenses of this type do not have a built-in diaphragm, exposure values must be adjusted by varying the shutter speed or using neutral density filters.

- **Lens Composition:** 5 elements, 5 groups
- **Angular Field:** 5°
- **Minimum Focus:** 3.5 m (11.5 ft.)
- **Aperture Range:** f/4.5 only
- **Diaphragm Action:** no diaphragm
- **Filter:** slide type (UV, Y, O, 1R) and 3-position turret mount for ND filters to adjust exposure
- **Lens Case:** Special case holds lens and filters
- **Lens Cap:** included
- **Size:** 151 x 225 mm (5-15/16 x 8-7/8 in.)
- **Weight:** 4.5 kg (9.92 lbs.)





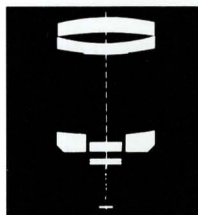
## Mirotar f/5.6 1000mm w/CASE

Price



The world's finest ultra-telephoto lens, the Mirotar f/5.6 1000 mm is also the fastest in its class by far. Precision processing of mirrors and lens elements ensures superb image quality that is uniform over the entire field of view. A must where only the finest work will do.

- **Lens Composition:** 5 elements, 5 groups
- **Angular Field:** 2°30' w/4°30' image circle
- **Minimum Focus:** 12 m (39.4 ft.)
- **Aperture Range:** f/5.6 only
- **Diaphragm Action:** no diaphragm
- **Filter:** slide type (UV, Y, O, 1R) and 3-position turret mount for ND-filters to adjust exposure
- **Lens Case:** Special case holds lens and filters
- **Lens Cap:** included
- **Size:** 250 x 470 mm (9-13/16 x 18-1/2 in.)
- **Weight:** 16.5 kg (36.38 lbs.)



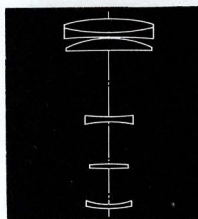


## Tele-Tessar T\* f/4 200mm w/CASE

Price

A true telephoto optical design, for unusual compactness, this lens is extremely well suited to sports, wildlife and landscape applications. Color balancing and full correction of all aberrations provide exceptional reproductive qualities.

● **Lens Composition:** 6 elements, 5 groups  
 ● **Angular Field:** 12°40' ● **Minimum Focus:** 1.5m (5ft.) ● **Aperture Range:** f/4 - f/32 ● **Diaphragm Action:** fully automatic ● **Filter Size:** 55mm screw-in type ● **Lens Hoods:** Built-in ● **Lens case:** No 5 ● **Lens cap:** 55mm ● **Size:** 66.5 x 122mm (2-5/8 x 4-13/16 in.) ● **Weight:** 550 grams (1.2 lbs.)





## N-Mirotar

### A Special Purpose Lens for Near Total Darkness Photography



The N-Mirotar (n=Nacht, night) is a special lens which through advanced technology in image intensification makes night photography possible without the aid of artificial lighting or a tripod.

The instrument comprises a high-speed mirror lens, a 3-stage image intensifier tube, a wide aperture macro-lens and a power supply source.

The mirror lens picks up residual light and throws the image of a night scene onto the photocathode of the image intensifier tube. In this tube, the details of the scene are intensified 80,000 times in 3 steps according to luminance and then projected onto a screen. The macro-lens links the image intensifier to the camera and transfers the image from the screen onto the film.

Compared to a f/1.4 photographic lens, the N-Mirotar magnifies the intensity of illumination at the film plane 2,500 times. This means that exposure time can be reduced 11 exposure steps by using the N-Mirotar.

On a clear moonlit night (illuminance  $10^{-1}$  lux) with ASA-400 film (27 DIN) the exposure time is about 1/500 sec. Using the same type of film on a quarter moonlit ( $10^{-2}$ ) or starlit night ( $10^{-3}$ ), the exposure times are 1/60 sec. and 1/4 sec. respectively.

#### Specifications

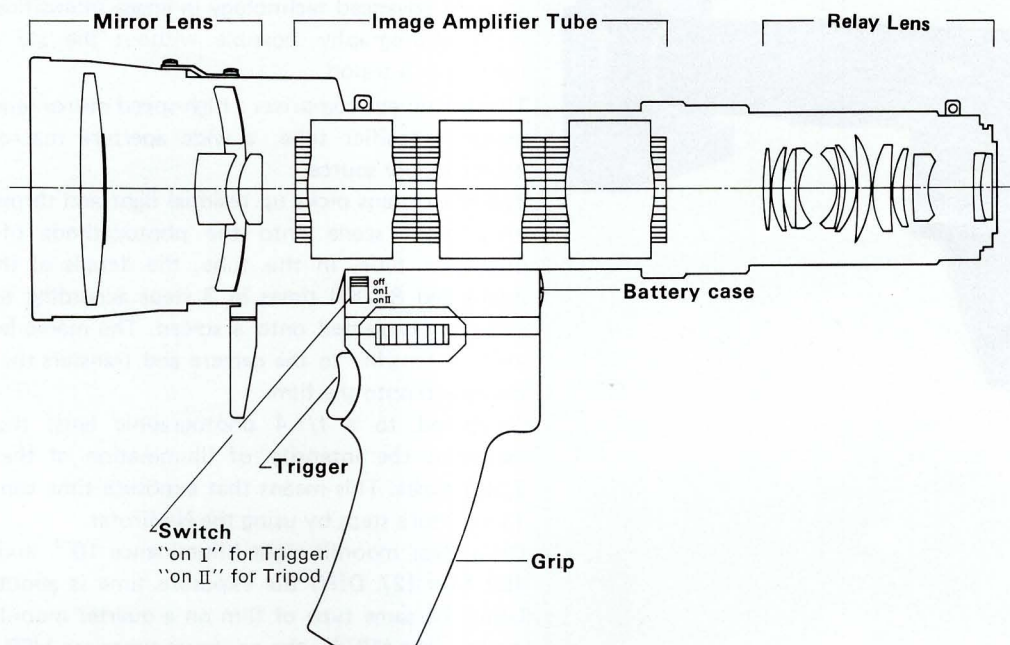
- Equivalent focal length: 210 mm
- Diameter of field: 30 mm
- Angular field:  $8^{\circ}$
- Focusing range:  $\infty$  to ca. 20 m
- Image intensifier: 3-stage
- Relative intensification: 2,500 times greater than a f/1.4 lens (corresponds to 11 exposure steps)
- Effective lens speed: f/0.03
- Power supply: 2 x 1.5 V penlight batteries (in the handle)
- Operating time on one set of batteries: 30 – 40 hours

#### Some useful applications at night or in dark areas are:

- **Police, narcotics control agents, night watchmen** : For night detection of crimes, narcotics traffic, trespassers, burglars etc.
- **Port authorities, coast guards** : Surveying the loading of contraband goods, pilferage of goods, coastal landing of unidentified vessels, smuggling, etc.
- **Game wardens, fauna studies** : Animals at night, poachers in game sanctuaries, etc.
- **News photographers, photo journalists** : Covering unusual events, rituals and ceremonies at night.



## N-MIROTAR



### ● Mirror Lens

A wide-aperture catadioptric system collects nocturnal residual light, producing an image of the night scene through the cathode of the image amplifier tube.

The lens construction is a modified Cassegrain system. It is chromatically corrected in the wide spectral range from 400 nm to 1000 nm. The modulation transmission function of this system is optimized for an image amplifier's transmitted polar frequency range of 0 to 35 Lines/Millimeter (Frequency). Focusing is performed by shifting the lens group arranged in the opening of the collecting mirror in the axial direction.

#### Mirror lens specifications:

Elements:	4
Groups:	4
Mirror surfaces:	2
Aperture:	f/1.5
Focal length:	125 mm
Angle of view:	8°
Focusing range (internal focusing)	∞ to approx. 20 m

### ● Image Amplifier Tube

The image amplifier tube converts partly invisible nocturnal radiation into light by means of an electronic image, boosting the weak signals of the visible spectrum. The conversion of the incoming rays into an electronic image is performed at the photo cathode of the image amplifier tube. The electrons emitted by the cathode are applied to a luminescent screen through an electron-optical reproduction system and converted into light.

Each stage is coupled optically by Fiber-Optics. Fiber-Optics are also attached in front of the input cathode and behind the luminescent screen of the third amplifier stage. They are designed to optically flatten the cathodes and screens, which are heavily curved for electron-optical reasons, for the reproduction stages connected in front of and behind the image amplifier tube.

#### Specifications of the 3-stage image amplifier tube:

Cathode type:	S 25
Maximum spectral sensitivity:	550 — 600 nm
Effective diameter of the cathode:	18 mm
Screen type:	P 20 (ZnCdS: Ag) or equivalent
Maximum emission:	550 nm
Focusing:	electrostatic self-focusing, with image inversion
Fiber-Optics input/output:	plane with numerical aperture 1
Brightness control:	automatic
Light amplification:	approx. 80,000

### ● Relay Lens

The luminescent screen of the image amplifier is magnified (magnification scale  $\beta_s = -1.7$ ) through a 12-element macro lens with a high numerical aperture, and reproduced to the film plane of the camera body. The diameter of the screen image on the film is about 30 mm.

The high reproduction performance of the relay lens ensures a loss-free transcription of the tube's screen image onto the film.

#### Relay lens specifications:

Elements:	12
Groups:	10
Numerical aperture:	0.18
Magnification scale:	1.7

### ● Battery Case

Power supply	AA-batteries 1.5V
	X2

Service life with one set of batteries: 30-40 hours

- Size: 365mm x 90mm (14-3/8 x 3-9/16 in.)
- Weight: 2.17 kg (4.78 lbs.)

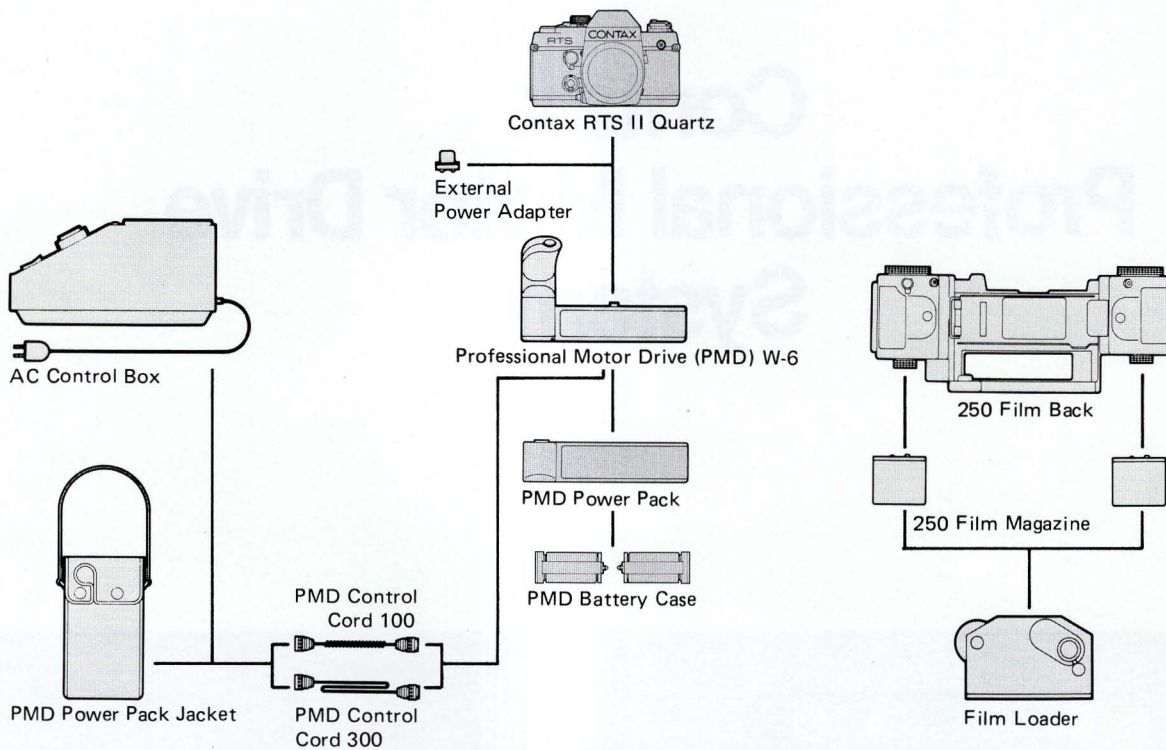


# Contax Professional Motor Drive System

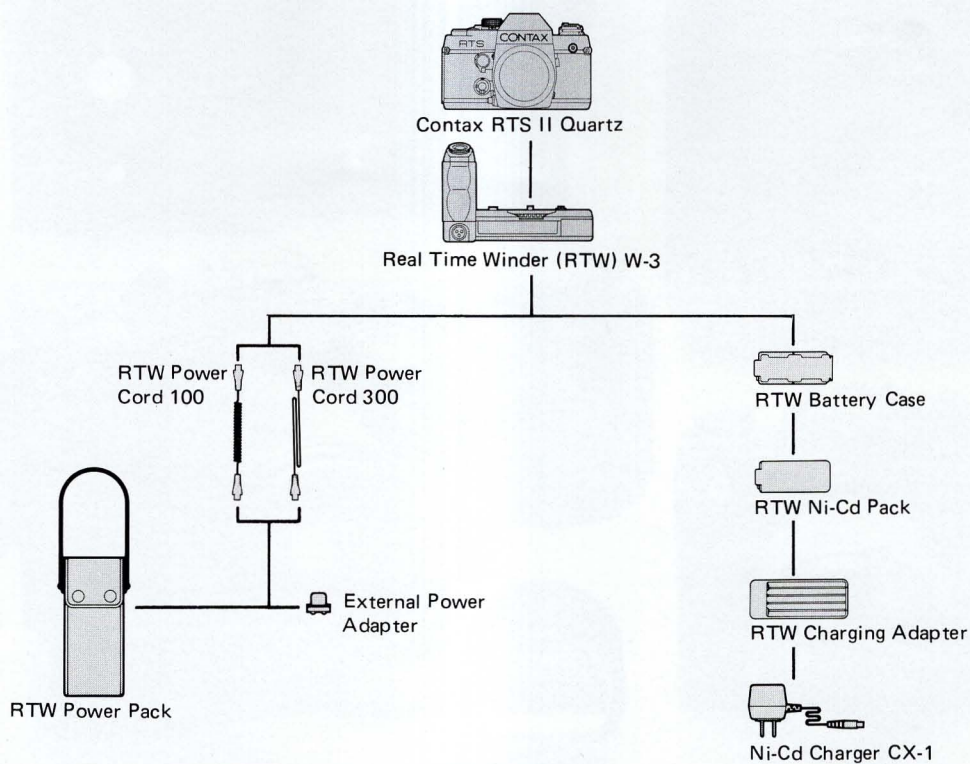




## Professional Motor Drive System



## Real Time Winder System





## 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; single-frame 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<sup>7</sup>/<sub>8</sub> x 3<sup>7</sup>/<sub>8</sub> x 2<sup>9</sup>/<sub>16</sub> 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 PMD POWER PACK W/BATTERY CASES

Price

The standard power source for the PMD unit. The PMD Power Pack features its own built-in shutter release and utilizes two PMD Battery Cases which house 6 AA-size penlight batteries each. It attaches directly to the base of the motor drive or can be hooked up by either PMD Control Cords 100 or 300, for use as a remote power source featuring remote control release via the built-in shutter release. Provided with built-in battery checker and tripod socket.

- **Power Source:** 12 AA-size batteries (18V) installed in two PMD Battery Cases.
- **Battery Checker:** Built-in meter-type battery checker
- **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) (8.8 ozs.)



## CONTAX PMD BATTERY CASES

Price

Set of two battery cases which fit into the PMD Power Pack and house the batteries for powering the Professional Motor Drive (also the camera when used in conjunction with the accessory Power Adapter unit). Each case houses six 1.5V AA-size penlight batteries.

- **Weight:** 13g (w/o batteries) (0.5 ozs.)



## CONTAX PMD POWER PACK JACKET W/PK STRAP

Designed to accommodate the PMD Power Pack, the PMD Power Pack Jacket serves to maintain the batteries in normal operating temperature and prevents decline in performance due to frigid temperatures. Case is genuine leather with thick lining; supplied with shoulder strap.

- **Weight:** 195 g. (w/o strap) (6.9 ozs.)



- PMD Power Pack Jacket Price .....
- PK Strap Price .....



---

## CONTAX PMD CONTROL CORD 100

---

Price



A one-meter coiled cord with dual plugs for connecting the Professional Motor Drive and PMD Power Pack when using the power pack as a remote power source. It also serves to connect the AC Control Box with the Professional Motor Drive. • Weight: 80 g (2.8 ozs.)

---

## CONTAX PMD CONTROL CORD 300

---

Price



A three-meter straight cord with the exact same functions as PMD Control Cord 100. • Weight: 85 g (3 ozs.)

---



## CONTAX AC CONTROL BOX (120V, 220V MODELS)

In addition to functioning as a remote control power source for operating the Professional Motor Drive and Contax RTS camera assembly from AC household current, the AC Control Box serves as a multi-mode interval controller which extends interval shooting with the PMD up to 24 hrs. It features Single, Repeat and Clock modes to offer a wide range of shooting possibilities, and highly versatile application in the various fields of science, industry and social work. The timer unit with LED digital readouts permits interval setting from 1 sec. to 23 hr. 59 min. and 59 sec; it also features an LED digital frame-count display with settings from 0 to 99 (the unit will fire indefinitely when the counter is set to 0). Depending on the mode of operation and the number of frames set on the frame counter, the Control Box will fire either a frame at a time or repeat a given number of frames at intermittent intervals. Starting times are determined by the Control Box's timer unit, while intervals of less than one sec. may be set in combination with the PMD unit's built-in interval dial. In addition, Cable Switches may be used to fire the unit at random in between interval settings; multiple Control Boxes may be used for synchronized and alternately synchronized firing of multiple motor-drive/camera assemblies.

The 120V model is available for the U.S. and Canada and comes with a UL approved cord and cover; the 220V model, which is functionally identical to the 120V model, is available for Europe and comes with a VDE cord and cover.

- **Type:** AC control unit/power supply source for the Contax Professional Motor Drive featuring intervalometer and variable modes
- **Voltage Rating:** 120V model (120V AC, 50/60 Hz, switchable); 220V model (220V AC, 50/60 Hz, switchable)
- **Output:** DC 16V (EXT. OUT for relaying control signals to camera)
- **Input:** EXT. IN and release socket
- **Modes of Operation:** SINGLE, REPEAT and CLOCK
- **Interval Settings:** from 1 sec. to 24 hr. in minimum steps of 1 sec. (less than one sec. possible with PMD unit's built-in intervalometer)
- **Time Display:** via LED digital readout in hr. min. and sec.
- **Frame Setting:** From 1 — 99 frames via frame counter dials (Continuous operation at 00 setting, LED digital readout)
- **Start Button:** Activates signal to the PMD unit to start shooting; pilot lamp lights simultaneously
- **Stop Button:** Halts signal to PMD unit to stop shooting; pilot lamp goes off
- **Power Switch:** Main ON/OFF control for AC current; time display and frame count reset to zero when switch is turned on.
- **Other Features:** Auxiliary shutter release via release socket; PMD socket, AC COrd.
- **Size:** 140 x 210 x 106mm (5-1/2 x 8-1/4 x 4-3/16 in.)
- **Weight:** 2.7 kgs (5.95 lbs.)

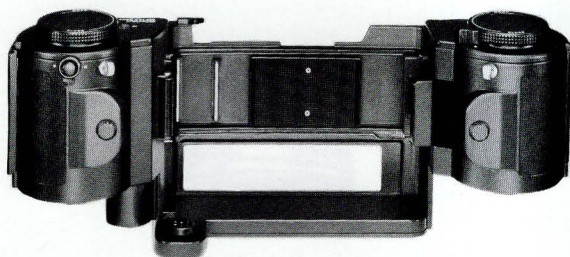


- AC Control Box 120V w/Cover Price .....
- AC Control Box UL Cord Price .....
- AC Control Box 220V w/Cover Price .....
- AC Control Box VDE Cord Price .....



## CONTAX 250 FILM BACK

Price



For shooting up to 250 frames of bulk film when using motor drive or winder units. Interchanges with the standard camera back and incorporates a built-in shutter release button; manually reset subtractive-type frame counter; 1 film magazine set included. • **Size:** 205.5 x 122.5 x 71.5mm (8-1/16 x 4-13/16 x 2-13/16 in.) • **Weight:** 1,120 grams (2.47 lbs.)

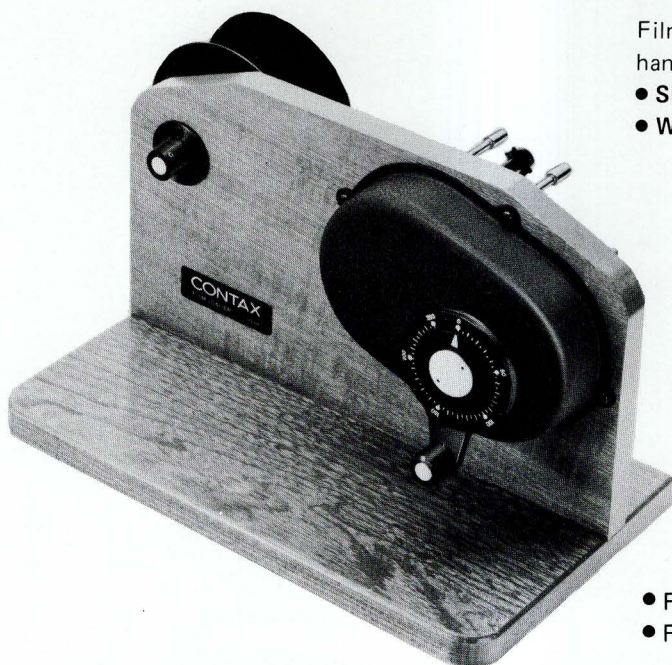
## 250 FILM MAGAZINES (Set of two) w/CASE

Price



Special magazines which fit into the 250 Film Back for film supply and take-up. Sold with leather cases for maximum protection.

## CONTAX FILM LOADER w/SPOOL



Film loading device for 250 Film Magazines. Easy crank-handle operation. Set consists of Film Loader and Spool.

• **Size:** 250 x 154 x 162mm (9-13/16 x 6-1/16 x 6-3/8 in.)  
• **Weight:** 1,030 grams (2.27 lbs.)

• Film Loader	Price .....
• Film Loader Spool	Price .....



---

## CONTAX EXTERNAL POWER ADAPTER

---

Price

Fits into the camera's battery compartment and is used when the Real Time Winder or Professional Motor Drive is in use. With the Real Time Winder, this adapter is used exclusively when operated on the RTW Power Pack (external power source).

It is most effective when used in sub-zero surroundings where the batteries must be warmed to normal operating temperature in the external power pack.

● **Size:** 21 x 15mm (13/16 x 9/16 in.) ● **Weight:** 10 grams (0.35 oz.)





**YASHICA**

# Contax Real Time Winder System





## 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 3<sup>1</sup>/<sub>8</sub> x 2<sup>1</sup>/<sub>2</sub> in)
- **Weight:** 360 grams (w/o batt.) (12.7 oz)





## CONTAX RTW Ni-Cd PACK

Price



This unit serves as a rechargeable power source for Contax Real Time Winder, the Medical 100 Lens and the RTF 540 electronic flash unit. It features a set of six 1.2V AA type nickel-cadmium batteries sealed inside a plastic cartridge. Measures 108 x 45 x 16.6mm.

When recharging, the RTW Charging Adapter and Contax Ni-Cd Battery Charger must be used.

- **Size:** 108 x 45 x 16.5 mm (4-1/4 x 1-3/4 x 5/8 in.)
- **Weight:** 145 grams (5.1 ozs.)

## CONTAX RTW CHARGING ADAPTER

Price



The exclusive RTW Charging Adapter must be used in concert with the Contax Ni-Cd Battery Charger for recharging the RTW Ni-Cd Pack which serves as a power source for the camera accessories mentioned above.

- **Input:** 9V • **Size:** 51 x 134 x 18 mm (2 x 5-1/4 x 11/16 in.)
- **Weight:** 35 grams (1.2 ozs.)

## CONTAX Ni-Cd BATTERY CHARGER



The Ni-Cd Battery Charger connects to the RTW Charging Adapter for recharging the RTW Ni-Cd Pack.

- **Charging Time:** Approx. 10 hours for full charge • **Input:** AC 100V, 120V or 220V (three types available for different line voltages)
- **Output:** DC 8.7V 45 mA

- 100V model **Size:** 37 x 47 x 33 mm (1-7/16 x 1-7/8 x 1-5/16 in.) **Weight:** 105 grams (3.7 ozs.)

Price .....

- 120V model **Size:** 37 x 45 x 35.5 mm (1-7/16 x 1-6/8 x 1-3/8 in.) **Weight:** 125 grams (4.4 ozs.)

Price .....

- 220V model **Size:** 42.5 x 53.5 x 53.5 mm (1-5/8 x 2-1/8 x 2-1/8 in.) **Weight:** 150 grams (5.3 ozs.)

Price .....

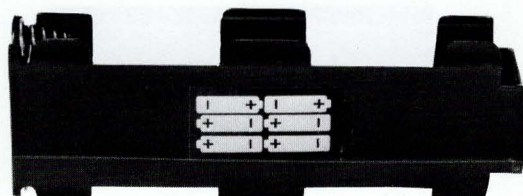


## WINDER BATTERY CASE

Price

An impact-resistant plastic case accommodating six 1.5V AA size batteries. The Winder Battery Case permits one-action battery installation in the Real Time Winder. Polarity diagram provided to enable easy battery installation.

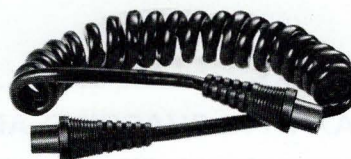
• **Size:** 108 x 44 x 16 mm (4-1/4 x 1-3/4 x 5/8 in.) • **Weight:** 10 grams w/o batteries (0.35 ozs.)



## CONTAX RTW POWER CORD 100

Price

The RTW Power Cord 100 is used for connecting the RTW Power Pack to the Real Time Winder. Featuring 3P terminals, it provides power to the Real Time Winder as well as to the camera in case the camera battery is installed in the RTW Power Pack and the external power adapter is set in the camera's battery compartment. The RTW Power Cord 100 features a one-meter coiled cord.



## CONTAX RTW POWER CORD 300

Price

All features identical with the RTW Power Cord 100, except that it features a three-meter straight cord.



## CONTAX EXTERNAL POWER ADAPTER

Price

Fits into the camera's battery compartment and is used when the Real Time Winder or Professional Motor Drive is in use. With the Real Time Winder, this adapter is used exclusively when operated on the RTW Power Pack (external power source).

It is most effective when used in sub-zero surroundings where the batteries must be warmed to normal operating temperature in the external power pack.

• **Size:** 21 x 15 mm (13/16 x 9/16 in.) • **Weight:** 10 grams (0.35 ozs.)





## CONTAX RTW POWER PACK SET

Price



- Power Adapter Only      Price .....
- Power Pack Jacket      Price .....

Set consists of the RTW Power Pack, RTW Power Pack Jacket, Winder Battery Case, external power adapter and shoulder strap.

• The RTW Power Pack is basically an external power source for the Real Time Winder. It is powered either by six 1.5V AA size batteries (9 volts) which insert into the Winder Battery Case; or by one RTW Ni-Cd Pack (7.2 volts). After installing the batteries, the Power Pack is placed into the Power Pack Jacket (a genuine leather case which also serves to keep the batteries warm). When shooting in especially frigid temperatures, the camera's 6V silver oxide battery also may be kept warm by removing it from the camera and inserting it into the compartment on top of the Power Pack. In this instance, the external power adapter replaces the camera battery in the camera's battery compartment, and the cover of the camera battery compartment screws to the top of Power Pack to serve as a lid for the battery compartment of the Power Pack. The Power Pack also comes complete with sholder strap.

• Winder Battery Case accommodates six 1.5V AA size batteries. A polarity diagram is provided as guide to proper battery installation. • The External Power Adapter is used in place of the camera battery, especially in frigid temperature where the battery performance may be affected. It screws into the camera's battery compartment for powering the camera from the Power Pack's batteries. When this adapter is used, the camera battery must be placed into the compartment of the RTW Power Pack.



- RTW Power Pack
- Size: 52 x 144 x 26 mm (2-1/16 x 5-5/8 x 1 in.) • Weight: 80 grams (2.8 ozs.)
- RTW Power Pack Jacket
- Size: 64 x 150 x 43 mm (2-1/2 x 5-7/8 x 1-11/16 in.) • Weight: 100 grams (3.5 ozs.)

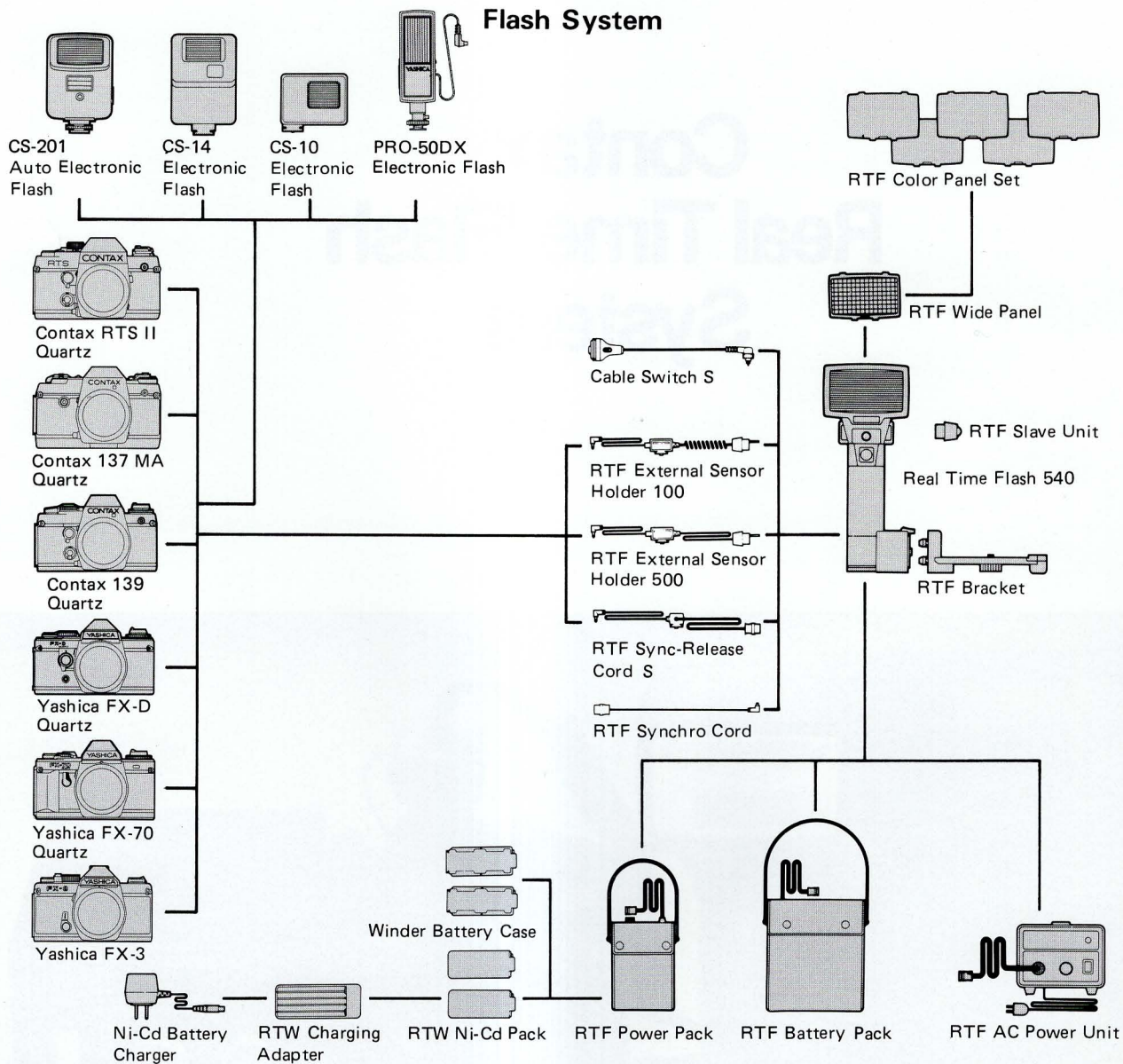


# Contax Real Time Flash System

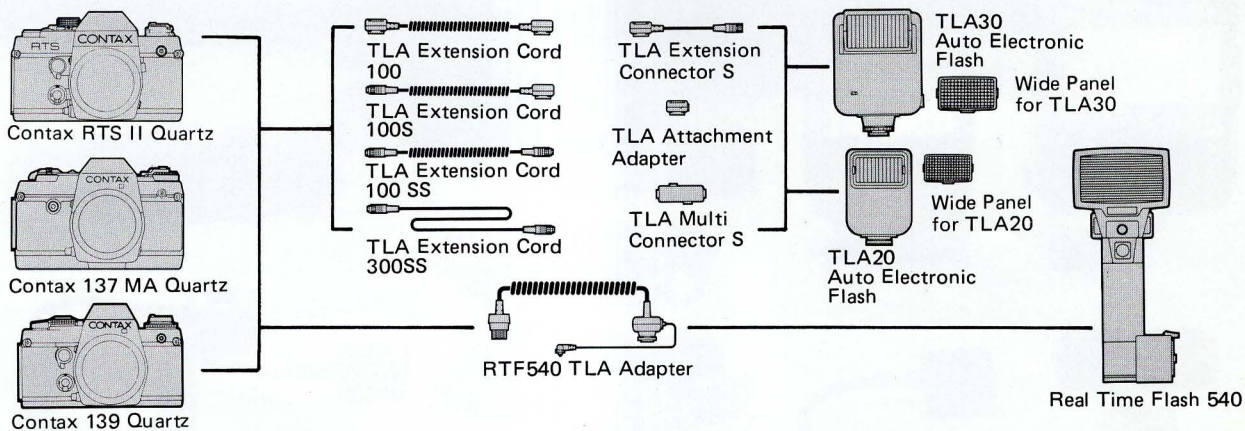




## Flash System



## TLA Auto Flash System



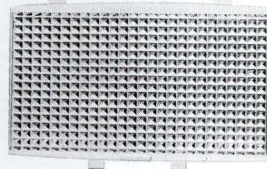


## CONTAX REAL TIME FLASH 540

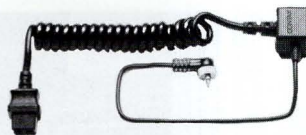
Set Price



RTF 540 Unit



RTF Wide Panel



RTF Sync-Release Cord S



RTF Bracket



The Contax Real Time Flash 540, or RTF540, is a highly sophisticated and unique system electronic flash unit offering unsurpassed versatility in flash photography.

A grip-type unit, it features not only the advanced Contax TLA capability for through-the-lens direct metering of flash and 'Fail-Safe' flash/shutter synchronization, but also energy-saving thyristorized circuitry for standard Auto-Flash use and high-output Manual capacity.

An electromagnetic release button with an electronic interlock is incorporated in the grip section of the unit. Through this feature, the built-in shutter release is interlocked until the flash unit is fully recycled, thus assuring fully exposed flash with each shot.

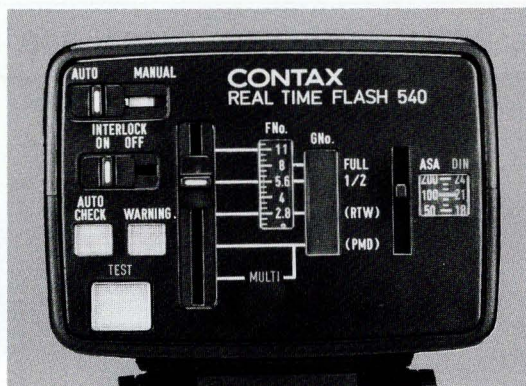
The output selector features a guide number of 40 (ASA 100 in meters) at full output; 28 at 1/2; 14 at the (RTW) setting and 7 at the (PMD) and Multi settings. GN 14 and 7 offer rapid recycling for synchronization to 2 flashes per second with the Real Time Winder and to 5 fps with the Professional Motor Drive, respectively. In addition, the RTF 540 is the only portable flash unit on the market to offer multiple stroboscopic flash — approximately 5 flashes per second for a duration of up to two seconds.

The flash unit also features a multi-directional swivel flash head for both vertical and horizontal bounce flash on Auto with the sensor unit trained on the subject. The sensor itself can be removed from its original socket for use with the optional External Sensor Holder to offer fully automatic off-camera flash control. Standard set comprises the RTF Bracket, RTF Sync-Release Cords and RTF Wide-Panel (for use with ultra wide-angle lenses). In addition, there are three optional power sources to choose from, a set of color panels is available for special effects photography, and an RTF Slave Unit is available for triggering multiple RTF units in perfect synchronization.

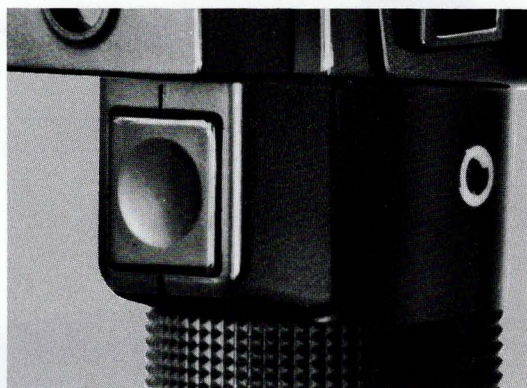
- |                          |             |
|--------------------------|-------------|
| • RTF 540 Unit           | Price ..... |
| • RTF Bracket            | Price ..... |
| • RTF Sync-Release Cords | Price ..... |
| • RTF Wide-Panel         | Price ..... |



• **Type:** Grip-type systems auto flash unit featuring TLA system capability and 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 24mm lens — with the accessory Wide Panel) • **Effective Range on Auto:** 0.5 to 14 meters • **Aperture Settings on Auto:** f/2.8, f/5.6 and f/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 7.2V RTW Ni-Cd Packs; or twelve 1.5V AA size penlight batteries) 2. RTF 510V Battery Pack (housing high-voltage laminated battery) or 3. RTF AC Power Unit (sold in Europe) • **Size:** 98 x 240 x 92mm (head and grip only) (3-7/8 x 9-7/16 x 3-5/8 in.) • **Weight:** 720 grams (1.58 lbs.)



*Neat and Efficient Flash Control Panel*



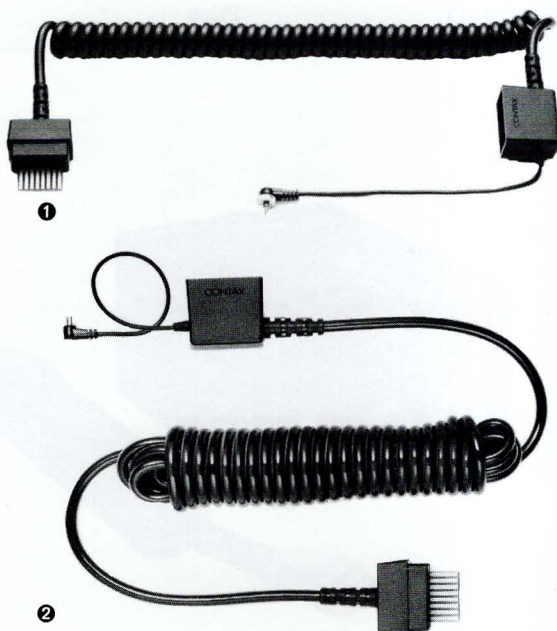
*Integral Shutter Release Button*



*Two-Way Swivel Flash Head for Auto Bounce Flash*



## CONTAX RTF EXTERNAL SENSOR HOLDERS 100, 500



The RTF External Sensor Holders are designed to accept the sensor unit unplugged from the flash unit for off-camera flash on Auto. They feature a clip-on connector unit for direct mounting on the camera and two connector cords — one for plugging into the camera's release socket and the other into the socket on the flash unit. Sensor Holder 100 comes with a one-meter spiral cord; Holder 500 with a 5-meter straight cord.

When the External Sensor Holders are used, flash unit can be used off-camera and tilted or swiveled to any desired angle for most effective automatic bounce flash as well as direct flash. Adapter cord R-6SJ is included for use with the Contax RTS.

- **Size:** holder section 36 x 31 x 36 mm (1-7/16 x 1-1/4 x 1-7/16 in.) • **Weight:** ① SENSOR HOLDER 100 120g (4.2 ozs.) ② SENSOR HOLDER 500 230g (8.1 ozs.)

- ① RTF External Sensor Holder 100 Price .....
- ② RTF External Sensor Holder 500 Price .....



Adapter (R-6SJ)

## CONTAX RTF SLAVE UNIT

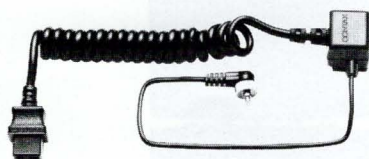
Price



For remote triggering of back or side-light use RTF 540, TLA-20 or other flash units when multiple light effects are desired, with no need for connecting cords. Plugs into the front section of the RTF 540 in place of the detachable Sensor.

- **Size:** 36 x 48 x 20 mm (1-7/16 x 1-7/8 x 13/16 in.)
- **Weight:** 12 grams (0.4 ozs.)

## CONTAX RTF SYNC-RELEASE CORDS



Normally used with the RTF540 unit for general flash photography. Synchronizes operation of the camera flash and motor drive or holder.

A screw-in terminal is also provided for the following accessories for use with the Contax RTS II Quartz, Contax 137MD Quartz, Contax 139 Quartz and FX-D Quartz. An adaptor is provided for use with the Contax RTS.



Adapter (R-6SJ)



## CONTAX RTF AC POWER UNIT (120V/220V) W/ CORD

Price

RTF AC Power Unit 120/220V is designed to operate the Real Time Flash (RTF) 540 on AC household current. Provides faster recycling times than the RTF Power Pack. Comes with cord. Available in Europe.



\* Specifications and exterior design subject to change without prior notice.

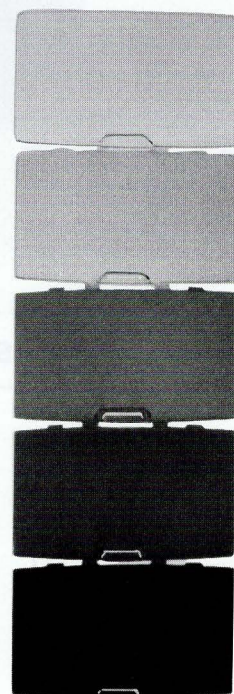
RTF AC Power Unit 120/220V	Price .....
RTF AC Power Cord	Price .....

## CONTAX RTF COLOR PANELS (Red, Orange, Yellow, Green, Blue)

Set Price

Set of red orange, yellow, green and blue filters. Each fits over the flash head for special effects photography without changing the angle of illumination.

• Size: 80 x 49mm (3-1/8 x 2 in.)



• RTF Color Panel (Red)	Price .....
• RTF Color Panel (Orange)	Price .....
• RTF Color Panel (Yellow)	Price .....
• RTF Color Panel (Green)	Price .....
• RTF Color Panel (Blue)	Price .....



## CONTAX RTF POWER PACK SET

Price



This unit is the most convenient power source for the Real Time Flash 540. It offers a choice of energizers: two RTW Battery Cases housing a total of twelve 1.5V AA size batteries, or two RTW Ni-Cd Packs. Offers up to 100 flashes with alkaline batteries at GN 40 (ASA 100 in meters); 300 flashes at GN 7. With RTW Ni-Cd packs: offers 50 flashes per charge at GN 40; 150 at GN 7 with faster recycling times. Set includes Power Pack Jacket, PK Strap.

● **Size:** 95 x 38 x 148.5mm (w/o Jacket) (3-6/8 x 1-1/2 x 5-7/8 in.) ● **Weight:** 370g (w/o Battery) (13.1 ozs.)

● RTF Power Pack	Price .....
● RTF Power Pack Jacket	Price .....
● RTW Battery Cases	Price .....
● PK Strap	Price .....

## CONTAX RTF 510V BATTERY PACK SET

Price



A high-voltage power unit for the RTF 540 offering the fastest recycling times and the maximum number of flashes per battery replacement of all three power sources: up to 300 flashes at GN 40 (ASA 100 in meters); 1200 at GN 7. Accommodates one 510V high-voltage battery and four AA size penlight batteries (for the transistor control circuit). Set includes RTF 510V Battery Pack, RTF Battery Pack Jacket, PK Strap.

● **Size:** 114 x 47 x 201mm (w/o Jacket) (4-1/2 x 1-7/8 x 7-15/16 in.) ● **Weight:** 360g (w/o Battery) (12.7 ozs.)

● RTF (510V) Battery Pack	Price .....
● RTF (510V) Battery Pack Jacket	Price .....
● PK Strap	Price .....



## CONTAX RTW Ni-Cd PACK

Price

This unit serves as a rechargeable power source for Contax Real Time Winder, the Medical 100 Lens and the RTF 540 electronic flash unit. It features a set of six 1.2V AA type nickel-cadmium batteries sealed inside a plastic cartridge. Measures 108 x 45 x 16.6mm.

When recharging, the RTW Charging Adapter and Contax Ni-Cd Battery Charger must be used.

- **Size:** 108 x 45 x 16.5 mm (4-1/4 x 1-3/4 x 5/8 in.)
- **Weight:** 145 grams (5.1 ozs.)

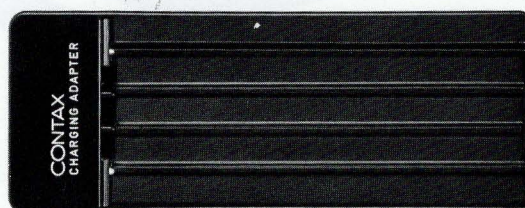


## CONTAX RTW CHARGING ADAPTER

Price

The exclusive RTW Charging Adapter must be used in concert with the Contax Ni-Cd Battery Charger for recharging the RTW Ni-Cd Pack which serves as a power source for the camera accessories mentioned above.

- **Input:** 9V • **Size:** 51 x 134 x 18mm (2 x 5-1/4 x 11/16 in.)
- **Weight:** 35 grams (1.2 ozs.)



## CONTAX Ni-Cd BATTERY CHARGER

Price

The Ni-Cd Battery Charger connects to the RTW Charging Adapter for recharging the RTW Ni-Cd Pack.

- **Charging Time:** Approx. 10 hours for full charge • **Input:** AC 100V, 120V or 220V (three types available for different line voltages) • **Output:** DC 8.7V 45 mA
- 100V model **Size:** 37 x 47 x 33 mm (1-7/16 x 1-7/8 x 1-5/16 in.) **Weight:** 105 grams (3.7 ozs.)

Price .....

- 120V model **Size:** 37 x 45 x 35.5 mm (1-7/16 x 1-6/8 x 1-3/8 in.) **Weight:** 125 grams (4.4 ozs.)

Price .....

- 220V model **Size:** 42.5 x 53.5 x 53.5 mm (1-5/8 x 2-1/8 x 2-1/8 in.) **Weight:** 150 grams (5.3 ozs.)

Price .....





## CONTAX TLA ELECTRONIC FLASH SYSTEM



*Real Time Flash 540 (w/TLA Adapter)*



*TLA 30*

*TLA 20*



*TLA Multi-Flash/Extension System*

The CONTAX TLA Electronic Flash System provides precisely accurate, through-the-lens metering of electronic flash exposures for both full flash-exposure accuracy and consistency and increased potential for creative flash techniques. TLA flash techniques can be employed with the CONTAX Series camera bodies. TLA System equipment includes the following items:

- Real Time Flash 540 (when equipped with the RTF540 TLA Adapter)

- TLA 30 electronic flash unit

- TLA 20 electronic flash unit

- TLA Multi-Flash/Extension System equipment

Use of the TLA System provides the photographer with two major advantages: the accuracy of TTL metering of flash exposures and the convenience of direct X-synchronization. In addition, valuable operating indications are provided directly in the viewfinder of the camera when the TLA System is in use.

### 1. Through-The-Lens Flash Metering:

With the TLA System, all flash exposures are metered by a special Silicon Photo Diode (SPD) cell in the camera body. This SPD is sensitive and responsive enough to changes in light to accurately measure even the extremely rapid output of electronic flash. Reflected light from the main subject is measured by the SPD, through-the-lens. When the proper amount of light has been cast on the subject for an accurate exposure according to the aperture in use and the sensitivity of the film, the SPD relays a command to the central processing unit of the camera to cut off output from the flash unit.

Thus, unlike ordinary auto-flash equipment — which requires compensation for such factors as filtering, etc. — the TLA System meters the actual flash exposure of the film so there is never any need to perform exposure calculations or to compensate for lighting techniques.

### 2. Direct X-Synchronization:

A great many flash photographs have been ruined because the camera was accidentally set at a shutter speed which cannot handle X-synchronization for electronic flash. With a focal-plane shutter camera, flash synchronization must be made at a speed which allows for the complete opening of the shutter curtain. Otherwise, a dark horizontal or vertical band will be formed across the photograph, depending on whether the shutter runs horizontally or vertically.

But with the TLA System, a 'Fail-Safe' automatic system for X-synchronization protects against such errors. Whenever the flash unit is turned ON, and is fully charged and ready to fire, the camera is automatically set for the proper



## CONTAX RTF 540 TLA ADAPTER

Price

The special new TLA Adapter for the RTF540 unit provides full flash dedication and TTL flash metering with the Contax Series camera bodies. The TLA Adapter connects the camera hot-shoe with the flash unit, plugging into the connection when the remote flash sensor is removed from the flash unit. When used with this adapter, the RTF540 incorporates the same dedicated flash capabilities and TTL metering as either the TLA 30 or TLA 20 flash units.

### Note:

- 1 This adapter works for all  $\textcircled{T}$  model RTF 540 units. Older RTF 540 units without the  $\textcircled{T}$  mark can be adapted for TLA System use at your nearest Contax Service Center.
- 2 137 Grip Adapter must be used when fitting RTF 540 to 137 MD Quartz.



## TLA MULTI-FLASH/EXTENSION SYSTEM

Price

This special collection of connecting and adapting equipment provides professional-level capabilities for employing multiple flash units, on or off-camera, while retaining the full Through-The-Lens metering capabilities of the Contax TLA series of electronic flash units.

Equipment in this system is employed as follows:

**TLA Extension Connector S** — provides connection for TLA 20 flash unit to Extension Cords (S) or (SS) for off-camera use in multiple flash situations. [\*Indicates this item is required for connection with TLA20.]

**TLA Multi-Flash Connector S** — four-plug connector to link camera with up to three TLA flash units.

**TLA Extension Cord 100** — provides direct connection of TLA 20 or TLA 30 to camera through hot-shoe.

**TLA Extension Cord 100 S** — provides direct connection of camera to TLA flash unit (\*) or to TLA Multi-Flash Connector S.

**TLA Extension Cord 100 SS** — provides direct connection of TLA flash unit (\*) to TLA Multi-Flash Connector S for multiple flash techniques.

**TLA Extension Cord 300 SS** — provides same connections as (100 SS) except with extended 3-meter length.

**TLA Attachment Adapter** — provides tripod/lightstand connection for TLA 30 flash unit.

Please note that a wide variety of creative techniques employing this equipment can be used, retaining direct TTL flash metering of exposures, in addition to the basic connections described above.

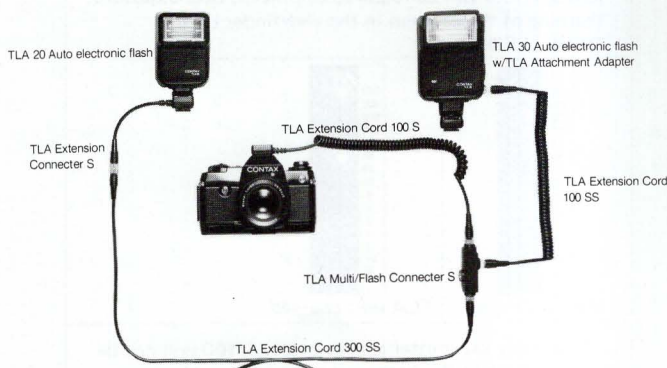


- 1 TLA Extension Cord 100
- 2 TLA Extension Cord 100S
- 3 TLA Extension Cord 100SS
- 4 TLA Extension Cord 300SS
- 5 TLA Extension Connector S
- 6 TLA Multi-Flash Connector S
- 7 TLA Attachment Adapter



## CONTAX TLA 30

Price



Total versatility and full creative control over electronic flash exposures are provided by the Contax TLA 30 Auto flash unit. Used with the Contax Series cameras, the TLA 30 provides fully dedicated flash control, along with direct, TTL metering of flash exposures at the film plane.

TTL flash metering provides absolute accuracy in exposure, since light is measured at the film plane and according to the sensitivity of the film. Special SPD (Silicon Photo Diode) cells in both cameras measure the amount of light striking the film, and cut off flash output instantly when the proper exposure has been made. This allows complete freedom in choosing aperture settings, and allows the photographer to experiment with a wide range of creative flash techniques as well. For use with other cameras, the TLA 30 features two additional AUTO settings for exposure control through the built-in sensor or manual settings at full, 1/4 and 1/16 power. For simple on-camera bounce flash capability, the flash head of the TLA 30 rotates through a vertical angle from  $-15^{\circ}$  to  $+90^{\circ}$  off center. Off-camera, the TLA 30 can be used by itself or in conjunction with other units through the TLA Multi-Flash/Extension System.

The unit is rated at a Guide Number of 30 (ASA100/meters) for high output and wide-ranging capabilities.

- **Type:** Clip-on automated electronic flash with TTL flash metering capability and built-in SPD sensor for normal automated thyristor-control. Full manual control possible.
- **Mounting:** Direct to camera hot-shoe, or off-camera through TLA Multi-Flash/Extension System.
- **Control Circuitry:** Thyristorized, energy-saving circuits.
- **Guide Number:** Auto GN, 30~4 (ASA100/meters); manual GN, 30, 15, 7.5.
- **Flash Control:** TTL metering through SPD measuring light at film plane with Contax 137 MD Quartz and 139 Quartz, two-aperture auto control with built-in SPD for other cameras.
- **Coverage Angle:**  $60^{\circ}$  horizontal,  $45^{\circ}$  vertical ( $\approx 35\text{mm}$  lens); with special wide panel  $76^{\circ}$  horizontal,  $58^{\circ}$  vertical ( $\approx 24\text{mm}$  lens).
- **Bounce Flash:** Flash head tilts through vertical angle from  $-15^{\circ}$  to  $+90^{\circ}$ .
- **Color Balance:** Daylight.
- **Power Source:** Four 1.5V AA-size batteries (rechargeable NiCds usable).
- **Total Power:** 100 full-power flashes with alkaline batteries, 40 with manganese, 60 with NiCd. Recycling time at GN30 is 9 seconds; for two frames per second use GN is 7.5.
- **Controls:** ON/OFF switch with settings for TTL, two-aperture auto operation, three manual modes. Test button built-in.
- **Standard Set:** TLA30 unit, wide panel, case.
- **Optional Accessories:** Wide range of extension cords and connecting equipment in the TLA Multi-Flash/Extension system.
- **Dimensions:** 80 x 120 x 60 mm ( $3\frac{1}{8}$  x  $4\frac{3}{4}$  x  $2\frac{1}{4}$  in.)
- **Weight:** 305 grams (w/o batteries) (10.8 ozs.)



X-synchronization shutter speed. If the camera is in the AE operating mode, the proper X speed will be set automatically. In the manual mode, the proper X speed will be automatically set if the shutter speed selector is positioned at any speed higher than proper X-synch.

At the same time, however, the creative possibilities of slow shutter speed-electronic flash exposure are not lost, since any speed slower than the maximum X-synch speed can be manually set or locked into the AE system.

And exposure is always accurate also, since the camera will revert to the proper AE or manually set shutter speed at any time that the flash unit is not ready to fire.

[Examples: 137 MA Quartz + TLA-30 unit — camera's AE exposure metering indicates shutter speed of 1/15 sec. When TLA-30 is fully charged, camera shutter speed automatically switches to proper maximum X-synch of 1/60. Immediately after flash exposure, camera reverts to proper AE speed of 1/15 until TLA-30 has recycled and is ready to discharge again. AE speed of 1/15 can be employed by shifting to AE Lock camera setting.

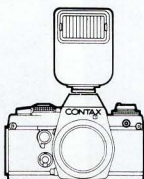
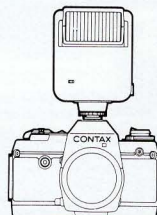
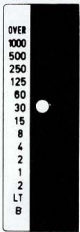
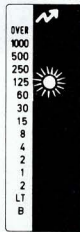
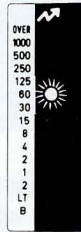
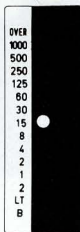

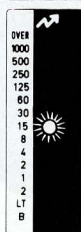
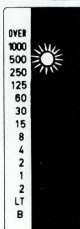

139 Quartz + RTF540 — camera set for manual 1/500 shutter speed. When the RTF540 is fully charged, the camera will automatically shift to the proper X-synch speed of 1/100, reverting to manual speed after flash exposure if flash unit requires recycling for discharge.]

### 3. Viewfinder Flash-Data Indication

When employing the TLA System, the photographer receives valuable information on the status of the flash unit through the camera's viewfinder LED readout system. When the flash unit is fully charged, a special green '∞' LED will light up to indicate that the flash is ready to use. Following flash exposure, the '∞' indicator will flicker if flash exposure has been correct. Should the '∞' fail to flicker after a flash shot, the aperture should be opened wider to allow increased exposure of the film, or the flash unit moved closer to the subject.

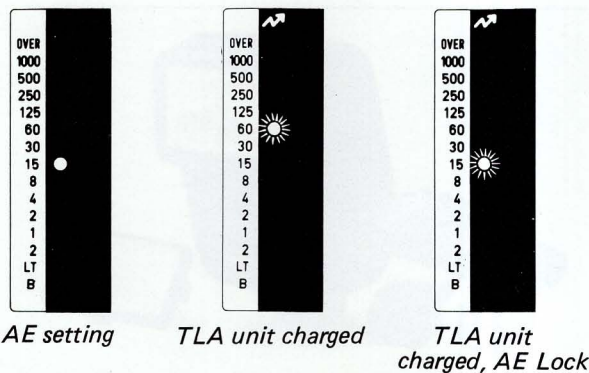
In addition, full information on the shutter speed is provided during flash photography. When the unit is fully charged and the green '∞' indicator lights, the LED readout will also show what shutter speed for X-synch is in use. This will be the standard X-synch speed during AE or high-speed manual conditions, or a slower (X-synch) speed if set manually or locked in by the AE Lock function.

Should the flash unit not be fully charged, or be turned off, the LED indicators will immediately shift back to tell the photographer that the proper AE or manually-set shutter speed is back in use.

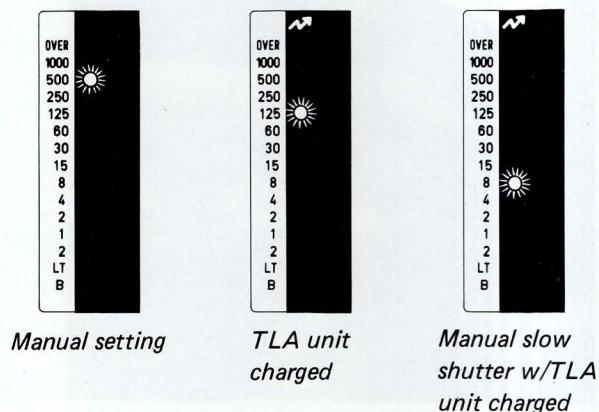
TLA Flash Data		
	 139 QUARTZ w/TLA 20	 137 MA QUARTZ w/TLA 30
Flash OFF	Flash ON	
 AE setting	 TLA unit charged	 TLA unit charged
**If the auto-setting of proper flash-sync speed results in over-exposure of the scene, the OVER LED will flash after a shot to warn that a smaller aperture must be selected.		
 AE Lock ON	 TLA unit charged	 TLA unit charged
*When employing a shutter speed slower than that indicated by the camera's metering system, a smaller lens aperture will be required to prevent over-exposure. Warning of this is given in the viewfinder by the OVER LED.		
 Manual Setting	 TLA unit charged.	
*Manually-set shutter speeds below 1/100 will not be changed when the flash unit is set for use. However, speeds over 1/100 will automatically switch to the proper flash-sync speed. If overall exposure is then too great, the OVER LED indicator will flicker after the shot, and a smaller aperture must be selected.		



## 137 MA Quartz + TLA unit



## 139 Quartz + TLA unit



[Examples: 137 MA Quartz with AE indication of 1/15 sec. When the TLA System flash is ready to fire, the viewfinder display will show the LED at the 1/60 indicator flickering. If AE Lock function is used to freeze the 1/15 speed, that LED indicator will flicker.

139 Quartz at manual speed of 1/500 sec. When a TLA System unit is fully charged, the viewfinder display will show the 1/125 (flash synch is 1/100, 1/125 indicator is used for this purpose) indicator LED flickering. After a flash shot, the viewfinder will revert to a steadily lit 1/500 LED indication until the flash unit is fully recharged and ready to fire again.

Set manually at a 1/8 sec. speed, the 1/8 LED indicator will flicker when a TLA unit is ready for use.

These three major advantages make the CONTAX TLA Electronic Flash System the easiest to use and most creative path to flash photography available today. In particular, TTL metering of all electronic flash exposures has enormous advantages in the field of close-up/macro photography. No exposure calculation need be made, as the camera/flash unit combination adjusts automatically for a proper exposure, not matter what magnification ratio may be used.

In addition, the TLA System is uniquely suited to the task of creative slide copying. With a bellows/slide copier system and TLA flash, the photographer can copy slides, adjusting the framing, adding filtration and increasing magnification at will, without fear of exposure difficulties. By using a connecting cord from the TLA Multi-Flash/Extension System to remove the flash from the camera and position it behind the slide copier, perfectly exposed copies can be made with no exposure calculation at all.



137 MD Quartz + Auto Extension Bellows PC  
+ S-Planner T\* f/2,8 60mm + Slide Copier +  
TLA 30



## CONTAX TLA-20 AUTO FLASH

Price

### CONTAX TLA-20 AUTO FLASH

#### Total Accuracy In Flash Exposure Control

Direct metering of flash exposures at the film plane is possible with the combination of the TLA-20 Auto Flash and either the CONTAX 139 Quartz, CONTAX 137 MA Quartz, or Contax RTSII Quartz. Attached directly to the camera body and set for "AUTO" operation, the TLA-20 works completely through the SPD (silicon photo diode) metering systems of either camera for complete control of flash exposure, at any aperture, because the camera meters flash intensity during exposure and cuts off flash output precisely as exposure values become perfect.

And with the TLA-20 Extension Cord 100, the flash unit can be operated from any position, a fantastic advantage for bounce-flash techniques, close-ups, slide copying and other creative possibilities.

In addition, the TLA-20 features "Hi" and "Lo" manual settings for use at fixed flash intensities, or with other camera bodies. A special wide panel is included with the unit, expanding coverage to evenly illuminate the field of a 24mm wideangle lens.

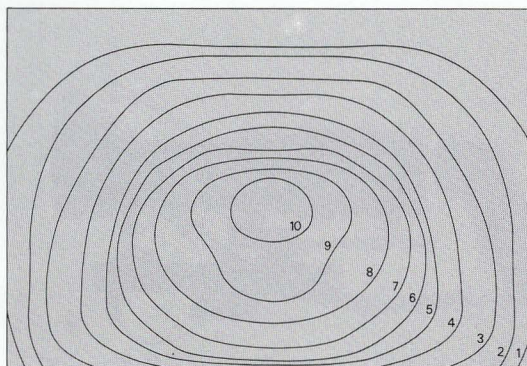
- **Guide number (ASA 100/m):** Auto; 4-20; manual; Hi: 20; Lo: 2.8
- **Recycle time:** 3-6 sec. (fast recycle at Lo for synch with winder)
- **Power source:** four 1.5V AA-size batteries
- **Angle of coverage:** 60° horizontal, 45° vertical (covering field of view of 35mm lens). With wide panel: 76° horizontal, 58° vertical (covering field of view of 24mm lens).
- **Standard set:** TLA-20 unit, wide panel, case.
- **Optional accessory:** Extension Cord 100.
- **Price:** . . . . .
- **Dimensions:** 66 (W) x 100 (H) x 71mm (D) [2-5/8 x 3-15/16 x 2-13/16 in.]
- **Weight:** 180 grams [6.4 ozs.] without batteries.



*The TLA-20 Auto Flash system with extension cord and special wide angle panel.*



*With the TLA Extension Cord 100, the flash unit can be used for off-camera applications.*



*This shows the TTL metering pattern of the flash, heavily center-weighted to cut peripheral interference.*



## CS-201 AUTO ELECTRONIC FLASH

Price



The CS-201 Auto is a special electronic flash unit designed for dedicated use with the YASHICA FX-D Quartz single-lens reflex camera. When used with the FX-D, the CS-201 provides full shutter/flash synchronization. Attached to the accessory hot-shoe of the FX-D, the CS-201 automatically signals the camera to switch to the proper X synchronization shutter speed (1/100 sec.) whenever the flash is fully charged and ready for use. This function operates in either auto or manual flash exposure mode, and whether the camera is operating in the AE or manual mode. However, with the camera in manual mode, shutter speed will switch to X only when the manually set speed is 1/125 sec. or faster. At speeds of 1/600 or slower the camera will retain the set shutter speed, since all such speeds are fully X-synchronizing. In addition, slow shutter speed flash photography can be employed in the camera's AE mode by use of the camera's AE Lock function to freeze any speed below 1/100 sec. When the flash unit is fully charged, a special green " ~ " LED in the camera viewfinder lights to indicate flash-ready condition. In addition, the camera flashes an LED warning and sounds an audible warning tone should the set aperture be too wide for flash exposures. In such cases, a smaller aperture must be set to prevent over-exposure of the photograph.

The CS-201 Auto is controlled by means of a simple three-position switch with settings for OFF, AUTO & MANUAL. It can be used with cameras other than the FX-D, in either AUTO or MANUAL modes, for ordinary, non-dedicated flash operation.

All other specifications of the CS-201 are identical to the Yashica CS-200 Auto unit, including the Guide Number of 20 (ASA 100/meters) for high-output capability, and auto exposure flash metering through a 20° sensor built into the flash itself.

- **Type:** Clip-on automatic electronic flash.
- **Power Output:** Guide Number 20 (ASA100/meters).
- **Coverage Angle:** Equivalent to field of view of 35mm wide-angle lens.
- **Synchronization:** Fully automated X synch control with Yashica FX-D Quartz camera via hot-shoe.
- **Color Balance:** Daylight.
- **Power Source:** Four 1.5V AA-size batteries.
- **Total Power:** 280 full-power flashes with alkaline batteries, 90 with manganese.
- **Recycling Time:** (At full-power) 6 seconds with alkaline batteries, 7 seconds with manganese.
- **Controls:** OFF/AUTO/MANUAL three-position switch, plus test button.
- **Dimensions:** 101 x 65 x 53 mm (4 x 2-9/16 x 2-1/16 in.)
- **Weight:** 150 grams (5.3 ozs.) (w/o batteries).

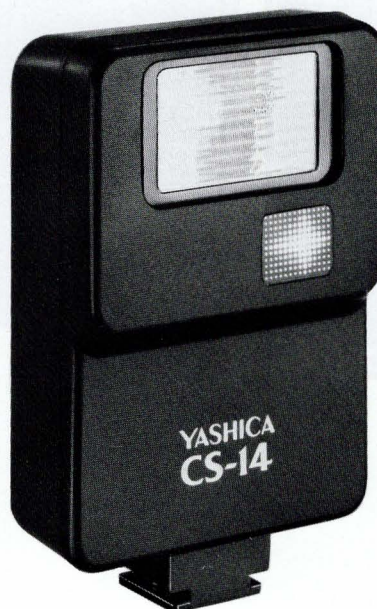


## CS-14 ELECTRONIC FLASH

Price

A highly compact clip-on type electronic flash unit designed for use with both rangefinder and SLR cameras. The CS-14 features a guide number of 14 (ASA 100 in meters) and synchronizes directly via the camera's hotshoe. Extremely lightweight and easy to operate. Powered by two 1.5V AA-size penlight batteries.

• **Type** Clip-on electronic flash unit • **Guide Number 14** (ASA 100 in meters). • **Angular Coverage** Sufficient for a 38 mm wide-angle lens. • **Flash Synch** via hotshoe (direct X contact) • **Recycling Times** 9 sec. w/manganese batt.; 8 sec. w/alkaline-manganese batteries. • **Number of Flashes** 100 per set of manganese batt.; 300 per set of alkaline batteries. • **Power Source** two 1.5V AA-size penlight batteries. • **Size** 61 x 85 x 30mm (2-7/16 x 3-3/8 x 1-3/16 in.) • **Weight** 90 grams (2.9 ozs.) w/o batteries



## CS-10 ELECTRONIC FLASH

Price

A super-compact electronic flash unit designed exclusive for hook up with cameras featuring a direct X (hotshoe) contact. Weighing a mere 60 grams, the CS-10 will fit neatly into the palm of your hand and hardly adds to the camera's bulk and weight. It is especially handy for use with the Yashica ME-1 in low-light shooting situations.

• **Type** Clip-on electronic flash unit • **Guide Number 10** (ASA 100 in meters) • **Flash Synch** via hotshoe (direct X) contact • **Angular Spread** 45 degrees vertical, 60 degrees horizontal (sufficient for a 35mm wide-angle lens) • **Recycling Time** 11 sec. w/alkaline-manganese battery • **Number of Flashes** 150 per set of alkaline-manganese battery • **Power Source** one 1.5V AA-size penlight battery (alkaline-manganese or Ni-Cd) • **Size** 62 x 42 x 34mm (2-7/16 x 1-11/16 x 1-3/8 in.) • **Weight** 60 grams (1.9 ozs.) w/o battery





## PRO-50DX ELECTRONIC FLASH

Price



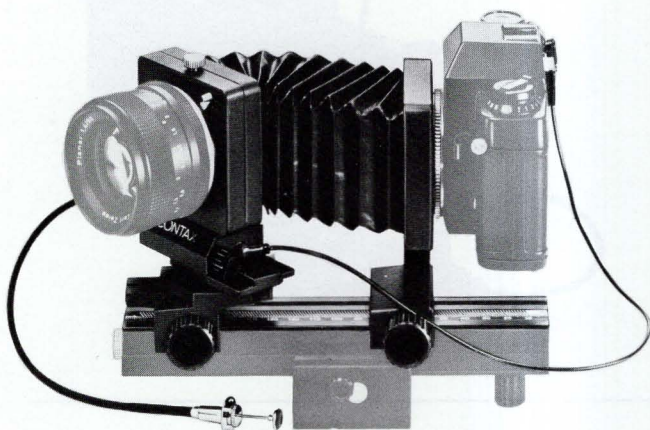
Compact, swivel-mount AC/DC unit with sufficient light output to serve all photographic purposes. Permits use with or without synchro cord.

- **Guide Number:** 33 (ASA 25 in feet), 20 (ASA 100 in meters)
- **Coverage Angle:** 60° horizontal, 75° vertical
- **Power Source:** Three AA size manganese or alkaline batteries or AC mains (Adaptable to all line voltage ranges through setting of built-in voltage selector)
- **Recycling Time:** 4 to 6 sec. on AC; 6 to 7 sec. on batteries
- **Number of Flashes:** Up to 300 flashes per replacement of alkaline batteries; up to 60 flashes on manganese batteries
- **Flash Duration:** 1/1000 sec.
- **Color Temperature:** 5,800° K
- **Other Features:** Adjustable directshoe bracket, voltage selector, open flash/circuit test button
- **Size:** 36 x 96 x 70mm (1-13/32 x 3-3/4 x 2-3/4 in)
- **Weight:** 205 grams (7-1/4 ozs.)



## CONTAX AUTO EXTENSION BELLOWS PC

Price



Bellows attachment featuring full coupling of the lens with the camera body for composition and focusing at full aperture and fully automatic diaphragm action with the aid of the Shutter Connector Cord and exclusive Cable Release. Camera mount can be rotated through 90 degrees permitting positioning the camera in horizontal or vertical posture without detaching it from the bellows attachment. Enables mounting of the lens in either normal or reverse position and has provision for horizontal swing and shift of the lensboard. By using the Focusing Rail, focusing is facilitated and the Macro Stand can be mounted for versatility in close-up and macrophoto work. Set also includes connector cords R-37R for the RTS and R-37S for the Contax RTS II Quartz, 137MA Quartz, 139 Quartz and FX-D Quartz, 52 mm and 55 mm adapter rings and cable release.

- **Mount:** Contax/Yashica mount
- **Light reading:** Instant light reading at open aperture
- **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 lensboard
- **Other features:** Lens reversing feasible without removing the lens or lensboard; accepts Slide Copier
- **Size:** 200 x 120 x 70 mm (7-7/8 x 4-3/4 x 2-3/4 in.)
- **Weight:** 785 grams (1.7 lbs.)

## CONTAX AUTO EXTENSION BELLOWS PC CONNECTOR CORD

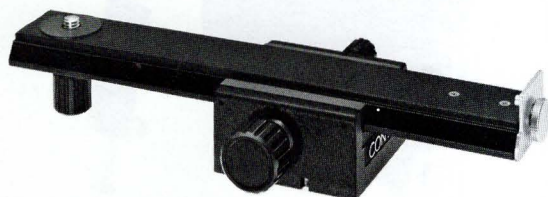
Price



Two cords are supplied: one with a screw-in terminal ① for use with the Contax RTS II Quartz, Contax 137MA Quartz, Contax 139 Quartz and FX-D Quartz and one with a normal plug-in terminal ② for use with the Contax RTS.

## CONTAX FOCUSING RAIL

Price



Attaches to the base of the track of the Auto Extension Bellows PC to afford utmost focusing ease. Also enables lateral tracking and permits use of the Macro Stand. Features extra-large focusing knob with locking provision and tripod socket. • **Size:** 200 x 34 x 54 mm (7-7/8 x 1-5/16 x 2-1/8 in.) • **Weight:** 400 grams (14.1 ozs.)



## YASHICA AUTO EXTENSION BELLOWS F2

Price

Ruggedly built bellows attachment providing full aperture viewing and focusing, as well as fully automatic diaphragm action. Comes complete with Shutter Connector Cord and Cable Release for use exclusively with Yashica FX-D Quartz or Contax bodies. The lensboard with the lens can be removed from the track for setting the lens in reverse, especially when taking close-ups at a high ratio of magnification.

The camera mount can be rotated through 90 degrees by simply loosening the thumbscrew. Features depth-of-field preview button and lens release lever. Instant open aperture light reading is afforded with Contax Series cameras and FX-D Quartz. Supplied with 52 mm and 55 mm adapter rings (for use when the lens is reversed) and cable release.

- **Size:** 200 x 120 x 70 mm (7-7/8 x 4-3/4 x 2-3/4 in.)
- **Weight:** 660 grams (1.46 lbs.)

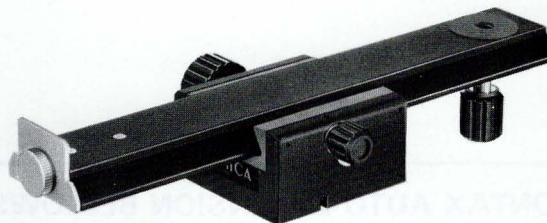


## YASHICA FOCUSING RAIL

Price

Attaches to the base of the bellows attachment to assure focusing ease. When set at right angle with the bellows track, it enables lateral tracking while mounted on a tripod. It also permits use of the Macro Stand. Features easy-to-operate focusing knob and provision for locking in focused position. Usable with Auto Extension Bellows F2, Auto Extension Bellows F.

- **Size:** 200 x 34 x 54 mm (7-7/8 x 1-5/16 x 2-1/8 in.)
- **Weight:** 400 grams (14.1 ozs.)



## YASHICA AUTO EXTENSION BELLOWS F

Price

All features identical with Auto Bellows F2, except that it is supplied with the Double Cable Release.

This bellows attachment is designed exclusively for use with the Yashica FX-3 and FX-7.

- **Size:** 200 x 120 x 70 mm (7-7/8 x 4-3/4 x 2-3/4 in.)
- **Weight:** 660 grams (1.46 lbs.)





## CONTAX SLIDE COPIER

Price



Designed exclusively for use with the Auto Extension Bellows PC, this Slide Copier attaches to the mount on the base of the lensboard and permits convenient copying of mounted slides or color filmstrips. Features filmstrip trays and clip-on film holder for ease in setting the frame for copying.

- **Size:** 131 x 97 x 180 mm (5-3/16 x 3-13/16 x 7-1/16 in.)
- **Weight:** 374 grams (13.2 ozs.)

## YASHICA SLIDE COPIER

Price



Designed for use with Auto Extension Bellows F2, Auto Extension Bellows F as well as Contax Auto Extension Bellows PC, this slide copier attaches to the mount on the lensboard thus permitting utmost convenience in copying mounted slides or color filmstrip, or making negatives from color transparencies. Features clip-on holder and trays for accommodating filmstrip.

- **Size:** 131 x 97 x 180 mm (5-3/16 x 3-3/16 x 7-1/16 in.)
- **Weight:** 374 grams (13.2 ozs.)



## CONTAX MACRO STAND

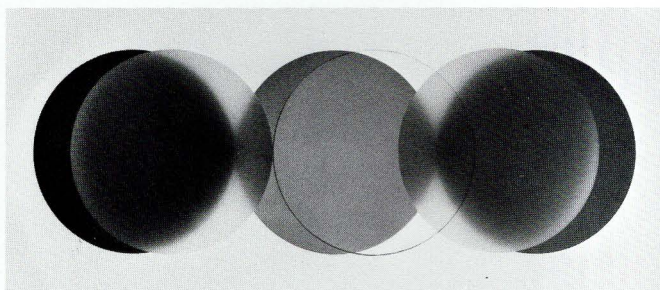
Price

Fixes to the front end of the Focusing Rail for convenience in macrophoto work. Stage features a pair of clamps to hold down small specimens. Standard stage provides light reflection ideal for macrophotography. Standard stage interchangeable with all types of stage glass.

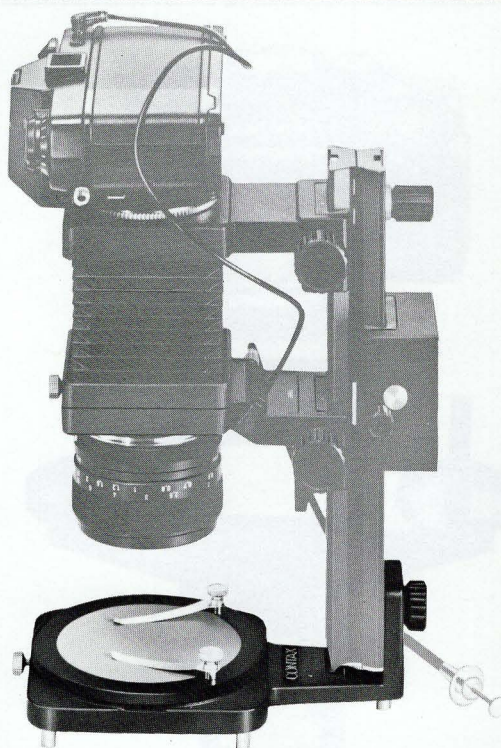
- **Size:** 47 x 157 x 100 mm (1-7/8 x 6-3/16 x 3-15/16 in.)
- **Weight:** 265 grams (9.3 ozs.)

### Interchangeable Stage Glass for Macro Stand

Types available on order, including transparent, milky, red, orange, green and blue.



Price: . . . . . (a piece)



## YASHICA MACRO STAND

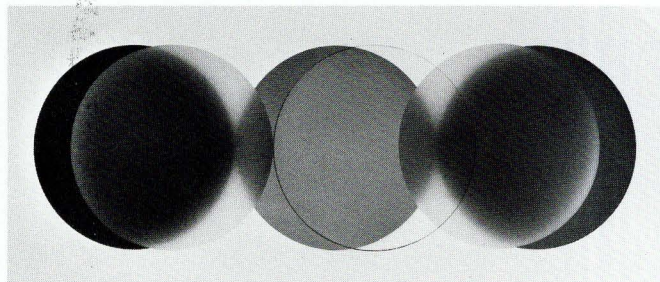
Price

The Macro Stand attaches to the front end of the Focusing Rail to assure convenience in macrophoto work. Stage features a pair of clamps to hold down small specimens. Standard stage providing ideal light reflection for macrophotography can be readily interchanged with various types of stage glass, including colored and translucent stage. Usable with Auto Extension Bellows F2, Auto Extension Bellows F, Contax Auto Extension Bellows PC, etc.

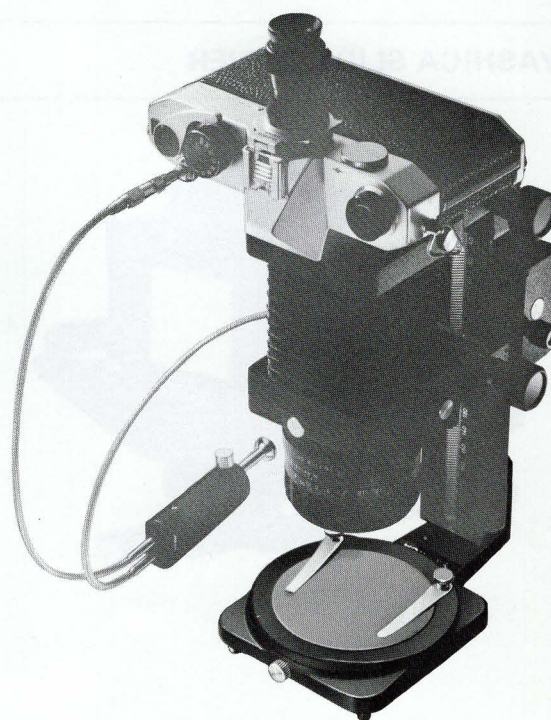
- **Size:** 47 x 157 x 100 mm (1-7/8 x 6-3/16 x 3-15/16 in.)
- **Weight:** 265 grams (9.3 ozs.)

### Interchangeable Stage Glass for Macro Stand

Types available on order, including transparent, milky, red, orange, green and blue.



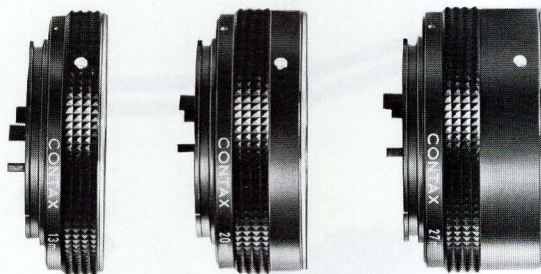
Price: . . . . . (a piece)





## CONTAX AUTO EXTENSION TUBE SET

Price



No.1  
13mm

No.2  
20mm

No.3  
27mm

Set consists of three tubes measuring No. 1 (13mm), No. 2 (20mm) and No. 3 (27mm) and with full linkage system for full aperture light reading and automatic diaphragm action. These tubes can be used either singly or in combination for varied degrees of magnification up to 1.3X with the standard f/1.4 50mm lens.

- **Mount:** Contax/Yashica mount
- **Lens release:** Each tube features individual lens release button
- **Weight:** Set weighs 250 grams (8.8 ozs.) [No. 1 55 grams (1.9 ozs.), No. 2 85 grams (3 ozs.), No. 3 110 grams (3.9 ozs.)]

## YASHICA AUTO EXTENSION TUBE SET F

Price



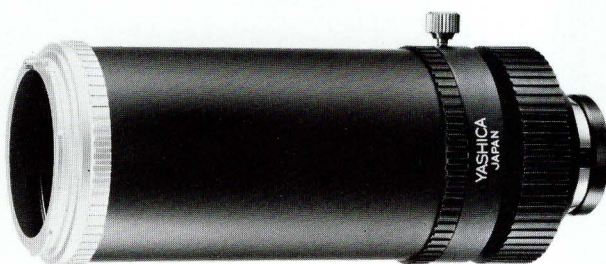
An indispensable aid to close-up and copying work, the Auto Extension Tube Set F consists of three tubes measuring No. 1 (13mm), No. 2 (20mm) and No. 3 (27mm) and affording use either singly or in different combinations for varying degrees of magnification up to 3X.

The use of the auto extension tubes, either singly or in combination, permits full aperture viewing and focusing as well as fully automatic diaphragm action.

- **Weight:** Set Weight 250 grams (8.8 ozs.) [No. 1 55 grams (1.9 ozs.), No. 2 85 grams (3 ozs.), No. 3 110 grams (3.9 ozs.)]

## YASHICA MICROSCOPE ADAPTER F

Price



Consists of the camera mount with the intermediate tube, microscope mount section and light shield, and permits ready mounting of the camera on any standard microscope. Enables use with or without the microscope eyepiece and affords adjustment of the camera position with maximum ease. When used without the microscope eyepiece, the light shield tube is set within the microscope mount.

- **Size:** 52 x 130.5 mm (2-1/16 x 5-1/8 in.)
- **Weight:** 185 grams (6.5 ozs.)

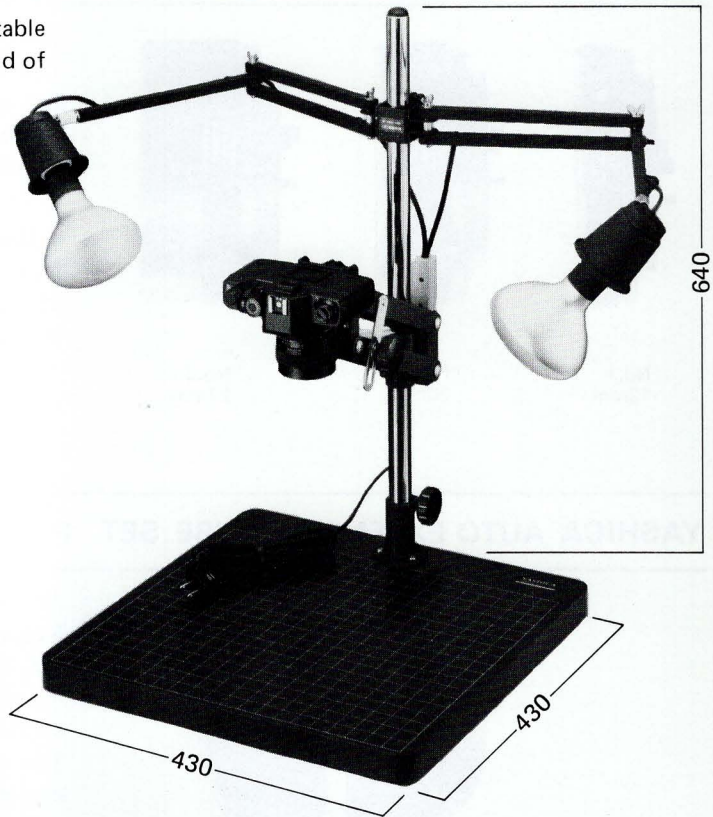


## YASHICA COPY STAND Type II

Price

Incorporates pantograph camera slide arm and adjustable lamp arms on the upright frame. Maximum object field of 270 x 400mm with standard 50mm lens.

• Weight: 7.3 kg (16.1 lbs.)





## LUMINAR ADAPTER

Price



This Luminar Adapter allows the use of Carl Zeiss Luminar Lenses with either the Auto Bellows PC or Extension Tubes to provide macrophotographic capability at magnifications up to 14 times lifesize. With this adapter and one of the four Luminar Lenses (or other microscope objectives) photography is possible at any intermediate range between macro and photomicrography. Magnification ratios provided with this adapter and the Luminar Lenses are in the following ranges:

Zeiss Luminar f/2.5 16mm	7.8X – 14X
Zeiss Luminar f/3.5 25mm	3.8X – 7.8X
Zeiss Luminar f/4 40mm	1.75X – 4.2X
Zeiss Luminar f/4.5 63mm	0.99X – 2.5X

Depending on focal length, other microscope objectives will yield varying magnification ratios.

## REVERSE RING

Price



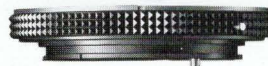
This Reverse Ring allows attachment to the camera body of any lens with a filter size of 55 mm (or 67mm with the use of the Adapter Ring 67mm) in reverse position for improved quality in close-up/macro photography. The lens may be attached directly to the camera body, or in combination with extension tubes and/or bellows equipment. Operation of the diaphragm is manual, and the focusing helicoid can not be used when the lens is in the reverse position.



## EXTENSION TUBE 7.5mm

Price

This tube offers an intermediate close-focusing range between the normal minimum focusing distance of the lens and maximum focus with one or more of the CONTAX Auto Extension Tubes. It is most effective when used with lenses limited in close-focusing capability, when use of extension tubes would result in too high a magnification ratio. Lens aperture must be preset, as this tube is not equipped for automatic diaphragm operation.



## ADAPTER RING 67mm

Price

This ring allows the connection of lenses having a 67mm filter size to accessory items with 55mm linkage. It is primarily used to mount the S-Planar T\* f/2.8 60mm lens to the Slide Copier, but is also useful for a wide range of additional techniques. Particularly, it can be employed to allow reverse position use of any 67mm filter size lens in combination with the Reverse Ring.





## CONTAX INFRARED CONTROLLER S SET

Price



The INFRARED CONTROLLER S SET works with the CONTAX 139 QUARTZ, CONTAX RTS and YASHICA FX-D QUARTZ cameras. Different connector cords are available depending up on the camera in use.

### Simplified Wireless Remote Control

The Infrared Controller S Set is another great advantage of the CONTAX Real Time System of photography. It allows completely wireless remote operation of the camera at a range of up to 20 meters (65 ft.). The release system retains all the advantages of electromagnetic Real Time operation.

The Infrared Receiver connects directly to the auxiliary release socket of the camera body, and operates on either of two channels, so that two different camera bodies can be employed in a remote photographic situation.

The Infrared Controller S Set can be used in conjunction with any CONTAX automatic film advance system and the TLA Auto Flashes, for a unique remote system capable of handling single-frame or sequential photography, even at night.

The Transmitter is powered by a single 1.5V AA-size battery, while the Receiver runs off of one 9V drycell battery.

	TRANSMITTER	RECEIVER
Type	Infrared remote control shutter release relay system.	
Range	(transmit and receive): Approx. 20 meters (max.)	
Operating Modes		S-C (Single-frame/Continuous) "S" Mode: Operates on reception of signal "C" Mode: First signal activates camera and winder; second signal stops operation.
Number of Channels	2 Channels enabling simultaneous or alternate operation of multiple camera/winder units (depending upon channel setting of receiver and transmitter).	
Number of Releases/Operating/Recycling Times	Approx. 3,000 Recycling time = 0.4 sec. (max.)	Continuous stand-by time = Approx. 30 hrs.
Other Features	Power source/channel switches release relay button	Power source/channel switch S-C switch, release socket for connector cord
Connector Cords		CONTAX 139 QUARTZ = B30S CONTAX RTX, YASHICA FX-D QUARTZ CAMERAS = B30R
Dimensions	23.5 x 35 x 120mm (15/16 x 1-3/8 x 4-3/4 in.)	38.5 x 51 x 61.5mm (2-1/2 x 2-2/7/16 x in.)



## INFRARED CONTROLLER S SET CONNECTOR CORDS

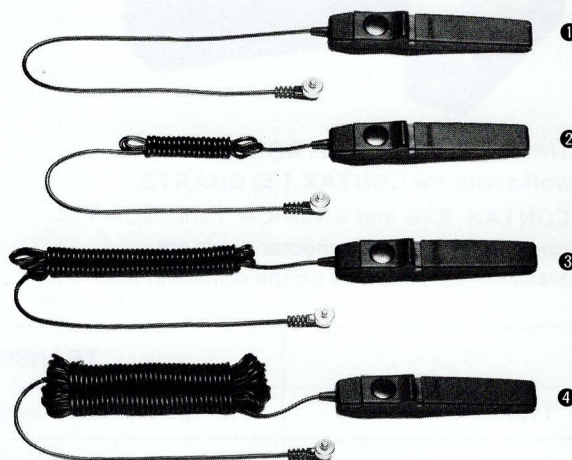
Two cords are supplied: one with a screw-in terminal **1** for use with the Contax RTS II Quartz, Contax 137MA Quartz and Contax 139 Quartz and one with a normal plug-in terminal **2** for use with the Contax RTS.



## CONTAX CABLE SWITCH L

These cable switches are available in four different lengths and have a screw-in type terminal for use with the Contax RTS II Quartz, Contax 137MA Quartz, Contax 139 Quartz, FX-D Quartz and FX-70 Quartz.

- 1** Cable Switch L-30 ..... Price
- 2** Cable Switch L-100 ..... Price
- 3** Cable Switch L-300 ..... Price
- 4** Cable Switch L-1000 ..... Price





---

## CONTAX RUBBER EYE-CUP/EYEPiece SHUTTER

---

Price



Fits over the viewfinder eyepiece and also acts as an eyepiece shutter when slid along the eyepiece frame. Adjustable for individual sight when equipped with diopter lens. A special eye-cup/eye piece shutter is available for use when the Contax Data Back is attached to the Contax RTS.

---

## YASHICA RUBBER EYE-CUP

---

Price



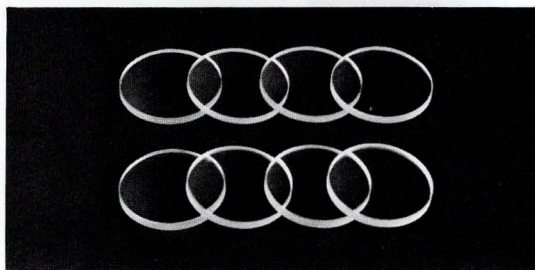
Mounts on the viewfinder eyepiece frame of Yashica SLR cameras to prevent stray light from filtering into the camera from the eyepiece. Use of the rubber eye-cup affords clear view particularly when a strong light is directed from behind at a diagonal angle and also prevents adverse effect on exposure control due to light filtering in from the eyepiece.

---

## CONTAX DIOPTER LENS

---

Price



Diopter lens fits into the diopter lens holder of the Rubber Eye-Cup and affords precise eyesight adjustment for clear viewing of the finder images. Eight types (+3 to -5 diopters) available.



## CONTAX RIGHT ANGLE FINDER

Price

This is a free rotating finder operating at 90° to the optical axis and having a full swing of 360°.

It allows viewing and focusing at any angle of an erect image at 1:1 magnification, a great advantage over similar equipment.

Mounting is over the viewfinder eyepiece and the eyesight has adjustments over a +3 to -5 diopter range.

• **Size:** 80.5 x 32 x 51 mm (with eye-cup) (3-3/16 x 1-1/4 x 2 in.) • **Weight:** 105 grams (3.7 ozs.)



## YASHICA RIGHT ANGLE FINDER C

Price

Slides into the grooves on the sides of the viewfinder eyepiece frame and affords viewing erect and correct images at 90 degrees to the optical axis. While mounted in place, it can be rotated through 360 degrees. Individual eyesight adjustment provision featured for ease in viewing and focusing.

An indispensable aid in photomicrography, candid shooting, low-angle photography, etc. Usable with all Yashica SLR models as well as Contax Series Cameras.

• **Size:** 80.5 x 32 x 50 mm (3-3/16 x 1-1/4 x 2 in.) • **Weight:** 105 grams (with eye-cup) (3.7 ozs.)



## YASHICA MAGNIFIER

Price

Slips into the grooves on the sides of the viewfinder eyepiece frame and permits viewing of the center area of the finder field at a ratio of magnification of 1.8X.

The Magnifier is indispensable in close-up shooting, copying work or other fields of photography where critical focusing constitutes a vital factor. It can be folded up on hinges to afford full field viewing without removing it from the eyepiece.

• **Size:** 26 x 40 mm (1 x 1-9/16 in.) • **Weight:** 48 grams (1.7 ozs.)





## CONTAX RTS FOCUSING SCREENS

Price

Seven interchangeable focusing screens suited to various applications are available for use in the Contax RTS. The screens can be quickly and easily changed through the lens mount opening.

RTS Focusing Screens include: split-image, split-image/microprism, horizontal split-image, matte, sectional matte, cross-scale and the microprism screen which comes standard with the camera body.



• Microprism



• Split-image



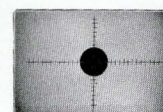
• Split-image/microprism



• Horizontal split-image



• Matte



• Cross-scale



• Sectioned matte



## Cases & front covers



Price.....

RTS II Standard Case



Price.....

"RTSII + W-3" Case



Price.....

"RTSII + D-4" Case



Price.....

137 MA Standard Case



Price.....

"137 + Data Back" Case



Price.....

139 Standard Case



Price.....

"139 + Winder" Case



Price.....

"139 + Data Back" Case

### Camera Cases

Cases		Contax RTS II Quartz	Contax 137 MA Quartz	Contax 139 Quartz
Standard Case		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
"Camera + Winder" Case		<input type="radio"/>	—	<input type="radio"/>
"Camera + Data Back" Case		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Camera pouch			<input type="radio"/>	
Sound /Cold-proof Case			<input type="radio"/>	
Kit Case II			<input type="radio"/>	
Professional Case A, B			<input type="radio"/>	
Shoulder Strap R25			<input type="radio"/>	
Shoulder Strap R25 (wine)			<input type="radio"/>	
Shoulder Strap W50			<input type="radio"/>	
Front Cover	85	<input type="radio"/>		<input type="radio"/>
	135	<input type="radio"/>		<input type="radio"/>
	200	<input type="radio"/>		<input type="radio"/>
Front Cover for "Camera + Winder"	85	<input type="radio"/>	—	<input type="radio"/>
	135	<input type="radio"/>	—	<input type="radio"/>
	200	☆	—	<input type="radio"/>
Front Cover for "Camera + Data Back"	85	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	135	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	200	☆	☆	<input type="radio"/>

☆ Custom-made



## Special Cases



### ● CONTAX Pouch

A smart white pouch made of buckskin for CONTAX cameras with winder and standard sized lenses. Free-sized, it fits the CONTAX series cameras.

Price.....



### ● Sound/Cold—Proof Case

This special case is for sound and cold-proofing, as in taking pictures in a theater or cold climates. It's available for all cameras in the CONTAX series, with PMD or winder.

(Special Order)

Price.....



### ● Kit Case

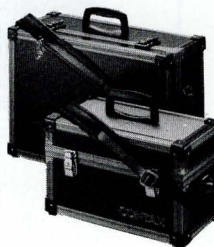
Durable and handy case made of leather with shoulder strap.

Dimensions/weight

270(w) × 165(d) × 200(h) mm,

1.4 kg/with shoulder strap

Price.....



Two different size light and durable compartment cases made of aluminum for professionals. These cases are convenient to protect cameras, lenses and accessories from damage.

### ● CONTAX Carrying Case A (Attache type)

475(w) × 340(d) × 195(h)mm,

3.5kg/with shoulder strap Price.....

### ● CONTAX Carrying Case B (Box type)

360(w) × 225(d) × 180(h)mm,

2.1kg/with shoulder strap

Price.....

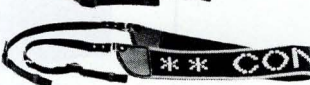
## Shoulder Straps



### ● Shoulder Strap R25

### ● Shoulder Strap R25 (wine color)

Price.....



### ● Shoulder Strap W50

Price.....

## Interchangeable Lenses and Acceptable Front Cover

Lenses	Front Cover/ Eveready Case	Front Cover 85	Front Cover 135	Front Cover 200
F-Distagon T* f/2.8 16 mm <Fisheye>		○		
Distagon T* f/3.5 15 mm			○	
Distagon T* f/4 18 mm		○		
Distagon T* f/2.8 25 mm		○		
Distagon T* f/2 28 mm			○	
Distagon T* f/2.8 28 mm	○	○		
Distagon T* f/1.4 35 mm			○	
Distagon T* f/2.8 35 mm	○			
PC-Distagon T* f/2.8 35 mm <Shift>			○	
Tessar T* f/2.8 45 mm	○			
Planar T* f/1.4 50 mm	○			
Planar T* f/1.7 50 mm	○			
Planar T* f/1.2 85 mm		○		
Planar T* f/1.4 85 mm		○		
Sonnar T* f/2.8 85 mm	○			
Planar T* f/2 100 mm			○	
Sonnar T* f/3.5 100 mm		○		
Planar T* f/2 135 mm			○	
Sonnar T* f/2.8 135 mm				○
Sonnar T* f/2.8 180 mm				○
Tele-Tessar T* f/3.5 200 mm				○
Tele-Tessar T* f/4 200 mm				○
Vario-Sonnar T* f/3.5 40-80 mm			○	
S-Planar T* f/2.8 60 mm <Macro>			○	



## OTHER ACCESSORIES

(Y): Indicates Yashica Brand (C): Indicates Contax Brand

Model and Type	Price
<b>Body Cap (C)</b>	
<b>Lens Rear Cap (C)</b>	
<b>Lens Rear Cap (Y)</b>	
<b>Lens Cap 49φ (C) for Tessar T* f/2.8 45mm</b>	
<b>Lens Cap 55φ (C) for Sonnar T* f/3.5 100mm</b>	
<b>Lens Cap 59φ (C) for Planar T* f/1.4 50mm, f/1.7 50mm, Distagon T* f/2.8 25mm, f/2.0 28mm, f/2.8 35mm, Sonnar T* f/2.8 85mm, f/2.8 135mm, S-Planar T* f/2.8 60mm, f/4.0 100mm and Vario-Sonnar T* f/3.5 40–80mm</b>	
<b>Lens Cap 70φ (C) for F-Distagon T* f/2.8 16mm, Distagon T* f/4 18mm, f/1.4 35mm, Planar T* f/1.4 85mm, f/2.0 100mm, Tele-Tessar T* f/3.5 200mm, Vario-Sonnar T* f/3.5 70–210mm and PC-Distagon T* f/2.8 35mm</b>	
<b>Lens Cap 75φ (C) for Planar T* f/2.0 135mm and Sonnar T* f/2.8 180mm</b>	
<b>Lens Cap 83.5φ (C) for Distagon T* f/3.5 15mm</b>	
<b>Lens Cap 85φ (C) for Tele-Tessar T* f/4.0 300mm</b>	
<b>Lens Cap 54φ (Y) for Yashica Lens ML f/2.8 28mm, f/2.8 35mm, f/1.4 50mm, f/1.7 50mm, f/2.0 50mm, f/2.8 55mm Macro, f/4.0 55mm Macro, f/4.0 100mm Bellows, DSB f/1.9 50mm, f/2.0 55mm and f/4 75–150mm Zoom</b>	
<b>Lens Cap 57φ (Y) for Yashica Lens ML f/1.2 55mm, f/2.8 135mm, f/3.5–4.5 42–75mm Zoom, f/4.0 80–200mm Zoom, f/3.5 100mm Macro, f/4 35–70mm Zoom and f/3.5–4.5 35–105mm Zoom</b>	
<b>Lens Cap 60φ (Y) for Yashica Lens ML f/4 200mm, f/5.6 300mm and f/5.6 100–300mm Zoom</b>	
<b>Lens Cap 65φ (Y) for Yashica Lens ML f/2.8 24mm and f/3.5 35–70mm Zoom</b>	
<b>Lens Cap 75φ (Y) for Yashica Lens ML f/2.8 15mm, f/3.5 21mm and f/3.5 28–50mm Zoom</b>	
<b>Lens Cap 80φ (Y) for Yashica Lens Reflex f/8 500mm</b>	
<b>Lens Cap 82φ (Y) for Yashica Lens ML Reflex f/8 500mm</b>	
<b>Lens Cap 108φ (Y) for Yashica Lens Reflex f/11 1000mm</b>	
<b>Lens Case No. 1 (C) for Distagon T* f/2.8 25mm, f/2.8mm, f/2.8 35mm, Planar T* f/1.4 50mm, f/1.7 50mm, Sonnar T* f/2.8 85mm and S-Planar T* f/4.0 100mm Bellows.</b>	
<b>Lens Case No. 2 (C) for F-Distagon T* f/2.8 16mm, Distagon T* f/4 18mm, f/1.4 35mm, PC-Distagon T* f/2.8 35mm, Planar T* f/1.4 85mm, f/2.0 100mm and S-Planar T* f/2.8 60mm Macro.</b>	
<b>Lens Case No. 3 (C) for Distagon T* f/2.0 28mm, Sonnar T* f/2.8 135mm and Vario-Sonnar T* f/3.5 40–80mm</b>	
<b>Lens Case No. 4 (C) for Distagon T* f/3.5 15mm</b>	
<b>Lens Case No. 5 (C) for Planar T* f/2.0 135mm, Sonnar T* f/2.8 180mm and Tele-Tessar T* f/3.5 200mm</b>	
<b>Lens Case No. 6 (C) for Tele-Tessar T* f/4.0 300mm and Vario-Sonnar T* f/3.5 70–210mm</b>	
<b>Lens Case No. 7 (C) for Tessar T* f/2.8 45mm</b>	
<b>Lens Case 70A (Y) for Yashica Lens ML f/2.8 24mm, f/2.8–28mm, f/2.8 35mm, f/1.4 50mm, f/1.7 50mm, f/2.0 50mm, f/1.2 55mm, f/2.8 55mm Macro, f/4.0 55mm Macro, f/4.0 100mm Bellows, f/3.5–4.5 42–75mm Zoom, and DSB f/1.9 50mm, f/2.0 55mm</b>	
<b>Lens Case 70A-2 (Y) for Yashica Lens ML f/2.8 135mm, f/3.5 100mm Macro and f/3.5–4.5 35–105mm Zoom</b>	
<b>Lens Case 70B-2 (Y) for Yashica Lens ML f/4.0 200mm, f/4.0 80–200mm Zoom and f/4 75–150mm Zoom</b>	
<b>Lens Case 70C (Y) for Yashica Lens ML f/5.6 300mm and f/4.0 80–200mm Zoom</b>	
<b>Lens Case 70D (Y) for Yashica Lens ML f/5.6 100–300mm</b>	
<b>Lens Case 80A (Y) for Yashica Lens ML f/2.8 15mm, f/3.5 21mm, f/3.5 28–50mm Zoom, f/3.5 35–70mm Zoom and f/4 35–70mm Zoom</b>	
<b>Lens Case 90R (Y) for Yashica Lens ML Reflex f/8 500mm</b>	
<b>Lens Case 100R (Y) for Yashica Lens Reflex f/8 500mm</b>	
<b>Lens Case 140R (Y) for Yashica Lens Reflex f/11 1000mm</b>	
<b>Shoulder Pad (C)/(Y)</b>	
<b>Shoulder Strap (C)</b>	
<b>Shoulder Strap for RTS Delux Case (C)</b>	
<b>Shoulder Strap R-25 (C)/R-25 (Wine) (C)</b>	
<b>Shoulder Strap W-50 (C)</b>	
<b>Shoulder Strap (Y)</b>	



# **Contax/Yashica 35mm Leaf Shutter Cameras**



*Enjoy the luxury of the superb camera*



- Superb Sonnar T\* 38mm lens for optical superiority
- Compact, smooth body for handling & carrying ease
- Automated Exposure system backed by Quartz timing
- Attachable electronic flash with automatic operation
- Precision finishing of all internal mechanisms

## CONTAX T

- w/CASE Price .....
- w/T14 Auto Electro Flash Price .....

### A New Elegance In Rangefinder Photography

The new Contax T is a sophisticated, elegant step into the world of 35mm rangefinder photography. The camera combines simplicity of use with functional capabilities to create a new elegance in rangefinder photography. A compact, slimline design is achieved by means of the retractable lens design, while optical quality is guaranteed thanks to a superbly sharp Carl Zeiss Sonnar T\* 38mm lens. Sophisticated electronics are packed inside the sleek camera body, providing highly accurate aperture-priority automated exposure, based on a Silicon Photo Diode metering system and a single-chip Central Processing Unit. Mechanically, the camera reaches new heights in precision finishing and sophisticated performance. Ball bearing film transport backed up by a clutch/rewind system insure smoothness and accuracy in film movement — forward or back. Contax T is the perfect answer for those requiring a personal camera that is light, compact, easy-to-use and unobtrusive, yet at the same time demand a precision tool capable of providing the highest possible photographic quality.



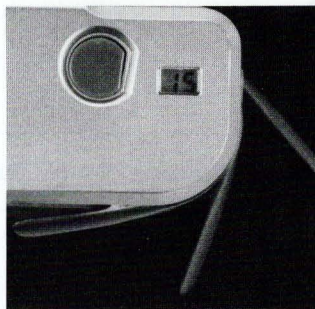


## MAJOR FEATURES:

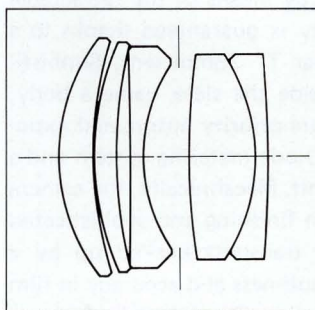
**The Camera Body** — The Contax T body cover is crafted carefully from a tough, durable metal. After precision machining, the body cover is finished in black or silver. To insure optimum compactness, while respecting the need for a precise lens-to-film distance, the designers elected to employ the retractable lens format, in which the lens slides out from the body, locking into place when the front cover is opened. When that cover closes, the Contax T presents an extraordinarily smooth and slim profile. All controls have been recessed to prevent protrusions that might snag or catch when slipping the camera in and out of pocket or bag. The film advance lever, with its smooth ratchet operation transporting the film along ball-bearing shafts, tucks away flush with the body, or stands off at a slight angle for repeat use. Film rewinds just as smoothly, thanks to a special clutch mechanism. The top deck incorporates an ISO film speed dial (with 1/3-stop intermediate settings) concentric with the rewind crank, and lock-released by button. The Self-Timer (10-second delay) is operated by a top deck switch, with indicating LED on the camera's face. Also found on the top deck is the Backlight Compensation Button, which provides a +1.5EV adjustment in exposure when pressed, to overcome backlight and insure good detail in shaded areas.

**The Zeiss Lens** — Carl Zeiss created a new T\* (Star)line lens specially for the Contax T — the Sonnar T\* f/2.8 38mm. Exceptional resolution, contrast, color balancing and even corner-to-corner illumination are just a few of the factors that make this lens so special. The famed T\* multi-coating, of course, eliminates ghost reflections for richer, fuller colors. The optical construction is of the famed Sonnar type, for compact, high-speed performance. It employs a 5-element, 4-group construction. Positioned between elements, for optimal precision, is a diaphragm built up from seven blades to attain the "roundest" possible light path. The focusing helicoid is machined with total precision, to provide absolute sharpness and focusing ease. Also reflecting the high quality of the camera/lens interface is the lens shutter, positioned behind the elements and constructed of five blades, rather than the standard two-blade shutters usually found in rangefinder cameras.

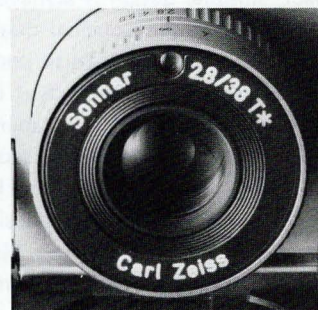
**The Kyocera Electronics** — At the heart of the Contax T is an ultra-sophisticated Central Processing Unit that handles both incoming data and functional commands. An advanced new Bi-C MOS computer chip allows the entire command system of the camera to be enclosed in a single Integrated Circuit, affixed to a flexible circuit board running under the camera's skin. Incoming analog measurements of light are converted into digital values, processed for determination of optimal exposure conditions (together with other exposure factors)



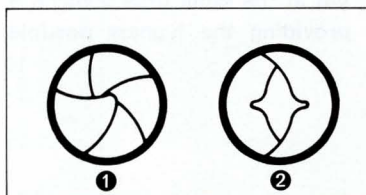
*The Single-Stroke, 120° film advance with a 10° stand-off angle.*



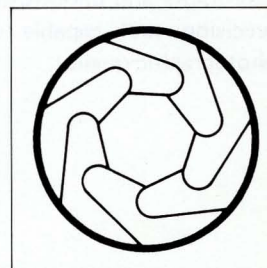
*5-element, four-lens group composition.*



*Carl Zeiss Sonnar T\* 38mm f/2.8 Lens.*

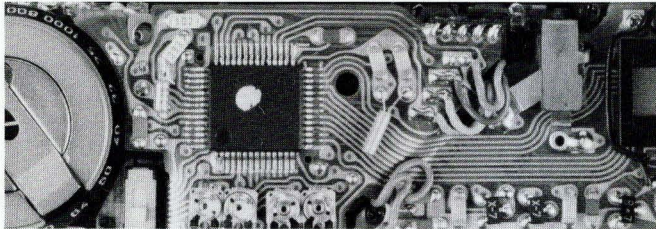


**1** The 5-blade shutter of the Contax T.  
**2** Standard 2-blade lens shutters.

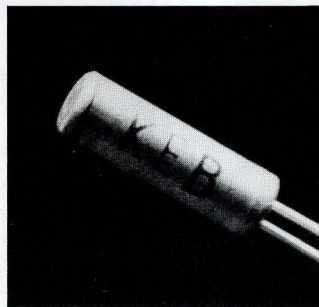


*The 7-bladed, "between elements" diaphragm.*





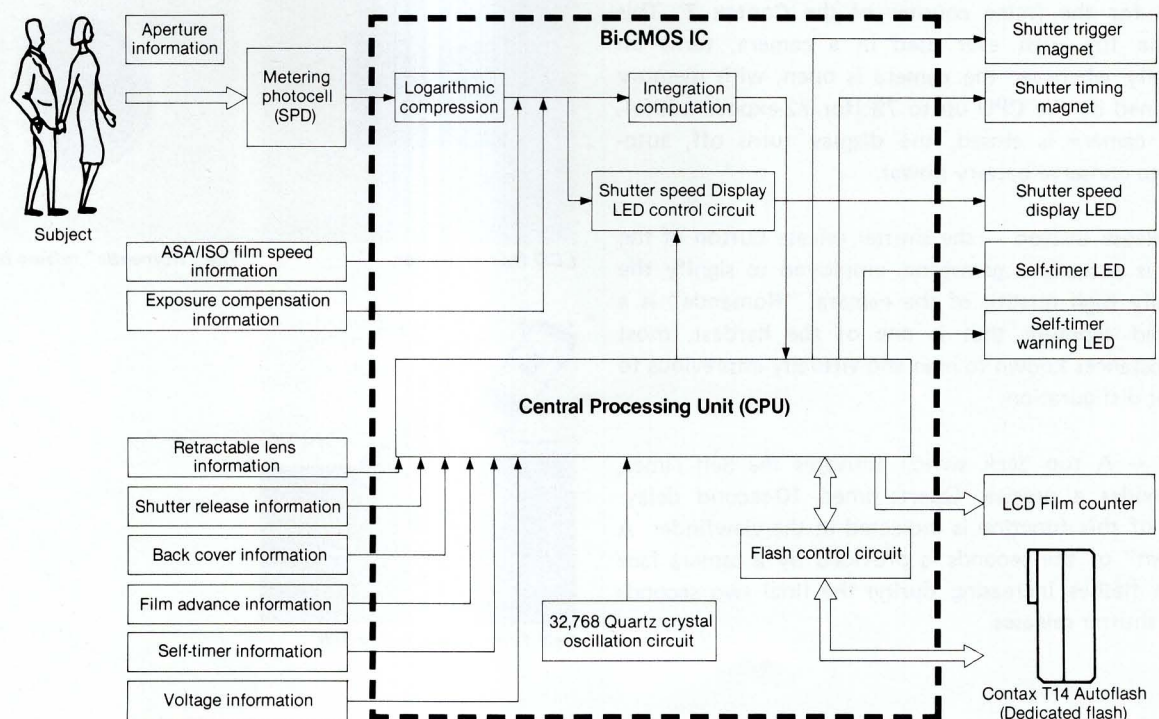
The single, Bi-C MOS Integrated Circuit on a flexible circuit board.



Quartz Crystal Element.

and then relayed back to control circuitry as operating commands. The entire process takes place in "Real Time" — the speed of light! Naturally, this kind of precision demands light measurements of the utmost accuracy. That's why the Contax T uses a Silicon Photo Diode — an extremely accurate, sensitive light metering cell — to determine just how much light is striking the main subject. This SPD reacts in Real Time to light values, providing a constant monitoring of the ambient lighting. When using the Self-Timer, for instance, there's no fear of a bad exposure because of a suddenly-appearing cloud; the camera will adjust exposure automatically. Also, the SPD allows more accurate determination of electronic flash exposures, by relaying a command to cut flash output after just enough light has been put on the subject. The SPD is mounted in a "Top-Eye" position just above the front element of the lens. Finally, Quartz accuracy insures that shutter speeds are correct and consistent, throughout the entire 8 sec. to 1/500 sec. range. This makes exposure accuracy consistent under all lighting conditions. Backlighting can be adjusted for by means of the Backlight Compensation Button (with its +1.5EV adjustment) or by changing the setting of the 1/3-stop incremental ISO film speed dial. The Central Processing Unit also controls the operation of the dedicated T14 Auto electronic flash unit, for perfect results indoors, evenings or in daylight for fill-in lighting.

## Contax T electronic control circuit block diagram





**The Viewfinder** — The compact, precise viewfinder of the Contax T is built to the same uncompromising standards that govern the rest of the camera. Construction is of high quality block glass, for optimal light transmission capability. Then, the block prism, half-mirror and other glass surfaces receive a special silver coating that completely eliminates stray reflections. This, in turn, enhances the precision of the rangefinder focusing system. The split-image adjustment is fast, easy and accurate, with the subject "snapping" into clear focus at the point of maximum sharpness. The viewfinder shows 87% of the total picture area (what will actually appear on the film) at a magnification ratio of 0.6X, and with bright, clear, easy-viewing sharpness. Various data factors are indicated by LEDs in the viewfinder, including a right-side shutter speed indication system. Three "range" LEDs indicate the shutter speeds selected by the camera's auto exposure circuitry, between 1/500 — 1/125, 1/125 — 1/30 & 1/30 — 8 sec. One more LED at the right top warns of possible over-exposure requiring use of a smaller aperture. A flickering of the shutter Speed LED indicates the T14 Auto flash unit is attached, "on" and ready for use. [Note: flash synchronization is automatic, at speeds of 1/125 and slower.] Finally, an LED at the top center lights up to indicate the Self-Timer function is still "on". The entire display lights whenever slight pressure is put on the shutter release, cutting off automatically, to conserve battery power, after 10 seconds.

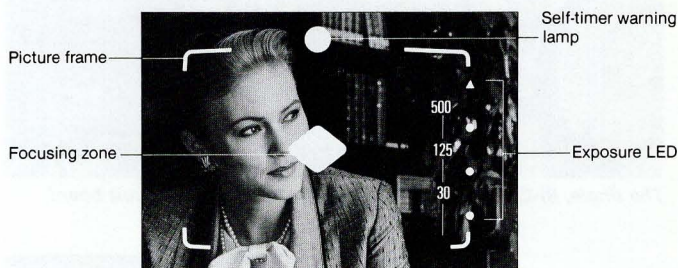
## Additional Features:

**LCD Frame Counter** — A Liquid Crystal Diode display has been used for the frame counter of the Contax T. This display, the first such ever used in a camera, turns on automatically whenever the camera is open, with memory count retained by the CPU up to 79 (for 72-exposure film). When the camera is closed, the display turns off, automatically, to conserve battery power.

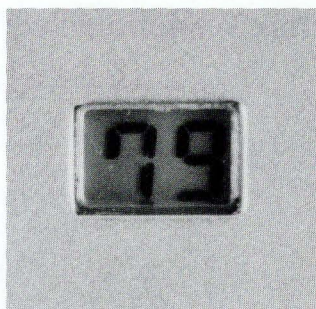
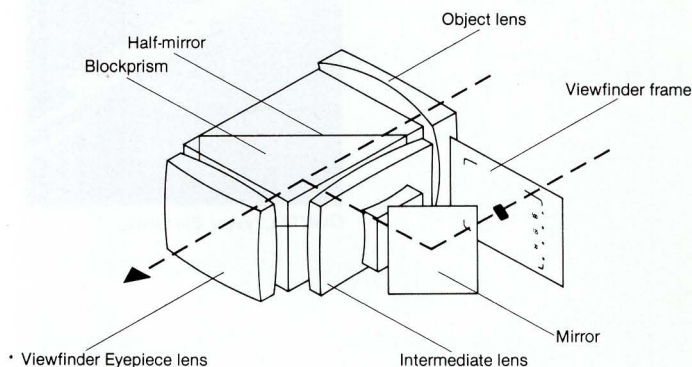
**Shutter Release Button** — the shutter release button of the Contax T is actually a gemstone, employed to signify the exceptionally high quality of the camera. "Romande" is a recrystallized sapphire that is one of the hardest, most durable substances known to man and virtually impervious to scratches or disfiguration.

**Self-Timer** — A top deck switch activates the Self-Timer, which provides a precise, Quartz-timed 10-second delay. Operation of this function is indicated in the viewfinder. A "countdown" of the seconds is provided by a camera face LED, with flashes increasing during the final two seconds before the shutter releases.

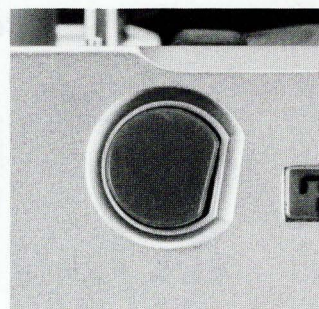
Contax T Viewfinder



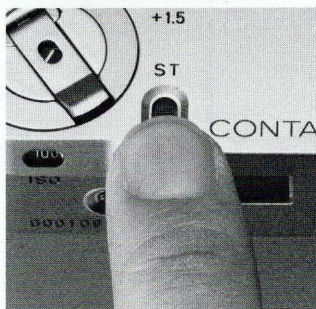
Contax T Viewfinder Mechanism



LCD frame counter.

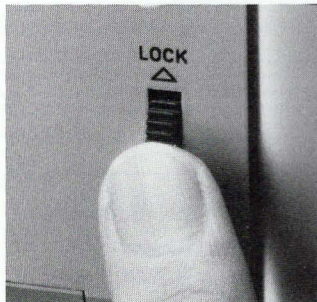


The "Romande" release button.

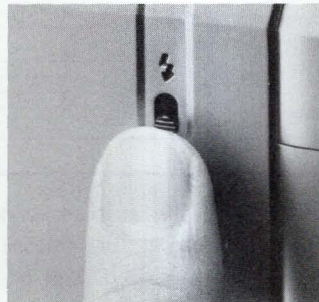


Self-Timer operating switch.

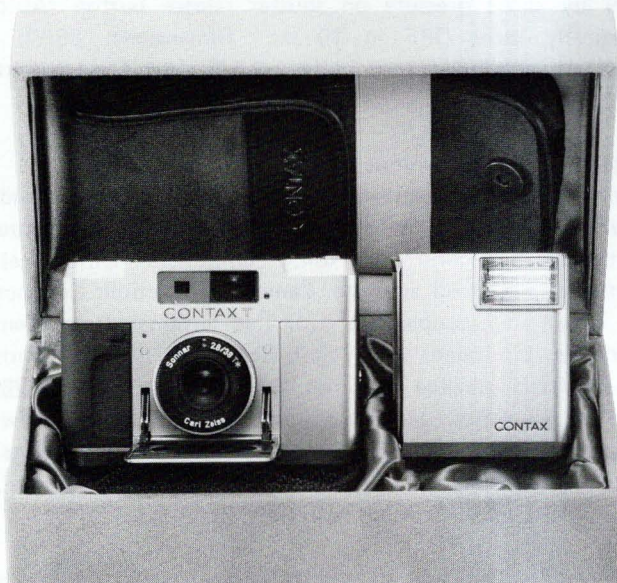




Thumb-wheel lock for T14 Auto.



On/Off button for flash use.



**Folding Front Cover** — The folding front cover of thyContax T works as a protective shield and does double duty as a master switch that turns all electronic circuitry "on" when opened. Opening the cover is made easier by a soft stand-off button on the camera face.

## CONTAX T 14 AUTO

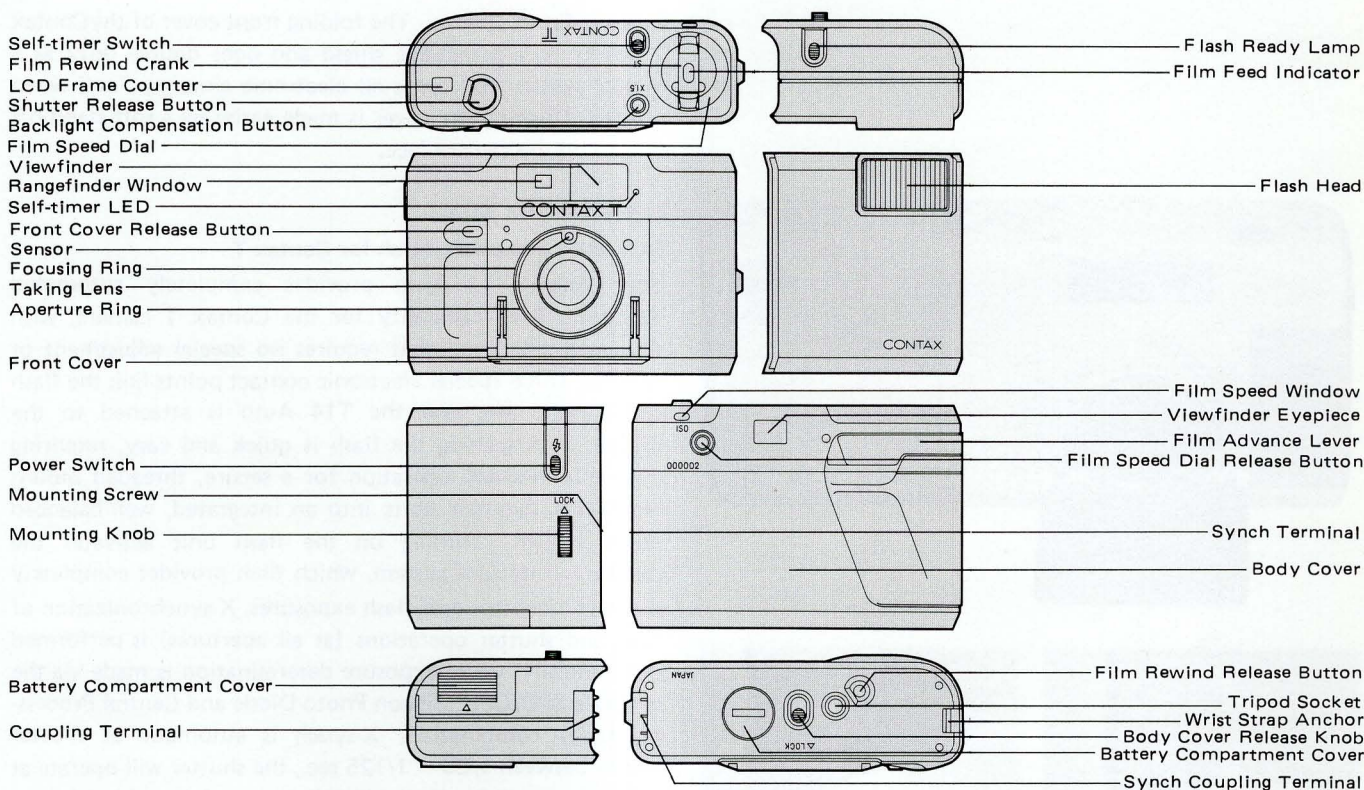
### Dedicated Electronic Flash for Contax T

The Contax T14 Auto provides completely automated electronic flash capability for the Contax T camera, with dedicated operation that requires no special adjustment or control. Three special electronic contact points link the flash and camera whenever the T14 Auto is attached to the Contax T. Attaching the flash is quick and easy, requiring only thumb-wheel operation for a secure, threaded mount that turns the two units into an integrated, well-balanced single system. Turning on the flash unit activates the electronic interface system, which then provides completely automatic control over flash exposures. X-synchronization of flash and shutter operations (at all apertures) is performed automatically, while exposure determination is made via the camera's SPD/CPU (Silicon Photo Diode and Central Processing Unit) combination. X-synch is automatic at shutter speeds between 1/30 — 1/125 sec., the shutter will operate at 1/30 automatically if ambient light speed would be slower. Ambient lighting that requires shutter speeds faster than 1/125 sec. overrides flash use; for correct non-flash exposure. Daylight fill-flash use requires aperture settings small enough to bring ambient light shutter setting to 1/125 or slower. The viewfinder LED system indicates "flashready" condition by flickering the shutter speed LED. The shift to 1/30 sec. from slower speeds, for flash X-synch, will also be displayed. Creative lighting effects can be achieved by employing the camera's exposure compensation functions in combination with the T14 Auto. The electronic flash unit operates on two 1.5V AA-size batteries, either alkaline or manganese types.





## Contax T: parts, controls & features nomenclature



### CONTAX T Specifications

**Type:** 35mm lens shutter, rangefinder camera with retracting lens and folding front cover; Quartz-timed operation; Aperture preferred Automatic exposure control. **Image size:** 24 x 36mm **Lens:** Sonnat T\* 38mm F2.8 lens (5-element, four lens group composition.) Aperture scale of 2.8 to 16. Minimum Focusing distance: 1 meter. Angular field: 61° **Shutter type:** Aperture priority AE type electromagnetic shutter (8 to 1/500 sec.) **Synch Terminal:** Synchronizes at speeds between 1/30 to 1/125 sec. shutter speeds, using dedicated T14 Auto electronic flash. **Self-timer:** Electronic type. 10 seconds delay. LED flashes during countdown (accelerating 2 seconds before shutter release). **Shutter Release:** Electromagnetic type. Recrystallized "Romande" sapphire shutter release button. **Rangefinder:** Coupled to the focusing helicoid of the lens unit. **Viewfinder:** Reverse-Galilean finder with Albada type bright picture frame. 87% of field-of-view at 0.6X magnification. **Viewfinder Display:** Picture frame, focus zone, self-timer warning lamp, 4 exposure LEDs (including overexposure warning, and T14 AUTO flashready indicator function). **Metering System:** Aperture priority AE type (with SPD cell). Metering range from EV0 to EV17. Film speed coupling range from ISO 25 to 1,000. Backlight compensation of +1.5EV. **Film Advance:** Lever type, 120 degree setting angle, 10 degree rest. **Film Rewind:** Film rewind crank. **Frame Counter:** LCD counter

registers to 79; auto resetting, additive type. **Body Cover:** Removable type, using release knob. **Power Source:** Uses two 1.55V silver-oxide (SR44) or 1.5V alkaline (LR44) batteries. **Power Switch:** Switch coupled to front cover (When switched OFF, all camera functions except LCD frame counter memory will cease). **Exposure Meter Switch:** Turned ON by slight pressure on shutter release button (Automatically turns OFF in 10 sec.) **Dimensions:** 98(W) x 66.5(H) x 32.5(D)mm (3-13/16 x 2-5/8 x 1-1/4 in.) **Weight:** 270 grams (without batteries). (9.5 ozs).

### T14 AUTO Specifications

**Type:** Dedicated electronic flash for the Contax T. **Guide Number:** 14 (ISO 100m) **Flash Control System:** Output automatically controlled using on-camera sensor cell. Synchronizes at all aperture. **Camera Connection:** Connects to camera side, coupled via dedicated terminal. **Color Temperature:** Equivalent to daylight. **Recycling Time:** 7 seconds, using fresh alkaline batteries. **Number of Flashes:** 250 flashes, using fresh alkaline batteries. **Power source:** Uses two 1.5V type AA alkaline or manganese batteries. **Dimensions:** 58(W) x 66.5(H) x 32.5(D)mm. (2-1/4 x 2-5/8 x 1-1/4 in.) **Weight:** 70 grams (without batteries). (2.5 ozs.)

\* Specifications and external features subject to change without prior notice.



# YASHICA

## YASHICA T

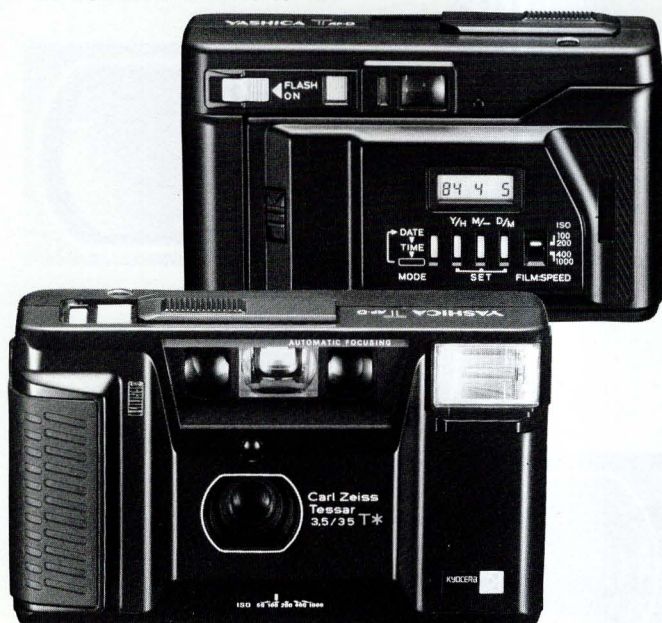
2 New "User-Friendly"  
Automatics Featuring High Quality Zeiss Lens

### YASHICA T AF



• w/case Price . . . .

### YASHICA T AF-D



• w/case Price . . . .

The new Yashica T AF & Yashica T AF-D models bring an entirely new level of sophistication to automated snapshot photography. In addition to a superbly executed "User-Friendly" design, these fully automated cameras offer exceptional image quality thanks to the use of superior Carl Zeiss optics.

Basically, the Yashica T is a fully automated camera with no-touch focusing, exposure and flash operation.

Specifications are identical for both models, excepting the data-imprinting features of the Yashica T AF-D. The striking design is both attractive and highly practical, allowing fast, easy operation and one-hand shooting. Another highly visible feature certain to attract customer attention is the Auto Lens Barrier, a protective smoked-glass lens cover that slips out of the way during exposures.

Mechanical and electronic functions incorporated in the Yashica T are of the highest sophistication and quality, far surpassing any other automatic personal camera on the market.

But by far the most significant element of the Yashica T is its use of a Carl Zeiss T\* (T-Star) lens—providing reproduction capabilities previously available only in top-of-the-line SLR equipment. Yashica T incorporates a Tessar T\* 35 mm lens that is fully equal in optical quality and reproduction to the T\* lenses available for the Contax/Yashica SLR line.

#### [Specifications]

#### YASHICA T AF

**Type:** 35 mm auto-focus, lens-shutter camera with built-in flash.

**Lens:** Carl Zeiss Tessar T\* 35 mm f/3.5 (four-element, 3-group lens composition).

**Auto Lens Barrier:** Opens only when shutter is released. Normally in closed position, serving as lens protector.

**Shutter:** Programmed electronic shutter (1/30—1/700 sec); Electromagnetic shutter release type.

**Self-Timer:** Electronic self-timer (operating time of about 10 sec.). Operating indicator: Pulsating timer LED. Cancelable during countdown.

**Exposure Control:** Programmed AE system (using SPD sensor). Metering range of EV8.5 to EV17 for ISO 100; lowlight warning by means of flash signal mark.

**Film Speed Settings:** ISO 50, 100, 200, 400 and 1000.

**Focusing:** Auto-focusing system; focusing range from 1 m to infinity; provided with Focus Lock.

**Viewfinder:** Albada-type, bright frame finder.

**Viewfinder Display:** Picture area frame (with parallax correction frame), focusing spot, focusing symbols, flash signal (low-light warning).

**Film Wind/Rewind:** Automatic by built-in motor unit, pressure-sensitive stop switch, auto rewind switch.



# YASHICA

**Film Loading:** Automatic film loading, automatic film advance to first frame.

**Exposure Counter:** Auto resetting, additive type.

**Power Consumption:** Fresh Alkaline batteries-120 24-exp. rolls of film without flash (at normal temperature).

**Built-in Flash:** Flashmatic type, guide number 9 (ISO 100 m). With ISO 400 or faster film, light output is automatically adjusted. Recycle time of about 6 sec., about 4 sec. with ISO 400 or faster. (With fresh alkaline batteries, at normal temperatures). With flash ready lamp, and daylight flash capability.

**Power Source:** Two 1.5V AA-size batteries for camera (Do not use NiCd batteries).

**Dimensions:** 124(W)×73(H)×46.5(D) mm ( $4\frac{7}{8} \times 2\frac{7}{8} \times 1\frac{3}{4}$  in.).

**Weight:** 260 g (9.2 ozs.) (without camera batteries).

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

## YASHICA T AF-D

**Auto Dating Unit:** Built-in quartz clock with liquid crystal display; automatic imprinting of date and time up to the year 2019, with a no-display/imprinting capability, and automatic correction for months with different number of days, including leap year adjustment.

**Power Source:** Two 1.5V AA-size batteries for camera (Do not use NiCd batteries.) One 3V lithium battery (CR2025) for auto dating unit.

**Dimensions:** 124(W)×73(H)×51(D) mm ( $4\frac{7}{8} \times 2\frac{7}{8} \times 2$  in.).

**Weight:** 280 g (9.9 ozs.) (without camera batteries).

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

## Auto-Focusing Carl Zeiss Lens Provides Outstanding Optical Quality

### Zeiss Tessar T\* 35 mm Lens

The personal, "snapshot" camera now, for the first time, offers lens quality fully equal to that of the finest, professional SLR photographic equipment. Yashica T AF & Yashica T AF-D come equipped with a superb Carl Zeiss T\* lens of optical quality that allows even the largest-scale reproduction of the photo without deterioration of the image.

This Zeiss Tessar T\* 35 mm lens (with an f/3.5 maximum aperture) is produced to the same rigid standards of optical quality as the famed Zeiss T\* lenses for Contax/Yashica SLR equipment. Every lens must pass a final MTF testing before winning acceptance, and only those lenses passing the test are used in production Yashica T cameras.

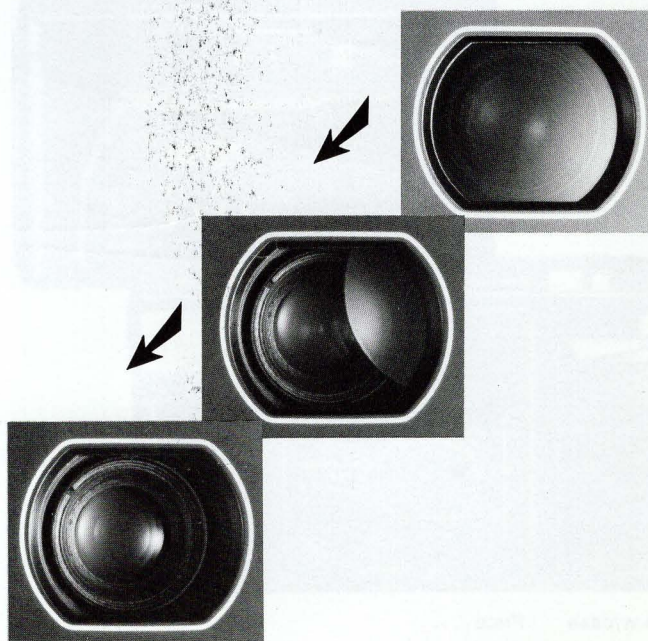
Thanks to the T\* multi-coating, the Yashica T's lens offers absolutely faithful color reproduction. This means a tremendous improvement (over other personal cameras) in color balance, skin tones and color contrast.

In addition, the T\* multi-coating virtually eliminates ghosts and flare from photos, even under strong back or side lighting, allowing the true color tones to reach full saturation for a vivid-but-natural appearance.

### Auto Lens Barrier

Protecting the Zeiss lens is one of the most innovative design features of the Yashica T—the Auto Lens Barrier. This smoked-glass screen protects the lens from dust or scratches, and provides added protection in marginal weather conditions. It remains covering the lens at all times except when an exposure is actually being made.

When the shutter release is pressed, the Barrier slides out of the way, then slides back into place as soon as the exposure is completed. Thus, the lens is guarded (as many photographers do by using skylight or UV filters) without the interfering presence of an added glass element.





# YASHICA

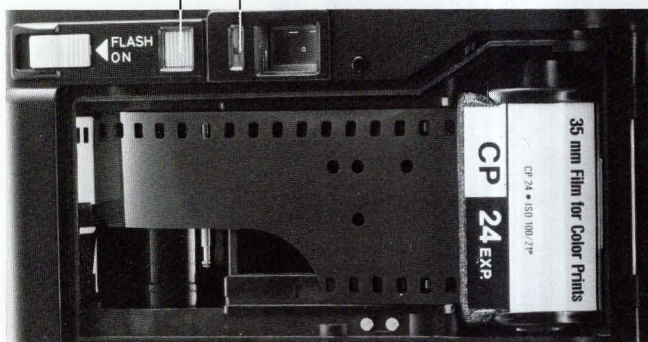


## Auto Focus

Naturally, to take fullest advantage of the high lens quality of the Yashica T, an automated focusing system of extreme accuracy was required. Thus, Yashica opted for the active infrared system. This insures pinpoint sharpness in the focusing plane under almost all conditions.

Centering the main subject within the Focus Zone marks (in the center of the viewfinder) insures a sharp focus plane. At times, however, the photographer would rather have the main subject positioned at the right or left sides. With many automatic focusing cameras this results in a blurred image. Yashica, however, continues to offer its innovative Focus Lock feature. This lets the photographer "freeze" the focus on the main subject, then re-compose the photo for a more pleasing effect. In the Yashica T, Focus Lock works simply by putting slight pressure on the shutter release button.

Flash Ready Lamp      Film Transport Signal



Film Rewind Switch "OFF"



Film Rewind Switch "ON"

## Electro-Mechanical Features Designed For Easy Operation

### Auto Film Loading & Auto Film Wind/Rewind

Just pick up the Yashica T and see how naturally it fits into the hand, and how simple operation is—even with only one hand. Naturally, every design consideration has been given to maintaining this simplicity throughout the range of operating procedures. Thus, for example, film loading has been almost completely automated: Simply slip in a film cassette and align the film leader with the red mark, close the back and press the shutter release; the film winds on automatically to Frame #1. Film wind and rewind are both fully automated, driven by a built-in motor of high reliability. To rewind a completed roll of film, just slide the rewind switch. At all times, the Film Transport Signal provides reassurance that the film is moving smoothly through the proper channel.

### Auto Exposure

In keeping with the "user-friendly" design, the Yashica T features a completely automated exposure system.

Light is measured by a Silicon Photo Diode (SPD), the most sensitive and fastest-reacting system available, with readings relayed to a micro-computer which collates exposure factors. Finally, precise shutter speeds are relayed to the electronic, programmed shutter, which operates at just the proper speed for an overall optimum exposure.

The only action required by the photographer is to set the proper film speed (ISO rating). With no other dials or switches to bother about, the photographer is free to concentrate completely on the subject, picking just the right moment to take the snapshot, and be instantly ready for a follow-up shot, as well. And, with an electronic self-timer, the shooter can be in the photo, too. The 10-second delay provides time, with a flashing LED to indicate that the self-timer is working.





# YASHICA

## Flashmatic Control

When the light gets too dim for good results, the exposure system of the Yashica T warns the photographer by lighting up the flash warning LED in the viewfinder. Then, just sliding out the built-in flash establishes a sophisticated "Flashmatic" mode in which flash output and lens aperture are automatically optimized for proper exposure according to the distance to the main subject.

Effective working range for the flash unit is from one meter to as distant as five meters (with ISO 1000 film). Flash output is adjusted in two stages, according to film sensitivity, to provide faster recycling and reduced energy expenditure with high-speed films. Energy-saving circuitry is employed for longer battery life. The built-in flash can also be effectively used for daylight fill-flash techniques, to bring out detail in shadow areas.

## Data Recording

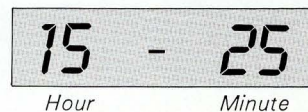


**YASHICA T AF-D**

## Simplified, Versatile Date/Time Recording

The Yashica T AF-D features a sophisticated, built-in Quartz clock/calendar function that allows the photographer to imprint Year/Month/Day or Hour/Minute information directly on the film. Or, the function can be left in No-Print mode. Data is printed on the film itself, in clear blocks at the lower right corner, via an LED within the camera. Operation of the recording function is indicated by appearance of "PRINT" in the Dating Display Window on the camera's back.

A simplified method of push button operation is used to select the mode and Data or correct the clock/calendar data. A two-position switch varies the intensity of the imprinting LCD, according to the sensitivity of the film in use. The Quartz clock/calendar function of the Data Recording unit is programmed for accurate operation up to the year 2019AD.





# YASHICA

## Total Automation Brings 'Fun' Back To Photography



**AUTO FOCUS MOTOR**

• W/Case Price .....



The new Yashica 5-Star is an exceptionally easy-to-use 35mm camera incorporating maximum automation for simplicity, reliability and accuracy. And, as a bonus, the 5-Star makes photography more pure 'fun' than it's been in a long, long time.

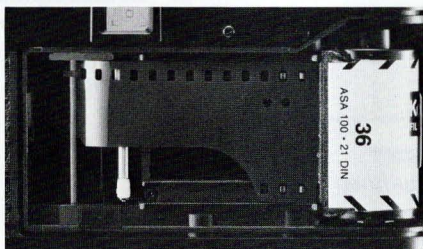
The great advantage of the 5-Star is its total automation of five key functions:

- ★ Automatic Film-Loading
- ★ Automatic Focusing
- ★ Automatic Exposure Control
- ★ Automatic Film Advance/  
Rewind
- ★ Automatic Flash  
Photography

With each of these functions completely automated, and handled by the camera itself with no action by the user, photography becomes genuinely a matter of 'Point & Shoot'. Quite literally, anyone can use the 5-Star to take great photographs — even someone who has never before handled a camera, or who hasn't the slightest idea of how to use cameras.

### ★ Auto Loading

Extremely compact, despite the many advanced features incorporated into the camera body, the 5-Star fits easily into a large pocket or carry bag and is ready for action instantly with the flip of the shutter release lock switch. Auto-loading makes the 5-Star simple to use right from the start. Just slip in a roll of film and align the film leader to the loading index mark; close the back, press the shutter release and the film automatically advances to the first exposure.



### ★ Auto Focus

Focusing is fully automated, handled electronically by the camera. The photographer just centers the subject within the focus zone marks in the viewfinder, and the 5-Star does the rest, giving sharp, crisp images at any range from 1.1 meters to infinity. For creative composition, it's possible to pre-focus on a subject, touch the

Focus Lock button to freeze focus at that point, and then recompose the photo for a more pleasing effect. With this Memory Focus Lock engaged (or immediately after every shot), a special Distance Scale tells at a glance the approximate distance the camera was focused at.

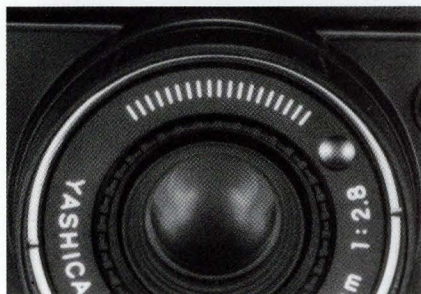




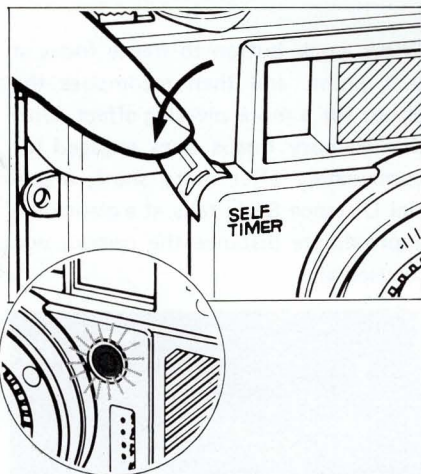
# YASHICA

## ★Auto Exposure

That first exposure, and all the rest to follow, will be perfect thanks to an accurate, sensitive SPD (Silicon Photo Diode) cell that measures light in a range from EV6 to EV17, providing accurate data to the programmed shutter for an exposure suited perfectly to the lighting conditions. The shutter works from 1/500 to 1/8 sec., and the exposure system operates with films from ASA25-400. When there's not enough natural light for good exposure, a red Low Light Warning lamp glows in the viewfinder to indicate recommended use of the Pop-Up automatic flash unit.



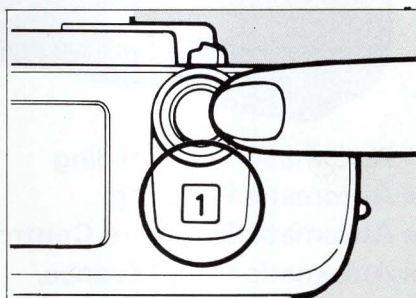
For the photographer who wants to get into the shot, there's an electronic self-timer with a 9-second delay that can be reset or cancelled, and that indicates operation with a flashing indicator on the camera front.



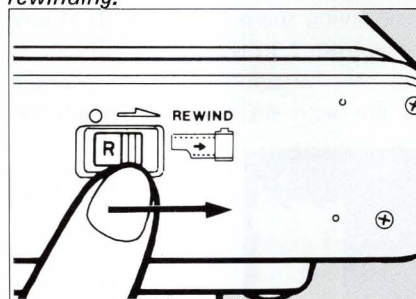
*The electronic Self-Timer provides a 9-sec. delay, with operation indicated by a flashing lamp. It can be cancelled or reset at any time.*

## ★Auto Wind/Rewind

For the occasional snapshot photographer, one of the most convenient features of the 5-Star is the Auto Wind/Rewind capability. A built-in motor advances the film and recocks the shutter after every shot. Never again will there be an embarrassed "Forgot to wind!" A special, pressure-sensitive switch cuts power at the end of a roll of film, while a red/white disc on the back cover rotates during film advance to provide manual confirmation of proper operation. And when a roll of film is finished, the photographer just flips a switch to automatically rewind film into the cassette. Frame-counting is also automatically controlled by the motor.



*The manual Film-Run indicator on the camera back gives immediate confirmation of proper film winding and rewinding.*

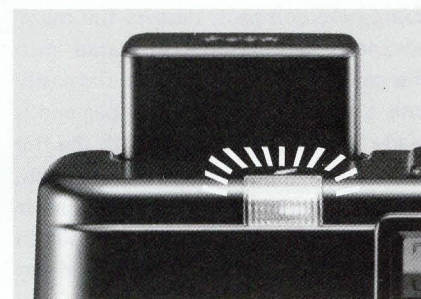
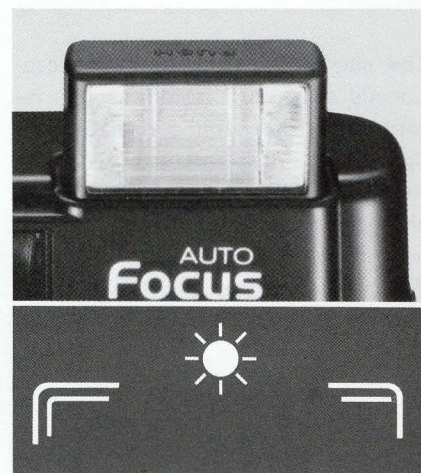


*Auto-loading is accomplished in seconds, with auto wind directly to the first frame. The frame counter advances automatically, and is reset to (0) when the film is rewound.*

## ★Auto Flash

Whenever the Low Light Warning lamp glows red, the photographer can activate the Pop-Up automatic flash unit with a quick touch, and be ready for perfect flash shots in just seconds. Flashmatic control automatically synchronizes shutter speed and sets the aperture according to focusing distance to insure absolute flash exposure accuracy.

The flash unit is rated at Guide Number 12 (ASA 100/meters) and has an Auto operating range from 1.1 to 3.5 meters. It activates automatically when popped into position, and recycles in about eight seconds. A special flash-ready indicator lamp next to the viewfinder eyepiece lights to signal that the flash unit is ready to fire.



*The red Flash Ready Lamp lights to show that the Pop-Up Auto Flash is ready to shoot.*



## Parts/Features Nomenclature

Exposure Counter

Shutter Lock Knob

Shutter Release Button

Self-timer Lever

Film Speed Control Ring

Focus Lock Button

Flash Unit

Image Detecting Windows

Viewfinder

Self-timer LED

EE Light Sensor

Distance Indicator Window

Film Speed Indicator Window

Viewfinder Eyepiece

Flash Ready Lamp

Back Cover Lock Release

Battery Compartment

Film Transport Indicator

Back Cover

Film Rewind Knob

Tripod Socket



*The convenient Fashion Case holds and protects your 5-Star Auto Focus, and includes a handy battery pocket for holding extra batteries.*

### 5-STAR Specifications:

- **Type:** 35mm programmed shutter, EE camera with built-in flash unit.
- **Lens:** Yashica f/2.8 38mm lens (4-element, 3-group composition).
- **Shutter:** Programmed electronic shutter with speeds from 1/8 to 1/500 sec.
- **Exposure Control:** SPD cell provides EV 6-17 (f/2.8, ASA100) light measurement for programmed EE control.
- **Film Speed Scale:** ASA 25-400.
- **Viewfinder:** Albada-type, direct viewfinder with 0.42X magnification; focus zone indication, parallax correction, Low Light Indicator lamp.
- **Focusing:** Fully automated in range from 1.1

meters to infinity; Focus Lock feature.

- **Film Advance/Rewind:** Automatic by built-in motor unit, pressure-sensitive stop switch, auto-rewind switch; linked directly to frame counter.
- **Film Loading:** Automatic with auto-advance to first exposure.
- **Self-Timer:** Electronic, 9-sec. delay, cancellable/resettable, operation indicated by flashing lamp.
- **Display Items:** Low Light Level indicator lamp in viewfinder; flash-ready lamp, self-timer lamp; focus Distance Scale; manual Film Run indicator
- **Frame Counter:** Auto resetting type, linked

- to motor.
- **Flash Unit:** Built-in pop-up type, GN12 (ASA100/m), auto flash with SPD flash-sensor, range 1.1–3.0 meters; daylight synch capability; recycling time approx. 8 sec.
- **Power Source:** Two 1.5V AA-size batteries (Ni-Cd not recommended); Battery check warning lamp in viewfinder.
- **Power Consumption:** Fresh alkaline batteries — approx. 30 36-exp. rolls of film without flash
- **Size:** 131 x 74 x 52mm. (5-1/8 x 2-15/16 x 2-1/6 in.)
- **Weight:** 380 grams 13.4 oz. (w/o batt.)



# YASHICA

## "5-Star" Capabilities Plus Quartz-Timed Data Recording



● w/Case Price . . . . .



- ☆ **Automatic Data Recording**
- ★ **Automatic Film-Loading**
- ★ **Automatic Focusing**
- ★ **Automatic Exposure Control**
- ★ **Automatic Film Advance/Rewind**
- ★ **Automatic Flash Photography**

This new version of the popular Yashica 5-Star Auto Focus Motor provides a built-in data back with Quartz clock function for automated data imprinting right on the film. Naturally, all five of the main automatic features of the current Auto Focus Motor are included: Automatic Film Loading, Automatic Film Wind & Rewind, Automatic Exposure, Automatic Focus and Automatic Flash. All the photographer does is

aim and press the shutter release for a perfect photo — perfectly exposed and focused — every time.

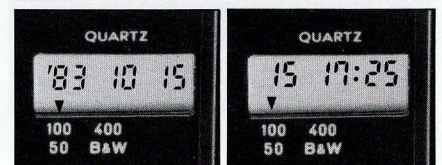
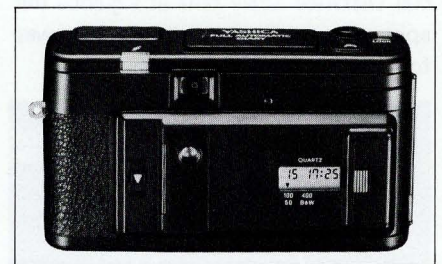
And now, to provide you with a handy date indication so you'll never need to ask just when it was you took that picture, the Auto Focus Motor-D also offers an easy, handy and fully automatic way to imprint dates or other information for a permanent reminder.

### ☆ **AUTOMATIC DATA RECORDING**

The Data back function of the Auto Focus Motor-D offers even more. Three mode operation allows selection of Year/Month/Date or Date/Hour/Minute imprinting, with guaranteed accuracy thanks to the Quartz clock calendar function. Or, the Non-Record mode can be selected. The self-corrected (until 1999) calendar and clock is accurate to within  $\pm 15$  seconds per month, and operated quickly and easily by a pushbutton rear control board.

A Liquid Crystal Diode display panel on the camera back provides a preview of the data that will be imprinted, directly on the film, by an automatic LCD that is adjustable to match ASA film ratings through a two-position switch. The data is entered in a single block at the lower right corner of the film frame.

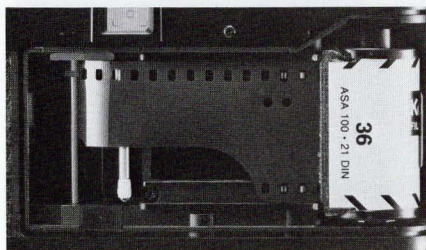
With or without the data imprinting, the Auto Focus Motor-D is the fastest, easiest and most convenient camera ever developed for high quality snapshot-style photography.





## ★ Auto Loading

Extremely compact, despite the many advanced features incorporated into the Auto Focus Motor-D body, which fits easily into a large pocket or carry bag and is ready for action instantly with the flip of the shutter release lock switch. Auto-loading makes the Auto Focus Motor-D simple to use right from the start. Just slip in a roll of film and align the film leader to the loading index mark; close the back, press the shutter release and the film automatically advances to the first exposure.



## ★ Auto Focus

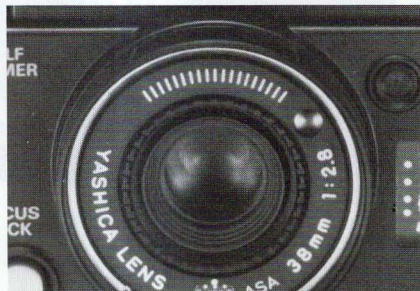
Focusing is fully automated, handled electronically by the camera. The photographer just centers the subject within the focus zone marks in the viewfinder, and the Auto Focus Motor-D does the rest, giving sharp, crisp images at any range from 1.1 meters to infinity.

For creative composition, it's possible to pre-focus on a subject, touch the Focus Lock button to freeze focus at that point, and then recompose the photo for a more pleasing effect. With this Memory Focus Lock engaged (or immediately after every shot), a special Distance Scale tells at a glance the approximate distance the camera was focused at.

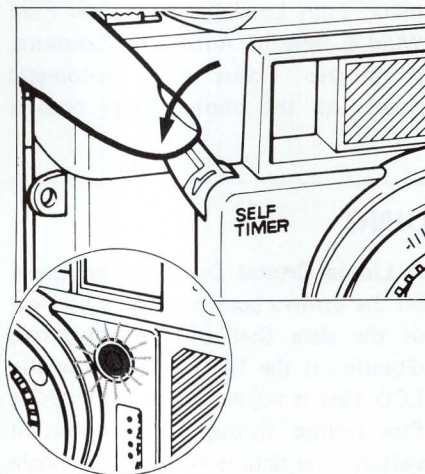


## ★ Auto Exposure

That first exposure, and all the rest to follow, will be perfect thanks to an accurate, sensitive SPD (Silicon Photo Diode) cell that measures light in a range from EV6 to EV17, providing accurate data to the programmed shutter for an exposure suited perfectly to the lighting conditions. The shutter works from 1/500 to 1/8 sec., and the exposure system operates with films from ASA25-400. When there's not enough natural light for good exposure, a red Low Light Warning lamp glows in the viewfinder to indicate recommended use of the Pop-Up automatic flash unit.



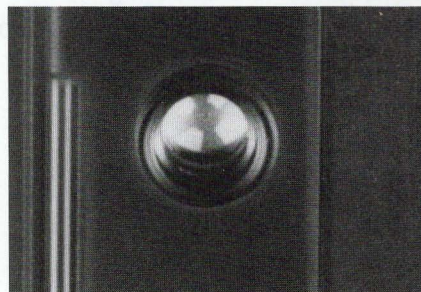
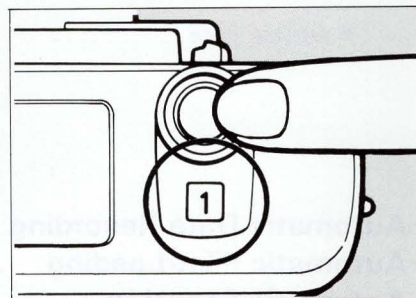
For the photographer who wants to get into the shot, there's an electronic self-timer with a 9-second delay that can be reset or cancelled, and that indicates operation with a flashing indicator on the camera front.



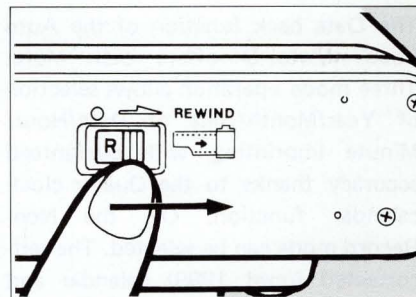
*The electronic Self-Timer provides a 9-sec. delay, with operation indicated by a flashing lamp. It can be cancelled or reset at any time.*

## ★ Auto Wind/Rewind

For the occasional snapshot photographer, one of the most convenient features of the Auto Focus Motor-D is the Auto Wind/Rewind capability. A built-in motor advances the film and recocks the shutter after every shot. Never again will there be an embarrassed "Forgot to wind!" A special, pressure-sensitive switch cuts power at the end of a roll of film, while a red/white disc on the back cover rotates during film advance to provide manual confirmation of proper operation. And when a roll of film is finished, the photographer just flips a switch to automatically rewind film into the cassette. Frame-counting is also automatically controlled by the motor.



*The Film-Run indicator on the camera back gives immediate confirmation of proper film winding and rewinding.*



*Auto-loading is accomplished in seconds, with auto wind directly to the first frame. The frame counter advances automatically, and is reset to (0) when the film is rewound.*

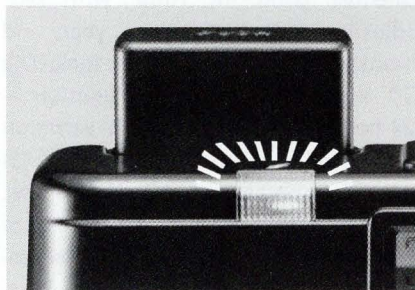
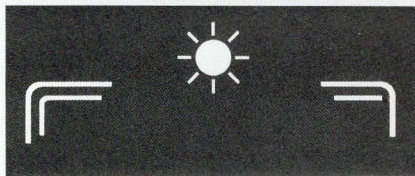
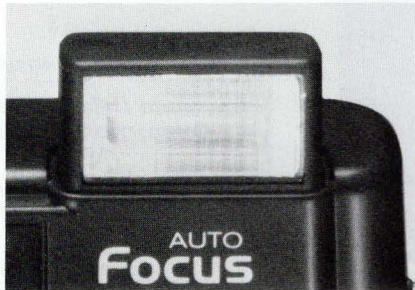


## ★ Auto Flash

Whenever the Low Light Warning lamp glows red, the photographer can activate the Pop-Up automatic flash unit with a quick touch, and be ready for perfect flash shots in just seconds.

Flashmatic control automatically synchronizes shutter speed and sets the aperture according to focusing distance to insure absolute flash exposure accuracy.

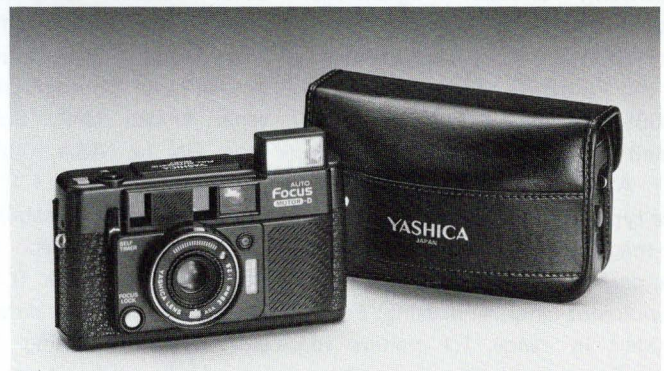
The flash unit is rated at Guide Number 12 (ASA 100/meters) and has an Auto operating range from 1.1 to 3.5 meters. It activates automatically when popped into position, and recycles in about eight seconds. A special flash-ready indicator lamp next to the viewfinder eyepiece lights to signal that the flash unit is ready to fire.



*The red Flash Ready Lamp lights to show that the Pop-Up Auto Flash is ready to shoot.*



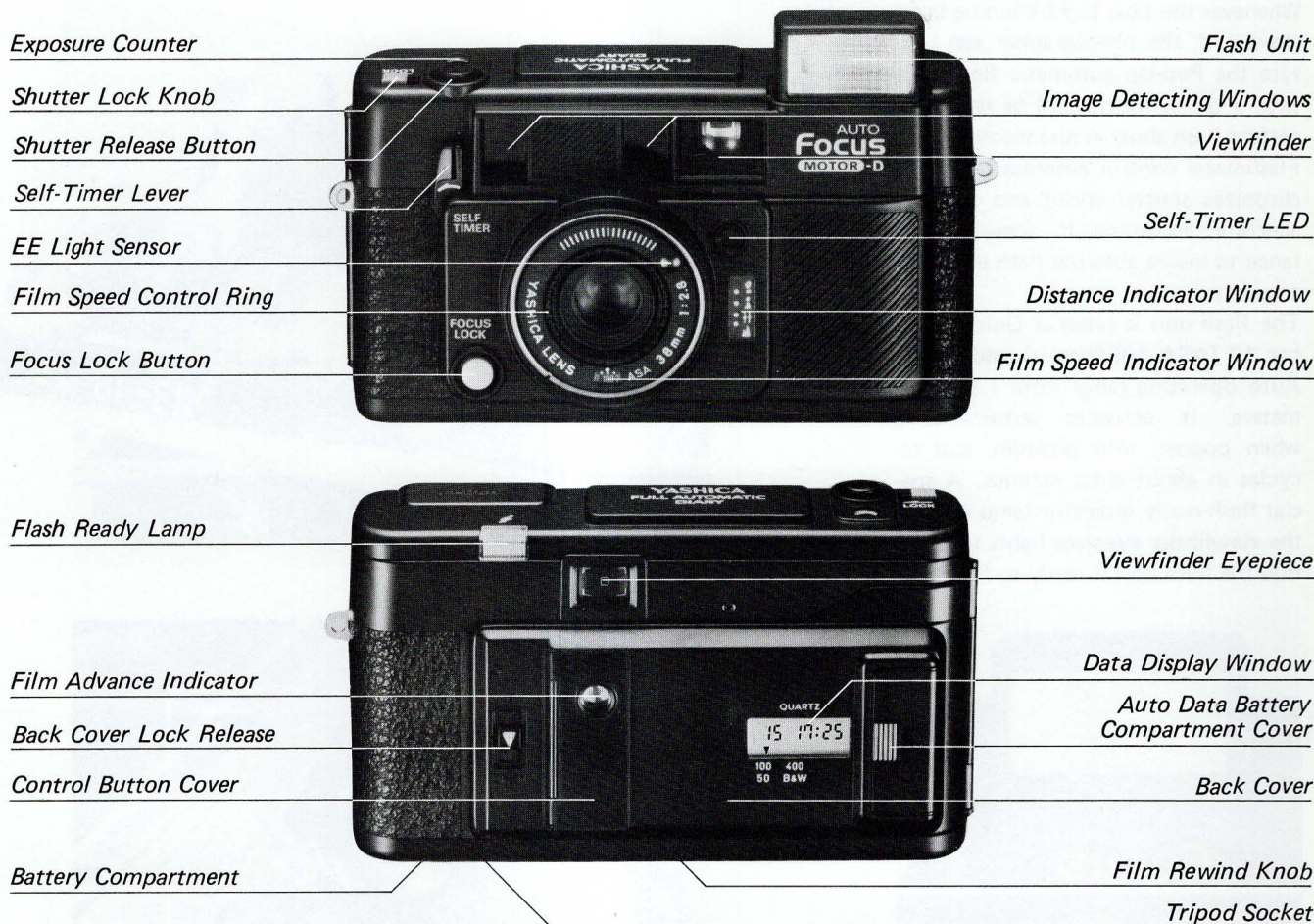
*Just frame the subject in the Focus Zone center of the viewfinder for perfect focus every time.*



*The convenient Fashion Case holds and protects your Auto Focus Motor-D.*



## Parts/Features Nomenclature



## Auto Focus Motor-D Specifications:

●**Type:** 35mm programmed shutter with built-in flash unit. ●**Lens:** Yashica f/2.8 38mm lens (4-element, 3-group composition). ●**Shutter:** Programmed electronic shutter with speeds from 1/8 to 1/500 sec. ●**Exposure Control:** SPD cell provides EV6-17 (f/2.8, ASA100) light measurement for programmed EE control. ●**Film Speed Scale:** ASA 25-400. ●**Viewfinder:** Albada-type, direct viewfinder with 0.42x magnification; focus zone indication, parallax correction frame, Low Light indicator lamp. ●**Focusing:** Fully automated in range 1.1 meters to infinity; Focus Lock features. ●**Film Advance/Rewind:** Automatic by built-in motor unit, pressure-sensitive stop switch, auto rewind switch. ●**Film Loading:** Automatic with auto-advance to first exposure. ●**Self-Timer:**

Electronic, 9-sec. delay, cancellable/restable, operation indicated by flashing LED. ●**Display Items:** Low Light Level indicator lamp in viewfinder, flash ready lamp, self-timer lamp, focus Distance Scale, Film Run Indicator. ●**Frame Counter:** Auto resetting type. ●**Flash Unit:** Built-in pop-up type, GN 12 (ASA 100/meters), auto flash circuitry, range 1.1 – 3.0 meters; daylight synch capability; recycling time approx. 8 sec. ●**Data Back:** Seven-segment LCD (Liquid Crystal Diode) projection data back with built-in Quartz timing device; Operation Modes Year/Month/Date, Date/Hour/Minute and Non-record mode are settable; Data Location lower right corner of frame; ASA Selection, two-step adjustment; Operation Check, Time check and auto battery/operation

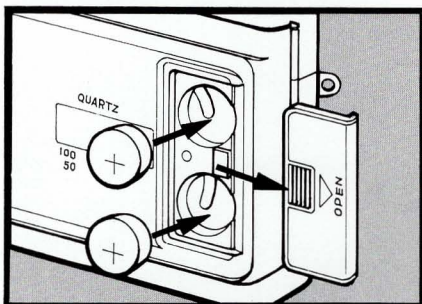
check; Calendar function – with calendar good till 1999, with self-adjusting feature for leap year, and months with different days including 30 and 31 days. Clock Function – 24-hour basis display, with variation within ±15 seconds per month (at normal temperature). ●**Power Source:** Camera batteries: Two 1.5V AA-size batteries (Ni-Cd batteries not recommended). Low light indicator lamp also acts as battery check. Data Back batteries: Two 1.55 silver oxide batteries (SR44) or 1.5V alkaline batteries (LR44). ●**Size:** 131(W) x 75(H) x 58(D) mm (5-1/8 x 2-15/16 x 2-1/4 in) ●**Weight:** 390g 13.7oz (w/Data Back batteries, w/o camera batteries) ●**Filter size:** 40.5mm screw-in type.



## Battery Installation

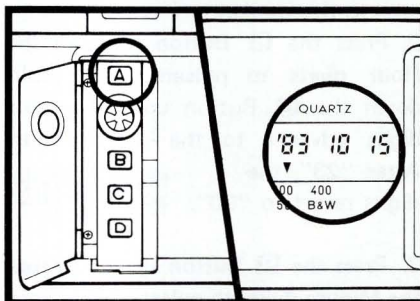
The first step in using the new AFM-D is to install batteries. The two 1.5V AA-size batteries that power the camera slip into the baseplate battery chamber, just as with the standard AFM. Separate batteries (two 1.55V silver-oxide [SR44] or 1.5V alkaline [LR44]) are required for the dating device. These are inserted in the special compartment on the back cover, to the right of the display LCD. They must be installed with the positive (+) terminal facing outward.

After the batteries are installed, the LCD display window will indicate January 1, 1981 with the code "'81 1. 1'". The date must then be reset to the correct date (See 'Imprinting Mode').

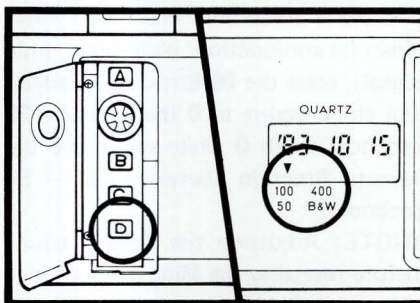


## Imprinting Mode

**1. Selecting the Imprinting Mode:** Each time the **A** Button is pressed, the Imprinting Mode changes in sequence to the next mode. The order of modes is **DATE** → **TIME** → **NON-IMPRINT**. Data in effect for that mode will be shown by the LCD Display Window.



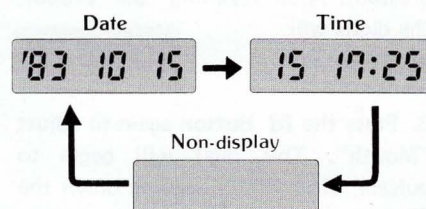
**2. Selecting Imprinting Intensity:** Each time the **D** Button is pressed, the device switches to the alternate imprinting intensity, shown in the LCD Display by an arrow at the "'100 50'" or "'400 B&W'" marks. For color film rated at up to ASA 200, set the device for "'100 50'"; for color film rated higher than ASA 200, or for all B&W films, set the device for "'400 B&W'".



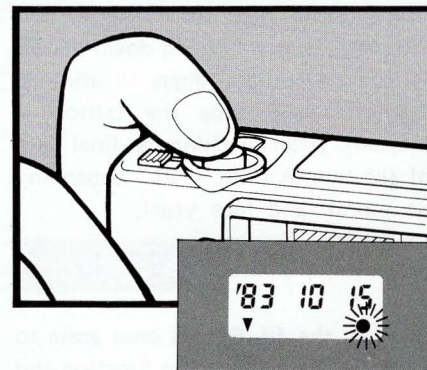
## 3. Display Window Indications:

"DATE" indication is provided by the pulsating quotation mark (also imprinted on film) preceding the year. Display order is 'Year - Month - Date' as "'83 10. 15'". "TIME" indication is provided by the colon (also imprinted on film) between the hour and minute digits. Display order is 'Date - Hour - Minute' as "'15 17:25'". "NON-IMPRINT" mode is indicated by a blank LCD display. Be sure to select this mode before shooting if data is not desired on the film.

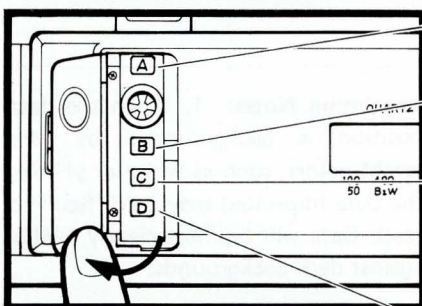
< Display Window >



**4. Operation/Display:** An imprint confirmation mark appears in the LCD Display Window for about one second after shutter release, to indicate that the displayed data was imprinted on the film.



## Control Buttons



Opening the folding control panel cover reveals four control buttons which operate the dating device.

The **A** Button selects the imprinting mode. 'Date', 'Time', 'Non-Imprint' are selected by pressing this button.

The **B** Button selects which digit or set of digits is to be adjusted, according to the imprinting mode in operation.

The **C** Button resets those digits indicated by pulsation of the LCD. Each time the button is pressed, the digit advances to the next sequential number; continuous pressing of the button advances the digit sequence.

The **D** Button selects the intensity of imprinting, according to the sensitivity (ASA) of the film in use.

• In addition to its use in resetting digits, the **C** Button can be employed to display the time mode in operation by pressing it at any time.



## Date Selection

The following steps are required in setting or resetting dates. (October 15, 1983 is used for example purpose.)

1. Select the "DATE" mode for Year-Month-Date by pressing the **A** Button until this mode is shown in the display window.

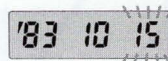
2. Press the **B** Button to adjust "Year". This digit will begin to pulsate, after which holding down the **C** Button causes the year digits to advance (by one each time the button is pressed). After reaching "99" (1999), the digits will revert to "00".



3. Press the **B** Button again to adjust "Month". This digit will begin to pulsate, after which holding down the **C** Button causes the digits to advance (by one each time the button is pressed). After reaching "12" (December), the digits will revert to "1".



4. Press the **B** Button again to adjust "Date". This digit will begin to pulsate, after which holding down the **C** Button causes the digits to advance (by one each time the button is pressed). After reaching the final date of the month ("28 - 31" depending on month and leap year), the digits will revert to "1".



5. Press the **B** Button once again to clear the data adjustment function and return to the data imprinting mode.

## Time Selection

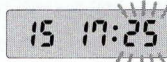
The following steps are required in setting or resetting times. (17:25 hours [5:25 p.m.] is used for example purpose.)

1. Depress the **A** Button until the "TIME" mode for Date-Hour-Minute is in effect. (NOTE: "Date" cannot be reset in this mode.)

2. Press the **B** Button to cause the Hour digits to pulsate. Then hold down the **C** Button until the hour digits advance to the proper hour. After "23", the digits revert to "00".



3. Press the **B** Button again to cause the Minute digits to pulsate. Then hold down the **C** Button to advance the digits to the proper minute. After "59" the digits revert to "00".



4. Although seconds are not displayed or imprinted, the dating device can be automatically readjusted to exact time. After resetting the "Minute" digits, press the **B** Button to cause the colon(:) separating hour and minute digits to pulsate at a faster rate. Then (in conjunction with radio time signal), press the **C** Button to readjust the clock count to 0 (between 1 - 29 seconds) or to 0 while advancing the Minute function (between 30 - 59 seconds).

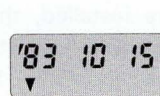
(NOTE: Adjusting the Second count before resetting the Minute function is recommended.)

5. Press the **B** Button once more to clear the data adjustment function and return to the data imprinting mode.

## Battery Power Indication

Battery power check is automatic with the AFM-D. When batteries weaken, the entire LCD Display Window will begin to pulsate slowly, indicating that batteries should be replaced. This should be done promptly, to prevent failure of the imprinting function, or imprinting of inaccurate data.

The Quartz clock of the dating device stops when batteries are removed for replacement, so that the calendar and time displays must be reset after new batteries are installed.



Using good batteries



Using weak batteries

**Battery Notes:** 1. The dating device will not operate if batteries are installed in reverse polarity. Be sure the positive (+) terminal faces outward when replacing batteries.

2. Extreme cold reduces battery performance and may cause problems with the auto dating function. Protect camera from extreme cold during winter months and in cold climates.

**LCD Display Notes:** 1. Exposure to high temperatures (beach, parked car) may reduce the legibility of the display data. This will correct itself after the camera is restored to normal temperatures.

2. The LCD display has a normal life expectancy of five to six years, after which it may become difficult to read. Yashica Service Centers will deal with this problem.

**Imprinting Notes:** 1. When the data position is backgrounded by very bright colors, such as white or yellow, the data imprinted may be difficult to read. Data will be most clearly legible against dark backgrounds.



## Spot-On Focusing... Automatic With Every Shot

### YASHICA PartnerAF



• w/Case Price . . . . .

The Partner AF makes it easier-than-ever to take the kind of snapshots the average person wants...of family, friends and fun!

Small enough to fit into a pocket or purse, the Partner AF gives outstanding performance (which even the beginner wants) without all the fuss and bother (which even the expert hates).

With the Partner AF it's just this simple: slide back the lens cover, thumb the film advance forward, press the shutter release. That's all anyone has to do to get a perfect shot under any conditions.

Focusing is, of course, completely automatic (with the special and unique Yashica Focus Lock feature that lets the creative snapshooter have a bit more fun). Exposures are always perfect, with a built-in auto flash for evening, indoors or daylight fill-in use.

### Basic Features

**Type:** 35 mm auto-focus, lens-shutter camera with built-in Flash Unit. **Lens:** Yashica Lens 35 mm f/3.5; 4-element, 3-group lens composition. **Shutter:** Programmed electronic shutter; Electromagnetic release. **Exposure Control:** Programmed AE system; Fully automatic via CdS sensor. Coupling range...EV9.5 to EV16 for ISO 100. The Flash Signal turns on and the shutter locks in low light. **Film Speed Setting:** ISO 100, 200, 400 and 1000. **Focusing:** Auto focusing system; focusing range from 1 m to infinity; provided with Focus Lock capability. **Viewfinder:** Albada-type, bright-frame finder. **Viewfinder Display:** Picture Area Frame (with parallax correction mark), Focusing Spot, Focusing Lamp (LED), Flash Signal (low-light warning). **Film Advance:** Film Advance Wheel. **Film Rewind:** Film Rewind Crank. **Film Loading:** With provision to advance the film until the first frame "1" appears in the Exposure Counter. **Exposure Counter:** Automatic reset, additive type. **Built-in Flash:** Slide type, guide number 12 (ISO 100.m); Flashmatic range 1 to 3.5 meters. Flash Ready Lamp; daylight flash capability. Recycle time...about 8 sec. with fresh alkaline batteries (at normal temperature). **Lens Cover:** Slide type; shutter locks with Lens Cover closed. **Power Source:** Two 1.5 V AA-size batteries for camera (Do not use nickel-cadmium batteries) **Dimensions:** 128(W) x 75(H) x 45.5(D) mm. (5 x 2-15/16 x 1-13/16 in.) **Weight:** 240 g (8.5 ozs.) (without camera batteries).



# YASHICA

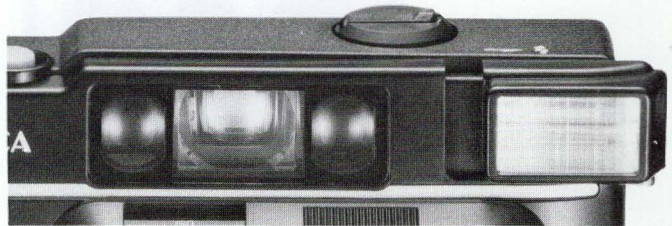
## Auto Focusing:

An active infrared auto-focus module insures sharp focusing, even for scenes of very low contrast. Centering the subject in the viewfinder's focus zone is all it takes. Or, use the Focus Lock feature to lock-in focus on the main subject, then adjust composition for a better effect. The result is a sharp, crisp snapshot, every time.



## Auto Flash:

The built-in electronic flash unit makes it quick and simple to take flash photos. Just slide the flash unit out, and it immediately begins to re-cycle. Automatic flash/exposure adjustment takes care of exposure, even when the flash is used to fill-in shadow details in daylight shots. In dim light, a flash warning lamp tells the photographer to turn the unit on.



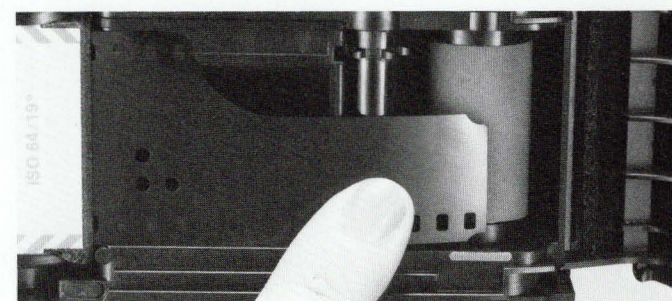
## Automated Exposure:

Exposure settings are performed automatically by the Partner AF. All the photographer has to do is adjust the film speed selector to the proper ASA/ISO setting. After that it's all done automatically by a sophisticated system that makes certain just the right amount of light comes through the lens.

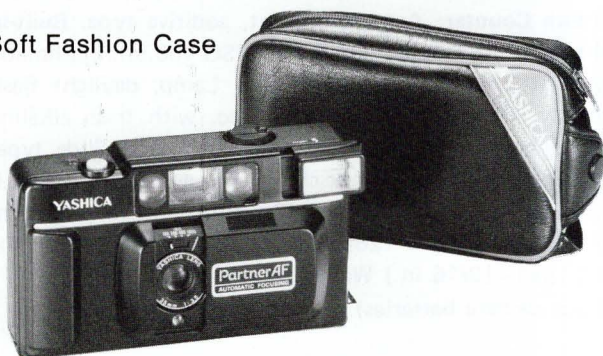


## Convenient Features:

The Partner AF makes photographs easy in a lot of small ways, like the handy thumb-wheel film advance that is quick, compact and natural. And, when one roll of film is finished, Partner AF makes it faster and easier to change film thanks to an easy-loading system that features direct wind-on to the first frame. A smooth, positive shutter release button helps prevent camera shake, while the special lens cover doubles as a locking system that stops accidental exposure of the film.



## Soft Fashion Case





# YASHICA

## Automatic Convenience With Date/Time Imprint

### YASHICA Partner AF-D

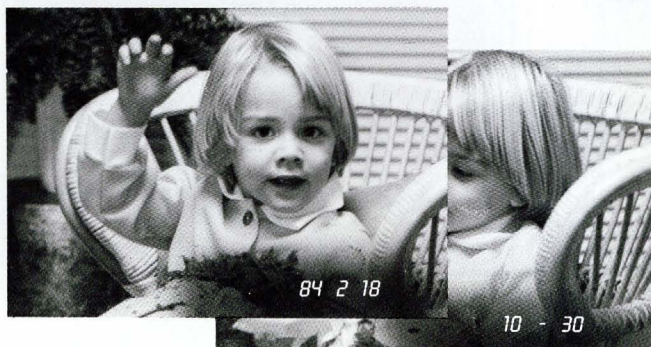


• w/Case Price . . . . .

A perfect snapshot camera for those "never forget" memories...the Yashica Partner AF-D offers a completely automated, simple-to-use camera complete with its own built-in Quartz clock/calendar function.

Just by pressing a few buttons, the Partner AF-D can be set up to print Year/Month/Day or Hour/Minute information right on the film. Or, the camera can be set in the "No Print" mode if coding is not desired. The data imprinting is automatic, in neat blocks at the lower right corner of the film frame.

In addition to this outstanding feature, the Partner AF-D makes certain every snapshot will be perfect, with automated focus, exposure and flash. The automatic focusing feature is highly accurate, thanks to its active infrared system. CdS light metering guarantees exposure accuracy, with the auto flash on hand for indoor, evening or daytime fill-flash shots. Compact, light and easy to operate, the Partner AF-D even has a handy sliding lens cover that can't get lost and also works as a lock to prevent accidental exposures.



### Basic Features

**Type:** 35 mm auto-focus, lens-shutter camera with built-in Flash Unit. **Lens:** Yashica Lens 35 mm f/3.5; 4-element, 3-group lens composition. **Shutter:** Programmed electronic shutter; Electromagnetic release. **Exposure Control:** Programmed AE system; Fully automatic via CdS sensor. Coupling range...EV9.5 to EV16 for ISO 100. The Flash Signal turns on and the shutter locks in low light. **Film Speed Setting:** ISO 100, 200, 400 and 1000. **Focusing:** Auto focusing system; focusing range from 1 m to infinity; provided with Focus Lock capability. **Viewfinder:** Albadatype, bright-frame finder. **Viewfinder Display:** Picture Area Frame (with parallax correction mark), Focusing Spot, Focusing Lamp (LED), Flash Signal (low-light warning). **Film Advance:** Film Advance Wheel. **Film Rewind:** Film Rewind Crank. **Film Loading:** With provision to advance the film until the first frame "1" appears in the Exposure Counter. **Exposure Counter:** Automatic reset, additive type. **Built-in Flash:** Slide type, guide number 12 (ISO 100.m); Flashmatic range 1 to 3.5 meters. Flash Ready Lamp; daylight flash capability. Recycle time...about 8 sec. with fresh alkaline batteries (at normal temperature). **Lens Cover:** Slide type; shutter locks with Lens Cover closed. **Auto Dating Unit:** Built-in quartz clock with liquid crystal display; automatic imprinting of date and time up to the year 2019 (automatic correction of leap year); display modes: date/time/no display. **Power Source:** Two 1.5 V AA-size batteries for camera (Do not use nickel-cadmium batteries); one 3 V lithium battery CR2025 for auto dating unit. **Dimensions:** 128(W) x 74(H) x 50.5(D) mm. (5 x 2 - 15/16 x 2 in.) **Weight:** 260 g (9.2 ozs.) (without camera batteries, but including battery for auto dating unit).



# YASHICA

## Quartz Clock/Calendar:

Push-button operation makes this convenient date/time imprinting device extremely easy to use. Just look at the Liquid Crystal Diode display window on the back of the camera, which will show either the year/month/day or hour/minute coding, or a blank. Press the Mode Switching Button to change modes, and use the three setting buttons to correct the data coding. The blank mode means no data will be printed on the film. The ISO film speed rating should be properly set to adjust the intensity of the imprint.

## Auto Focusing:

An active infrared auto-focus module insures sharp focusing, even for scenes of very low contrast. Centering the subject in the viewfinder's focus zone is all it takes. Or, use the Focus Lock feature to lock-in focus on the main subject, then adjust composition for a better effect. The result is a sharp, crisp snapshot, every time.

## Auto Exposure/Flash:

A very sensitive CdS metering cell measures light for the Partner AF-D, to let its sophisticated computer brain decide exposures. The results are spot-on for every shot, with a dim light warning lamp to hint that it's time to turn on the convenient, built-in slide-out electronic flash.

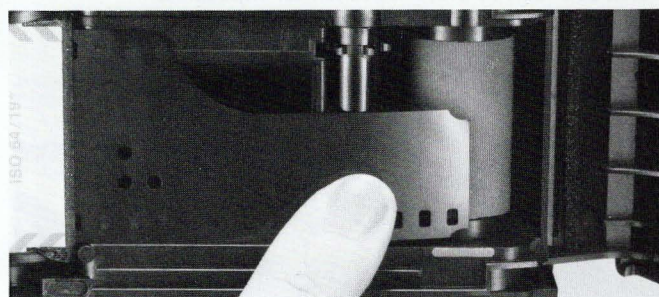
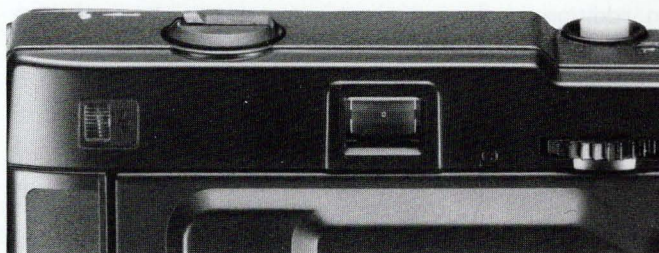
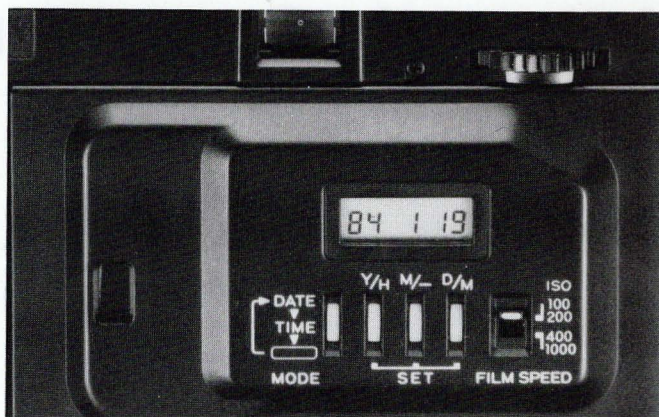
## Convenient Features:

The Partner AF-D makes photographs easy in a lot of small ways, like the handy thumb-wheel film advance that is quick, compact and natural. And, when one roll of film is finished, Partner AF-D makes it faster and easier to change film thanks to an easy-loading system that features direct wind-on to the first frame. A smooth, positive shutter release button helps prevent camera shake, while the special lens cover doubles as a locking system that stops accidental exposure of the film.

## Soft Fashion Case



Clock/Calendar Display Window





## YASHICA *Partner*



• w/Case Price . . . . .

### Fast, Easy Photos With Flip-Open Elegance Wherever You Go

The new Yashica Partner is one of the simplest, easiest-to-operate cameras ever available for the traveling, fun-loving photographer. Extremely small and light, the Yashica Partner fits right into your pocket and is ready for action in seconds. Just flip down the lens cover and you've got a classic looking 35mm leaf shutter camera offering the advantages of fixed focus and weather-symbol exposure control.

Just select the weather symbol appropriate to your conditions, point and shoot. Focus is accurate within a range from 1.5 meters (5 ft.) to infinity, and the f/4 38 mm Yashica lens (which retracts when the cover is closed) provides outstanding sharpness and clarity.

There's no fear of accidentally tripping the shutter, since the flip-open cover also operates as an automatic shutter lock. After each shot, a unique film advance wheel, operated quickly by thumb, brings on a fresh frame and activates the shutter mechanism again.

Built-in flash takes care of indoor or evening shots, activated by a simple lever whenever the low-light warning lamp in the viewfinder tells you flash is required. Flash power lets you shoot accurately in a range from 1.2 to 4 meters (3.6 – 12 ft.), at intervals of only about seven seconds.

For cost-performance that can't be beat, at a price even the most budget-conscious photographer will love, Yashica's user-friendly new Partner is the obvious choice.

#### Specifications

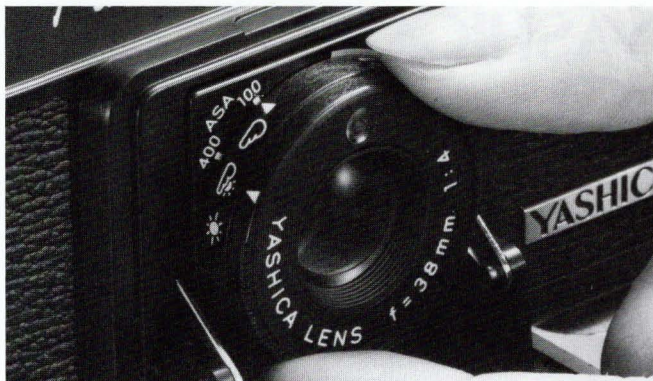
- **Type:** 35mm leaf shutter camera with built-in flash.
- **Lens:** Yashica Lens 38mm f/4; 3 elements in 3 groups composition; fixed focus; focusing range 1.5 m (5 ft) to infinity; lens retracts when front cover is folded.
- **Shutter:** Mechanical leaf shutter; operates at 1/125 sec.; shutter button is locked when front cover is folded.
- **Apertures:** Apertures (f/4 – 19) selected by exposure symbols.
- **Exposure Warning Signal:** "Top Eye" CdS sensor takes light reading, low-light indicator LED lights in viewfinder when ambient light is insufficient for normal exposure.
- **ASA (ISO) setting:** ASA (ISO) 100/400
- **Film Advance:** Knurled thumb-operated film advance wheel.
- **Viewfinder:** Magnification 0.5 X, Low-light indicator LED.
- **Exposure Counter:** Auto-resetting, additive type.
- **Built-in flash:** Electronic flash with guide number approx. 12 (ASA 100 in meters); flash range 1.2m (3.6 ft) to 4m (12 ft) at ASA 100; recycle time in 7 sec. and 360 flashes with fresh two 1.5 V AA-size alkaline batteries.
- **Power Source:** Two 1.5 V AA-size batteries.
- **Dimensions and Weight:** 118 x 70 x 43 mm (4-5/8 x 2-3/4 x 1-11/16 in.), 185 grams without batteries. (6.5 ozs.)



# YASHICA

## Exposure Controls Anyone Can Operate

The Partner makes it easier than ever to set the camera for accurate exposures. First set the proper film speed (ASA 100 or 400), then take a look at the weather and set the weather-symbol ring around the lens for the appropriate mark: sunny, partly-cloudy, cloudy. This sets the proper aperture to provide good exposures at the Partner's fixed 1/125 sec. shutter speed — fast enough, by the way, to freeze the action for interesting shots.



*By setting the proper ASA film speed and the appropriate weather-symbol mark, the Partner can be adjusted for accurate exposures quickly and easily. The "Top-Eye" CdS sensor activates a viewfinder low-light indicator when flash use is required.*

## 'User-Friendly' Features For Easier Photos

The Partner doesn't make this more difficult or confusing by providing a lot of controls not required for good snapshots. Just the bare minimum of operations necessary to give you what you want. A flash On/Off lever, thumb-operated film advance wheel, optical viewfinder with low-light LED warning and the shutter release button. You aim and shoot, and that's all! If there's not enough light, the Partner signals you to flip on the flash to keep shooting in dim light situations.



Flash On/Off switch

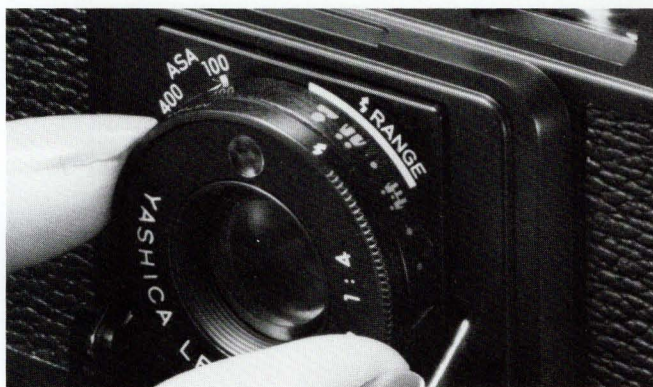
Viewfinder eyepiece

Shutter release button

Film advance wheel

## Perfect Flash Photos At Your Fingertip

When you flip on the flash lever, the electronic flash unit immediately begins charging and is ready for action in about seven seconds. Since the output is sufficient to cover subjects as much as four meters (12 ft.) away, you should adjust the aperture by aligning the flash mark with the appropriate flash guide symbol for accurate exposures. A pair of 1.5 V AA-size batteries, the easiest to find almost anywhere in the world, provide all the power your Partner needs for ordinary shots or for flash operation.



*To set the proper aperture for flash photos, align the appropriate flash guide symbol (most similar to viewfinder scene) with the flash mark. This insures proper flash exposure.*



## MF-2



• w/CASE Price .....

### No Focusing, No Exposure Fuss A True "Aim and Shoot" Camera with Pop-up Flash

Here is a camera that is definitely a bargain for a wide range of people: the beginner, those who don't like to bother with focusing and exposure setting, those seeking an economically priced camera that they can use in any light and so forth. The Yashica MF-2 requires neither exposure setting nor focusing. It has been "pre-programmed" to offer correct exposure and sharp focus over its entire operating range of 1.5 meters to infinity by utilization of a preset shutter speed (1/125 second) and a preset aperture (f/4, f/8 or f/16 depending upon film speed and operating mode). Thus, the user merely sets the film speed when he loads the camera, winds the film, then, aims and shoots. The subject will be in sharp focus and exposed correctly as long as it is located beyond the camera's minimum focusing distance. Moreover, to simplify operation even further, when light is insufficient for normal exposure, a red lamp lights in the viewfinder after pressing the shutter button partway, signaling the user that he or she should switch to the built-in flash. Flash photography is also as simple as normal shooting. The user merely presses lightly on the flash head and the flash pops-up, charging automatically for use. When the flash ready lamp comes on, he merely presses the shutter button. Flash exposure is also preset by the camera. Effective flash range is from 2 to 4 meters.

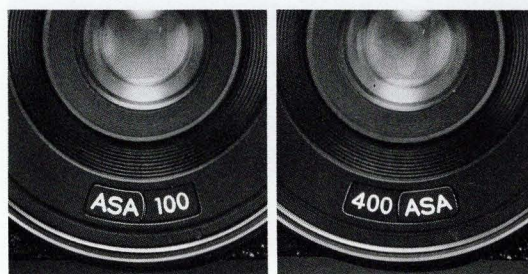
- Yashica Lens 38mm f/4; 3 elements in 3 groups; 46mm filter threads; 48mm lens-hood size.
- Shutter/Aperture Control: Mechanically operated leaf shutter preset for 1/125 sec. Lens aperture for normal exposure: preset to f/8 (ASA 100) f/16 (ASA 400); For flash exposure: preset to f/4 (ASA 100) f/8 (ASA 400). Additional exposure adjustments covered by film latitude with color negative and black & white film.
- Focusing Range: fixed focus for a range of 1.5 (5 ft.) to infinity (without flash).
- Low exposure warning provided by "Top Eye" CdS sensor which takes a light reading and activates the low-light indicator lamp in the viewfinder when light is insufficient for normal exposure.
- Bright-frame viewfinder with picture-composition frame, low-light indicator lamp.
- Built-in electronic flash charges automatically when popped up; preset for correct flash exposure over a flash range of 2 to 4 meters (7 to 13 ft.); Guide Number 12 (ASA 100 in meters); recycles in 7 seconds; 250 flashes with AA size alkali-manganese batteries; flash ready lamp next to viewfinder eyepiece.
- Additional features include one-action film advance, auto-resetting exposure counter, crank film rewind.



- **Size and weight:** 127.5 x 75.5 x 50.5 mm (5 x 3 x 2 in); 315 grams (11.1 ozs).
- Two 1.5V AA-size batteries power flash and exposure system.

## ❶ Set the ASA Film Speed for Normal Exposures. That's All!

Operating the Yashica MF-2 is literally as simple as 1, 2, 3. After loading the film in the camera, you merely set the ASA film speed, wind the film and shoot. The camera accepts both ASA 100 film and ASA 400 film (which is extra fast for good results and sharp focus in low-light).



❶ Simply slide the ASA film speed selector to ASA 100 or ASA 400 to set the film speed.

## ❷ Viewfinder Warning Tells You When to Use Flash

There's no exposure data, needles, and so forth cluttering the viewfinder of the MF-2. Just a picture composition frame, to let you frame your subject easily, and a low-light indicator lamp which comes on when there's a low-light reading, signaling you to switch to the built-in flash unit.



❷ Uncluttered viewfinder of the MF-2 with low-light indicator lamp.

## ❸ "One Touch" Does It All For Flash Pictures, Too

Merely press lightly on the top of the flash unit and it pops up, charging automatically and readying for action. After the flash ready lamp beside the viewfinder lights, trip the shutter. No calculations are necessary. The flash unit is preset to give correct flash exposures between 2 and 4 meters (7 and 13 ft.).



❸ Just press lightly on the flash head.

❹ It tucks neatly inside after use.

## ❹ Automatically Turns Off After Use

After use, the flash unit tucks neatly inside the camera, turning off automatically when you lock it in place.



## **ELECTRO 35** **GSN**



• w/CASE Price .....



### **The Updated Model of the Original Electronic Shutter Camera Offering Automatic Day and Night Exposure Capabilities**

The Yashica-originated IC Computer Brain analyzes the light sensed by the CdS sensor and controls the operation of the electronic shutter. The result is automatic setting of the shutter speed over an infinite range from 1/500 sec. down to full 30 seconds, thus ensuring perfect exposure under all light conditions, even in candlelight dimness.

The Electro 35's automatic exposure system guarantees unsurpassed ease and accuracy in picture taking by general amateurs, yet has many possibilities for application of the highest photographic techniques.

Indicator arrows in the viewfinder and on camera top offer a foolproof guide for exposure correction as well as need for bracing the camera to prevent erratic movement at the critical moment of exposure. RED arrow warns against over-exposure, while YELLOW arrow indicates 1/30 sec. or slower shutter speed setting and advises use of a tripod.

Comprehensive exposure symbols facilitate aperture setting.

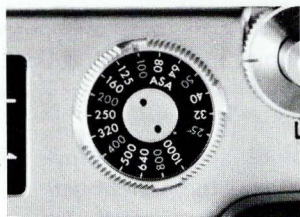
- Color-Yashinon DX 45mm f/1.7 lens composed of 6 elements in 4 groups.
- Coupled rangefinder focusing; min. focus 0.8m (31-1/2 in).
- Three-way exposure symbol (Outdoors, Overcast and Indoors) facilitates aperture preselection; aperture range from f/1.7 to f/16.
- Fully automatic exposure control; IC Computer Brain analyzes the intensity of light sensed by the CdS sensor and automatically sets the shutter speed over an infinite range from 1/500 sec. down to 30 seconds; optional override to 'B' or flash exposure (1/30 sec.); EV range from EV 1 to EV 17; ASA range from ASA 25 to 1000; works on 5.6V mercury battery (Eveready E164, Mallory TR-164 or equivalent).
- Electronic leaf-type shutter controlled by IC Computer Brain; automatic setting of infinite speeds from LT (max. 30 sec.) to 1/500 sec.; built-in self-timer; X sync terminal plus X contact direct-shoe.
- RED and YELLOW exposure indicator arrows in viewfinder and camera top signal exposure correction — RED warning against over-exposure and YELLOW indicating slow shutter speed setting.
- **Other features:** Battery checker lamp in exposure counter; auto resetting exposure counter; multi-slot take-up spool for easy film loading; crank-handle film rewind.
- **Size and weight:** 140 x 84 x 73.5mm; 750 grams (5-1/2x3-5/16x2-7/8 in; 1.65 lbs).
- **Filter:** 55mm screw-in type.
- **Lens shade:** 57mm slip-on type.



The viewfinder shows three important factors for good picture taking. (1) The bright frame outlines the area which will be reproduced on the film plane and moves diagonally with focusing operation to compensate for parallax when shooting subjects at close range. (2) The colored focusing spot in the center of the finder field shows two identical images. When the lens is focused precisely on the subject, the two images will be superimposed. (3) Exposure indicator arrows on top of the bright frame appear to signal exposure correction. RED warns against over-exposure. When it comes on, turn aperture ring in the direction of the arrow until it goes off. If it does not, use an ND filter and compensate for over-exposure. YELLOW signals 1/30 sec. or slower speed. Turn aperture ring in the direction of the arrow. If it fails to go off, correct exposure will be obtained even then, but the exposure will be made at a slow shutter speed. Therefore, the use of a tripod is advised.



## Key Steps for Perfect Color Pictures



**1** Open back cover and load film. Introduce film tip into any one of slots on take-up spool. When film is loaded properly, close back cover. Advance film until counter registers '1.' Set ASA film speed dial according to rating of film in use.



**2** Install 5.6V mercury battery by matching polarity with diagram imprinted inside battery compartment. Press battery checker button. If lamp comes on in exposure counter, all is OK. Have exposure control ring at 'Auto.'



**3** Then, preselect the required exposure symbol— $\infty$  for outdoor shooting under bright sunlight,  $\infty$  for outdoors in shade or under overcast and  $\infty$  for indoor or night photography.



**4** Press shutter release button half-way. If exposure indicator arrow in finder or camera top fails to come on, press release button all the way down. If red or yellow arrow comes on, turn aperture ring in direction of the arrow until it goes off. Yellow arrow may not go off, but correct exposure will be assured even then.



## AUXILIARY LENS SET w/CASE

Price



Consisting of the Auxiliary Telephoto Lens, Auxiliary Wide-Angle Lens and an exclusive viewfinder which can be used with either lens, this set is designed to extend the scope of automatic picture taking with the Electro 35 GSN or GTN. When fixed to the filter mount of the camera lens, the Auxiliary Telephoto Lens extends the focal length to 58.4mm, while the Auxiliary Wide-Angle Lens reduces the focal length to 37.7mm. The maximum aperture usable with the auxiliary lens is f/4, but no exposure compensation is necessary.

The exclusive viewfinder features two frames, one outlining the telephoto coverage and the other, wide-angle field of view. The set is supplied in an attractive leather case.

*With Aux. Telephoto*



*With Aux. Wide Angle*



## AUTO-UP LENS w/CASE

Price



Ideal for copying documents, photos, etc. and for other close-up purposes, the Auto-Up Lens is designed to facilitate focusing and composition. When mounted over the camera lens, automatic compensation of the range/viewfinder is made, affording most convenient close-up shooting over the range from 80 to 45cm (31-1/2 to 17-3/4 in) from film plane.

- Effective range: 80cm to 45cm (31-1/2 to 17-3/4 in).
- Focusing: Critical focus secured by rotating the focusing ring of the camera.
- Parallax correction: Automatic compensation over the range from 80cm down to 60cm (31-1/2 to 23-5/8 in); for subjects at a range from 59cm to 45cm (23-1/4 to 17-3/4 in), the tabs on the left edge must be used for parallax compensation.



## ME1



• w/CASE Price . . . . .



• w/CS-10 Electronic Flash, CASE Price . . .

### Compact and Easy-to-Use ME-1 Ushers in New "Fashion Camera" Era

The ME-1 is a fully automatic programmed shutter EE camera which is sure to be a hit with anyone just on the basis of its stylish body alone. Moreover, it is unbelievably compact for a full-frame rangefinder and has much to offer in terms of operating ease as well.

Exposures with the ME-1 are made via a fully programmed shutter which works in conjunction with a "Top-Eye" CdS sensor to eliminate the need for exposure adjustments entirely and guarantees correct exposures with virtually every shot. Focusing is also extremely simple via four, zone focusing symbols on top of the focusing ring which are also visible in the viewfinder. Moreover, for situations where lighting is insufficient for normal daylight exposure, the shutter button automatically locks, thereby signaling the user to switch to use of a flash unit such as the handy CS-10 described below.

The ME-1 is also the most stylish camera to appear on the market to date.

Other handy and innovative features include a film advance 'dial' replacing the traditional lever for added compactness and carrying ease; and a flip-open battery compartment cover which replaces the conventional "coin-slot" type. A self-timer is also provided for join-the-picture shots.

- Yashica Lens, 38mm f/2.8; angular field 59°; minimum focus 1 meter 46mm filter threads; hood diameter: 48mm (slip-on type).
- Fully automatic exposure control via "Top-Eye" CdS sensor; EV range: EV 9 (1/60 sec. at f/2.8) to EV 17 (1/360 sec. at f/19). ASA range 25-500; operates on one 1.35V mercury battery (Eveready EP-675R or equivalent).
- Bright frame viewfinder with parallax correction frame for close-ups, correct exposure zone, over and underexposure zones; focusing symbols visible in finder; magnification 0.52X.
- Automatically resetting accumulative exposure counter, crank film rewind, aperture scale for flash photography, hot shoe for flash synch.
- **Size:** 118 x 72 x 54 mm (4-5/8 x 2-13/16 x 2-1/8 in.)
- **Weight:** 280 g (9.9 ozs) (w/o battery)

#### CS-10 Electronic Flash

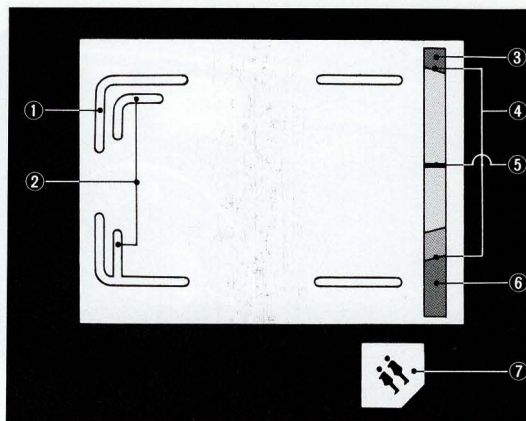
The ME-1 also features hook up with the supercompact CS-10 electronic flash unit, ideal for a camera its size. Weighing, a mere 60 grams the CS-10 can be left atop the camera as a standard piece of equipment, instantly readying the camera for low-light shooting when normal light is insufficient for exposure.

- **Size:** 62 x 42 x 34 mm (2-7/16 x 1-5/8 x 1-5/16 in.)
- **Weight:** 60 grams (2.1 ozs) • **Guide Number:** 10 (ASA 100 in meters).



## Viewfinder Assures Correct Exposures

The bright, panoramic viewfinder of the ME-1 features a parallax correction frame for close-up shooting; while zone focus symbols are visible at the bottom of the finder for simplified focusing. To focus, merely turn the focus ring until the appropriate zone symbol appears. The exposure scale on the right-hand side of the finder shows over under, and correct exposure zones. With the ME-1, correct exposure is always assured as the shutter locks as soon as the needle enters either the red over-or under-exposure zone, preventing exposure failure. Also, when the needle is in the under-exposure zone, it indicates that the user should switch to flash photography. With the handy CS-10 unit mounted atop the camera, this is easily accomplished. Merely switch the unit on and set the lens aperture ring to accord with the distance symbols engraved on the back of the flash head for bright flash photos everytime.



### Viewfinder Window

- ① Picture area frame
- ② Parallax correction frame
- ③ Overexposure mark
- ④ Correct exposure range
- ⑤ Indicator needle
- ⑥ Underexposure mark
- ⑦ Focus symbol indicator window





# **Yashica Twin-Lens Reflex Camera**



## MAT-124G



• w/CASE Price . . . . .

### Quality and Performance Meeting All Professional Needs

The MAT-124 G is designed to provide maximum versatility. It accepts either 12-exposure load 120 film or 24-exposure load 220 film with a simple one-action adjustment of the pressure plate.

The built-in high precision match-needle CdS meter is activated as soon as the finder hood is opened to viewing position. The electrical contacts of this meter are gold-plated to ensure most effective electrical conductivity and, at the same time, to minimize the possibility of malfunction due to corrosion. Cross-coupled to the shutter speed and aperture controls, it affords accurate exposure setting with minimum trouble, since the meter is always visible from the shooting position.

- Yashinon 80mm f/3.5 4-element taking lens and Yashinon 80mm f/2.8 viewing lens; accepts 30mm bayonet mount filters and lens shade.
- Leaf-type shutter with speeds from 1 to 1/500 sec., plus B and built-in self-timer; M-X sync.
- Convenient thumbwheel shutter speed and aperture controls.
- Dual-purpose pressure plate adjustable to either 120 or 220 film with one simple action; exposure load reminder sets automatically with adjustment of the pressure plate.
- Match-needle CdS exposure meter cross-coupled to shutter and aperture systems; activator switch couples with finder hood operation; all switch contacts are gold-plated to ensure most effective and durable performance; meter operates on power from a 1.3V mercury battery (Mallory PX625, Eveready E625N or equivalent); ASA range from 25 to 400.
- Automatic film feed through manipulation of film crank; film loading by matching 'start' marks on film leader and camera.
- Positive platform focusing with the aid of an extra-large knob.
- Viewfinder system features fresnel-backed screen with matte center focusing spot; 3X magnifier built into finder hood for critical focusing.
- Shutter lock, film type indicator, exposure load reminder.
- **Size and weight:** 102x148x101mm (4x5-13/16x4 in.); 1,080 grams (2.3 lbs.)
- **Filter and lens shade size:** 30mm bayonet mount.



## Match-Needle CdS Meter for Fast and Sure Exposure Control

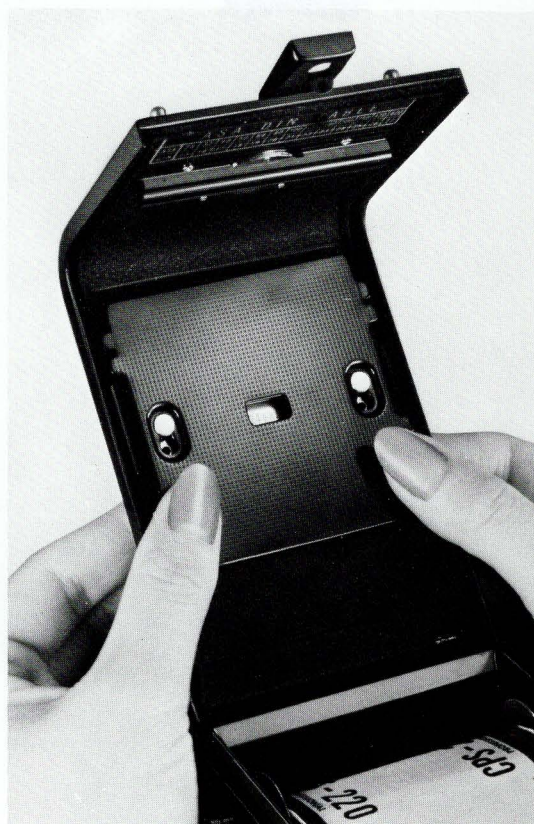
The meter visible from the shooting position shows at a glance whether the exposure setting is correct or not. In case the follow-pointer and the meter needle are not aligned, it means that exposure adjustment is necessary.

To make proper exposure adjustment, turn the shutter speed and/or aperture control thumbwheel until the follow-pointer is brought into perfect alignment with the meter needle.



## Dual-Purpose Pressure Plate Affords One-Action Adjustment

Slide the pressure plate either up or down to bring out the required indication — '12 EX' or '24 EX'. When thus adjusted, the exposure load indicator will automatically show the number of exposures the film to be loaded in the camera will provide and, at the same time, smooth loading of the specific type of film will be assured.





## CLOSE-UP LENS SET w/CASE

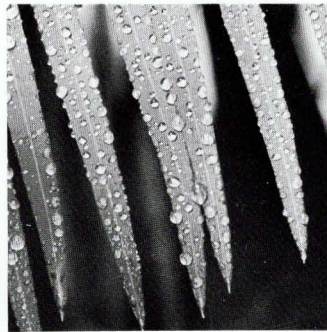
Price



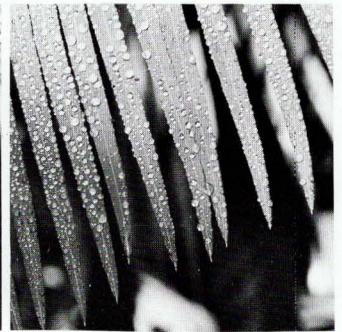
Close-Up Lens No. 1 affords effective focusing on subjects within the range of 44cm and 61cm (17-5/16 inches and 24 inches), while Close-Up Lens No. 2 is for subject range from 36cm to 45cm (14-3/16 to 17-23/32 inches).

Both close-up lenses are supplied in a set with a bayonet mount adapter for the viewing lens which dispenses with the need for making parallax compensation.

*With Close-Up Lens No.2*



*With Close-Up Lens No.1*



## 30 mm FILTER FOR MAT 124G



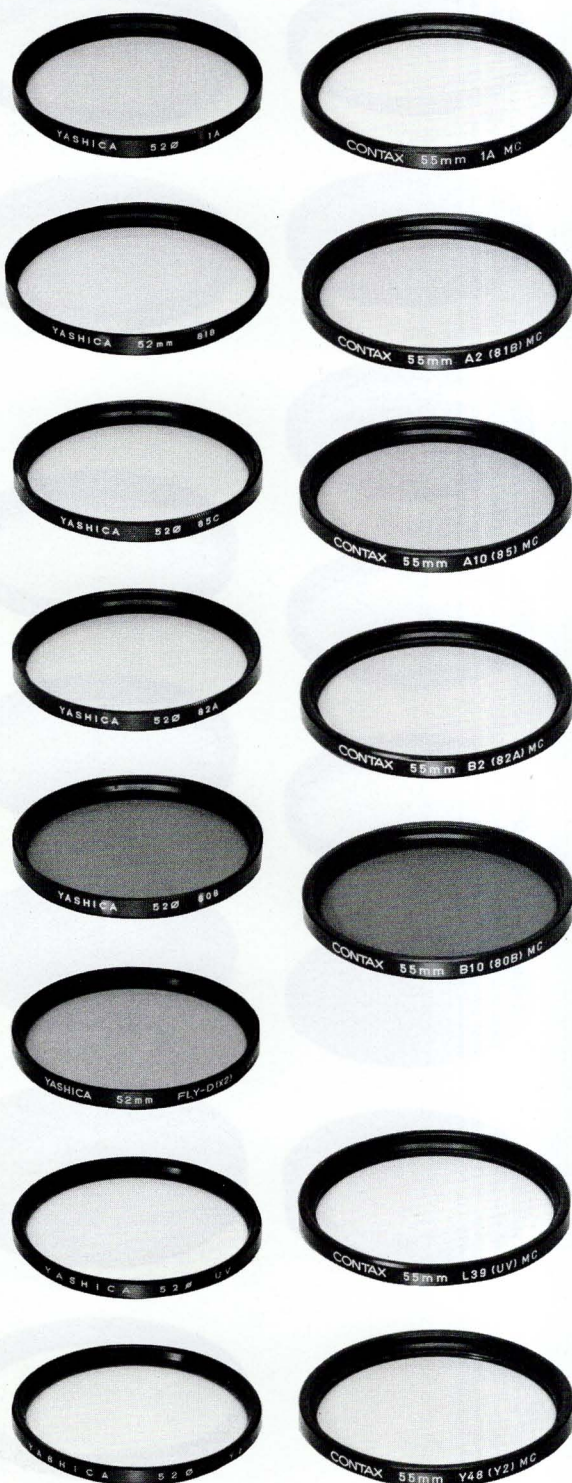
30mm Bayonet Type		Price
For Color	1A	
For B & W	UV	
For B & W	Y2	
For B & W	O2	
For Color/B & W	ND4	



# **Contax/Yashica Filters & Lens Shades**



## CONTAX & YASHICA FILTERS



Contax/Yashica filters are made of quality optical glass, ground and polished to provide absolutely plane and parallel surfaces. Each filter is treated to prevent distortion or shift in focus and incorporates all qualities essential to ensuring the finest images.

### • For Color Film

#### 1A (Light Pink—Filter Factor 1X)

Haze-cut filter for color photography. Improves the overall color balance. Requiring no exposure compensation, it can be mounted over the lens at all times as a means of protecting the lens surface against accidental scratching or other damage.

#### A2 (81B) (Brown—Filter Factor 1.3X)

Eliminates the bluish tone when photographing under an overcast or on a rainy day, thus reproducing natural tones.

#### A10 (85) (Orange—Filter Factor 1.7X)

A color conversion filter, it assures quality color reproduction when using Tungsten type color film under natural sunlight or with electronic flash.

#### B2 (82A) (Blue—Filter Factor 1.2X)

Controls excessive yellow or red when shooting in early morning or late afternoon hours and reproduces natural skin tone.

#### B10 (80B) (Dark Blue—Filter Factor 2X)

Strictly a color conversion filter, it ensures natural colors when using daylight type color film under artificial lighting, except blue lamp or electronic flash.

#### FLY-D (Lilac—Filter Factor 2X)

Eliminates the greenish tint and reproduces natural skin tone when photographing subjects under fluorescent lighting with Daylight type color film. This filter must not be used in combination with other filters

### • For B&W Film

#### L39 (UV) (Colorless—Filter Factor 1X)

Absorbs ultra-violet rays and creates clearer tone. Since it requires no exposure compensation, it can be left over the lens at all times to protect the lens surface.

#### Y48 (Y2) (Yellow—Filter Factor 2X)

Absorbs ultra-violet rays and, to a certain extent, excessive blue. Especially effective for landscape photography, or shooting subjects on the beach.



## **O56 (O2) (Orange—Filter Factor 4X)**

Effective when particular emphasis on cloud or red subjects is desired. Adds greater details to distant landscape and is also effective in increasing contrast when shooting scenes of autumn foliage.

## **R60 (R1) (Red—Filter Factor 8X)**

In sunlight outdoor shooting, this filter produces an accentuated contrast. Blue sky will appear darker, while red and yellow objects will be reproduced lighter than we actually see them. It cuts through haze when photographing distant scenes. Also used in infrared and aerial photography.

## **B (Blue—Filter Factor 2X)**

Strictly a special effect filter, it is normally used for creating natural skin tones in portraiture and nude photography under artificial lighting. Not recommended for outdoor photography.

## **G0 (Green—Filter Factor 2X)**

Absorbs blue, violet and red rays. Besides providing all the effects of the Y2 filter, it renders green foliage to appear much lighter. Because it assures a more natural skin tone, the G0 is recommended for outdoor portraiture.

## ● **For Color and B&W Film**

### **ND2 (Grey—Filter Factor 2X)**

### **ND4 (Grey—Filter Factor 4X)**

Decreases the intensity of light transmitted to the film plane without affecting the color balance. Used for exposure compensation when scene is too bright and beyond the exposure control range of the camera.

## **Polarizing**

Eliminates harmful reflections when shooting in difficult light situations, thus assuring clearer tones.

## ● **CONTAX Protection Filter**

The P-Filter is a colorless optical filter specifically designed to protect the lens from damage, dust and other harmful particles.

Flat spectral characteristics have been employed to allow the lens to perform normally without affecting its color reproduction properties.





## CONTAX FILTERS

The Contax filters are made of choice quality optical glass, carefully ground and polished to provide plane and parallel surfaces. Each filter is tested to assure optimum results when used with any one of the Zeiss T\* lenses.

Except for the Contax Polar, which is a polarizing filter, all Contax filters are multi-layer coated to ensure the best possible effect.

The Contax filters are available in 49mm, 55mm, 67mm, 72mm, 82mm and 86mm screw-thread mount.

49 mm screw in tape	Price
CONTAX IAMC	
CONTAX Protection Filter	

55 mm screw-in type	Price
CONTAX L39 (UV) MC	
CONTAX Y48 (Y2) MC	
CONTAX O56 (O2) MC	
CONTAX R60 (R1) MC	
CONTAX GO MC	
CONTAX ND2MC	
CONTAX ND4 MC	
CONTAX 1A MC	
CONTAX B10 (80B) MC	
CONTAX A2 (81B) MC	
CONTAX B2 (82A) MC	
CONTAX A10 (85) MC	
CONTAX POLAR	
CONTAX Protection Filter	

67 mm screw-in type	Price
CONTAX L39 (UV) MC	
CONTAX Y48 (Y2) MC	
CONTAX O56 (O2) MC	
CONTAX R60 (R1) MC	
CONTAX GO MC	
CONTAX ND2 MC	
CONTAX ND4 MC	
CONTAX 1A MC	
CONTAX B10 (80B) MC	
CONTAX A2 (81B) MC	
CONTAX B2 (82A) MC	
CONTAX A10 (85) MC	
CONTAX POLAR	
CONTAX Protection Filter	

72mm screw-in type	Price
CONTAX L39 (UV) MC	
CONTAX Y48 (Y2) MC	
CONTAX O56 (O2) MC	
CONTAX R60 (R1) MC	
CONTAX GO MC	
CONTAX 1A MC	
CONTAX B10 (80B) MC	
CONTAX A2 (81B) MC	
CONTAX B2 (82A) MC	
CONTAX A10 (85) MC	
CONTAX Protection Filter	

82mm screw-in type	Price
CONTAX L39 (UV) MC	
CONTAX Y48 (Y2) MC	
CONTAX O56 (O2)	
CONTAX R60 (R1) MC	
CONTAX GO MC	
CONTAX 1A MC	
CONTAX B10 (80B) MC	
CONTAX A2 (81B) MC	
CONTAX B2 (82A) MC	
CONTAX A10 (85) MC	
CONTAX Protection Filter	

86mm screw-in type	Price
CONTAX L39 (UV) MC	
CONTAX Y48 (Y2) MC	
CONTAX O56 (O2) MC	
CONTAX R60 (R1) MC	
CONTAX GO MC	
CONTAX 1A MC	
CONTAX B10 (80B) MC	
CONTAX A2 (81B) MC	
CONTAX B2 (82A) MC	
CONTAX A10 (85) MC	
CONTAX Protection Filter	



## YASHICA FILTER TYPES AND SIZES

Filter Size	For Color						For B & W						For Color / B & W	Adaptable Models	Price
	1A	81B	85	82A	80B	FLY-D	UV	Y2	O2	R1	G0	B	ND2 ND4 PL		
30mm bayonet	○						○	○	○				○	• MAT-124G	
40.5mm screw-in	○													• AUTO FOCUS MOTOR • AUTO FOCUS MOTOR-D	
46mm screw-in	○	○	○	○	○	○	○	○	○	○	○	○	○	• AUTO FOCUS • AUTO FOCUS S • DIARY • ME-1 • MF-1 • MF-2	
52mm screw-in	○	○	○	○	○	○	○	○	○	○	○	○	○	• YASHICA ML f/2.8 28mm • YASHICA ML f/2.8 35mm • YASHICA ML f/1.4 50mm • YASHICA ML f/1.7 50mm • YASHICA ML f/2 50mm • YASHICA ML f/2.8 135mm • YASHICA ML Macro f/2.8 55mm • YASHICA ML Bellows f/4 100mm • YASHICA ML Zoom f/4 75~150mm	
55mm screw-in	○	○	○	○	○	○	○	○	○	○	○	○	○	• ELECTRO 35 GSN • ELECTRO 35 GTN • MG-1 • YASHICA ML f/1.2 55mm • YASHICA ML Zoom f/3.5~4.5 42~75mm • YASHICA ML Zoom f/4 80~200mm • YASHICA ML Macro f/3.5 100mm • YASHICA ML Zoom f/4 35~70mm • YASHICA ML Zoom f/3.5~4.5 35~105mm	
58mm screw-in	○						○	○	○	○			○	• YASHICA ML f/4 200mm • YASHICA ML f/5.6 300mm • YASHICA ML Zoom f/5.6 100~300mm	



## YASHICA LENS HOODS

*Lens hoods are indispensable for warding off extraneous light. Round, square and soft rubber lens shades are available.*

### LENS HOOD TYPES AND SIZES

Size/Type	Material	Adaptable Models & Lenses	Price
30mm Bayonet (Square)	Metal	• MAT-124G	
48mm Slip-on (Round)	Metal/Rubber	• AUTO FOCUS • AUTO FOCUS S • Dairy • ME-1 • MF-1 • MF-2	
54mm Slip-on (Square)	Metal	• YASHICA ML f/2.8 28mm • YASHICA ML f/2.8 35mm • YASHICA ML f/1.4 50mm • YASHICA ML f/1.7 50mm • YASHICA ML f/2 50mm • YASHICA ML Macro f/2.8 55mm • YASHICA ML Bellows f/4 100mm	
57mm Slip-on (Round)	Rubber	• ELECTRO 35GSN/GTN • MG-1	
57mm Slip-on (Square)	Metal	• YASHICA ML f/1.2 55mm • YASHICA ML Macro f/3.5 100mm	
62mm Screw-in (Round)	Metal	• YASHICA ML 24m/m f/2.8 • YASHICA ML Zoom f/3.5 35~70mm	
75mm Slip-on (Square)	Metal	• YASHICA ML 21m/m f/3.5	





# YASHICA LENSES — Filter Sizes and Lens Hood System

\*Specifications and exterior design subject to change without prior notice.

Lens	Filter Diameter	Metal Hood/Filter Combination		Yashica Lens Hood (slip-on)	Gelatine Filter/Metal Hood Combination	
		Adapter Ring	Metal Hood		Adapter Ring	Metal Hood
ML Fish-Eye f/2.8 15 mm	Built-in	—	Built-in	—	—	—
ML f/3.5 21 mm	72 mm	—	—	75 mm	—	—
ML f/2.8 24 mm	62 mm	—	—	62 mm (screw-in)	—	—
ML f/2.8 28 mm	52 mm	52 mm + 67/86	No. 1	54 mm	52 mm	No. 1
ML f/2.8 35 mm	52 mm	52 mm + 67/86	No. 3	54 mm	52 mm	No. 3
ML f/1.4 50 mm	52 mm	52 mm + 67/86	No. 4	54 mm	52 mm	No. 4
ML f/1.7 50 mm	52 mm	52 mm + 67/86	No. 4	54 mm	52 mm	No. 4
ML f/2 50 mm	52 mm	52 mm + 67/86	No. 4	54 mm	52 mm	No. 4
ML f/1.2 55 mm	55 mm	55/86	No. 3	57 mm	55 mm	No. 3
ML f/2.8 135 mm	52 mm	—	Built-in	—	52 mm	No. 5
ML f/4 200 mm	58 mm	—	Built-in	—	—	—
ML f/5.6 300 mm	58 mm	—	Built-in	—	—	—
ML Reflex f/8 500 mm	Slide-type	—	Screw-in	—	—	—
Reflex f/11 1000 mm	Built-in	—	Built-in	—	—	—
ML Zoom f/3.5 28~50 mm	72 mm	—	—	—	—	—
ML Zoom f/4 35~70 mm	55 mm	—	—	—	—	—
ML Zoom f/3.5~4.5 35~105 mm	55 mm	—	—	—	—	—
ML Zoom f/3.5~4.5 42~75 mm	55 mm	55/86	No. 3	—	55 mm	No. 3
ML Zoom f/4 75~150 mm	52 mm	—	—	—	—	—
ML Zoom f/4 80~200 mm	55 mm	55/86	No. 4	—	55 mm	No. 4
ML Zoom f/5.6 100~300 mm	58 mm	—	—	—	—	—
ML Macro f/2.8 55 mm	52 mm	52 mm + 67/86	No. 4	54 mm	52 mm	No. 4
ML Macro f/3.5 100 mm	55 mm	55/86	No. 5	57 mm	55 mm	No. 5
ML Bellows f/4 100 mm	52 mm	52 mm + 67/86	No. 5	54 mm	52 mm	No. 5

YASHICA



## CONTAX GELATINE FILTER HOLDER & METAL LENS HOODS

Models and Types	Price
<ul style="list-style-type: none"> <li>• Gelatine Filter Holder (67mm) w/55mm Ring</li> <li>• 52mm Ring (only) for Yashica ML lenses</li> <li>• 55mm Ring (only)</li> <li>• Metal Lens Hood 1</li> <li>• Metal Lens Hood 2</li> <li>• Metal Lens Hood 3</li> <li>• Metal Lens Hood 4</li> <li>• Metal Lens Hood 5</li> </ul> <p>Adapter Rings</p> <ul style="list-style-type: none"> <li>• 55/86 Ring for Metal Lens Hood</li> <li>• 67/86 Ring for Metal Lens Hood</li> <li>• 72/86 Ring for Metal Lens Hood</li> <li>• 70/86 Ring</li> <li>• 82/86 Ring</li> </ul>	

Designed especially for use with Zeiss T\* and Yashica ML lenses, the Contax Gelatine Filter Holder system consists of the filter holder itself, special 55mm and 52mm rings, five metal lens hoods and three adapter rings. Selective use of these items permits maximum utilization of filter effects with lenses between the focal lengths of 25mm and 210mm.

- **Gelatine Filter Holder** is slotted for accommodating filter frames and sets. The internal thread size of the holder is 67mm for direct or adapted lens attachment.

- **55mm and 52mm Rings** are used to attach the 67mm holder to Zeiss T\* (55mm) or Yashica ML (52mm) lenses which have filter mounts of these sizes.

- **Metal Hoods**, number one through five, are for selective use with the proper focal length lens. They attach directly to the gelatine filter holder or to the lenses through use of three adapter rings.

- **Adapter Rings** are available for several purposes from Contax. Three of these rings (55/86, 67/86, 72/86) are employed to mount Contax Metal Hoods on lenses ranging from the 25mm to the 210mm. The 70/86 ring is used to attach filters to, or as a lens hood for, the Distagon T\* f/4 18mm; and with the lens hood for the PC-Distagon f/2.8 35mm.

The 82/86 ring allows the 86mm Softar No. 2 to be used with the Tele-Tessar T\* f/4 300mm.





# ZEISS T\* LENS-Filter Size, Softar, Metal Cap and Lens Hood System

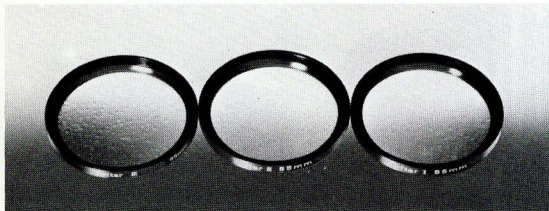
# YASHICA

Lens	Filter	Softar	Metal Hood + Adapter Ring		Gelatine Filter Holder + Metal Hood		Soft Lens Shade	Metal Lens Cap
			Adapter Ring	Metal Hood	Adapter Ring	Metal Hood		
F-Distagon T* f/2.8 16 mm (Fisheye)	Built-in	—	—	Built-in	—	—	—	—
Distagon T* f/3.5 15 mm	Built-in	—	—	Built-in	—	—	—	—
Distagon T* f/4 18 mm	86 mm (with 70/86 ring)		—	—	—	—	—	—
Distagon T* f/2.8 25 mm	55 mm		—	—	55 mm	No. 1	55 mm G-12 ※	55 mm K-53
Distagon T* f/2 28 mm	55 mm		55/86	No. 1	55 mm	No. 1	55 mm G-12	55 mm K-53
Distagon T* f/2.8 28 mm	55 mm		55/86	No. 1	55 mm	No. 1	55 mm G-12	55 mm K-53
Distagon T* f/1.4 35 mm	67 mm		67/86	No. 2	●	No. 2	67 mm G-14	67 mm K-63
Distagon T* f/2.8 35 mm	55 mm		55/86	No. 3	55 mm	No. 3	55 mm G-11	55 mm K-53
Tessar T* f/2.8 45 mm	49 mm, 55mm (with 49/55 ring)		—	—	—	—	▲※	—
Planar T* f/1.4 50 mm	55 mm		55/86	No. 4	55 mm	No. 4	55 mm G-11	55 mm K-53
Planar T* f/1.7 50 mm	55 mm		55/86	No. 4	55 mm	No. 4	55 mm G-11	55 mm K-53
Planar T* f/1.4 85 mm	67 mm		67/86	No. 4	●	No. 4	67 mm G-13	67 mm K-63
Sonnar T* f/2.8 85 mm	55 mm		55/86	No. 5	55 mm	No. 5	55 mm G-11	55 mm K-53
Planar T* f/2 100 mm	67 mm		67/86	No. 4	●	No. 4	67 mm G-13	67 mm K-63
Sonnar T* f/3.5 100 mm	55 mm		55/86	No. 5	55 mm	No. 5	55 mm G-11	55 mm K-53
Planar T* f/2 135 mm	72 mm	86 mm (with 72/86 ring)	72/86	No. 4	—	—	—	72 mm K-73
Sonnar T* f/2.8 135 mm	55 mm		—	Built-in	55 mm	No. 5	—	55 mm K-53
Sonnar T* f/2.8 180 mm	72 mm	86 mm (with 72/86 ring)	—	Built-in	—	—	—	72 mm K-73
Tele-Tessar T* f/3.5 200 mm	67 mm		—	Built-in	●	No. 5	—	67 mm K-63
Tele-Tessar T* f/4 200 mm	55 mm		—	Built-in	—	—	—	55 mm K-53
Tele-Tessar T* f/4 300 mm	82 mm	86 mm (with 82/86 ring)	—	Built-in	—	—	—	82 mm K-83
Vario-Sonnar T* f/3.5 40~80 mm	55 mm		55/86	No. 2	55 mm	No. 2	55 mm G-11	55 mm K-53
Vario-Sonnar T* f/3.5 70~210 mm	67 mm		67/86	No. 3	●	No. 3	—	67 mm K-63
S-Planar T* f/2.8 60 mm (Macro)	67 mm		67/86	No. 3	●	No. 3	67 mm G-13	67 mm K-63
S-Planar T* f/4 100 mm (Bellows)	55 mm		55/86	No. 5	55 mm	No. 5	55 mm G-11	55 mm K-53
PC-Distagon T* f/2.8 35 mm (Shift)	86 mm (with 70/86 ring)		—	—	—	—	—	—
Mirotar f/4.5 500 mm	Slide-in type	—	—	—	—	—	—	—
Mirotar f/5.6 1000 mm	Slide-in type	—	—	—	—	—	—	—

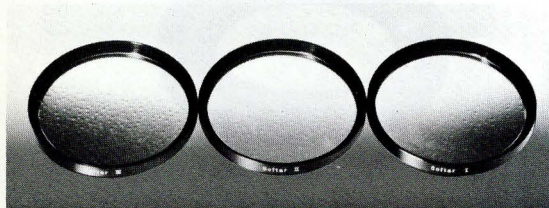
● Denotes adapter ring is not needed for linkage with lens. ※ Rubber Hood should be used without filter. ▲ 55mm (with 49/55 ring)



## ZEISS SOFTARS



- 55mm No. 1 Price .....
- No. 2 Price .....
- No. 3 Price .....



- 67mm No. 1 Price .....
- No. 2 Price .....
- No. 3 Price .....



- 86mm No. 2 Price .....

Zeiss Softars are special soft-focus attachment lenses developed by Carl Zeiss for the purpose of converting any photographic lens into a soft-focus lens. The Softar provides a core of sharp definition with a soft-focus effect that is particularly appropriate in portraiture or to enhance mood. SLR focusing and previewing of effect are extremely simple and accurate.

Softars are more effective than other soft-focus systems because they do not rely on wide apertures to achieve the soft-focus effect. Even at very small aperture settings, the Softar retains its overall soft-focus capability, since diffusion effect is independent of the aperture in use. This allows the achievement of soft-focus and strog depth-of-field simultaneously. Three types of Zeiss Softars are available, according to the degree of effect desired. They attach directly to the accessory filter thread of the lens, and can be employed singly or in combinations.

- Softar No. 1: 55mm & 67mm
- Softar No. 2: 55mm, 67mm & 86mm
- Softar No. 3: 55mm & 67mm



Taken with Planar T\*f/1.4 85mm lens using Softar III

Taken with Planar T\*f/1.4 85mm lens without Softar



## CONTAX SOFT LENS SHADES

Price

Four Contax Soft Lens Shades are available to fit Zeiss T\* series lenses. These folding rubber lens shades are all screw-in models, and cover the following lens ranges:

- **55mm G-11** — Distagon T\* f/2.8 35mm, Planar T\* f/1.4 50mm, Planar T\* f/1.7 50mm, Sonnar T\* f/2.8 85mm, Vario-Sonnar T\* f/3.5 40–80mm, S-Planar T\* f/4 100mm and Sonnar T\* f/3.5 100mm.
- **55mm G-12** — Distagon T\* f/2.8 25mm, Distagon T\* f/2.8 28mm and Distagon T\* f/2 28mm.
- **67mm G-13** — Planar T\* f/1.4 85mm, Planar T\* f/2 100mm and S-Planar T\* f/2.8 60mm.
- **67mm G-14** — Distagon T\* f/1.4 35mm
- **55mm G-11** Price .....
- **55mm G-12** Price .....
- **67mm G-13** Price .....
- **67mm G-14** Price .....



## CONTAX METAL LENS CAPS

Price

Four screw-in type Contax Metal Lens Caps are available for the Zeiss T\* lens series. These screw-in metal caps provide added protection for the delicate lens front elements, and are primarily for use during storage of the lens in place of the slip-on/clip-on type of carrying lens caps. The types and filter sizes are:

- **55mm (K-53)** Price .....
- **67mm (K-63)** Price .....
- **72mm (K-73)** Price .....
- **82mm (K-83)** Price .....

Two slip-on type Contax Metal Lens Caps are also available for Contax Metal Hoods.

- **89mm (K-84)** (For Nos. 3, 4 and 5) Price .....
- **99mm (K-94)** (For Nos. 1 and 2) Price .....

