

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.

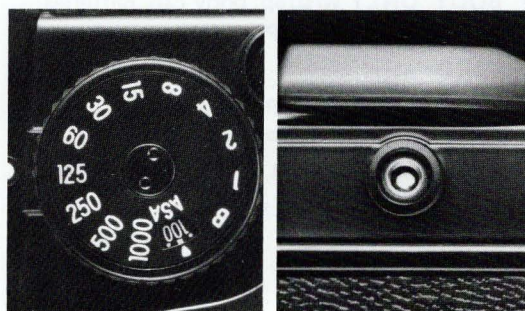
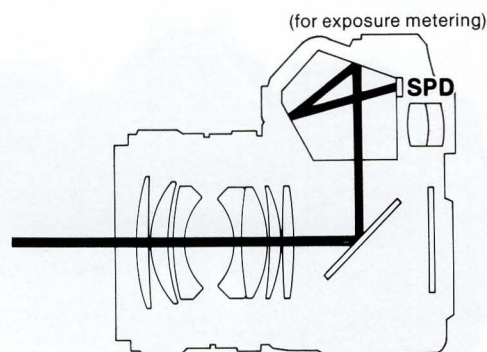
System capability is provided for the FX-D through the use of the same electromagnetic shutter release system and the rugged, three-claw Contax/Yashica bayonet lens mount employed in the Contax camera line. This allows the FX-D to be equipped with almost any of the wide range of Contax Real Time Photography 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.

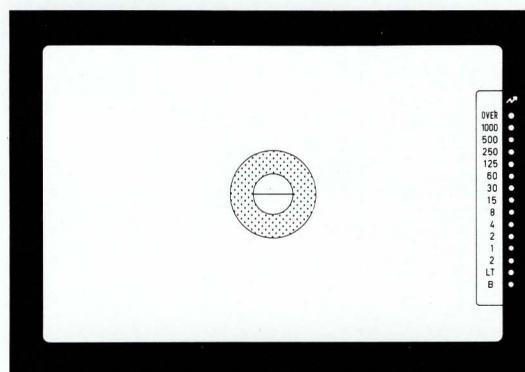
Viewfinder information is displayed via an arrangement of 15 dot LEDs plus a special "Λ" LED flash indicator. The system is extremely visible as well as simple to use, and conserves battery power by remaining off until the photographer requires it.

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.).



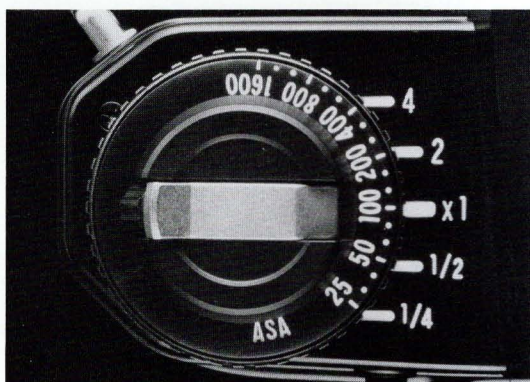
The FX-D allows full manual or AE control of shutter speeds, and uses the Contax electromagnetic shutter release system.



The FX-D Quartz viewfinder gives a bright, crisp image with split-image/microprism 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 ± 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 ± 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.

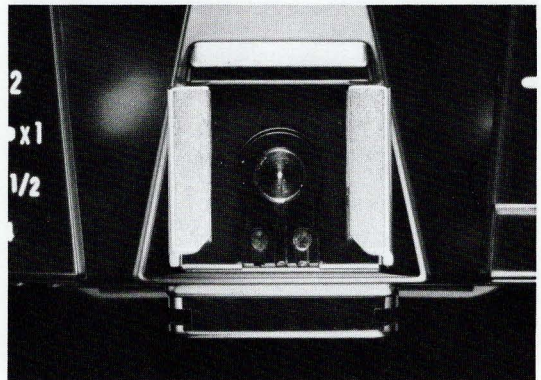
The quartz-controlled Self-Timer of the FX-D is put into effect by shifting the AE Lock switch to the S-T position.

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 "Λ" 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 ± 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.)