

MINOLTA XK, XK MOTOR, XE-7 & XE-5



A choice of sophisticated and
versatile electronic 35mm SLR cameras
with automatic exposure



Minolta XK, XK Motor, XE-7 and XE-5
Designed for the Discerning Photographer

The Minolta electronic SLR cameras are perfect examples of the heights photography can reach. Precision exposure is achieved with a minimum of time and adjustment, utilizing the electronically operated automatic exposure system, and control center viewfinder on the X series.

The XK camera is highly sophisticated, intricate—a superb camera with unique features such as interchangeable finders and focusing screens among which Minolta's exclusive Auto Electro Finder operates the automatic exposure.

The XK Motor is the world's first 35mm electronic SLR created exclusively for motor drive photography, a premier camera featuring automatic drive, automatic exposure (up to 3.5 frames per second) and superb human engineering. Astonishingly, the XK Motor weighs only little more than a conventional SLR.

The XE-7, a fixed pentaprism type SLR with automatic exposure, is a joy to handle; its ease, convenience and general all-round smoothness of operation take all the stress out of your photographic calculations. The XE-5 is a modified popular version of the XE-7 which has already attracted much attention for its ease of handling and useful features.

Whichever camera you prefer, you can be sure it is an intrinsic part of the famed Minolta electronic SLR camera system. The full complement of this extensive system comprises more than 150 accessories, including the top-quality Rokkor-X lens range and the budget-priced Celtic lens range. Versatility is the keynote of this selection, extending from 7.5mm fisheye to 1600mm extreme telephoto, including the standard Rokkor-X lenses—the 50mm f/1.4, 50mm f/1.7 and the 58mm f/1.2.

And, of course, Minolta offers a two-year warranty on these X-series cameras as proof of their own faith in a top-quality product.

MINOLTA XK



The highly-advanced XK now introduces a new feature— The Automatic Exposure System

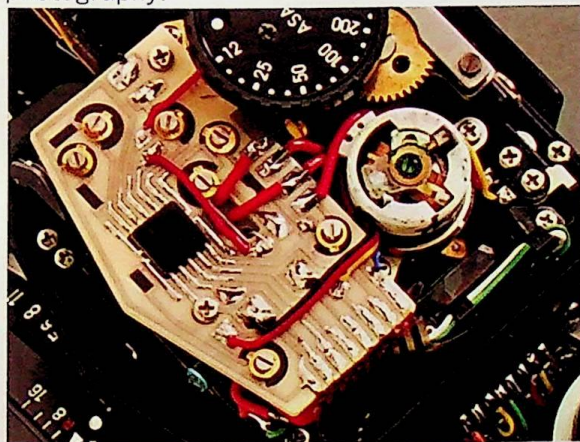
Ease, accuracy, and versatility are the keynotes of the XK. But now the most complete XK has a special plus-factor—the Auto Electro Finder (AE Finder), providing automatic exposure. Once the lens opening is set, shutter speed is controlled and set electronically.

The AE Finder is the XK's "nerve center."

Here also is the Contrast Light Compensator meter which is the foundation of the automatic exposure system. Two CdS cells in the pentaprism separately read two overlapping sections in the viewing field at full aperture, thus compensating automatically for high contrast situation.

Highly complicated circuits in the finder compute film sensitivity, lens aperture, and other essential measuring factors, and send the results to the 'control center,' together with the light value measurement from the CLC. This information is stored in the finder's IC memory, constantly updated by changing exposure input, until the actual instant of exposure, when the memory system discharges the precise electronic current needed for perfect exposure. Moving along the miniature circuits in the XK body, these 'impulses' time shutter speed precisely.

The Auto Electro Finder—a very good reason why the XK has opened a whole new horizon of photography.



The Electronic Focal Plane Shutter

Among the prime advantages of an electronically-controlled, horizontal traverse shutter are its tremendous scope and accuracy.

When the camera is set in automatic mode, there are no restrictions at all. The XK shutter sets itself for automatic exposure over a range of electronic stepless speeds that start at a full four seconds and extend to a top speed of 1/2000 sec. for pinpoint accuracy.

The shutter speed is linked to the metered light reading for fully automatic control and can vary steplessly to give the most accurate speed in fluctuating light conditions. If the required speed is 1/297 sec. for perfect exposure, the Minolta's electronic shutter moves at precisely that speed, a major advantage over normal shutter systems which, because they utilize a stepped speed range, mean a compromise speed setting.

In manual, the electronically controlled stepped operation of the XK offers accurate speeds from superbly fast 1/2000 sec. to long exposure of a full 16 sec.

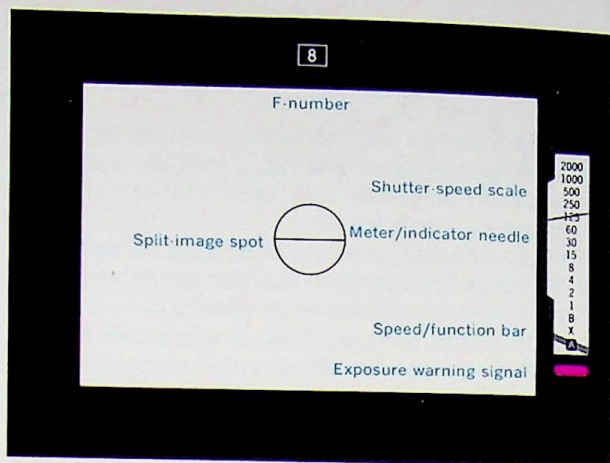
And the XK includes a 1/100 second setting for flash synchronization (at 'X') and 'B' for bulb.

You'll appreciate the finer points of electronic timing every time you use the XK in a situation where handling speed and exposure accuracy are vital.

Another important factor are the titanium shutter curtains. Titanium is a special metal that can be rolled to extraordinary thinness. That's why Minolta chose it for the XK. Titanium is a metal that resists the adverse effects of difficult climates and, in consequence, maintains reliability even in conditions of extreme heat, cold and humidity. That's why Minolta chose it for the XK.



The Creative Control Viewfinder



All the information you need to compose and take your shot is right there in the exceptionally bright viewfinder. You never have to take the XK from your eye.

Displayed inside the finder is everything you need: At the top of the frame appears the f-number of the aperture setting. At the right is the vertical shutter speed scale, meter/indicator needle and speed/function bar. In the center of the standard P screen is a split image spot for quick and accurate focusing.

For "AUTO" mode, the shutter speed dial should be set at 'A'. On this setting the speed/function bar remains fixed over the letter 'A' on the speed scale. On turning the aperture ring, the selected aperture is shown at the top and the black meter needle indicates the speed on the easy-to-read scale. This means that the shutter speed changes continuously and steplessly to give the exact exposure. You can also select the shutter speed first by changing the lens aperture.

A Light-Emitting-Diode exposure warning signal pulsates when exposure conditions fall below the meter's lower operating limits.

When the shutter speed dial is changed from 'A' you can utilize the match-needle system. In this mode the speed/function bar will move from its position over 'A' to show the selected speed on the speed scale which ranges from 1 sec. to 1/2000 sec. By turning the aperture ring you can align the meter/indicator needle with the function bar to get the required exposure.

Interchangeable XK Viewfinders and Screens

Plain Finder

Quick, accurate focusing and composition call for a clear, unobstructed view of the entire subject area—this is just what is provided by the Plain Finder. The meterless Plain Finder shows shutter speed and lens f-stop.

High-Magnification Finder

This finder magnifies the entire field of view 6.20 times—very appropriate when extremely critical fine focusing is necessary, for example, in close-up or photomacrography. The eyepiece has built-in dioptric adjustment.

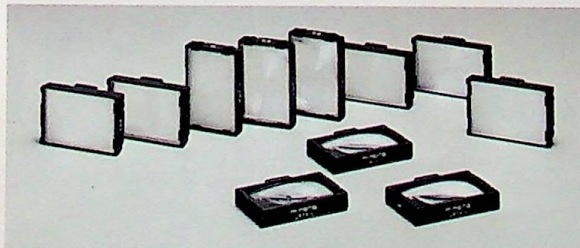
Waist-Level Finder

Invaluable for candid shots, at high or low angles, and whenever rightangle viewing is needed. The folding hood opens for viewing and a built-in, swing-out magnifier provides fine focusing.



Focusing Screens

Minolta offers variety of focusing screens to satisfy varying personal preferences for general photography in addition to offering solutions to more difficult focusing tasks. A special screen can be selected to provide an ultra bright view, and another is designed for extreme high magnification applications.





Multiple Exposures

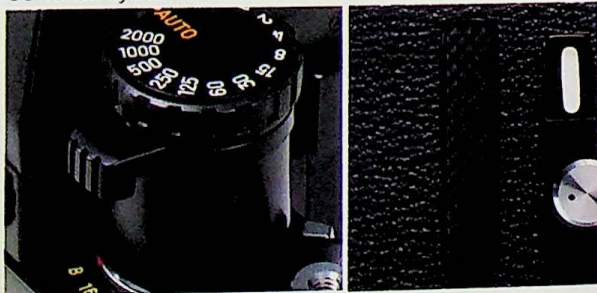
Multiple exposures are no problem at all. Just depress the film advance release, cock the shutter. The film will remain motionless on the same frame, holding its position exactly, regardless of the number of exposures.

Auto Exposure Override Control

For photographic effect, a thumb controlled auto exposure override control may be engaged. This control makes it possible to under or overexpose a picture a maximum of plus or minus two EV by continuously varying shutter speed. If, for example, the correct exposure indicated is 1/125, then the speed with the override could vary from 1/30 to 1/500 as you prefer.

Auto-Senswitch

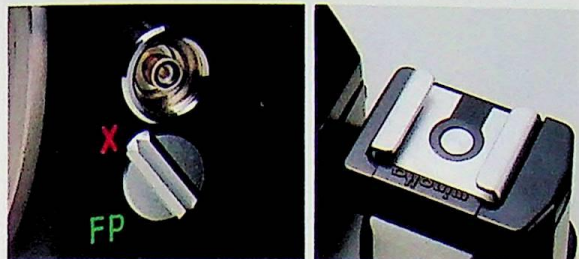
The XK uses the unique Auto-Senswitch to activate the Auto Electro Finder's exposure control systems. This strip on the XK body responds to hand contact, switching on the finder as you grasp the camera. When the camera is not held, an auxiliary switch on the finder can be used. When the battery switch on the AE Finder is in the 'off' position, the Auto-Senswitch will still activate the exposure control systems.



Flash Synchronization

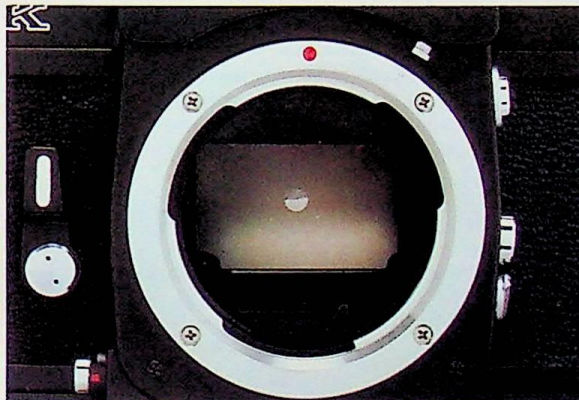
By setting the shutter speed dial at 'X', the shutter synchronizes with electronic flash units at a rapid 1/100 second. A switch is provided for X or FP synchronization.

For cordless flash units, an optional "Hot Shoe" contact is incorporated into the XK.



Minolta Stainless Steel Bayonet Mount

For permanent precision fit, lenses seat against a rigid stainless steel flange. Mount lens by inserting and twisting 54° in a single, smooth motion. That's all.

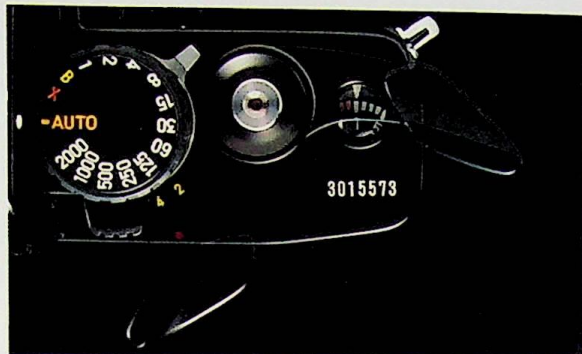


Oversize Quick-Return Mirror

The largest mirror available in any SLR camera is big enough to avoid image cut-off even when using supertelephoto or close-up lenses.

Film Advance Lever

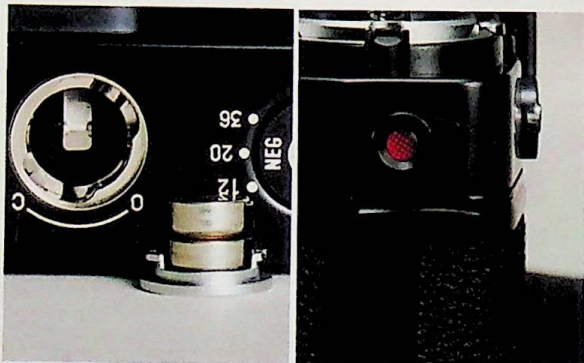
For smooth film advance, the comfortably cushioned lever moves on precision bearings. The lever swings out 20° before engagement; a further 110° stroke advances film and cocks shutter.



Batteries and Battery Checker

Just two tiny silver-oxide batteries power the electronic shutter and exposure control system. A chamber in the camera base holds these batteries, which are generally superior to other types and can be used at lower temperatures. A battery checker light, conveniently located, glows red at a finger-touch when voltage is sufficient.

As an extra safety warning, if the shutter is released with insufficient battery power, the mirror stays up so that the viewfinder appears completely dark.



XK Specifications

Type: Interchangeable-finder/screen-type. 35mm single-lens reflex with electronic focal plane shutter.

Lens Mount: Stainless steel Minolta bayonet. Standard lenses: MD Rokkor-X 50mm f/1.7, 50mm f/1.4, or MC Rokkor-X 58mm f/1.2.

Shutter: Electronically controlled focal-plane type with titanium curtains and two mechanically controlled settings. Electronic speeds: 16 to 1/2000 second in steps, 4 to 1/2000 second continuously variable. Mechanical settings: X (1/100 sec.) and B.

Film Advance: Lever type; single or multiple-stroke, 110° winding angle after 20° unengaged movement. Film advance locks when voltage is insufficient.

Mirror: Oversize, quick-return type with lock-up device.

Self-Timer: Lever-type from 6 to 10 sec.

Flash Sync.: X contact: 1/100 (X) and longer speeds. FP contact: All speeds through 1/2000 second. Single terminal with X/FP switch, direct contact on optional accessory for cordless flashguns.

Power Source: 2 silver-oxide batteries (Eveready S-76 or equivalent).

Auto Electro Finder: Eyelevel pentaprism with built-in meter and automatic electronic, and match-needle/manual exposure-control. Built-in TTL CLC (Contrast Light Compensator) with 2 CdS cells for full aperture metering with MD or MC Rokkor-X and Celtic lenses. Interchangeable type showing 98% of area appearing on film. Visible in finder: f-number, shutter-speed/function scale, meter/indicator needle, speed/function bar, LED exposure warning signal. Measuring range: EV 1 to EV 17 (e.g., 1 second at f/1.4 to 1/2000 at f/8) with f/1.2 lens at ASA 100.

Others: Multiple exposures, Auto-exposure override control (± 2 EV stepless), Built-in Auto "Senswitch" turns on AE Finder, Battery checker, Film load reminder, Type P (split-image) focusing screen supplied as standard, optional interchangeable with 10 other screen types.

Dimensions: 109.5 x 48 x 147.5mm ($4\frac{5}{16}$ " x $1\frac{15}{16}$ " x 6") with AE Finder and without lens.

Weight: 895g (31 $\frac{1}{2}$ oz) without lens.

MINOLTA XK MOTOR

Minolta XK Motor The Astonishing Electronic Motor Drive



Automatic winding and rewinding, automatic drive and flawless automatic exposure even at the highest frame rate—features thought impossible in a motor drive camera are now the nucleus of the Minolta XK Motor, the ultimate single lens reflex for photographing the decisive moment in fast sequence, the logical extension of the sophisticated XK electronics.

This is the world's first camera designed exclusively for motor drive photography. It is *not* just another SLR fitted with a cumbersome, heavyweight motor drive unit. Surprisingly lightweight, beautifully designed for optimum performance under the most demanding conditions of climate and circumstance, the XK Motor handles with the ease of a conventional SLR. Its integrated, one-piece body is a motor-drive first. It requires no mounting or dismounting, so manufacturing precision and operation is exact. It has fewer parts than cameras used with mounted motor drive units. Some of its unique motorized features include (1) a tension sensor that automatically monitors film tension and stops film advance at the end of a cartridge, (2) one-touch motorized film rewind that also stops rewinding before the film is completely rewound into the cartridge, so the cartridge need not be disassembled in the darkroom, (3) motor rewind with auto switch-off and auto reset to advance mode when the camera back is opened.

Even more significant, the XK Motor is an electronic, automatic exposure camera, with interchangeable AE-S finder. And this is why it performs like no other camera you've been privileged to use.

The AE-S Finder: Key to automatic exposure

The XK Motor's automatic exposure, interchangeable, full information finder is a marvel of electronics ingenuity. The unparalleled creative advantages of electronic, automatic timing and exposure for motor drive photography will be marvelously apparent the first time you use the camera.

This is a center-weighted metering finder with silicon photo cell that delivers extremely fast response as well as extra sensitivity—enabling rapid automatic winding for fast sequence photography. During automatic operation (for the XK Motor also works manually), the camera controls exposure at fast speeds on the order of milliseconds. Once you have selected the appropriate aperture, the camera then proceeds to automatically select the correct shutter speed. Even while automatically driving and exposing film at a speed as high as 3.5 frames per second it delivers perfect aperture-priority automatic exposures in concert with its rapid film advance. But even when there is not enough light for



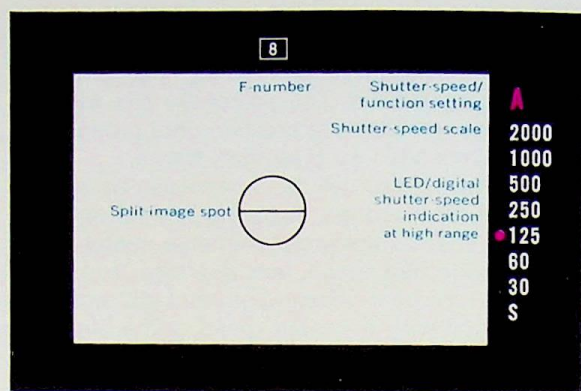
correct exposure at the frame rate you have chosen, the XK Motor performs with electronic precision. It automatically overrides the set frame rate, slowing it down. The automatic film winding motor does not advance the film until proper exposure has been assured each frame.

The silicon photo cell has a response time of 1/100,000 of a second. Such quick electronic response enables the exposure nerve center to calculate the film speed, lens aperture, and all light measurement information, and still work in coordination with the rapid speed of the film advance.

Actually, you'll find that the immense value of the XK Motor is best demonstrated when you are photographing very fast-changing light conditions, or when you pan the camera over a subject that is distinguished by different degrees of light brightness. Thanks to the AE-S finder and Minolta electronics, fast-sequence photography has never been easier, more precise or more convenient.



The Unique Full-Information Viewfinder



The advanced technology of the XK Motor is superbly demonstrated by its full information viewfinder. You've never seen one quite like it for remarkably complete information and creative control over your photographic subject.

Everything necessary for you to operate all significant XK Motor mechanisms is indicated in its viewfinder. At the right side of the finder is the LED (light emitting diode)/digital shutter speed indicator. With the speed and accuracy of a mini-computer, it displays all shutter speed indications as quickly as the silicon photo cell meter calculates the vital exposure information and relays it through tiny circuits to the shutter speed control mechanism. This dual range shutter speed indicator is much faster and more accurate than the conventional needle finder.

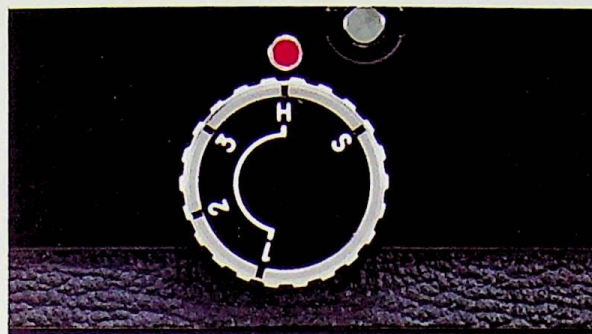
More viewfinder features: The mat Fresnel screen has a central split image focusing spot for accurate focusing. With the camera in automatic exposure mode, the letter "A" appears above the shutter speed indicator (but is replaced by the shutter speed you select if you use the camera in manual mode). The aperture you select appears in a small window at the top of the viewfinder.

In the long run, you'll discover the XK Motor viewfinder is at its electronic best when you want to be at your best—and that's the time you are composing, framing and taking a picture.

XK Motor Key Features

Frame Rate Selector

Chose from 1, 2, or 3 frames per second, or High (H) speed, plus single frame (S). The camera's shutter speed priority frame rate control will automatically adjust for correct exposure over the set frame rate.

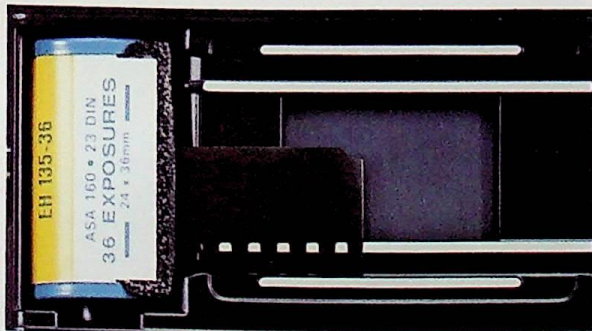


Automatic Film Advance Stop

For improved operating convenience, the XK Motor has a film tension sensing mechanism that automatically stops the film advance at the end of an exposed cartridge. This is a foolproof sensing mechanism that, unlike other leading motor drive units, operates without the film frame counter being set.

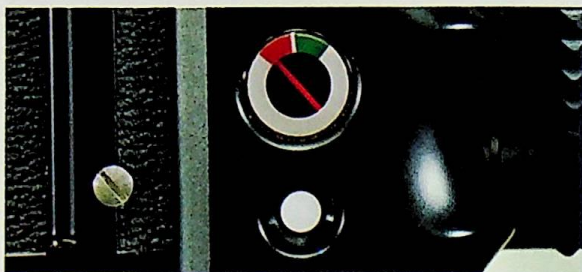
Automatic Film Rewind Sensor Pin

This feature stops the automatic film rewinding mechanism of the XK Motor before the film is completely rewound into its cartridge, leaving the end of the film protruding for ease of film unloading in the darkroom.



Motor Battery Checker

A touch of a convenient button located on the camera's hand grip indicates that batteries are operating at full power. A green indication shows satisfactory power, a white warning indicates caution, a red warning indicates batteries should be replaced.

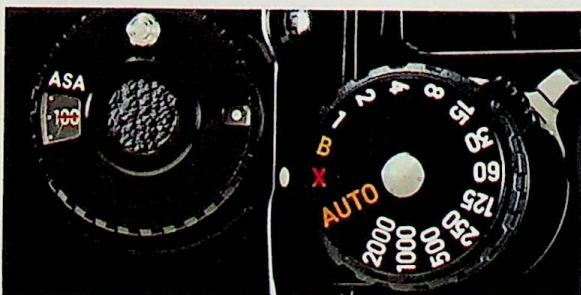


Grip-Sensswitch

This unique switch, which responds to your hand as you grip the camera, switches on the Auto-Exposure circuitry and shuts it off when the camera is released. It is similar to the Auto-Sensswitch of the XK camera.

Battery Warning Fail/Safe Device

Besides the convenient battery checker at the left side of body, the mirror of the XK Motor locks up automatically when power from the silver oxide battery for exposure control is low, indicating that the battery should be replaced. Selecting "X" on shutter speed dial in this case, provides mechanical speed of 1/100 sec. When the camera is operated manually, the aperture can be adjusted for proper exposure.



Separate Battery Pack

Especially useful for cold-weather photography, but a practical accessory for all conventional motor-drive photography as well, this slender, lightweight case holds the motor drive batteries and fits conveniently into a coat pocket. Helps reduce the size and weight of the XK Motor to hardly more than a conventional SLR.

Remote-Control Cords S and L

Designed to operate the XK Motor camera from a distance. Ideal for making remote pictures of wildlife, for shots mounted or panned from a tripod, or exposures from the subject position so that the photographer need not return to the camera. Cord S is 1m (about 40 inches) long; Cord L is 5m (16½ft.).

Intervalometer PM

This battery-powered repeating timer can be set for different photographic intervals. It is effective for collecting atmospheric data and in recording production and research phenomena, and can be set for intervals from 0.5 seconds to 60 seconds between single-frame exposures.

Connecting Cords S and L

Used to electrically connect the Intervalometer PM and similar devices to the camera. Cord S is 50cm (about 20 in.) long; Cord L is 250mm (about 8¼ft.).

Leather Holding Strap

This handsome, durable strap lends even greater operating control to the XK Motor.



Type: Integral motor-drive, interchangeable-finder/screen-type. 35mm single-lens reflex with electronic focal plane shutter.

Lens Mount: Stainless steel Minolta bayonet.

Standard lenses: MD Rokkor-X 50mm f/1.7, 50mm f/1.4, or MC Rokkor-X 58mm f/1.2.

Shutter: Electronically controlled focal-plane type with titanium curtains and 2 mechanically controlled settings. Electronic speeds: 16 to 1/2000 sec. in steps, 8 to 1/2000 sec. continuously variable. Mechanical settings: X (1/100 sec.) and B.

Film Advance: Motor driven: By single micromotor for S (single-frame) or 1, 2, 3, and "H" (3.5) continuous frames per second. Automatic advance stop. Manual: Lever type, similar to XK camera. Film advance locks when voltage is insufficient.

Rewind: Motor-driven: by same motor as for film advance, automatic rewind stop. Manual: By crank.

Mirror: Over-size, quick-return type.

Flash Sync: X contact: 1/100 (X) and longer speeds. FP contact: All speeds through 1/2000 sec.; single terminal with terminal with X/FP switch, direct contact on optional accessory for cordless flashguns.

Power Source: Exposure controlled: 2 silver-oxide batteries (Eveready S-76 or equivalent). Motor driven: 10 sealed carbon-zinc AA (penlight)-size batteries.

AE-S Finder: Eyelevel pentaprism with built-in meter; automatic electronic and metered/manual exposure control. Full-aperture TTL center-weighted type by silicon photocell. Visible in finder: f-number, LED/digital shutter speed indicator. Measuring range: EV -2 to EV 17 (e. g., 8 sec. at f/1.4 to 1/2000 sec. at f/8) for single-frame operation, EV 3 to EV 17 (e. g. 1/4 sec. at f/1.4 to 1/2000 sec. at f/8) for continuous operation with f/1.4 lens at ASA 100.

Other Features: Multiple exposures, auto-exposure override control (± 2 EV), built-in auto "senswitch", battery checkers for exposure and motor batteries, memo holder and ASA-DIN conversion scale, remote control input jack.

Dimensions and Weight: 83×14.7×171mm (3¼×5¾×6¾ in.). 1450g (51oz.) with AE-S finder and standard battery pack, without lens and batteries.

MINOLTA XE-7 and XE-5



New electronic shutter—key to the XE-7 and XE-5 automatic exposure system.

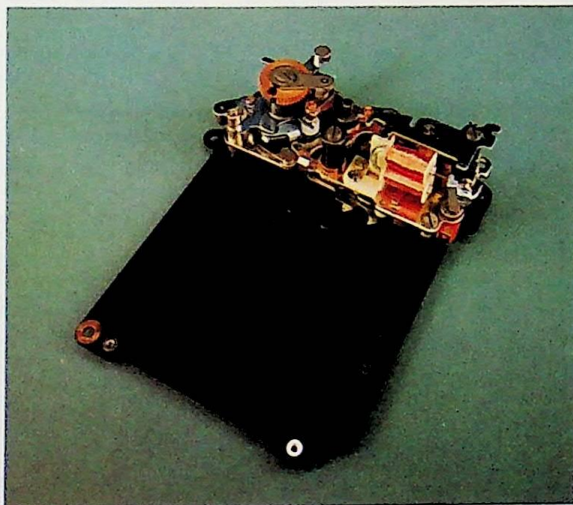
The same advanced technology that distinguishes the XK provides the XE-7/5 with the Minolta automatic exposure system, a sophisticated electronic circuitry that automatically takes account of film speed, lighting conditions, shutter speed, and other essential data, permitting an unprecedented degree of precise control.

Minolta's exclusive Contrast Light Compensator meter measures light through the lens at full aperture by means of 2 light-sensitive CdS cells.

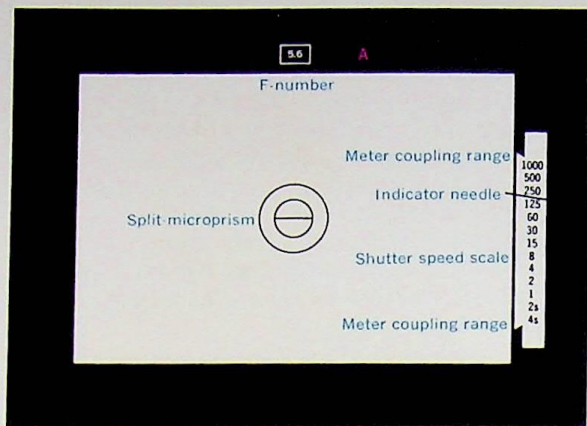
Also an essential factor in the remarkably swift and accurate XE-7/5 exposure is the silky smooth electronic focal plane shutter. This vertical traverse metal blade shutter is unique in giving the precise exposure required in steplessly variable speeds. An infinite number of shutter speeds from 1/1000 sec. to a full four seconds are automatically provided, giving a fine distinction of accuracy.

In manual, stepped operation, the XE-7/5 offer accurate electronically controlled speed from 1/1000 to long exposures of a full 4 sec. The XE-7/5 shutter also marks a new low in vibration and noise level, so low that you are unlikely to feel or hear it.

Both mirror and shutter operation are the next best thing to soundlessness. Minolta cooperated with West Germany's Ernst Leitz GmbH and Japan's Copal Co., Ltd. to produce this new shutter.



The XE-7 Control Center Viewfinder



The total information viewfinder of the XE-7 contributes to creative control over your photographic subject. Without taking the camera from your eye, you are able to operate all significant XE-7 mechanisms. You can select the aperture, and/or shutter speed, focus, frame and shoot—with maximum speed of operation.

The mat Fresnel screen has a central split image focusing spot, and this is surrounded by a microprism band for accurate focusing. The f-number is visible at all times.

With the shutter speed dial set to 'A', the camera operates in automatic exposure mode—the letter 'A' appears next to the f-number and the appropriate electronically calculated shutter speed is indicated by the black indicator needle which moves along an easy-to-read, vertical scale.

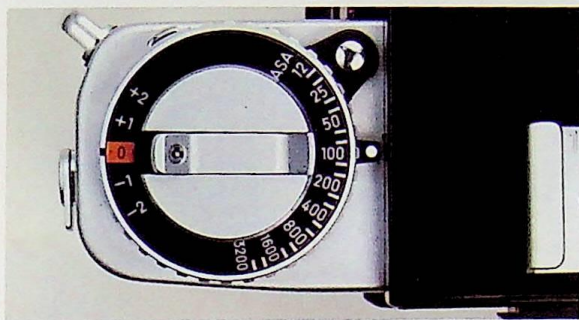
When the shutter speed dial is changed from 'A', the 'A' moves out of the finder and the set shutter speed appears. In this mode, you achieve correct exposure by changing the lens aperture setting until the indicator needle aligns with the shutter speed that is indicated in the window.

There may also be times when you'll wish to rely on your own photographic knowledge for judging correct exposure. Even then the XE-7, like no other camera made today, provides all vital information at a glance.

The XE-5 is a simplified version of the XE-7. The viewfinder shows only the shutter speed indicator needle on an easily visible vertical scale. The XE-5 incorporates all the XE-7's essential technological features, thus completing Minolta's range of electronic SLR cameras.

Over/Under Exposure Control

Whenever you want to override the automatic exposure manually—perhaps for specialized effect or in compensation for unusual or complicated lighting—you can use the stepless over/under exposure control from 2EV (four times or 2 full stops) under to 2EV over the metered value. This is simply done by pressing the button located on the ASA setting dial and aligning the control notch with the "plus" or "minus" exposure setting you want.



Battery Checker

Press down the battery checker lever, and the light will glow if the batteries have sufficient strength.

As an extra safety warning, if the shutter is released with insufficient battery power, the mirror stays up so that the viewfinder appears completely dark.

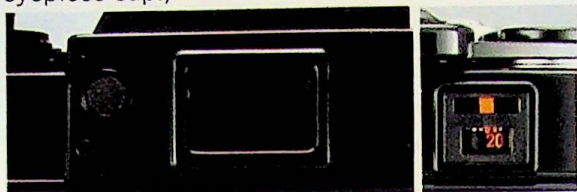


Self-Timer

The built-in self-timer lever releases the shutter after an operating time variable from approximately six to ten seconds.

Eyeiece Shutter (for XE-7 only)

The XE-7 is equipped with a built-in eyeiece shutter to close or open the finder eyeiece, thus preventing light from entering through the eyeiece and affecting the meter. This feature is especially useful in self-timed or close-up photography. (The XE-5 is fitted with an eyeiece cap.)



Safe Load Signal (for XE-7 only)

In the event of incorrect film loading or failure to advance, the Safe Load Signal on the XE-7 will give you instant notice. This exclusive Minolta signal above the frame counter gives visual confirmation of proper loading and advance.

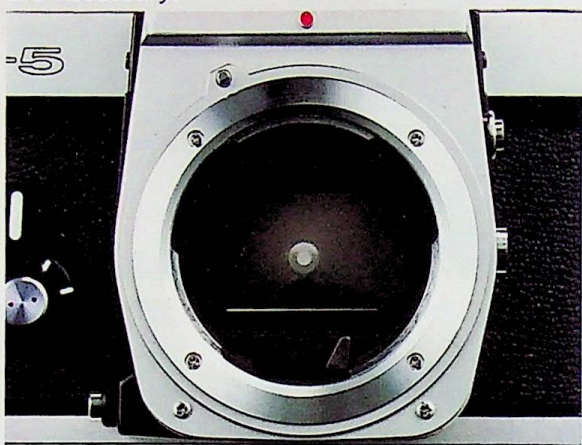
Multiple Exposures (for XE-7 only)

A special multiple exposures control on the XE-7 permits you to cock the shutter without advancing the film. Accurate multiple exposures are easily achieved as the film holds its exact position, irrespective of the number of exposures on a single frame.



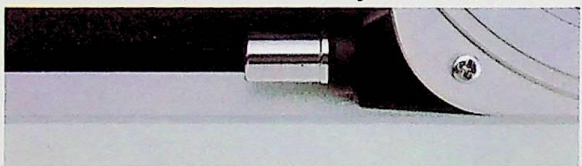
Bayonet Lens Mount

All Rokkor-X and Celtic lenses are bayonet-mounted. Minolta has tried, tested, and proved the efficacy of this rapid, trouble-free lens mounting system for many years to ensure lasting precision fit of lens to camera. The lens is mounted by inserting and twisting 54° in a single smooth motion. No special adjustments are necessary.



Depth-of-Field Preview Button

A touch of the depth-of-field preview button lets you manually stop down the lens to a predetermined aperture to see what effect the focus and f-stop will have on your final shot.



XE-7 and XE-5 Specifications

Type: 35mm single-lens reflex with automatic and metered-manual exposure control.

Lens Mount:

Minolta bayonet
Standard lenses: MD Rokkor-X 50mm f/1.7, 50mm f/1.4, or MC Rokkor-X 58mm f/1.2.

Shutter:

Electronically controlled vertical traverse metal-blade focal-plane type.
Electronic speeds: 4 to 1/1000 second in steps or stepless.

Mechanical settings: "X" (1/90 sec.) and "B".

Auto Exposure Control: Special low-voltage circuit incorporating two monolithic ICs varies shutter speed continuously and steplessly. Auto exposure range: EV 1 to EV 17 (e.g., 1 sec. at f/1.4 to 1/1000 at f/11) at ASA 100 with f/1.2 lens.

Viewfinder: Eye-level fixed pentaprism type. Mat-Fresnel-field focusing screen with central horizontally oriented split-image focusing spot surrounded by microprism band. Visible in finder: f-number shutter speed or "A" for "Auto" mode (for XE-7 only) shutter speed scale, shutter speed indicator needle.

Light Metering: Full-aperture TTL type with CLC (Contrast Light Compensator) by two CdS cells.

Mirror: Oversize quick-return type.

Film Advance: Lever-type, single 130° stroke after 30° unengaged movement.

Self-Timer: Lever-type from 6 to 10 sec.

Flash Sync.:

XE-7—X contact: 1/90 (X) and longer speeds

FP contact: All speeds through 1/1000 sec.

Single terminal and hot shoe with X/FP switch

XE-5—X contact: 1/90 (X) and longer speeds.

Sync. terminal and hot shoe for X only.

Power Source: Two 1.5v silver-oxide cells (Eveready S-76 or equivalent).

Other Features: Over/under exposure control, Battery checker, Memo holder.

XE-7—Safe load signal, Multiple exposures, Eyepiece shutter.

XE-5—Eyepiece cap.

Dimensions:

XE-7—61x97x148mm (2 $\frac{3}{8}$ " x 3 $\frac{13}{16}$ " x 5 $\frac{13}{16}$ ") without lens

XE-5—58x97x148mm (2 $\frac{5}{16}$ " x 3 $\frac{13}{16}$ " x 5 $\frac{13}{16}$ ") without lens

Weight: XE-7—775 g (27 $\frac{5}{16}$ oz.) without lens

XE-5—730 g (25 $\frac{11}{16}$ oz.) without lens

Perspective Conversion Photos



7.5mm



16mm



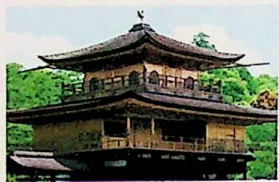
17mm



28mm



35mm



100mm



135mm



500mm(100-500mm ZOOM)



800mm



21mm



24mm



50mm



85mm



200mm



300mm



1600mm

Rokkor-X Lenses: 7.5 to 1600 Millimeters

All the Rokkor-X lenses are pure Minolta from beginning to end at our own factories.

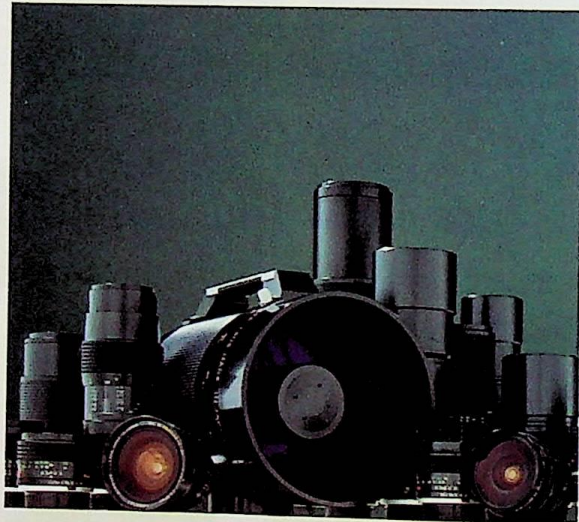
All the glass that goes into each Rokkor-X is made from a highly classified formula. And Rokkor-Xs are treated with Minolta's exclusive Achromatic Coating.

The complete collection of Rokkor-X lenses provides the accomplished photographer with an impressive number of alternative viewpoints.

For maximum aperture viewing, automatic diaphragm operation is featured on 26 meter coupling lenses.

Of 11 wideangle lenses, the 7.5mm Rokkor-X presents a circular-image fisheye view of the world. There are a bellows Rokkor-X and two Macros. Three Rokkor-X Zooms have smooth, one-hand zooming and focusing. And of the 10 remaining telephoto lenses, two are of the relatively compact mirror-reflex configuration—the 800mm and 1600mm Rokkor-Xs.

Extending total, unhampered creative control, the Rokkor-X range of lenses is comprehensive and complete.



7.5mm f/4 MC Fisheye Rokkor-X

Construction: 12 elements in 8 groups

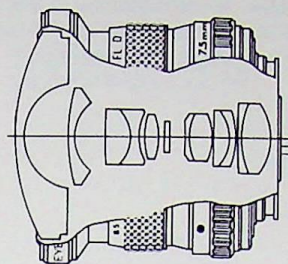
Angle of view: 180°

Focusing: Fixed at 1.2m
(4 ft.)

Covering 0.5m
(1.75 ft.) to
infinity at full
aperture

Filters: Built-in

Diaphragm: Auto preset
f/4—f/22



16mm f/2.8 MC Fisheye Rokkor-X

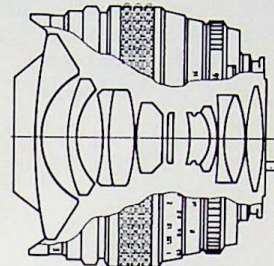
Construction: 11 elements in 8 groups

Angle of view: 180°

Min. focus distance: 0.3m
(1 ft.)

Filters: Built-in

Diaphragm: Auto preset
f/2.8—f/16



17mm f/4 MC W Rokkor-X

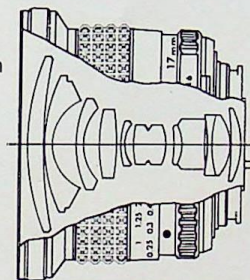
Construction: 11 elements in 9 groups

Angle of view: 104°

Min. focus distance: 0.25m
(0.8 ft.)

Filter thread diameter: 72mm

Diaphragm: Auto preset
f/4—f/16



21mm f/2.8 MC W Rokkor-X

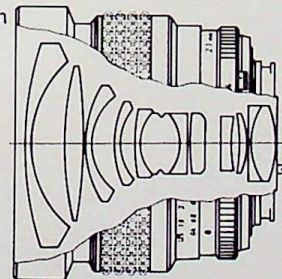
Construction: 12 elements in 9 groups

Angle of view: 91°

Min. focus distance: 0.25m
(0.8 ft.)

Filter thread diameter:
72mm

Diaphragm: Auto preset
f/2.8—f/16



24mm f/2.8 MD W Rokkor-X

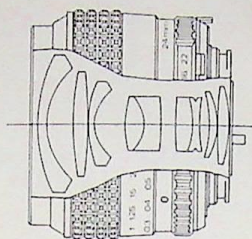
Construction: 9 elements in 7 groups

Angle of view: 84°

Min. focus distance: 0.3m (1 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset
f/2.8—f/22



28mm f/2.8 MD W Rokkor-X

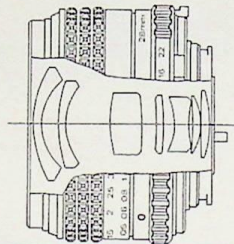
Construction: 7 elements in 7 groups

Angle of view: 76°

Min. focus distance: 0.3m (1 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset
f/2.8—f/22



28mm f/2 MC W Rokkor-X

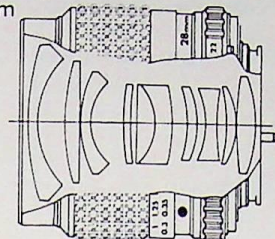
Construction: 10 elements in 9 groups

Angle of view: 76°

Min. focus distance: 0.3m (1 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset
f/2—f/16



35mm f/2.8 MD W Rokkor-X

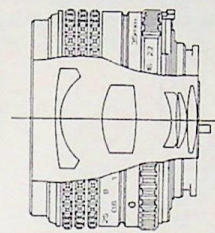
Construction: 5 elements in 5 groups

Angle of view: 64°

Min. focus distance: 0.3m (1 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset
f/2.8—f/22



35mm f/1.8 MC W Rokkor-X

Construction: 8 elements in 6 groups

Angle of view: 64°

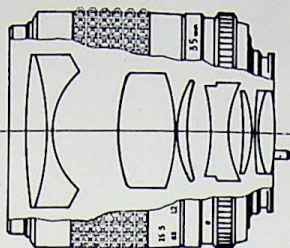
Min. focus distance: 0.3m (1 ft.)

Filter thread diameter:

55mm

Diaphragm: Auto preset

f/1.8–f/16



50mm f/1.7 MD Rokkor-X

Construction: 6 elements in 5 groups

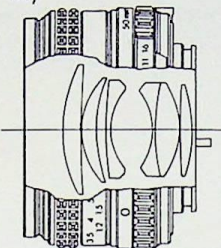
Angle of view: 47°

Min. focus distance: 0.45m (1.47 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/1.7–f/16



50mm f/1.4 MD Rokkor-X

Construction: 7 elements in 5 groups

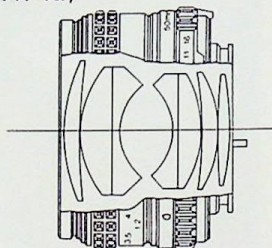
Angle of view: 47°

Min. focus distance: 0.45m (1.47 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/1.4–f/16



50mm f/1.2 MC Rokkor-X

Construction: 7 elements in 5 groups

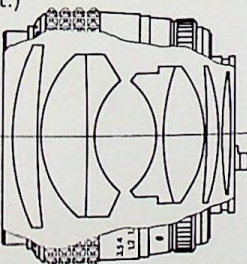
Angle of view: 41°

Min. focus distance: 0.6m (2 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/1.2–f/16



85mm f/1.7 MC Rokkor-X

Construction: 6 elements in 5 groups

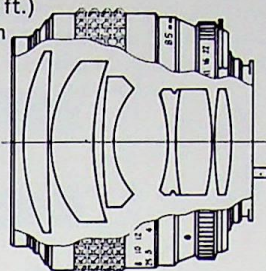
Angle of view: 29°

Min. focus distance: 1m (3.3 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/1.7–f/22



100mm f/2.5 MC Tele Rokkor-X

Construction: 5 elements in 5 groups

Angle of view: 24°

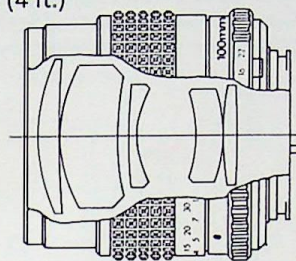
Min. focus distance: 1.2m (4 ft.)

Filter thread diameter:

55mm

Diaphragm: Auto preset

f/2.5–f/22



135mm f/3.5 MD Tele Rokkor-X

Construction: 4 elements in 4 groups

Angle of view: 18° Min. focus distance: 1.5m (5 ft.)

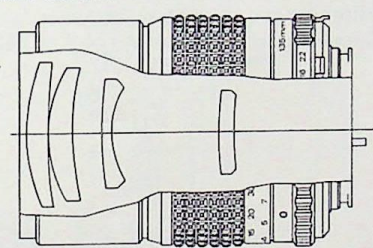
Filter thread diameter: 55mm

Diaphragm: Auto

preset

f/3.5–

f/22



135mm f/2.8 MD Tele Rokkor-X

Construction: 4 elements in 4 groups

Angle of view: 18° Min. focus distance: 1.5m (5 ft.)

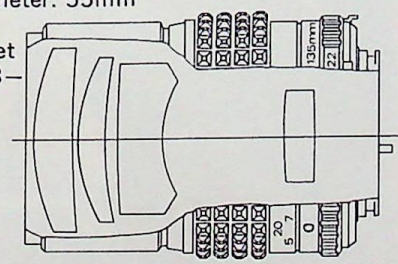
Filter thread diameter: 55mm

Diaphragm: Auto

preset

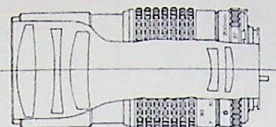
f/2.8–

f/22



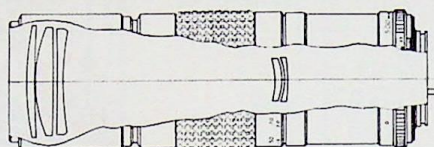
200mm f/4 MD Tele Rokkor-X

Construction: 5 elements in 5 groups
Angle of view: $12^{\circ}30'$
Min. focus distance: 2.5m (8 ft.)
Filter thread diameter: 55mm
Diaphragm: Auto preset
f/4—f/32



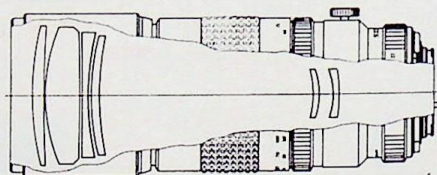
300mm f/5.6 MC Tele Rokkor-X

Construction: 5 elements in 5 groups
Angle of view: $8^{\circ}10'$
Min. focus distance: 4.5m (15 ft.)
Filter thread diameter: 55mm
Diaphragm: Auto preset f/5.6—f/22



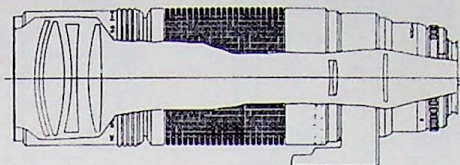
300mm f/4.5 MC Tele Rokkor-X

Construction: 6 elements in 6 groups
Angle of view: $8^{\circ}10'$
Min. focus distance: 4.5m (15 ft.)
Filter thread diameter: 72mm
Diaphragm: Auto preset f/4.5—f/22



400mm f/5.6 MC Apo Tele Rokkor-X

Construction: 7 elements in 6 groups
Angle of view: $6^{\circ}10'$
Min. focus distance: 5m (16 ft.)
Filter thread diameter: 72mm
Diaphragm: Auto preset f/5.6—f/32

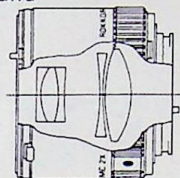


MC 2X Converter for 400mm f/5.6

MC Apo Tele Rokkor-X

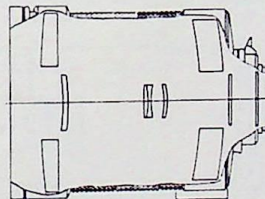
Type: Coupled optical type for use between camera body and lens

Construction: 5 element in 3 groups
With the 400mm f/5.6 MC Apo Tele Rokkor-X, the focal length of the lens and converter combination is 800mm and maximum aperture is f/11.



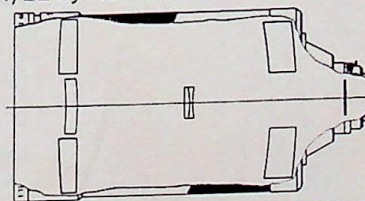
800mm f/8 RF Rokkor-X

Construction: 2 mirrors, 8 lens elements in 7 groups
Angle of view: $3^{\circ}10'$
Min. focus distance: 8m (26 ft.)
Filters: Integral lens-element type
F-stops: f/8 and f/16 by ND filters



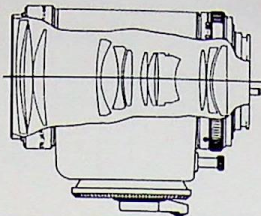
1600mm f/11 RF Rokkor-X

Construction: 2 mirrors, 6 lens elements in 5 groups
Angle of view: $1^{\circ}30'$
Min. focus distance: 20m (70 ft.)
Filters: Integral lens-element type
F-stops: f/11 and f/22 by ND filters



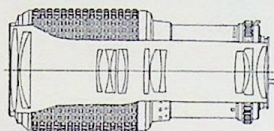
40-80mm f/2.8 MC Zoom Rokkor-X

Construction: 12 elements in 12 groups
Angle of view: 57°–30°
Min. focus distance: 1m (3.3 ft.)
37cm (14.56 in.) at close-up setting
Filter thread diameter: 55mm
Diaphragm: Auto preset
f/2.8–f/22



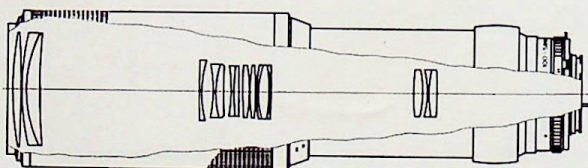
80-200mm f/4.5 MD Zoom Rokkor-X

Construction: 14 elements in 10 groups
Angle of view: 30°–12°30'
Min. focus distance: 1.8m (6 ft.)
Filter thread diameter: 55mm
Diaphragm: Auto preset f/4.5–f/32



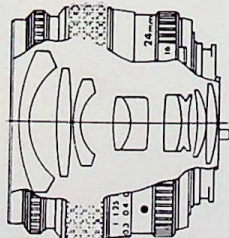
100-500mm f/8 MC Zoom Rokkor-X

Construction: 16 elements in 10 groups
Angle of view: 24°–5°
Min. focus distance: 2.5m (8 ft.)
Filter thread diameter: 72mm
Diaphragm: Auto preset f/8–f/32



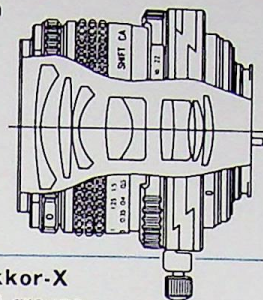
24mm f/2.8 MC VFC Rokkor-X

Construction: 9 elements in 7 groups
Angle of view: 84°
Min. focus distance: 0.3m (1 ft.)
Filter thread diameter: 55mm
Diaphragm: Auto preset
f/2.8–f/16



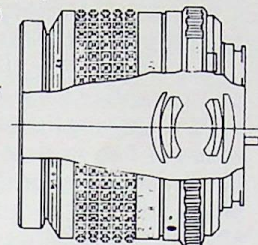
35mm f/2.8 Shift CA Rokkor-X

Construction: 9 elements in 7 groups
Angle of view: 63°
Min. focus distance: 0.3m (1 ft.)
Filter thread diameter: 55mm
Diaphragm: Auto preset
f/2.8–f/22



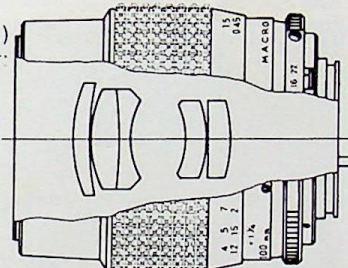
50mm f/3.5 MC Macro Rokkor-X

Construction: 6 elements in 4 groups
Angle of view: 47°
Min. focus distance: 0.23m (9 in.)
Filter thread diameter: 55mm
Diaphragm: Auto preset
f/3.5–f/22
Accessories: Life-Size Adapter



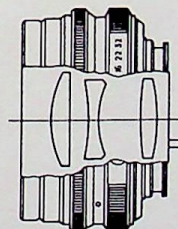
100mm f/3.5 MC Macro Rokkor-X

Construction: 5 elements in 4 groups
Angle of view: 24°
Min. focus distance:
0.45m (1.5 ft.)
Filter thread diameter:
55mm
Diaphragm:
Auto preset
f/3.5–f/22
Accessory: Life-Size
Adapter



100mm f/4 Auto Bellows Rokkor-X

Construction: 3 elements in 3 groups
Angle of view: 24°
Filter thread diameter: 55mm
Diaphragm: Auto preset f/4–f/32



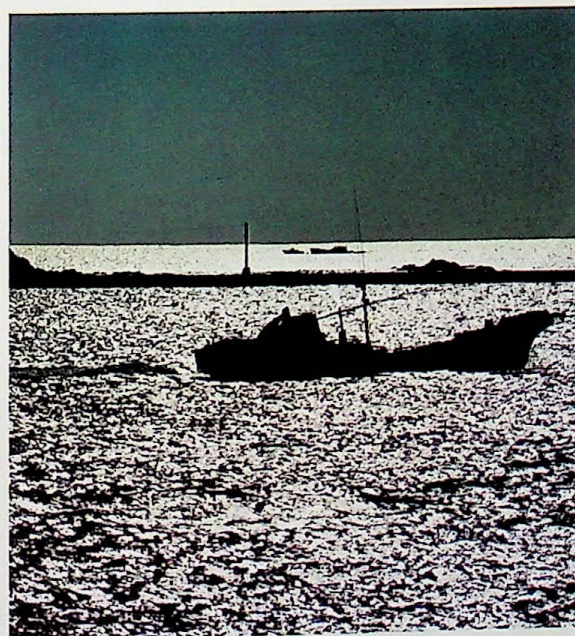
Minolta/Celtic Lenses: Quality Optics at a Popular Price

Computer designed and quality built into typically high Minolta lens standards, Minolta/Celtic lenses offer the discriminating photographer a variety of the most commonly used focal lengths at popular prices. They are made of fine optical glass in Minolta's own lens-making factories and, like all Minolta products, are guaranteed. At present, seven Minolta/Celtic lenses are available: the 28mm f/2.8, the 35mm f/2.8, the 135mm f/2.8, the 135mm f/3.5, the 200mm f/4.5, the 100-200mm Zoom f/5.6 and the 50mm Macro f/3.5.



Celtic Lenses Chart

LENS	ELEMENTS/GROUPS	ANGLE OF VIEW	MINIMUM FOCUS	MINIMUM F-STOP	DIMENSIONS	WEIGHT
28mm f/2.8 MC MINOLTA/CELTIC	7/7	76°	1 ft.	f/16	ø64.5 x 43.5mm	240g (8 1/4 oz.)
35mm f/2.8 MC MINOLTA/CELTIC	5/5	64°	1 ft.	f/16	ø64.5 x 41.5mm	220g (7 3/4 oz.)
135mm f/3.5 MC MINOLTA/CELTIC	4/4	18°	5 ft.	f/22	ø64.5 x 88.5mm	410g (14 1/4 oz.)
135mm f/2.8 MC MINOLTA/CELTIC	4/4	18°	5 ft.	f/22	ø64.5 x 89.5mm	535g (1 lb. 2 1/2 oz.)
200mm f/4.5 MC MINOLTA/CELTIC	5/5	12°	8 ft.	f/22	ø64.5 x 130mm	535g (1 lb. 2 1/2 oz.)
100-200mm f/5.6 MC ZOOM MINOLTA/CELTIC	8/5	24°-12°	8 ft.	f/22	ø63.5 x 173mm	575g (1 lb. 4 1/2 oz.)
50mm f/3.5 MC MACRO MINOLTA/CELTIC	6/4	46°	9 in.	f/22	ø66.5 x 55.5mm	325g (11 1/4 oz.)

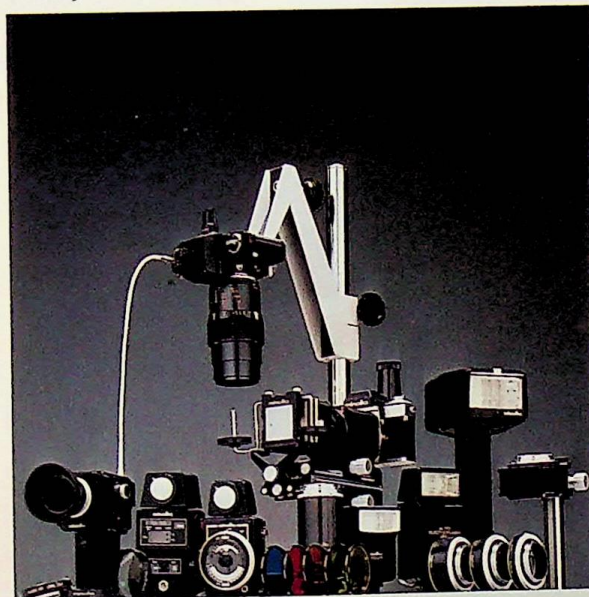




**Minolta XK, XE-7 and XE-5 System
Accessories: Invaluable Aids for Creative
Photography**

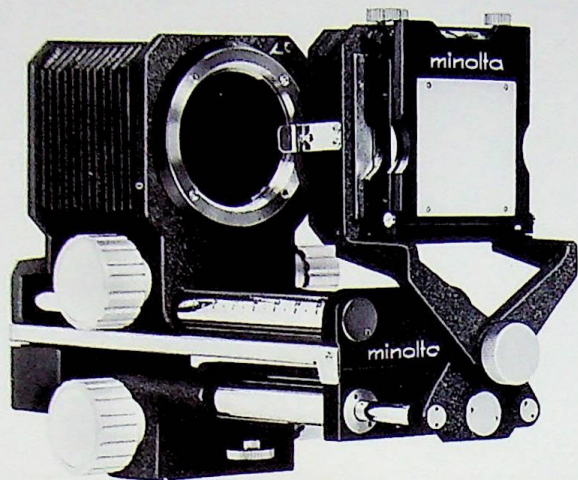
The XK, XE-7 and XE-5 are the heart of a complete photographic system. Your Minolta camera can be used with more than 150 accessories in the Minolta System of Creative Photography, to accomplish any photographic job you can imagine. That is the basis of the Minolta System. Its only limit is your imagination,

Light, subject matter, size, distance, speed, time, even climate cannot limit your ability to get the shot you want. Whatever photographic project you conceive, the Minolta System of close-up equipment, bellows attachments, Electroflashes, extension tubes, meters, filters, special equipment adapters, viewing and focusing aids can turn the idea into artistic reality.



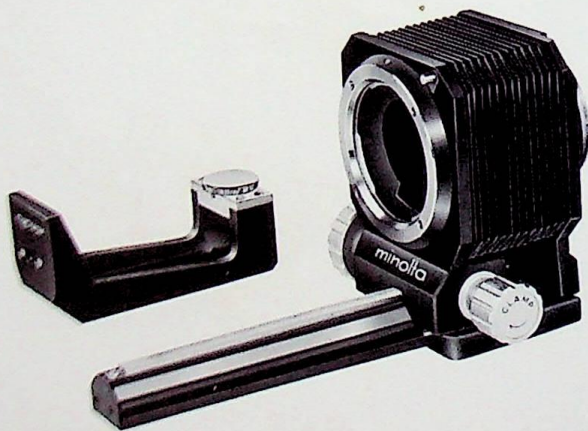
Auto Bellows I

Attached to a Minolta SLR camera, this deluxe double track bellows provides calibrated extension between the lens and film. It features an automatic diaphragm coupling device and attaches to the camera body in the same manner as a lens. Used with the standard 50mm Rokkor-X lens, the Auto Bellows I permits continuous magnification from 0.75X to 3.10X.



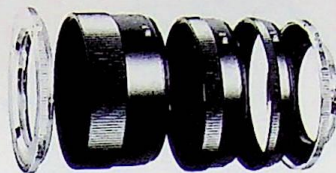
Bellows III

Reasonably priced, compact and lightweight, this Bellows performs many of the same functions as the Auto Bellows I. Magnifications between 0.70X and 3.14X can be obtained with the Bellows III and a 50mm lens.



Extension Tube Set II

This set of five separate tubes can be used in various combinations for close-up photography with Rokkor-X lenses. Function of the tubes is to increase magnification by lengthening the lens-to-film distance. When used with Minolta SLR cameras, no compensation for exposure is necessary since exposure readings may be taken through the tube and lens combination.



MC Auto Extension Tubes

Added versatility is the key feature of the MC Auto Extension Tubes. Full aperture meter coupling is automatic with all MC Rokkor-X lenses.

Use of the tubes singly, or interlocked in various combinations of the 14mm, 21mm and 28mm lengths gives magnification of approximately 0.27X to 1.35X with a standard 50mm lens. Each tube has a Minolta bayonet mount on one end and a matching receptacle on the other. This all bayonet system makes for fast, easy attachment and change.



Close-up Lenses

These lenses screw into the filter mount of Rokkor-X lenses to permit focusing at close-up distances. Lenses 1 and 2 may be used in combination to allow work as close as 9 inches from the subject. Lens 0 is for use on telephoto lenses.



Auto Electroflash 450

The versatile 450 yields a maximum guide number of 72 (feet at ASA 25; 45 meters, ASA100). The wideangle diffuser covers the field of a 24mm lens. Perfect exposure is assured with choice of 5 apertures on any setting, and optional automatic bounce/off-camera flash. The 450 is powered by alkali-manganese batteries, or optional rechargeable Ni-Cd battery cartridges.



Auto Electroflash 280

The 280 yields a maximum guide number of 46 (feet at ASA 25; 28 meters, ASA 100). The series-thyristor circuit gives shortest recycling time and maximizes flash-use per battery.

Automatic direct/bounce flash exposure is featured in the 280, covering the field of a 35mm lens. Power sources are alkali-manganese or rechargeable Ni-Cd batteries.



Auto Electroflash 32 and 28

Compact cordless/corded units with guide number of 32 and 28 (in meters at ASA 100, 52 and 46 in feet at ASA 25). Both units provide automatic flash exposure even with bounce operation. Auto Electroflash 32 has an illuminated control dial and can select two different apertures. Optional Ni-Cd battery cartridge, Charger and AC adapter are available.



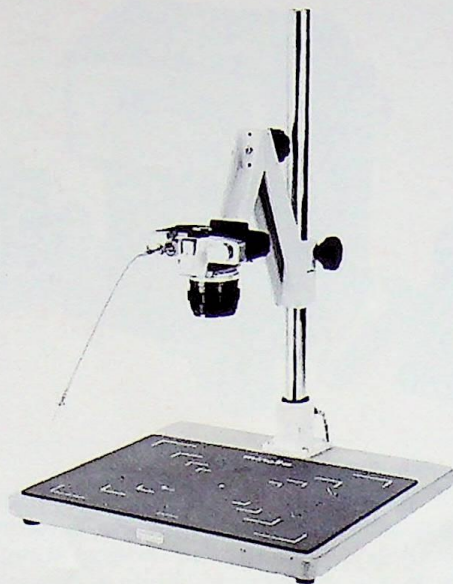
Auto Electroflash 25

This compact cordless/corded unit with max. guide number of 41 (feet, ASA 25; 25 for meters., ASA100) slides into the hot shoe on Minolta SLR cameras and makes completely automatic electronic flash exposures by means of a built-in sensor or can be used as a conventional non-auto unit. Recycling is indicated by a monitor lamp.



Copy Stand II

This rigid camera support assures maximum stability in all photomacrography, and is highly recommended for copying flat or three-dimensional materials. It features a heavy duty $15\frac{1}{2} \times 17\frac{3}{4}$ inch baseboard and a 24-inch chrome tube to provide secure support for camera and macro equipment.



Microscope Adapter

This two-piece device is used to connect Minolta SLR cameras to a microscope. One section bayonets into the camera body in place of the lens while the other end fits into the ocular adapter tube section of the microscope. Taking photomicrographs is easy with this adapter because you can follow moving specimens up to the precise moment of exposure.



Magnifier V

This is a useful tool for precise focusing when making photomicrographs, copying and taking distant telephoto pictures. It features an adjustable eyepiece and a 2.5X magnification power, and can be focused for individual eyesight.



Angle Finder V

This eyepiece attachment permits viewing with the camera held below the eye. Focusing may be made from any position as the finder can be rotated in a full circle and a right-way-round image can be achieved. The eyepiece is adjustable for individual eyesight.



Panorama Head II

The Minolta Panorama Head II is specially designed to be attached between a Minolta single-lens-reflex camera and a tripod for photographing panoramic views up to full 360° in a sequence of photos that can be matched accurately.



Eyepiece Correction Lenses

Focusing aid for far- and near-sighted photographers is provided by these special lenses which snap into the frame of the eyepiece. Minolta makes nine different diopter strengths, from -4 to +3.



Polarizing Filters

These special filters help eliminate or control reflections and can also be used to darken skies to produce unusual and dramatic photographic effects. They screw into a Rokkor-X lens in the same way as an ordinary filter. They may be used with any Rokkor-X lens having a screw mount diameter of 52 or 55mm.

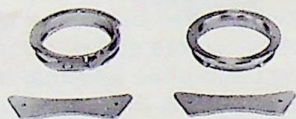
Solid Glass Filter

Minolta filters are invaluable aids in heightening or diminishing specific kinds of photographic effects. They are made in Minolta's own factories to insure uniform quality. Filters available include L39, Y48, R60, 056, GO, ND, 80B, 85A and 1A.



Lens Mount Adapters

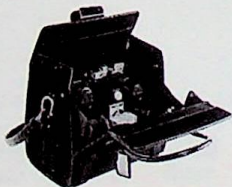
Minolta makes adapters for Leica and Praktica lenses, which will lock securely to Minolta SLR camera bodies with the use of a special key which is supplied. Any lens with Praktica mount can be used with Minolta SLR cameras and focused through their full range. Lenses with Leica mount can be used for close-up and copy work.



XB-7 Gadget Bag

This gadget bag holds your cameras, interchangeable lenses, film and accessories. You can choose the equipment you need for your picture taking needs.

For instance, it holds two Minolta SLRs, each with up to 200mm lens; two lenses up to 200mm, one 300mm lens, two or three wideangles, and other accessories as needed. Inside of bag can be divided in many ways by means of partitions provided.



M-Tag Promises Long-Term Satisfaction

The "M" tag attached to our XK, XE-7 and XE-5 stands for many extra benefits that will help you get more out of your camera. Along with the Minolta U.S.A. and Minolta Camera (Canada), Inc. two-year warranty, it's your assurance that your Minolta 35mm SLR camera is warrantied against defects in materials and workmanship for a two-year period. (That's one year longer than with most cameras.) When you send in your warranty certificate you become a member of the Minolta Club. This means you will receive a subscription to "The Contact Sheet," a newsletter especially for Minolta SLR camera owners. Among other things, it includes information on new equipment, question and answer columns, money saving coupons, photo contest announcements, gallery reports, famous Minolta photographer feature stories, plus a how-to-do-it corner. Look for the "M" tag. Another quality assurance from Minolta.





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