

# MINOLTA XK, XE-7 and XE-5



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





## THE MINOLTA XK, XE-7 and XE-5

### Designed for the Discerning Photographer

The Minolta electronic SLR cameras are perfect examples of the heights photography can reach. You couldn't imagine a more advanced contemporary SLR camera than these unique results of Minolta devotion to top quality design and craftsmanship.

Pinpoint exposure is achieved with the minimum of adjustment and time, utilizing the electronically operated automatic exposure system, and control center viewfinder on the X series.

The XK model is a highly sophisticated, intricate, superb-quality camera—and only the XK in the X series has various unique features such as interchangeable finders and focusing screens among which Minolta's exclusive Auto ElectroFinder operates the automatic exposure.

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 58mm f/1.2, the 50mm f/1.4 and the 50mm f/1.7.

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.

With the keys of versatility, handling ease, Minolta's X-series cameras open the door to new vistas of creative photography.



MINOLTA XK



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

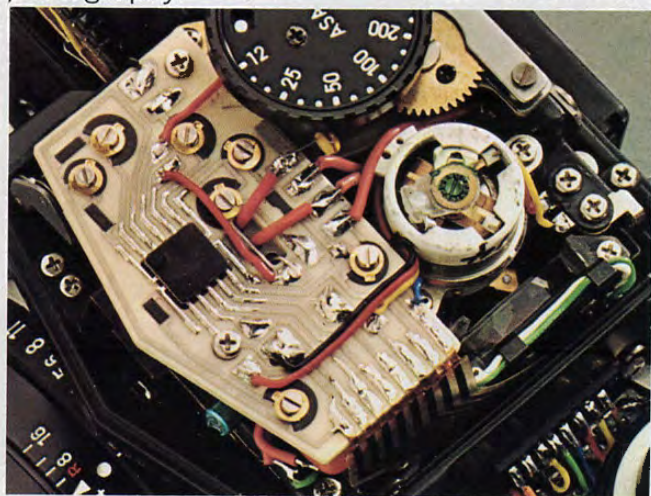
Ease, accuracy, and versatility are the keynotes of the XK. But now the most complete XK has a special plus-factor—the Auto Electro Finder (AE Finder), providing automatic exposure. Once the lens opening is set, shutter speed is controlled and set electronically.

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 to long exposure of a full 16 sec.

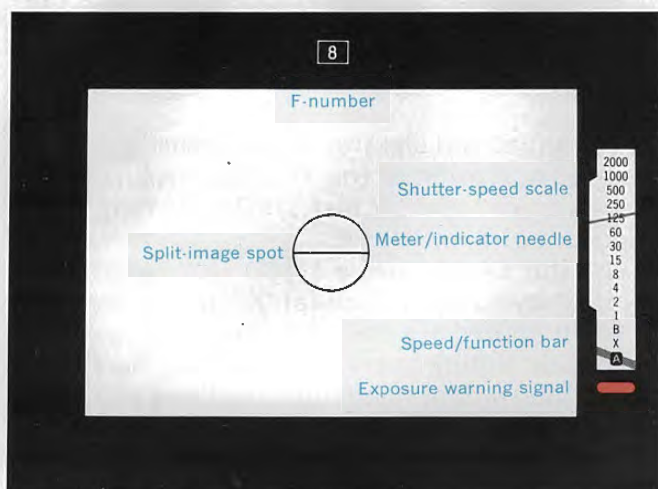
And the XK includes a 1/100 second setting for flash synchronization (at 'X') and 'B' for bulb.

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 dioptic 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 nine different 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.

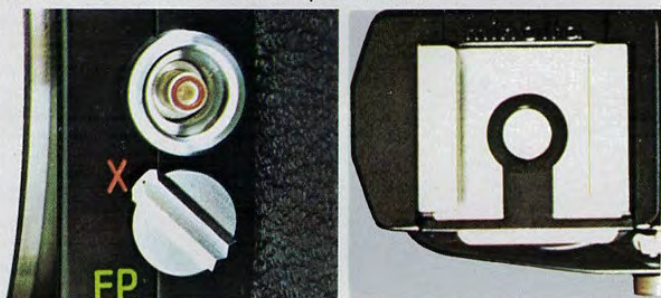




### Flash Synchronization

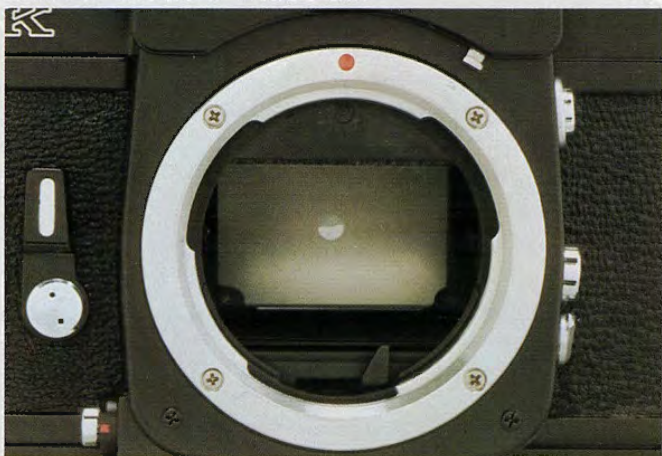
By setting the shutter speed dial at 'X', the shutter synchronizes with electronic flash units at a rapid 1/100 second. A switch is provided for X or FP synchronization.

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

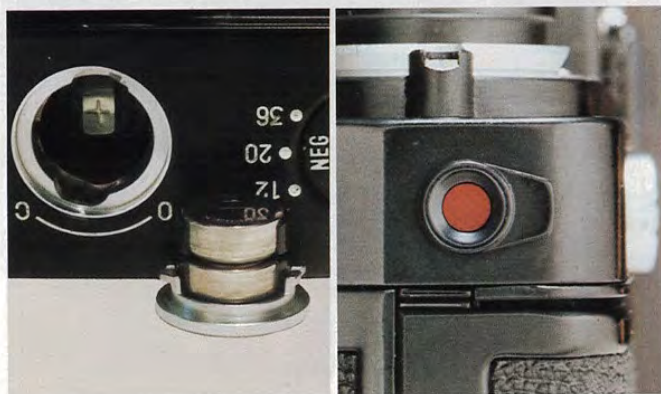
For smooth film advance, the comfortably cushioned lever moves on precision bearings. The lever swings out  $20^\circ$  before engagement; a further  $110^\circ$  stroke advances film and cocks shutter.



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

**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 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 ( $\pm 2$  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 8 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:** 895 g ( $31\frac{1}{2}$  oz) without lens.

# MINOLTA XE-7 and XE-5





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

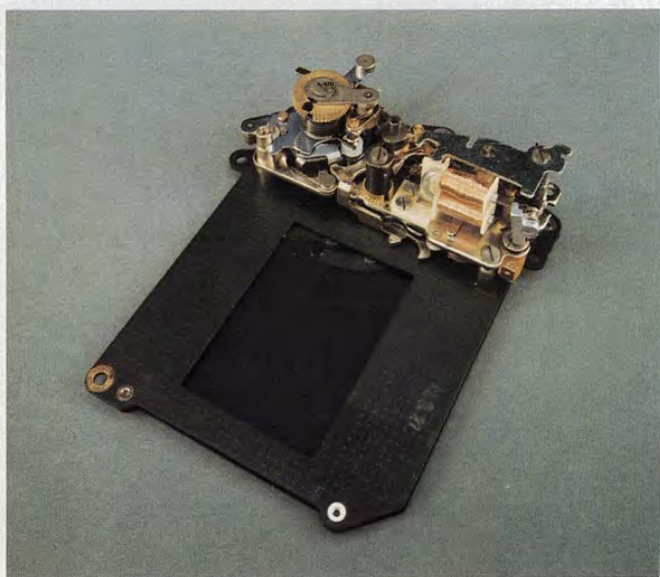
The same advanced technology that distinguishes the XK provides the XE-7/5 with the Minolta automatic exposure system, a sophisticated electronic circuitry that automatically takes account of film speed, lighting conditions, shutter speed, and other essential data, permitting an unprecedented degree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

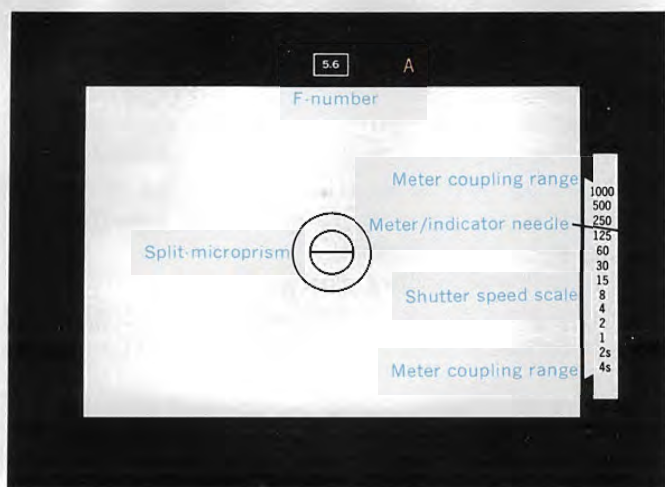
Also an essential factor in the remarkably swift and accurate XE-7/5 exposure is the silky smooth electronic focal plane shutter. This vertical traverse metal blade shutter is unique in giving the precise exposure required in steplessly variable speeds. An infinite number of shutter speeds from 1/1000 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 meter 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 meter needle aligns with the shutter speed that is indicated in the window.

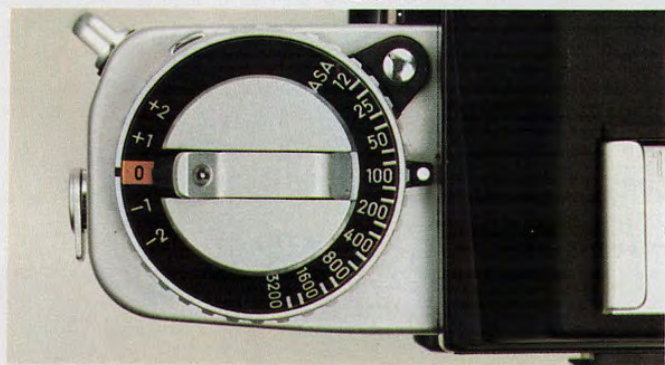
There may also be times when you'll wish to rely on your own photographic knowledge for judging correct exposure. Even then the XE-7, like no other camera made today, provides all vital information at a glance.

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.

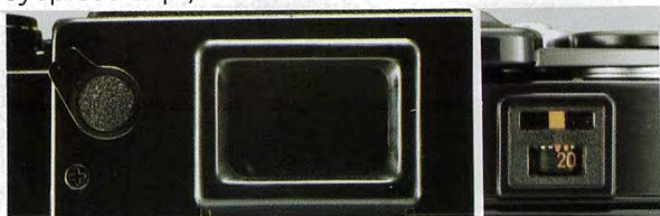


## Self-Timer

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

### **Eyepiece Shutter (for XE-7 only)**

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



### **Safe Load Signal (for XE-7 only)**

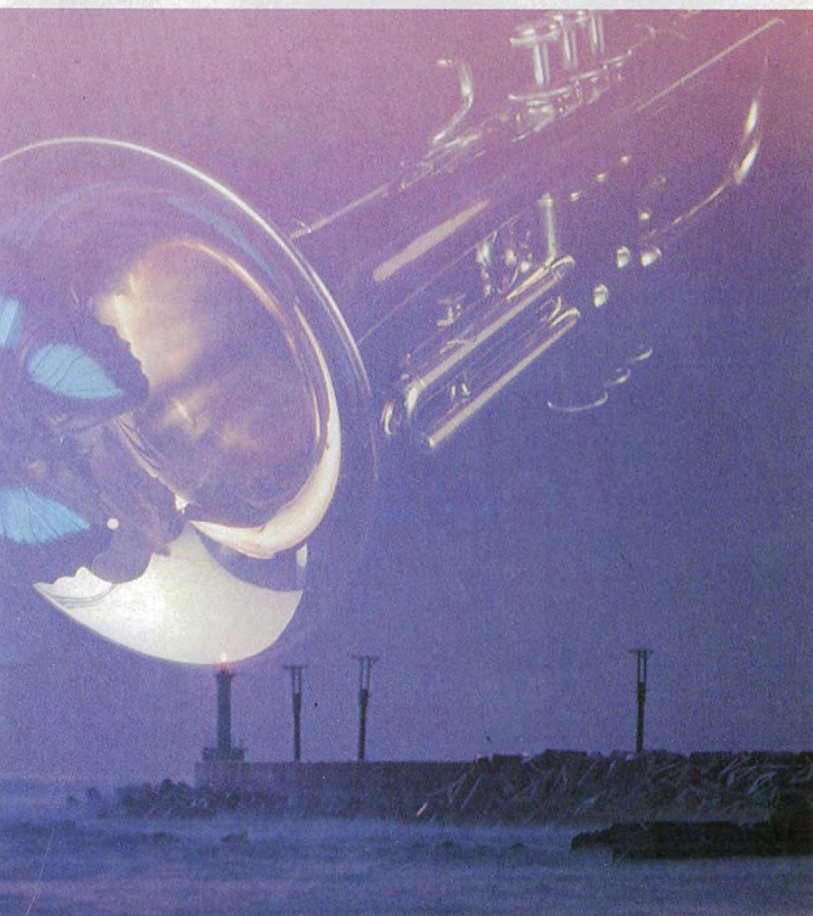
In the event of incorrect film loading or failure to advance, the Safe Load Signal on the XE-7 will give you instant notice. This exclusive Minolta signal above the frame counter gives visual confirmation of proper loading and advance.





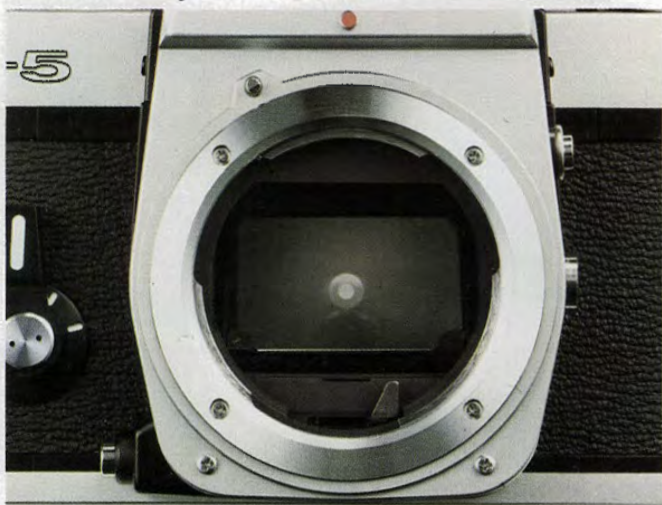
### **Multiple Exposures (for XE-7 only)**

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

**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, meter 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: 61 x 97 x 148mm ( $2\frac{3}{8}$ " x  $3\frac{13}{16}$ " x  $5\frac{13}{16}$ ") without lens

XE-5: 58 x 97 x 148mm ( $2\frac{5}{16}$ " 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.

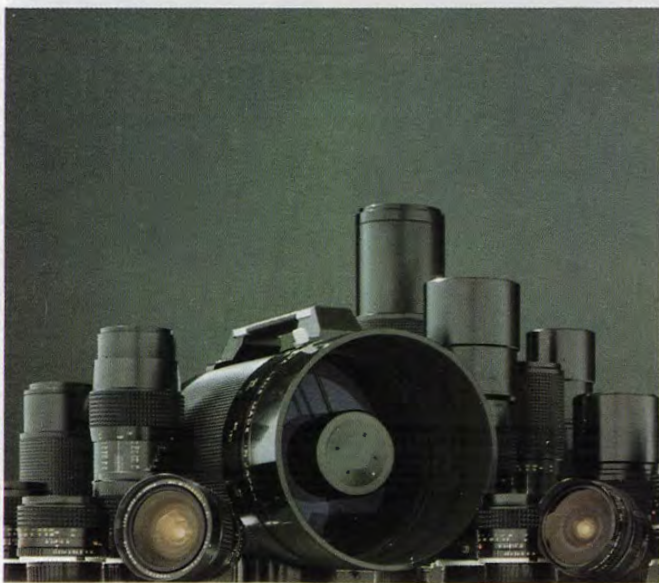
All the glass that goes into each Rokkor-X is made from a highly classified formula. And Rokkor-Xs are treated with Minolta's exclusive Achromatic Coating.

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 nine wideangle lenses, the 7.5mm fisheye Rokkor-X is fast at  $f/2.8$  and does not vignette your subject. There are a bellows Rokkor-X and two Macros. Three Rokkor-X Zooms have smooth, one-hand zooming and focusing. And of the ten 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.





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### 7.5mm f/4 MC Fisheye Rokkor-X

Construction: 12 elements in 8 groups

Angle of view: 180°

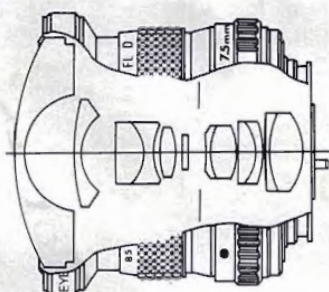
Min. focus distance: 0.5m

(1.75 ft.)

Filters: Built-in

Diaphragm: Auto preset

f/4—f/22



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### 16mm f/2.8 MC Fisheye Rokkor-X

Construction: 11 elements in 8 groups

Angle of view: 180°

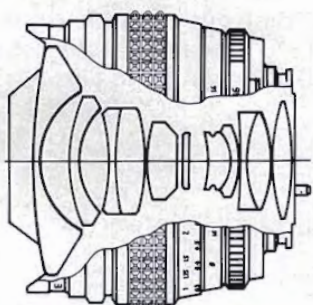
Min. focus distance: 0.3m

(1 ft.)

Filters: Built-in

Diaphragm: Auto preset

f/2.8—f/16



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### 17mm f/4 MC W Rokkor-X

Construction: 11 elements in 9 groups

Angle of view: 104°

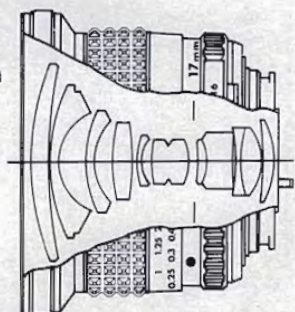
Min. focus distance: 0.25m

(0.8 ft.)

Filter thread diameter: 72mm

Diaphragm: Auto preset

f/4—f/16



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### 21mm f/2.8 MC W Rokkor-X

Construction: 12 elements in 9 groups

Angle of view: 91°

Min. focus distance: 0.25m

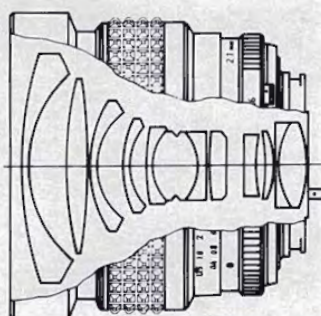
(0.8 ft.)

Filter thread diameter:

72mm

Diaphragm: Auto preset

f/2.8—f/16



### **24mm f/2.8 MC W Rokkor-X**

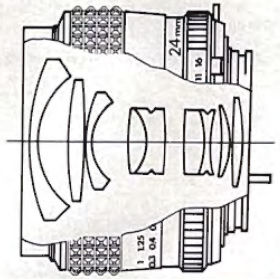
Construction: 9 elements in 7 groups

Angle of view: 84°

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

Filter thread diameter: 55mm

Diaphragm: Auto preset  
f/2.8—f/16



### **28mm f/2.8 MC W Rokkor-X**

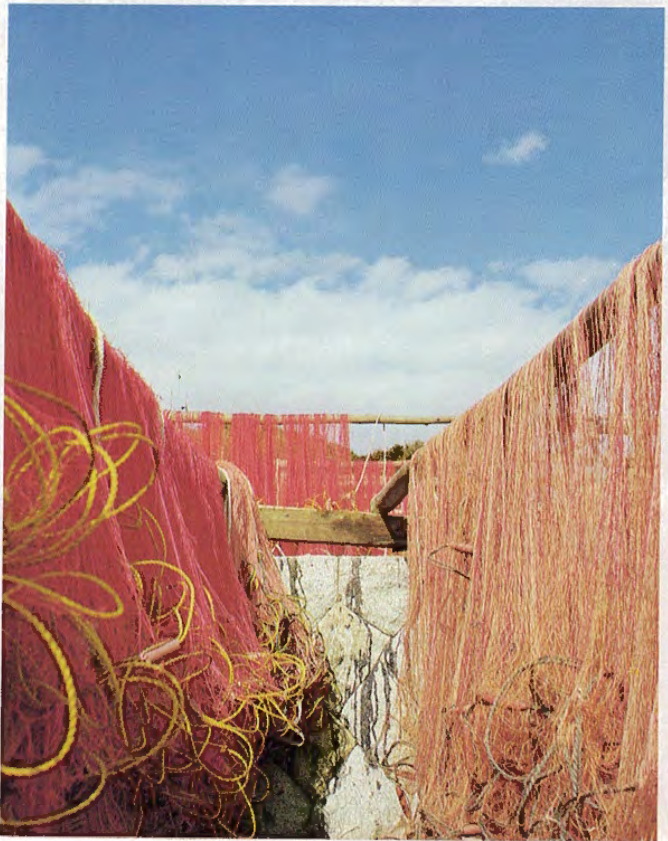
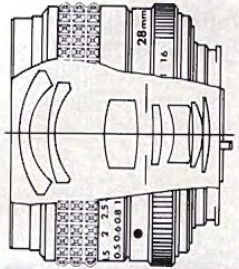
Construction: 7 elements in 7 groups

Angle of view: 75°

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

Filter thread diameter: 55mm

Diaphragm: Auto preset  
f/2.8—f/16





### 28mm f/2 MC W Rokkor-X

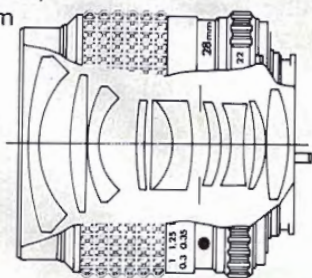
Construction: 10 elements in 9 groups

Angle of view: 75°

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

Filter thread diameter: 55mm

Diaphragm: Auto preset  
f/2—f/16



### 35mm f/2.8 MC W Rokkor-X

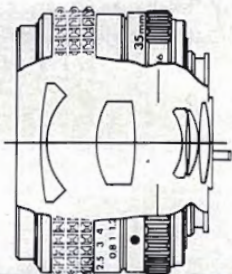
Construction: 5 elements in 5 groups

Angle of view: 64°

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

Filter thread diameter: 55mm

Diaphragm: Auto preset  
f/2.8—f/16



### **35mm f/1.8 MC W Rokkor-X**

Construction: 8 elements in 6 groups

Angle of view: 64°

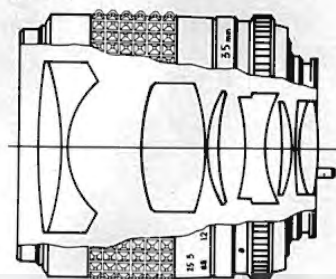
Min. focus distance: 0.3m (1 ft.)

Filter thread diameter:

55mm

Diaphragm: Auto preset

f/1.8—f/16



### **50mm f/1.7 MC Rokkor-X**

Construction: 6 elements in 5 groups

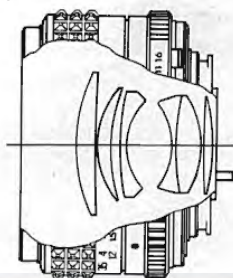
Angle of view: 46°

Min. focus distance: 0.5m (1.75 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/1.7—f/16



### **50mm f/1.4 MC Rokkor-X**

Construction: 7 elements in 5 groups

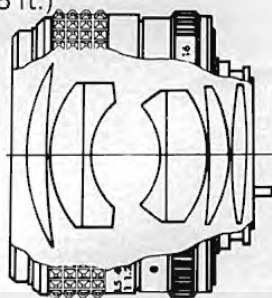
Angle of view: 46°

Min. focus distance: 0.5m (1.75 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/1.4—f/16



### **58mm f/1.2 MC Rokkor-X**

Construction: 7 elements in 5 groups

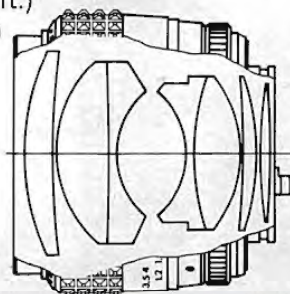
Angle of view: 41°

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

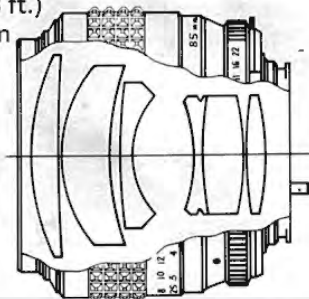
Construction: 6 elements in 5 groups

Angle of view:  $29^{\circ}$

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: 6 elements in 5 groups

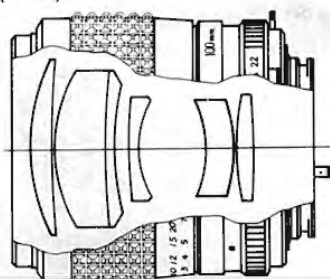
Angle of view:  $24^{\circ}$

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

Filter thread diameter:

55mm

Diaphragm: Auto preset  
f/2.5–f/22



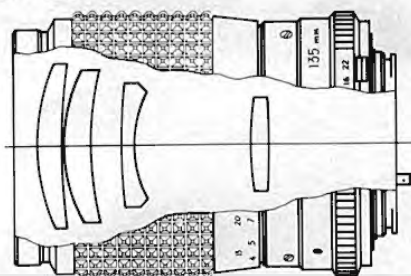
### 135mm f/3.5 MC Tele Rokkor-X

Construction: 4 elements in 4 groups

Angle of view:  $18^{\circ}$  Min. focus distance: 1.5m (5 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto  
preset  
f/3.5–  
f/22



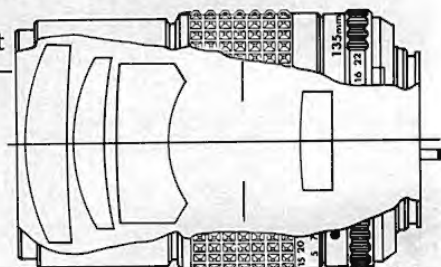
### 135mm f/2.8 MC Tele Rokkor-X

Construction: 4 elements in 4 groups

Angle of view:  $18^{\circ}$  Min. focus distance: 1.5m (5 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto  
preset  
f/2.8–  
f/22



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### **200mm f/4.5 MC Tele Rokkor-X**

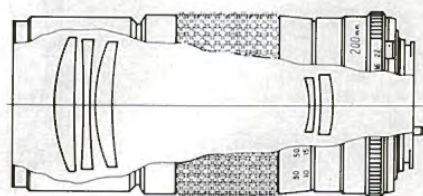
Construction: 5 elements in 5 groups

Angle of view:  $12^{\circ}$

Min. focus distance: 2.5m (8 ft.)

Filter thread diameter: 55mm

Diaphragm: Auto preset f/4.5–f/22



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### **200mm f/3.5 MC Tele Rokkor-X**

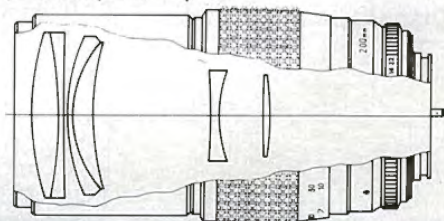
Construction: 6 elements in 4 groups

Angle of view:  $12^{\circ}$

Min. focus distance: 2.5m (8 ft.)

Filter thread diameter: 62mm

Diaphragm: Auto preset f/3.5–f/22





### **300mm f/5.6 MC Tele Rokkor-X**

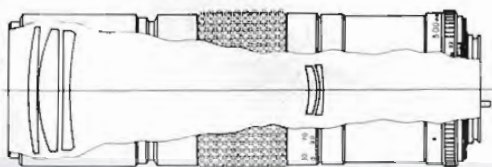
Construction: 5 elements in 5 groups

Angle of view:  $8^{\circ}$

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**

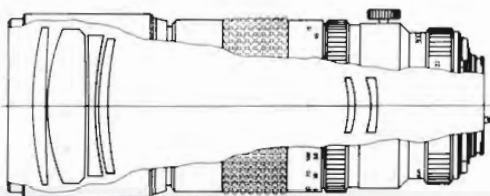
Construction: 6 elements in 6 groups

Angle of view:  $8^{\circ}$

Min. focus distance: 4.5m (15 ft.)

Filter thread diameter: 72mm

Diaphragm: Auto preset f/4.5—f/22



### **800mm f/8 RF Rokkor-X**

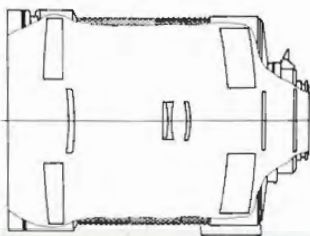
Construction: 2 mirrors, 8 lens elements in 7 groups

Angle of view:  $3^{\circ}$

Min. focus distance: 8m (26 ft.)

Filters: Integral lens-elements type

F-stops: f/8 and  
f/16 by ND filters



### **1600mm f/11 RF Rokkor-X**

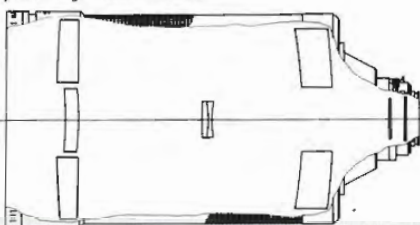
Construction: 2 mirrors, 6 lens elements in 5 groups

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: 58°—30°

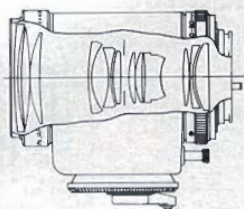
Min. focus distance: 1m (3.3 ft.),

0.37m (1.2 ft.) at close-up setting

Filter thread diameter: 55mm

Diaphragm: Auto preset

f/2.8—f/22



### **80-200mm f/4.5 MC Zoom Rokkor-X**

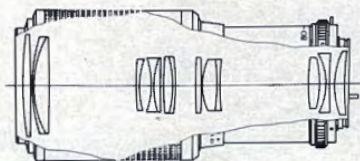
Construction: 14 elements in 10 groups

Angle of view: 30°—12°

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**

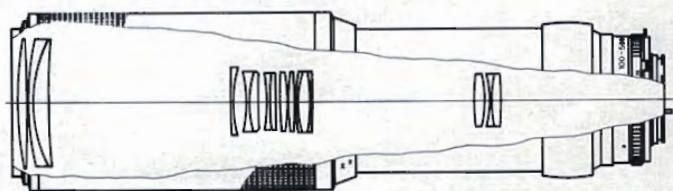
Construction: 16 elements in 10 groups

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

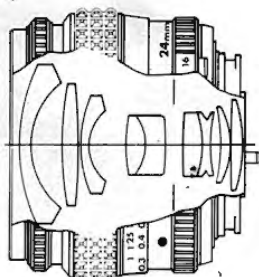
Construction: 9 elements in 7 groups

Angle of view:  $84^{\circ}$

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

Filter thread diameter: 55mm

Diaphragm: Auto preset  
f/2.8–f/16



### 50mm f/3.5 MC Macro Rokkor-X

Construction: 6 elements in 4 groups

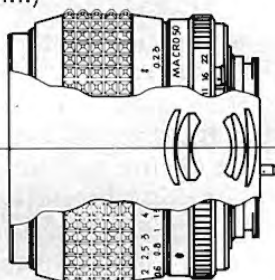
Angle of view:  $46^{\circ}$

Min. focus distance: 0.23m (9 in.)

Filter thread diameter: 55mm

Diaphragm: Auto preset  
f/3.5–f/22

Accessories: Life-Size Adapter;  
Reverse Ring



### 100mm f/3.5 MC Macro Rokkor-X

Construction: 5 elements in 4 groups

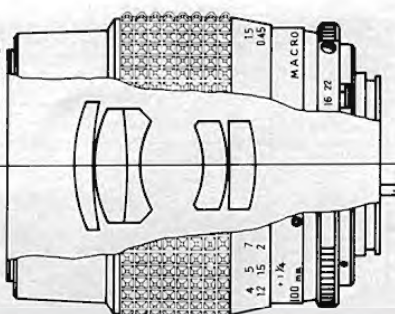
Angle of view:  $24^{\circ}$

Min. focus distance:  
0.45m (1.5 ft.)

Filter thread diameter:  
55mm

Diaphragm:  
Auto preset  
f/3.5–f/22

Accessory: Life-Size  
Adapter



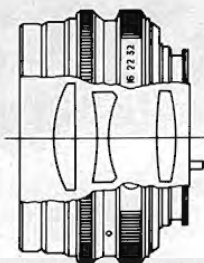
### 100mm f/4 Auto Bellows Rokkor-X

Construction: 3 elements in 3 groups

Angle of view:  $24^{\circ}$

Filter thread diameter: 55mm

Diaphragm: Auto preset f/4–f/32



## **Minolta/Celtic Lenses: Quality Optics at a Popular Price**

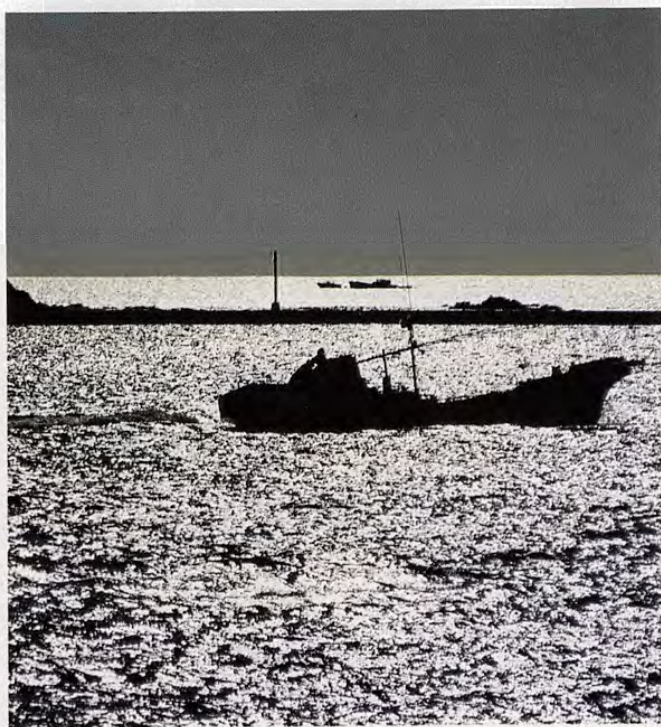
Computer designed and quality built into typically high Minolta lens standards, Minolta/Celtic lenses offer the discriminating photographer a variety of the most commonly used focal lengths at popular prices. They are made of fine optical glass in Minolta's own lens-making factories and, like all Minolta 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	φ64.5× 43.5mm	240g (8 $\frac{1}{2}$ oz.)
35mm f/2.8 MC MINOLTA/CELTIC	5/5	64°	1 ft.	f/16	φ64.5× 41.5mm	220g (7 $\frac{1}{4}$ oz.)
135mm f/3.5 MC MINOLTA/CELTIC	4/4	18°	5 ft.	f/22	φ64.5× 88.5mm	410g (14 $\frac{1}{2}$ oz.)
135mm f/2.8 MC MINOLTA/CELTIC	4/4	18°	5 ft.	f/22	φ64.5× 89.5mm	535g (1 lb. 2 $\frac{3}{4}$ oz.)
200mm f/4.5 MC MINOLTA/CELTIC	5/5	12°	8 ft.	f/22	φ64.5× 130mm	535g (1 lb. 2 $\frac{3}{4}$ oz.)
100-200mm f/5.6 MC ZOOM MINOLTA/CELTIC	8/5	24°—12°	8 ft.	f/22	φ63.5× 173mm	575g (1 lb. 4 $\frac{1}{4}$ oz.)
50mm f/3.5 MC MACRO MINOLTA/CELTIC	6/4	46°	9 in.	f/22	φ66.5× 55.5mm	325g (11 $\frac{1}{2}$ 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.



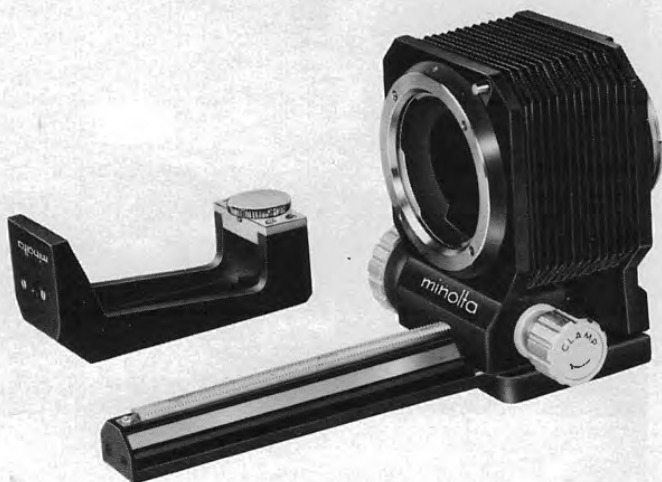
### Auto Bellows I

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.

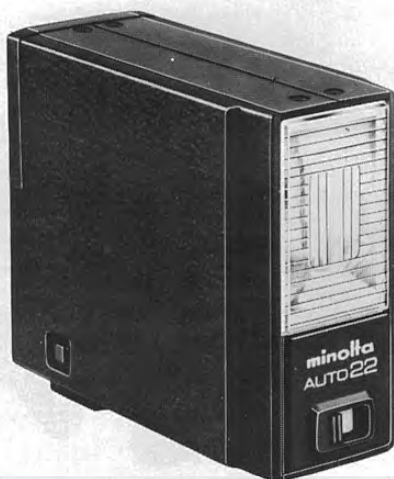
Automatic direct/bounce flash exposure is featured in the 280, covering the field of a 35mm lens. Power sources are alkali-manganese or rechargeable Ni-Cd batteries.





### **Auto Electroflash 22**

This compact cordless/corded unit with max. guide number of 37 (feet, ASA 25; 22 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.



### **Electroflash S**

Perfect for both black-and-white and color photography, this well-designed, high-performance electronic flash unit can be used either on cordless direct-contact "hot-shoe" cameras or with attachable cord and conventional brackets and terminals. It gives up to 250 flashes per set of alkaline batteries, up to 80 with sealed carbon-zinc batteries.



## Gadget Bags

Minolta gadget bags hold your cameras, interchangeable lenses, film and accessories. You can choose the equipment you need for your picture taking needs.

**XB-3:** Holds your Minolta SLR camera, with 135mm lens, two interchangeable lenses up to 200mm focal length, and other items such as light meter, flashgun, etc. An additional SLR camera body can be carried in place of some accessories. Pockets provided on inside and outside of the bag.

**XB-5:** Two Minolta SLRs, one with 50mm, another with 135mm lens; three lenses up to 300mm focal length and other items. Pockets provided on inside and outside of the bag.

**XB-7:** 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.



**XB-5**



**XB-3**



**XB-7**



## 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 photomacrographs, copying and taking distant telephoto pictures. It features an adjustable eyepiece and a 2.5X magnification power, and can be focused for individual eyesight.



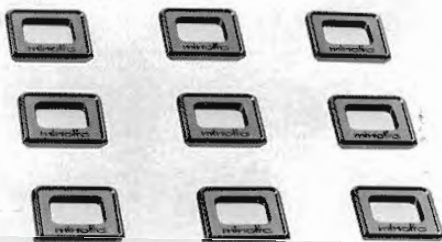
### Angle Finder V

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.



### 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  $+3$ .



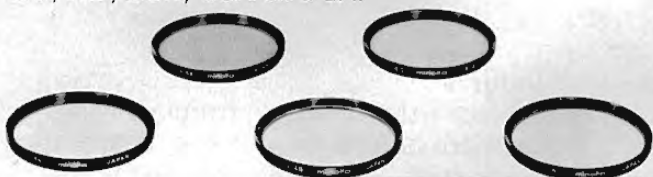


## Polarizing Filters

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.



## Panorama Head

Fitted between Minolta SLR cameras and tripod, the panorama head turns in a 360° circle at the marked intervals of 12°. This allows the scenic photographer to shoot up to a 360° panorama view in overlapping sections of 24° click stops without fear of misjudging the camera's coverage of any single section.



## 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 Anglophoto Canada 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.







MINOLTA MASTERS PHOTOGRAPHY

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