



MINOLTA

# X-700

Minolta's fully-programmed Automatic Exposure SLR, complemented by exciting new accessories of the Minolta Program System.

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Only from the mind of Minolta

## "Why can't a 35mm SLR camera system be sophisticated and simple?"

The X-700 is Minolta's fully programmed Automatic Exposure 35mm SLR.

The X-700 is a simple-to-operate Automatic Exposure camera, selecting both aperture and shutter speed in P mode. So all you have to do is focus and shoot.

The X-700, along with its extensive Minolta Program System components and SLR lenses and accessories, gives you system sophistication with simple operation. It is destined to be the 35mm single-lens-reflex camera you've always dreamed of owning.

On the following pages we'll introduce you to the X-700's features:

**Programmed Automatic Exposure:** requires absolutely no manual setting of aperture or shutter speed.

**Programmed Autoflash:** utilizes Minolta Direct Autoflash Metering and the new Auto Electroflash 280PX for automatic mastery of flash photography.

**Aperture Priority Automatic Exposure:** enhances the most-used functions of a 35mm SLR, the taking of portraits, close-ups and landscapes.

**Manual Exposure Control:** what professionals use for startling results.

**Motor Drive 1:** for high-speed action photography up to 3.5 frames per second.

**Multi-Function Back:** timed, unmanned camera control (time-lapse, frames, and/or long exposures) plus data imprinting (date, coding, sequential numbering, or time).

**Wireless Controller IR-1 Set:** infrared signal-activated remote control.

**SLR Lenses and Accessories:** expanding the camera's capabilities.



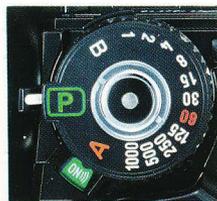
MINOLTA  
PROGRAM  
SYSTEM



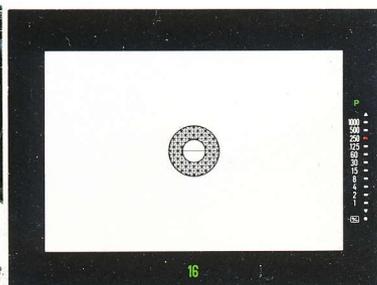
135mm MD lens, P mode

## The X-700's P mode

Even in varying light conditions, it delivers perfectly balanced exposures while you just focus and shoot.



A green P reminds you that you're in P mode and blinks if you've not set your MD lens at its minimum aperture. The set aperture (not the taking aperture) is displayed, along with the camera's selected shutter speed.



You can't find much more difficult shooting conditions than white-water kayaking. Bright, outdoor light. Dark, strong shadows. Water reflection. High-speed action. What aperture to use? What shutter speed?

The X-700's P mode automatically solves these problems for you by selecting the optimum combination of aperture and shutter speed in response to subject brightness. All you have to do is focus and shoot.

Set the camera's mode selector to the green P position. Set your new MD lens to its green minimum aperture, and lock it. Focus and shoot! Easy, isn't it?

The X-700's P mode combines the essence of simplicity with the utmost in sophistication. A faster-speed priority program minimizes blur and allows handholding even in low light situations. The photographer concentrates solely upon the creative moment, with no worry as to exposure selection. In any lighting conditions, changing or not. In any situation, high-speed or not...it's perfect for novice photographers as well as professionals!

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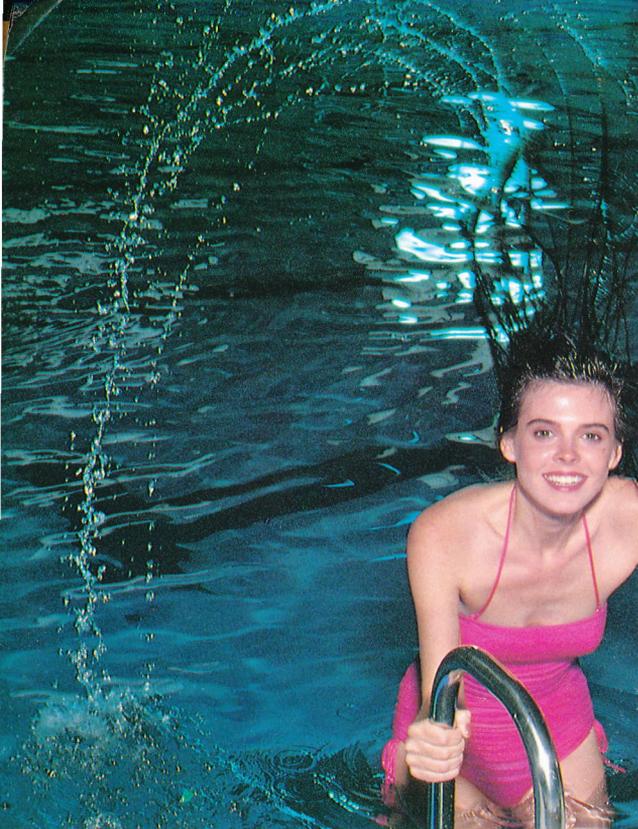
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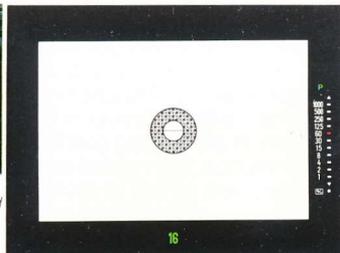
50mm MD lens, P mode, Auto Electroflash 280PX

## The X-700's flash operation in P mode:

Minolta Direct Autoflash Metering for perfect results under all conditions. Neither aperture nor shutter speed selection is required.



In Programmed Autoflash mode, flash-ready is indicated and, after discharge, proper exposure is confirmed.



The X-700's flash operation in P mode is as simple and foolproof as its non-flash operation in P mode. Mount the Minolta Auto Electroflash 280PX on the X-700. Turn on the flash unit. Look through the viewfinder and when you see the blinking LED indicate flash-ready, fire! Extremely accurate Minolta Direct Autoflash Metering measures subject brightness and controls flash duration. And Flash Distance Checking indicators on the flash and in the viewfinder will confirm proper exposure. That's all there is to it! No aperture selection. No shutter speed selection. No calculations. No chance for error!

## The X-700's A mode

Aperture Priority automation for professional-quality portrait, landscape, and close-up photography.

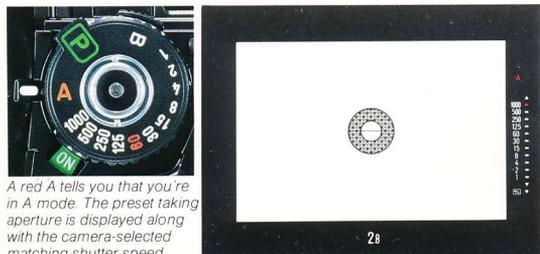


200mm MD lens at f/2.8, A mode

The X-700's Aperture Priority A mode is a tremendous creativity-enhancer. Most photographers capture their most cherished moments in this mode: portraits, landscapes, close-ups. And A mode also lets you best utilize mirror lenses, close-up equipment and other accessories for a spectrum of photography that shutter-speed priority cameras cannot offer.

Simply turn the X-700's shutter dial to A. Set your preferred lens aperture. And click away! The X-700 automatically sets the correct shutter speed for optimum exposure results.

Incidentally, this A mode works equally well in flash operation, too. Particularly in close-up situations where extremely tight control over a full aperture range is vital to your creative efforts.



A red A tells you that you're in A mode. The preset taking aperture is displayed along with the camera-selected matching shutter speed.

## The X-700's M mode

Full-metered Manual exposure to commit any special effects you wish to film.



300mm MD lens at f/11, 1/250 sec., M mode

This photograph illustrates the advisability of using Manual exposure mode under unusual lighting conditions to achieve specific creative results. With Automatic Exposure, the X-700 would have balanced the exposure values more evenly and there would not have been the same high contrast between the sun-dappled highlights and the blue-black hues of the water, for example.

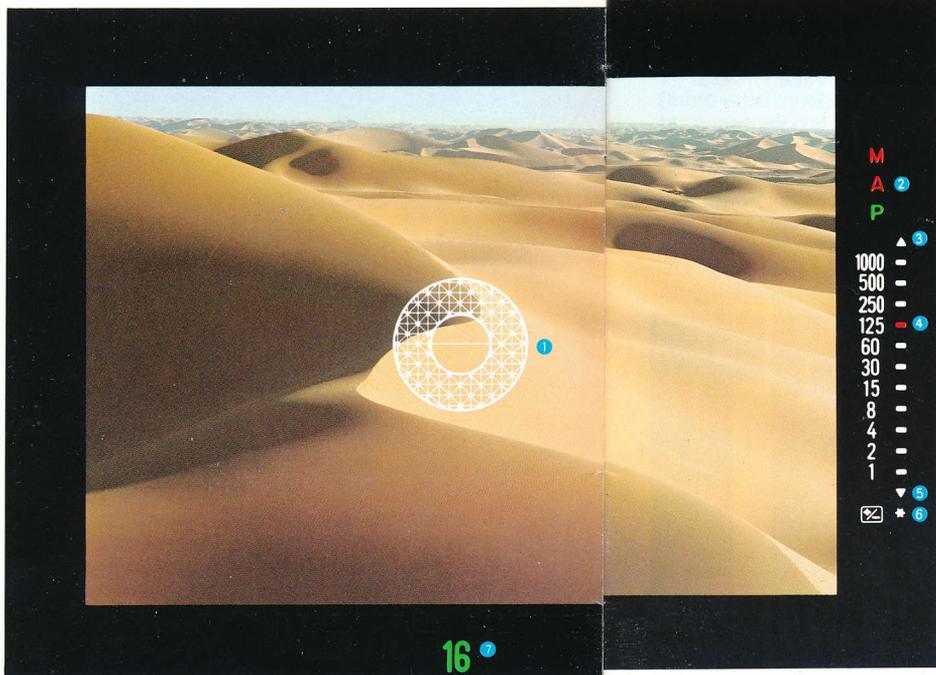
The X-700's M mode allows you, the photographer, to control your exposure. Releasing the camera's mode selector from either P mode or A mode allows you to select the shutter speed you desire. Now select your aperture. Look through the viewfinder and you'll see a metered shutter-speed indication which you may, or may not use. The creative choice is yours!



A red M indicates M mode. The taking aperture is displayed and the corresponding optimum shutter speed is indicated, which you may manually select if you wish.

# The X-700's full-information viewfinder

Your instantaneous "adviser" in all modes of shooting, to guide you under all conditions.



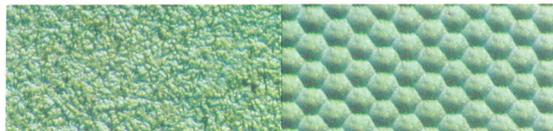
- 1 Split-image/microprism focusing spot.
- 2 Mode indication.
- 3 Over-range indication.
- 4 Shutter speed indication.
- 5 Under-range indication.
- 6 Exposure-adjustment indication.
- 7 f-number window.

The viewfinder of the X-700 is like having your very own photographic expert with you at all times, advising you on the correct exposure, helping you focus faster and more accurately, reminding you of pertinent information to enhance your creative efforts. There's no need to look elsewhere: it's all there, right before your eyes, helping you concentrate on the more aesthetic values of what you are about to capture on film.

**LED indication:** placing your forefinger on the Touch Switch instantaneously starts metering and LED readouts in the viewfinder. These readouts continue for 15 seconds.



**Acute-Matte Focusing Screen:** this Minolta advancement in focusing technology is comprised of some 2,500,000 microscopic cells, each of which is a conical micro-lens shaped for better light dispersion and, consequently, a



Conventional focusing screen

Acute-Matte focusing screen (200X)

50% brighter, clearer, higher-contrast image that is easier to focus. There are also eight additional, optional focusing screens which may be interchanged by a Minolta service facility, depending upon your needs.

**Bright reflecting mirror:** Minolta technology has improved the X-700's mirror reflection through use of a special multi-layered coating that increases viewfinder brightness by 11% over conventional types.

**Slow shutter-speed warning device:** if you have selected the ON » position for camera operation, an audible warning sounds if—at any time and in any mode—the shutter speed falls to 1/30 second or below. This warning helps prevent subject blur.

**P mode viewfinder indicators:**

A green P to remind you you're in P mode. The P blinks if your MD lens is not set at its minimum aperture or if you're using any lens other than an MD.

The selected shutter speed (red bar). If two shutter speeds are simultaneously indicated, the selected stepless shutter speed falls between those indicated.

An over-range warning triangle (red). Blinks to warn you that the correct shutter speed exceeds 1/1000 sec.

An under-range warning triangle (red). Blinks to warn you that the correct shutter speed falls below 1 sec.

A  $\pm 2EV$  exposure-adjustment indicator. The asterisk

beside the +/– indicator blinks to remind you that you've set in an exposure adjustment.

Beneath the viewfinder frame you'll see your set minimum aperture.

**A mode viewfinder indicators:**

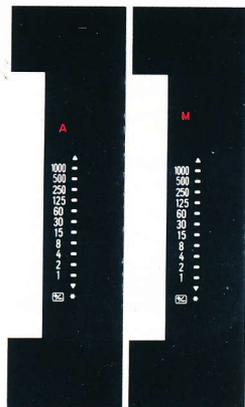
A red A to remind you you're in A mode.

All other indicators are similar to the P mode's.

**M mode viewfinder indicators:**

A red M to remind you you're in M mode.

Indicated shutter speed is for reference only. You have already set your preferred shutter speed and the indication in the viewfinder shows you what your preselected aperture setting's matching shutter speed should be for optimum exposure.

**Auto Electroflash 280PX mode indicators:**

The green P indicates you are in P mode (there is no mode indication for A or M mode).

A blinking red LED bar next to the 1/60 indication indicates flash-ready.

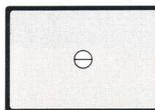
This is a slow-speed (2Hz) blink.

The flashing red LED blinks at a higher rate (8Hz) after shutter release to indicate proper exposure.

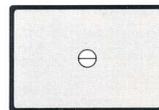
Aperture selection appears below the frame.

**Optional focusing screens**

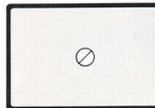
The X-70's standard Acute Matte focusing screen can be replaced by any of eight optional Acute-Matte screens at an authorized Minolta service facility.



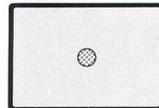
Horizontal split. For general photography.



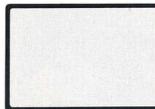
Horizontal split. For general photography with f/2.8 or larger maximum aperture lenses.



Diagonal split. For general photography.



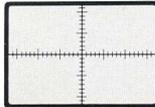
Microprism spot. For general photography.



Matte field only. For general, close-up and telephoto photography.



Matte field with grid. For general photography.



Horizontal and vertical measuring scales. For general, macro, micro and astrophotography.



Clear spot with etched double hairlines. For macro, micro and astrophotography.

# The X-700's AE Lock and $\pm 2EV$ Exposure Adjustment

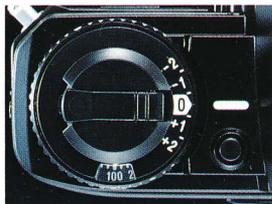
For better creative control and more perfect picture results in unusual lighting conditions.

Your X-700 is well prepared to handle special lighting situations, as it is the only fully-programmed automatic exposure SLR that offers both Automatic Exposure Lock and  $\pm 2EV$  exposure adjustment. The occasional photographer will utilize the AE Lock more often; it handles a much wider exposure range. The "pros" will use the  $\pm 2EV$  override more frequently, as they're more accustomed to their equipment.

**AE Lock.** A problem for outdoor photographers, subject under-exposure is prevalent when encountering a subject in shade with strong backlighting. Here's what to do: Activate metering with the Touch Switch, position the subject's face in the viewfinder as closely as possible and depress the AE Lock slide. Maintaining this position, move back to compose your shot, and release the shutter. Instant success!



**$\pm 2EV$  Override.** For use when you cannot get close to the subject in order to use the AE Lock. Plus or minus 2EV may be set in half-stop increments to balance unusual lighting conditions. In the viewfinder, a blinking indicator will remind you that you have set an exposure adjustment.



+2EV



+1EV



0



-1EV

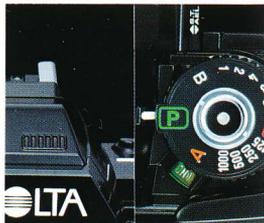


-2EV



## Other X-700 features:

Design advances and improvements that provide fail-safe operation and make your X-700 easier to handle.



**Audible Warning** An electronic "audible warning" to warn you that the shutter speed is 1/30 second or slower, or of self-timer operation. It can be easily cancelled.



**Double Action Grip** Comfortable integral front and back grips aid in holding the X-700 easily and steadily.



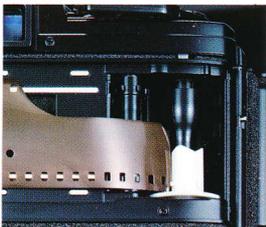
**Safe Load Signal** This feature tells you that your film is loaded and advancing properly.



**Oversized Mirror** The X-700's extra-large, quick-return mirror prevents image cut-off, even when using telephoto lenses.



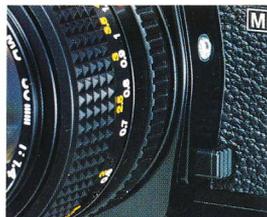
**Audible-visible Self-timer** An electronically-controlled, 10-second self-timer indicates release timing via a three-step blinking LED, accompanied by a cancellable audible signal.



**Easy Film Loading** The X-700 features an improved film spool slit width and claw to facilitate faster and more accurate film loading.



**Memo Holder** With handy ISO/DIN-ASA conversion table inside, this lets you retain the film box end for reference.



**Depth-of-Field Preview Button** Stops down the lens so you can see the depth-of-field through the viewfinder.



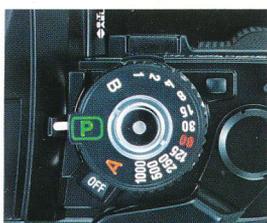
**Bayonet Mount** Minolta's exclusive lubricant-impregnated stainless steel bayonet mount allows you to use any Minolta SLR lens ever made.



**Touch Switch** Minolta's exclusive Touch Switch helps conserve battery power. The moment finger contact is made, metering and LED readouts begin and continue to function for 15 seconds.



**Remote Control Socket** Used for cable, electronic remote cord and Wireless Controller IR-1. Set operation of the X-700.

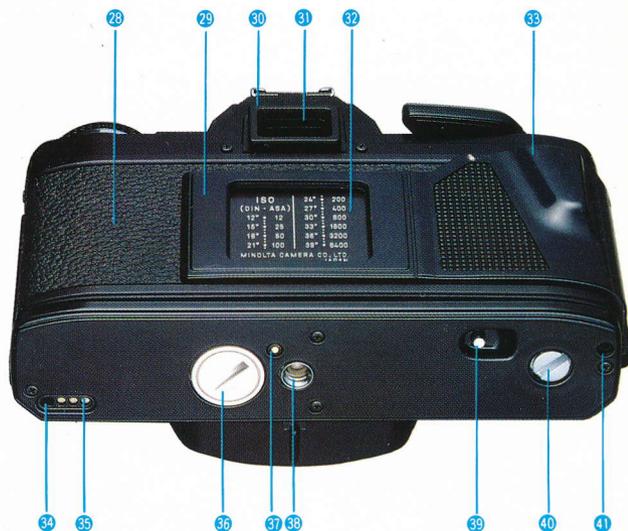


**Main Switch** Handy on-off switch conserves battery power and prevents accidental tripping of the shutter. An alternate mode activates audible warning.

# Names of Parts



- 1 Frame counter
- 2 Film-advance lever
- 3 Operating button
- 4 Mode/shutter-speed selector
- 5 Main switch
- 6 Flash/camera-control contacts
- 7 Sync contact
- 8 Accessory shoe
- 9 Exposure-adjustment control release
- 10 Film-speed window
- 11 Back-cover release knob
- 12 Rewind crank
- 13 Safe Load Signal
- 14 Front grip
- 15 P/A-lock release
- 16 AE lock/self-timer switch
- 17 Self-timer light
- 18 Sync terminal
- 19 MD coupler
- 20 MC coupler
- 21 Mirror



- 22 Bayonet lens mount
- 23 Lens-release button
- 24 Preview button
- 25 Remote control socket
- 26 Film-speed ring
- 27 Strap eyelet
- 28 Back cover
- 29 Memo holder
- 30 Eyepiece frame
- 31 Eyepiece
- 32 ISO/DIN-ASA conversion table
- 33 Back grip
- 34 Motor-drive guide socket
- 35 Motor-drive contacts
- 36 Battery-chamber cover
- 37 Winder contact
- 38 Tripod socket
- 39 Rewind release
- 40 Winder/motor-drive coupler
- 41 Winder/motor-drive guide socket

# Specifications

**Type:** Electronically governed 35mm single-lens reflex automatic exposure camera

**Exposure-control modes:** Fully programmed ("P"), aperture-priority automatic ("A"), and metered manual ("M")

**Lens mount:** Minolta SLR bayonet of lubricant-impregnated stainless steel (54° rotating angle); (standard lenses: MD 50mm f/1.4, f/1.7, f/1.2 or f/2)

**Exposure control and functions:** Low-voltage, low-current computer circuit (incorporating quartz crystal for sequential control to 1/30,000-sec. accuracy, large-scale IC's, samarium-cobalt impulse-release magnets, and linear-resistance inputs) varies both aperture and shutter speed steplessly according to special "faster-speed" program in P mode, or varies shutter speed steplessly according to aperture set in A mode; auto-exposure range: EV 1 to EV 18 (e.g., 1 sec. at f/1.4 to 1/1000 at f/16) at ASA/ISO 100 with f/1.4 lens; AE-lock device holds meter reading for exposure at that value regardless of subject-brightness changes.

**Shutter:** Horizontal-traverse focal-plane type; electronically controlled stepless speeds 1/1000 to 4 sec. set automatically with endlessly rotatable selector dial locked at "P" or "A" setting or fixed speeds 1 to 1/1000 sec. or "B" (bulb) set manually at detented dial indications;

electromagnetic shutter release locks when voltage is too low  
**Metering:** TTL center-weighted averaging type, by silicon photo cell mounted at rear of pentaprism for available light; by another SPC mounted with optic in side of mirror compartment for Direct Autoflash Metering to control dedicated strobe duration

**Film-speed range:** ASA/ISO 25 to 1600

**Exposure-adjustment control:** Up to  $\pm 2$  EV continuous adjustment of P, A, or M exposure by dial that locks at zero position and each 1/2-EV setting

**Mirror:** Multi-coated oversize instant-return slide-up type  
**Viewfinder:** Eye-level fixed pentaprism type; Fresnel-field focusing screen having artificially regular-patterned matte ground plus central split-image focusing aid surrounded by microprism band, interchangeable with Type P1, P2, Pd, M, G, L, S, or H screens at authorized Minolta service facilities; visible around frame: mode indication (P, A, or M), shutter-speed scale with LED setting indication, triangular over-/under-range LED indicators, flash-ready signal, FDC signal, mis-set lens warning in P mode, f-number set with MD or MC lenses, and exposure-adjustment engaged indication; display and metering activated by normal finger contact or slight pressing of operating button and continue for 15 sec.

**Flash sync:** PC terminal and hot shoe for X sync; additional spring-loaded contacts on hot shoe for camera/strobe control and finder indication in programmed/automatic operation

**Power:** Two 1.5v alkaline-manganese or 1.55v silver-oxide cells contained in camera base, power both programmed/auto exposure control and manual operation.

**Self-timer:** Electronic for 10-sec. delay, with operation indicated by camera-front LED plus simultaneous audible indication.

**Other:** Audible 4Hz piezoelectric warning when finder speed indication is 1/30 sec. or slower; integral front handgrip; detachable back with integral handgrip, memo holder, and ISO/DIN-ASA conversion table.

**Size and weight:** 51.5x89x137mm (2x3½x5½ in.), 505g (17½ oz.) without lens and power cells.

Specifications subject to change without notice

# The Minolta Program System

The X-700 combines with a number of highly advanced accessory systems to provide photographic capabilities that you may have only dreamed of until today.

# MINOLTA PROGRAM SYSTEM



X-700



AUTO ELECTROFLASH 280PX



WIRELESS CONTROLLER IR-1 SET



POWER GRIP 2



MULTI-FUNCTION BACK



MOTOR DRIVE 1

# The heart of the Minolta Program System

A sophisticated, fully-integrated electronic network of all system components for automated reliability and extended photographic capabilities.

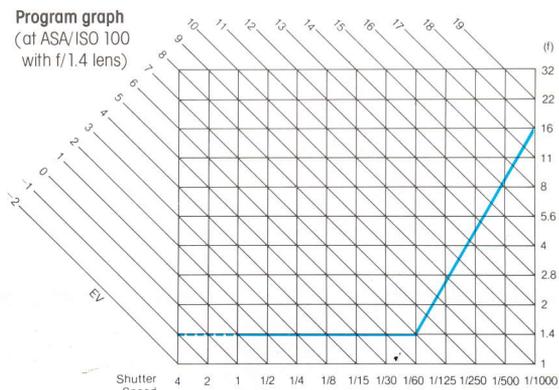
The Minolta Program System is the realization of Minolta's efforts to achieve sophisticated photographic versatility with simple operation by combining the X-700, the Auto Electroflash 280PX, the Motor Drive 1, the Multi-Function Back and the Wireless Controller IR-1 Set into a fully-integrated electronic network of incredible sophistication and, yet at the same time, of utter simplicity to operate. The X-700's complex circuit configuration begins with a built-in quartz-crystal oscillator that controls many camera functions and produces an exact 32,768 reference pulses per second...for the astounding 1/30,000-second accuracy of the X-700.

Five integrated circuits, too, are employed for solid-state reliability and longevity.

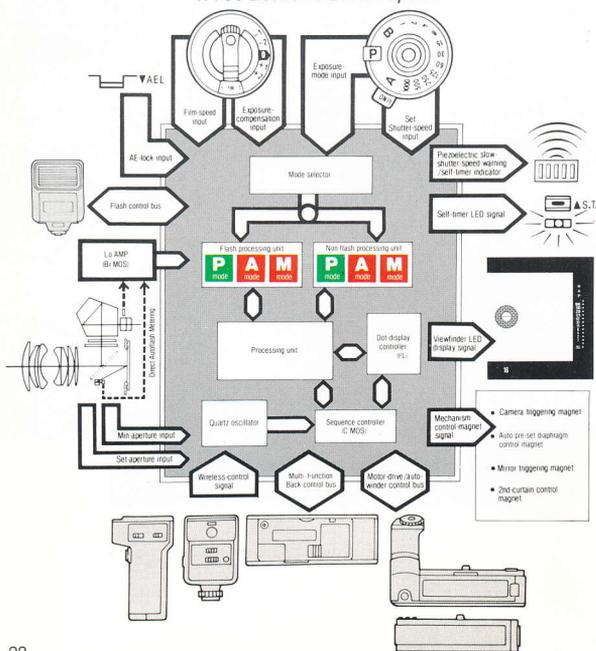
Two silicon photo cells measure ambient light and control the Minolta Direct Autoflash Metering.

In the P mode, this complex circuitry automatically sets both the X-700's aperture and shutter speed. These programmed combinations of shutter speed and aperture respond instantaneously to minute changes in lighting conditions, delivering the fastest practicable shutter speed for optimum exposure results. In bright sun and with an MD 50mm f/1.4 lens, for example, the X-700 can select up to f/16 and 1/1000 second; in shade, f/2.8 at 1/125 second...and so forth. The important thing to realize is that the X-700 continually sets the fastest practicable shutter speed, considerably higher than that of other programmed automatic exposure cameras under similar situations. And this faster-speed priority program means the X-700 will more often deliver a clearer, sharper image without subject blur caused by subject or camera motion.

**Program graph**  
(of ASA/ISO 100  
with f/1.4 lens)



## X-700 Electronic Control System

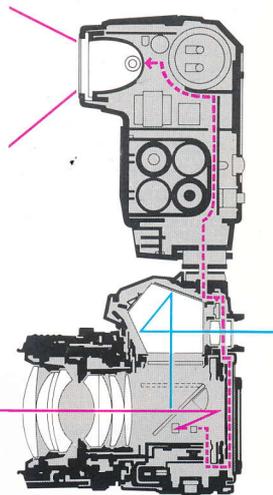


# The Minolta Auto Electroflash 280PX

A tremendous range of flash versatility combined with ease of use.

When the Minolta Auto Electroflash 280PX is mounted on the X-700, it automatically receives the film's ISO/ASA/DIN rating from the camera, necessitating no setting on the flash unit itself. When fully charged and ready to fire, the 280PX signals flash-ready both in the camera viewfinder and on the back of the flash unit. When the shutter is released, the 280PX automatically sets the X-700's shutter to the correct X-sync speed (1/60 sec.) and discharges. Minolta Direct Autoflash Metering's Silicon Photocell adjacent to the mirror box collects a sample of the light reflection from the film and shuts off flash emission at the precise microsecond for ideal exposure and confirms that the exposure was correct, again both in the viewfinder and on the back of the 280PX.

In P mode, the aperture is automatically set; there are no calculations or settings to be made... In A mode, flash emission is adjusted for the aperture you have selected. Attach the Motor Drive 1 and Power Grip 2, and you'll be able to shoot flash sequences at up to 3.5 fps.



# The Minolta Multi-Function Back

Unmanned camera control and automated data imprinting.

It took Minolta to develop the world's first Multi-Function Back, a product of the most sophisticated electronics technology and precision manufacture. This exclusive X-700 optional accessory quickly and simply interchanges with the camera's regular back: no special tools are required. A built-in quartz clock and microcomputer provide a variety of functions and LCD readouts.

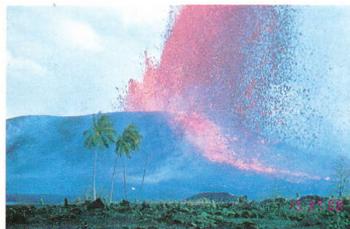
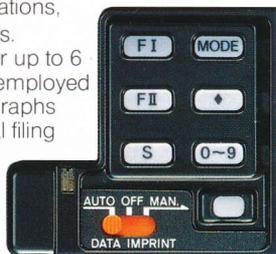
## Imprinting for identifying and/or classifying photographs

\*Set the display mode to hour/minute/second and the imprint mode to the AUTO position. Each film frame will be imprinted with the precise moment of exposure, ideal for record-keeping photography or sequential photographs that entail a time progression.

\*Imprint month/day/year in any of three ways, with a full auto-calendar from 1981 to 2099. Once set, the date automatically changes...with leap years and month lengths automatically compensated for. Use this function for dating weddings, graduations, birthdays and special events.

\*Imprint any desired number up to 6 digits. This function can be employed for numeral-coding photographs according to your individual filing procedures.

\*Imprint sequential camera- counts from 1 to 999,999. Each shutter release adds "1" to the previous total.



\*\* 15 37 08  
h m s

**TIME MODE** Accurate hour/minute/second imprinting registers on each film frame to pinpoint the precise moment of action.



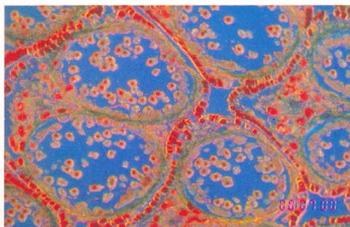
\*\* 01 03 82  
d m y

**DATE MODE** All combinations of month, day and year can be clearly imprinted on any film frame to memorialize a special occasion.



\*\* COUNT 000001

**COUNT MODE** Each film frame can automatically be sequentially numbered up to 999,999 beginning with any digit or digits you select.



\*\* NO. 000700

**CODING MODE** You can set any numerical code up to 999,999 to encode photographs in any manner you may choose.

### Camera control for unmanned operation

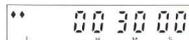
\*Interval shooting in any time segment from 1 second to 99 hours/59 minutes/59 seconds when used with the Motor Drive 1 or Autowinder G.

With the Auto Electroflash 280PX and Power Grip 2 combined with the Motor Drive 1 or Auto Winder G, interval flash photography is feasible. The Multi-Function Back automatically turns the flash unit power supply on and off, even allowing a 60-second warm-up time. There are unlimited uses for this mode, particularly in close-up photography. The number of frames used in unmanned interval photography can also be pre-selected.

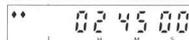
\*Long exposure control of up to several hours is possible.

\*Interval, number of frames and long exposure modes can be used in combination.

\*Imprinting and camera control functions can be used simultaneously.

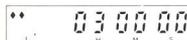


**FLASH INTERVAL MODE** It's easy to program flash interval photography, too. The flash will turn on, warm up, fire at the precise moment, shut off and the film will automatically wind to the next frame to repeat the process at set intervals.



### LONG EXPOSURE MODE

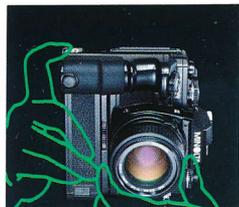
Long exposures are easily programmed with the Multi-Function Back for spectacular effects.



### DAYLIGHT INTERVAL MODE

Set the Multi-Function Back to photograph any number of frames at predetermined time intervals.





## The Minolta Motor Drive 1

You'll never lose a split-second of exciting, high-speed action.

The Motor Drive 1 is an optional accessory that provides the X-700 with automatic film advance, allowing the photographer to concentrate on the aesthetics of photography while the camera and motor drive take care of the mechanics of photography.



### There are three modes with the Motor Drive 1:

- \*Continuous shooting at Hi: 3.5 frames per second
- \*Continuous shooting at Lo: up to 2 fps
- \*Single-frame shooting at S:

The Motor Drive 1 has two Touch Switches, one with a lockable operating button control. These enable the user to hold and easily balance the X-700 in any position. For flash photography, the Motor Drive 1 combines with the Auto Electroflash 280PX for continuous flash sequences up to 2 fps; add the Power Grip 2 to this set-up, and 3.5 fps flash operation is possible. The Motor Drive 1 also mates with the Multi-Function Back for automatic interval photography, and with the Wireless Controller IR-1 Set for continuous remote-control photography. The optional Auto Winder G also allows automatic film advance. Speeds up to 2 fps may be gained in ambient light or flash situations.





## The Minolta Wireless Controller IR-1 Set

For cordless remote operation of your X-700 in places you can't be.

The optional Minolta Wireless Controller IR-1 Set is another technological advance by Minolta that gives extended versatility to the use of the X-700 by allowing cordless remote control photography, with the operator up to 60 meters (about 200 feet) away. Equipped with three separate channels, Wireless Controller IR-1 Set components allow any number of cameras to be operated simultaneously or independently in up to three individual groups, by appropriately setting transmitter and receivers.

When mounted on the X-700, the receiver is set for continuous (C) or single (S) frame operation, senses infrared pulses emitted from the transmitter and sends a signal to trigger shutter release.

When used in combination with the Motor Drive 1, Autowinder G, Auto Electroflash 280PX and the Multi-Function Back, many modes of photography are made possible by remote control.



## Specifications

### AUTO ELECTROFLASH 280PX

**Type:** Clip-on programmed/automatic/manual electric flash unit with special contacts for both camera control and TTL off-the-film flash control with Minolta X-700.

**Guide number:** Adjustable at "Hi" or "Lo" levels

Wideangle diffuser	Without		With	
	Hi	Lo	Hi	Lo
Power level				
Meters, ASA 100	28	7	20	5
Feet, ASA 25	46	11	33	8
Meters, DIN 18	20	5	14	3.5

**Autoflash control:** By Direct Autoflash Metering (TTL off-the-film) system with X-700 cameras.

**Flash duration:** Approx. 1/50,000 to 1/1,000 sec. in auto operation; approx. 1/1,000 sec. at "Hi", and 1/10,000 at "Lo" in manual operation.

**Flash coverage:** For lenses down to 35mm focal length on full-frame 35mm cameras, down to 28mm with wideangle diffuser.

**Power sources:** Four self-contained AA-size (penlight) 1.5v sealed carbon-zinc, alkaline-manganese, or rechargeable 1.2v nickel-cadmium batteries; optional Power Grip 2.

**Number of flashes/recycle time\*:**

	Hi	Lo
Sealed C-Zn cells	70/9	1000/1
AM cells	200/6	2000/0.5
Ni-Cd cells	100/3.5	600/0.3

\*As determined by Minolta's standard testing method.

**Exposure confirmation:** FDC (Flash Distance Checker) light on back panel and rapid blinking of "60" LED in viewfinder after exposure indicate exposure was proper.

**Dimensions:** 60×70×102mm (2<sup>3</sup>/<sub>16</sub>×2<sup>3</sup>/<sub>8</sub>×4<sup>1</sup>/<sub>16</sub> in.)

**Weight:** 220g (7<sup>3</sup>/<sub>8</sub> oz.) without batteries.

### MULTI-FUNCTION BACK

**Type:** Quartz-crystal/microcomputer-controlled interchangeable back for data imprinting, and camera/strobe control with Minolta X-700.

**Input and display:** Data to be imprinted and camera-control commands set by 6 keys and displayed by liquid-crystal panel.

**Data imprinting:** By light-emitting diodes (LEDs), 6 figures in 3 pairs in lower right corner of frame, choice of 6 modes: 24-hour time (hours, minutes, seconds), date in year/month/day or month/day/year or day/month/year form, any selected number through 99 99 99, consecutive numbering of frames, data-imprint switch with positions for auto imprint, no imprint, or manual.

**Camera control:** Choice of 3 modes plus combinations: shutter release at intervals, number of frames, shutter opening and closing for long exposures; imprinting also possible simultaneously if desired.

**Electronic-flash control:** Connected with Power Grip 2 in interval mode automatically gives signal to turn Power Grip 2; on to charge Auto Electroflash 280PX 1 min. before exposure and off immediately after.

**Power sources:** Two 3v lithium batteries, four 1.5v silver-oxide or 1.5v alkaline-manganese cells.

**Dimensions:** 28×53×138mm (1<sup>1</sup>/<sub>8</sub>×2<sup>1</sup>/<sub>16</sub>×5<sup>3</sup>/<sub>16</sub> in.)

**Weight:** 85g (3 oz.) without batteries.

### MOTOR DRIVE 1

**Type:** Automatic film-advancing detachable motor drive for use with Minolta X-700 camera body

**Function:** Operates camera's film-advance/shutter-cocking mechanism with four-position selector dial and two touch-switch/operating buttons

**Film-advance rate:** Three operating modes: "S" mode: single frame, "Lo" mode: up to 2 fps, "H" mode: up to 3.5 fps.

**Film rewinding:** Manual.

**Power sources:** Eight AA-size (penlight) cells

**Drive motor:** Coreless-type micromotor

**Usable exposure-control modes:** Automatic or manual

**Others:** Tension-type switch to stop film advance at end of cartridge.

**Dimensions:** 72.5×98.5×149mm (2<sup>7</sup>/<sub>8</sub>×3<sup>7</sup>/<sub>8</sub>×5<sup>7</sup>/<sub>16</sub> in.)

**Weights:** 305g (10<sup>3</sup>/<sub>8</sub> oz.) without cells

### WIRELESS CONTROLLER IR-1 SET

**Type:** Compact transmitter-receiver set for remote camera control by near-infrared radiation

**Max. range:** Approx. 60m (200 ft.)

**Operating channels:** Three

**Action modes:** Continuous (C) and single-frame (S)

**Transmitter unit:** Transmission angle: 50° vertically, 70° horizontally

**Receiver unit:** Reception angle: 80° vertically and horizontally

**Power sources:** Transmitter: Two AA-size 1.5v sealed carbon-zinc, alkaline-manganese, or 1.2v nickel-cadmium cells. Receiver: One 9v battery, Eveready 216 or equivalent

**Dimensions:** Transmitter: 34×70×116mm (1<sup>3</sup>/<sub>16</sub>×2<sup>3</sup>/<sub>8</sub>×4<sup>5</sup>/<sub>16</sub> in.)

Receiver: 43×60×94mm (1<sup>7</sup>/<sub>16</sub>×2<sup>3</sup>/<sub>16</sub>×3<sup>7</sup>/<sub>16</sub> in.)

**Weights:** Transmitter: 110g (3<sup>3</sup>/<sub>8</sub> oz.) without power cells, Receiver: 100g (3<sup>1</sup>/<sub>2</sub> oz.) without battery

Specifications subject to change without notice

# Minolta lenses

A wide array of superior optics, each made from the glass on up with extreme precision.



A Minolta lens is a combination of the most sophisticated computer design, rare ingredients, precision manufacture and assembly, testing and retesting, finishing and inspection. From start to finish, this process blends the most modern, automated equipment with age-old craftsmanship and pride of accomplishment to produce about 50 uncommonly excellent lenses ranging from a 7.5mm Fisheye to a 1600mm Super Telephoto... each bearing the proud Minolta name. You can be sure that when you mount a Minolta lens to your X-700 that you're making a wise investment in photography: the perfect match of a superior camera with a superior lens.

## MINIMUM-APERTURE LOCK

The new Minolta MD lenses come with a convenient minimum aperture lock that helps insure your X-700's top performance when using the P mode.



# Minolta lenses

LENS	ELEMENTS	GROUPS	METER-COUPLED AUTO-DIAPHRAGM	ANGLE OF VIEW	MINIMUM FOCUS		FILTER-MOUNT DIAMETER	DIMENSIONS	WEIGHT
MINOLTA 7.5mm f/4 MD FISHEYE	12	8	Yes	180°	0.5m (1.6 ft.)	f/22	Built-in	Ø68×63mm	345g (12 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 16mm f/2.8 MD FISHEYE	10	7	Yes	180°	0.25m (0.8 ft.)	f/22	Built-in	Ø64.5×43mm	265g (9 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 17mm f/4 MD	11	9	Yes	104°	0.25m (0.8 ft.)	f/22	72mm	Ø75×53mm	325g (11 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 20mm f/2.8 MD	10	9	Yes	94°	0.25m (0.8 ft.)	f/22	55mm	Ø64×43.5mm	240g (8 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 24mm f/2.8 MD	8	8	Yes	84°	0.25m (0.8 ft.)	f/22	49mm	Ø64×39mm	200g (7 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 28mm f/2.8 MD	7	7	Yes	75°	0.3m (1 ft.)	f/22	49mm	Ø64×43mm	185g (6 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 28mm f/2 MD	9	9	Yes	75°	0.3m (1 ft.)	f/22	49mm	Ø64×50mm	265g (9 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 35mm f/2.8 MD	5	5	Yes	63°	0.3m (1 ft.)	f/22	49mm	Ø64×38mm	165g (5 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 35mm f/1.8 MD	8	6	Yes	63°	0.3m (1 ft.)	f/22	49mm	Ø64×48mm	240g (8 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/2 MD	6	5	Yes	47°	0.45m (1.5 ft.)	f/22	49mm	Ø64×36mm	155g (5 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/1.7 MD	6	5	Yes	47°	0.45m (1.5 ft.)	f/22	49mm	Ø64×36mm	165g (5 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/1.4 MD	7	6	Yes	47°	0.45m (1.5 ft.)	f/16	49mm	Ø64×40mm	235g (8 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/1.2 MD	7	6	Yes	47°	0.45m (1.5 ft.)	f/16	55mm	Ø65×46mm	310g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 85mm f/2 MD	6	5	Yes	29°	0.85m (2.8 ft.)	f/22	49mm	Ø64×53.5mm	285g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 85mm f/1.7 MD	6	5	Yes	29°	1m (3.3 ft.)	f/22	55mm	Ø71×62mm	455g (1 lb.)
MINOLTA 100mm f/2.5 MD	5	5	Yes	24°	1m (3.3 ft.)	f/22	49mm	Ø64×65.5mm	310g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 135mm f/3.5 MD	5	5	Yes	18°	1.5m (4.9 ft.)	f/22	49mm	Ø64×72.5mm	285g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 135mm f/2.8 MD	5	5	Yes	18°	1.5m (4.9 ft.)	f/22	55mm	Ø64×82mm	365g (12 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 135mm f/2 MD	6	5	Yes	18°	1.3m (4.3 ft.)	f/22	72mm	Ø79×96mm	725g (1 lb. 9 <sup>9</sup> / <sub>16</sub> oz.)
MINOLTA 200mm f/4 MD	5	5	Yes	12°30'	2.5m (8.2 ft.)	f/32	55mm	Ø64×116.5mm	400g (14 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 200mm f/2.8 MD	5	5	Yes	12°30'	1.8m (6 ft.)	f/32	72mm	Ø78×133mm	700g (1 lb. 8 <sup>11</sup> / <sub>16</sub> oz.)
MINOLTA 300mm f/5.6 MD	5	5	Yes	8°10'	4.5m (14.8 ft.)	f/32	55mm	Ø65×186mm	695g (1 lb. 8 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 300mm f/4.5 MD	7	6	Yes	8°10'	3m (9.8 ft.)	f/32	72mm	Ø77.5×177.5mm	710g (1 lb. 9 oz.)
MINOLTA 400mm f/5.6 MD APO	7	6	Yes	6°10'	5m (16.4 ft.)	f/32	72mm	Ø83×256.5mm	1440g (3 lb. 2 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 600mm f/6.3 MD APO	9	8	Yes	4°10'	5m (16.4 ft.)	f/32	*	Ø108.5×373.5mm	2400g (5 lb. 4 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 250mm f/5.6 RF	6/2 mirrors	5	No	10°	2.5m (8.2 ft.)	f/16	*	Ø66.5×58mm	250g (8 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 500mm f/8 RF	6/2 mirrors	5	No	5°	4m (13.1 ft.)	f/16	*	Ø83×98.5mm	600g (1 lb. 5 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 800mm f/8 RF	8/2 mirrors	7	No	3°10'	8m (26.2 ft.)	f/16	*	Ø127×178mm	1960g (4 lb. 5 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 1600mm f/11 RF	6/2 mirrors	5	No	1°30'	20m (65.6 ft.)	f/22	*	Ø179×325.5mm	6290g (13 lb. 13 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 24-35mm f/3.5 MD ZOOM	10	10	Yes	84°-63°	0.3m (1 ft.)	f/22	55mm	Ø67×50mm	285g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 24-50mm f/4 MD ZOOM	13	11	Yes	84°-47°	0.7m (2.3 ft.)	f/22	72mm	Ø75×69.5mm	395g (13 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 35-70mm f/3.5 MD ZOOM	8	7	Yes	63°-34°	1m (3.3 ft.)	f/22	55mm	Ø69×65.5mm	355g (12 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 35-105mm f/3.5-4.5 MD ZOOM	16	13	Yes	63°-23°	1.6m (5.2 ft.)	f/22	55mm	Ø65×90.5mm	480g (1 lb. 1 <sup>15</sup> / <sub>16</sub> oz.)
MINOLTA 50-135mm f/3.5 MD ZOOM	12	10	Yes	47°-18°	1.5m (4.9 ft.)	f/32	55mm	Ø68.5×118mm	480g (1 lb. 1 <sup>15</sup> / <sub>16</sub> oz.)
MINOLTA 75-150mm f/4 MD ZOOM	12	8	Yes	32°-16°30'	1.2m (3.9 ft.)	f/32	49mm	Ø64×113.5mm	445g (15 <sup>11</sup> / <sub>16</sub> oz.)
MINOLTA 75-200mm f/4.5 MD ZOOM	15	11	Yes	32°-12°30'	1.2m (3.9 ft.)	f/22	55mm	Ø70×155mm	640g (1 lb. 6 <sup>6</sup> / <sub>16</sub> oz.)
MINOLTA 100-200mm f/5.6 MD ZOOM	8	5	Yes	24°-12°30'	2.5m (8.2 ft.)	f/22	55mm	Ø64×171.5mm	595g (1 lb. 4 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 100-500mm f/8 MD ZOOM	16	10	Yes	24°-5°	2.5m (8.2 ft.)	f/32	72mm	Ø90.5×330mm	2110g (4 lb. 10 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 24mm f/2.8 MD VFC	9	7	Yes	84°	0.3m (1 ft.)	f/22	55mm	Ø64.5×50.5mm	340g (12 oz.)
MINOLTA 35mm f/2.8 SHIFT CA	9	7	No**	63°	0.3m (1 ft.)	f/22	55mm	Ø83.5×71.5mm	555g (1 lb. 3 <sup>9</sup> / <sub>16</sub> oz.)
MINOLTA 85mm f/2.8 VARISOFT	6	5	Yes	29°	0.8m (2.6 ft.)	f/16	55mm	Ø70×80mm	430g (15 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/3.5 MD MACRO	6	4	Yes	47°	0.23m (9 in.)	f/22	55mm	Ø64×55.5mm	200g (7 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 100mm f/4 MD MACRO	5	4	Yes	24°	0.45m (1.5 ft.)	f/32	55mm	Ø66×88.5mm	385g (13 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 12.5mm f/2 BELLOWS MICRO	4	4	No	-	-	f/16	***	Ø33×23.5mm	40g (1 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 25mm f/2.5 BELLOWS MICRO	6	4	No	-	-	f/16	***	Ø33.5×17mm	40g (1 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/3.5 AUTO BELLOWS MACRO	6	4	No**	-	-	f/32	****	Ø57×24.5mm	115g (4 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 100mm f/4 AUTO BELLOWS MACRO	5	4	No**	-	-	f/32	****	Ø57×28.5mm	150g (5 <sup>1</sup> / <sub>16</sub> oz.)
<b>Minolta/Celtic Lenses</b>									
28mm f/2.8 MD MINOLTA/CELTIC	7	7	Yes	75°	0.3m (1 ft.)	f/22	49mm	Ø64×43.5mm	180g (6 <sup>3</sup> / <sub>16</sub> oz.)
135mm f/3.5 MINOLTA/CELTIC	5	5	Yes	18°	1.5m (4.9 ft.)	f/22	49mm	Ø64×72.5mm	265g (9 <sup>5</sup> / <sub>16</sub> oz.)

\* Integral lens-element type \*\* Auto diaphragm \*\*\* Optional gelatin-filter holder

\*\*\*\* Optional gelatin-filter holder/55mm filter with hood

# Minolta lenses

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LENS	ELEMENTS	GROUPS	METER-COUPLED AUTO-DIAPHRAGM	ANGLE OF VIEW	MINIMUM FOCUS	MINIMUM F-STOP	FILTER-MOUNT DIAMETER	DIMENSIONS	WEIGHT
MINOLTA 7.5mm f/4 MD FISHEYE	12	8	Yes	180°	0.5m (1.6 ft.)	f/22	Built-in	ø68×63mm	345g (12 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 16mm f/2.8 MD FISHEYE	10	7	Yes	180°	0.25m (0.8 ft.)	f/22	Built-in	ø64.5×43mm	265g (9 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 17mm f/4 MD	11	9	Yes	104°	0.25m (0.8 ft.)	f/22	72mm	ø75×53mm	325g (11 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 20mm f/2.8 MD	10	9	Yes	94°	0.25m (0.8 ft.)	f/22	55mm	ø64×43.5mm	240g (8 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 24mm f/2.8 MD	8	8	Yes	84°	0.25m (0.8 ft.)	f/22	49mm	ø64×39mm	200g (7 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 28mm f/2.8 MD	7	7	Yes	75°	0.3m (1 ft.)	f/22	49mm	ø64×43mm	185g (6 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 28mm f/2 MD	9	9	Yes	75°	0.3m (1 ft.)	f/22	49mm	ø64×50mm	265g (9 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 35mm f/2.8 MD	5	5	Yes	63°	0.3m (1 ft.)	f/22	49mm	ø64×38mm	165g (5 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 35mm f/1.8 MD	8	6	Yes	63°	0.3m (1 ft.)	f/22	49mm	ø64×48mm	240g (8 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/2 MD	6	5	Yes	47°	0.45m (1.5 ft.)	f/22	49mm	ø64×36mm	155g (5 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/1.7 MD	6	5	Yes	47°	0.45m (1.5 ft.)	f/22	49mm	ø64×36mm	165g (5 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/1.4 MD	7	6	Yes	47°	0.45m (1.5 ft.)	f/16	49mm	ø64×40mm	235g (8 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/1.2 MD	7	6	Yes	47°	0.45m (1.5 ft.)	f/16	55mm	ø65×46mm	310g (10 <sup>15</sup> / <sub>16</sub> oz.)
MINOLTA 85mm f/2 MD	6	5	Yes	29°	0.85m (2.8 ft.)	f/22	49mm	ø64×53.5mm	285g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 85mm f/1.7 MD	6	5	Yes	29°	1m (3.3 ft.)	f/22	55mm	ø71×62mm	455g (1 lb.)
MINOLTA 100mm f/2.5 MD	5	5	Yes	24°	1m (3.3 ft.)	f/22	49mm	ø64×65.5mm	310g (10 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 135mm f/3.5 MD	5	5	Yes	18°	1.5m (4.9 ft.)	f/22	49mm	ø64×72.5mm	285g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 135mm f/2.8 MD	5	5	Yes	18°	1.5m (4.9 ft.)	f/22	55mm	ø64×82mm	365g (12 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 135mm f/2 MD	6	5	Yes	18°	1.3m (4.3 ft.)	f/22	72mm	ø79×96mm	725g (1 lb. 9 <sup>9</sup> / <sub>16</sub> oz.)
MINOLTA 200mm f/4 MD	5	5	Yes	12°30'	2.5m (8.2 ft.)	f/32	55mm	ø64×116.5mm	400g (14 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 200mm f/2.8 MD	5	5	Yes	12°30'	1.8m (6 ft.)	f/32	72mm	ø78×133mm	700g (1 lb. 8 <sup>11</sup> / <sub>16</sub> oz.)
MINOLTA 300mm f/5.6 MD	5	5	Yes	8°10'	4.5m (14.8 ft.)	f/32	55mm	ø65×186mm	695g (1 lb. 8 <sup>1</sup> / <sub>2</sub> oz.)
MINOLTA 300mm f/4.5 MD	7	6	Yes	8°10'	3m (9.8 ft.)	f/32	72mm	ø77.5×177.5mm	710g (1 lb. 9 oz.)
MINOLTA 400mm f/5.6 MD APO	7	6	Yes	6°10'	5m (16.4 ft.)	f/32	72mm	ø83×256.5mm	1440g (3 lb. 2 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 600mm f/6.3 MD APO	9	8	Yes	4°10'	5m (16.4 ft.)	f/32	*	ø108.5×373.5mm	2400g (5 lb. 4 <sup>1</sup> / <sub>2</sub> oz.)
MINOLTA 250mm f/5.6 RF	6/2 mirrors	5	No	10°	2.5m (8.2 ft.)	f/16	*	ø66.5×58mm	250g (8 <sup>13</sup> / <sub>16</sub> oz.)
MINOLTA 500mm f/8 RF	6/2 mirrors	5	No	5°	4m (13.1 ft.)	f/16	*	ø83×98.5mm	600g (1 lb. 5 <sup>1</sup> / <sub>2</sub> oz.)
MINOLTA 800mm f/8 RF	8/2 mirrors	7	No	3°10'	8m (26.2 ft.)	f/16	*	ø127×178mm	1960g (4 lb. 5 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 1600mm f/11 RF	6/2 mirrors	5	No	1°30'	20m (65.6 ft.)	f/22	*	ø179×325.5mm	6290g (13 lb. 13 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 24-35mm f/3.5 MD ZOOM	10	10	Yes	84°-63°	0.3m (1 ft.)	f/22	55mm	ø67×50mm	285g (10 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 24-50mm f/4 MD ZOOM	13	11	Yes	84°-47°	0.7m (2.3 ft.)	f/22	72mm	ø75×69.5mm	395g (13 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 35-70mm f/3.5 MD ZOOM	8	7	Yes	63°-34°	1m (3.3 ft.)	f/22	55mm	ø69×65.5mm	355g (12 <sup>1</sup> / <sub>2</sub> oz.)
MINOLTA 35-105mm f/3.5-4.5 MD ZOOM	16	13	Yes	63°-23°	1.6m (5.2 ft.)	f/22	55mm	ø65×90.5mm	480g (1 lb. 1 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 50-135mm f/3.5 MD ZOOM	12	10	Yes	47°-18°	1.5m (4.9 ft.)	f/32	55mm	ø68.5×118mm	480g (1 lb. 1 <sup>5</sup> / <sub>16</sub> oz.)
MINOLTA 75-150mm f/4 MD ZOOM	12	8	Yes	32°-16°30'	1.2m (3.9 ft.)	f/32	49mm	ø64×113.5mm	445g (15 <sup>11</sup> / <sub>16</sub> oz.)
MINOLTA 75-200mm f/4.5 MD ZOOM	15	11	Yes	32°-12°30'	1.2m (3.9 ft.)	f/22	55mm	ø70×155mm	640g (1 lb. 6 <sup>6</sup> / <sub>16</sub> oz.)
MINOLTA 100-200mm f/5.6 MD ZOOM	8	5	Yes	24°-12°30'	2.5m (8.2 ft.)	f/22	55mm	ø64×171.5mm	595g (1 lb. 4 <sup>9</sup> / <sub>16</sub> oz.)
MINOLTA 100-500mm f/8 MD ZOOM	16	10	Yes	24°-5°	2.5m (8.2 ft.)	f/32	72mm	ø90.5×330mm	2110g (4 lb. 10 <sup>7</sup> / <sub>16</sub> oz.)
MINOLTA 24mm f/2.8 MD VFC	9	7	Yes	84°	0.3m (1 ft.)	f/22	55mm	ø64.5×50.5mm	340g (12 oz.)
MINOLTA 35mm f/2.8 SHIFT CA	9	7	No**	63°	0.3m (1 ft.)	f/22	55mm	ø83.5×71.5mm	555g (1 lb. 3 <sup>9</sup> / <sub>16</sub> oz.)
MINOLTA 85mm f/2.8 VARISOFT	6	5	Yes	29°	0.8m (2.6 ft.)	f/16	55mm	ø70×80mm	430g (15 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/3.5 MD MACRO	6	4	Yes	47°	0.23m (9 in.)	f/22	55mm	ø64×55.5mm	200g (7 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 100mm f/4 MD MACRO	5	4	Yes	24°	0.45m (1.5 ft.)	f/32	55mm	ø66×88.5mm	385g (13 <sup>3</sup> / <sub>16</sub> oz.)
MINOLTA 12.5mm f/2 BELLOWS MICRO	4	4	No	-	-	f/16	***	ø33×23.5mm	40g (1 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 25mm f/2.5 BELLOWS MICRO	6	4	No	-	-	f/16	***	ø33.5×17mm	40g (1 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 50mm f/3.5 AUTO BELLOWS MACRO	6	4	No**	-	-	f/32	****	ø57×24.5mm	115g (4 <sup>1</sup> / <sub>16</sub> oz.)
MINOLTA 100mm f/4 AUTO BELLOWS MACRO	5	4	No**	-	-	f/32	****	ø57×28.5mm	150g (5 <sup>5</sup> / <sub>16</sub> oz.)
<b>Minolta/Celtic Lenses</b>									
28mm f/2.8 MD MINOLTA/CELTIC	7	7	Yes	75°	0.3m (1 ft.)	f/22	49mm	ø64×43.5mm	180g (6 <sup>3</sup> / <sub>16</sub> oz.)
135mm f/3.5 MINOLTA/CELTIC	5	5	Yes	18°	1.5m (4.9 ft.)	f/22	49mm	ø64×72.5mm	265g (9 <sup>5</sup> / <sub>16</sub> oz.)

\* Integral lens-element type \*\* Auto diaphragm \*\*\* Optional gelatin-filter holder

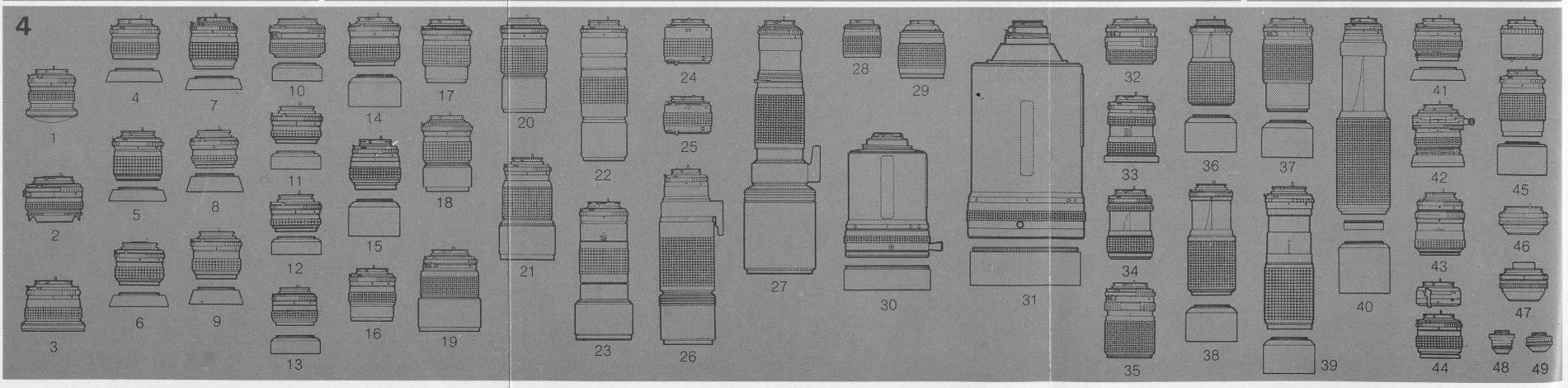
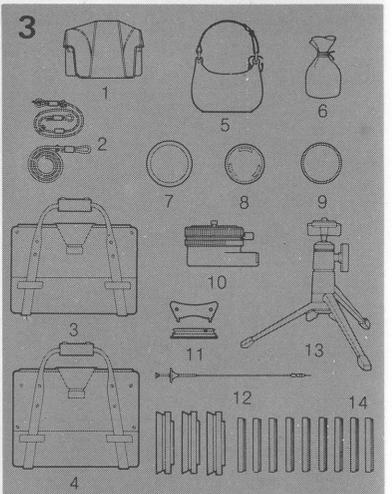
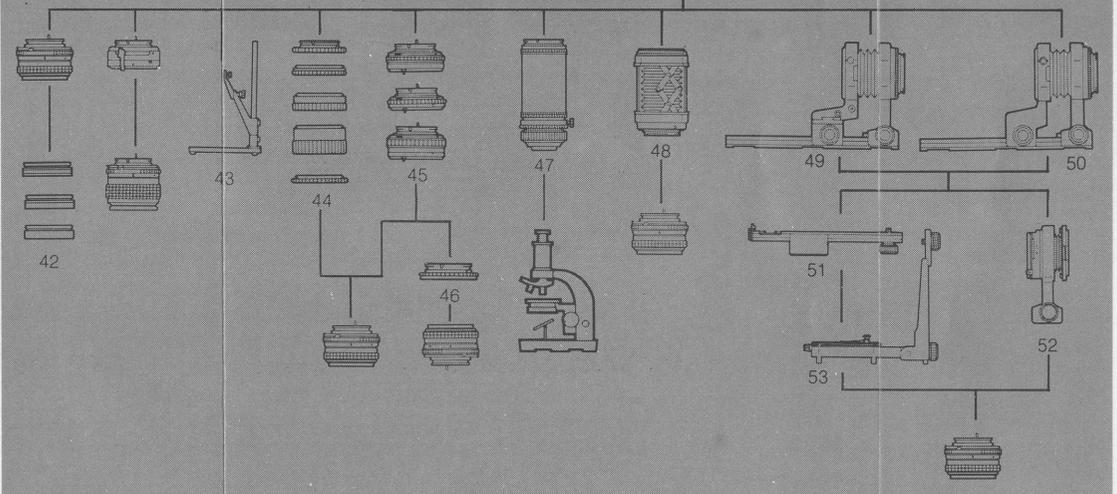
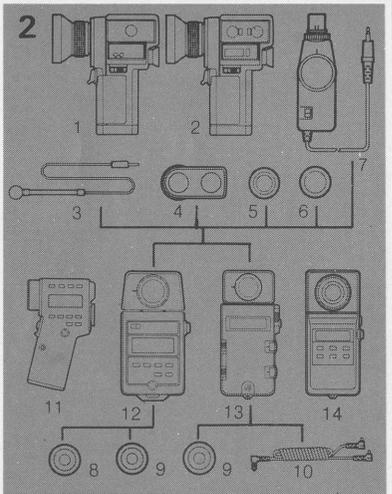
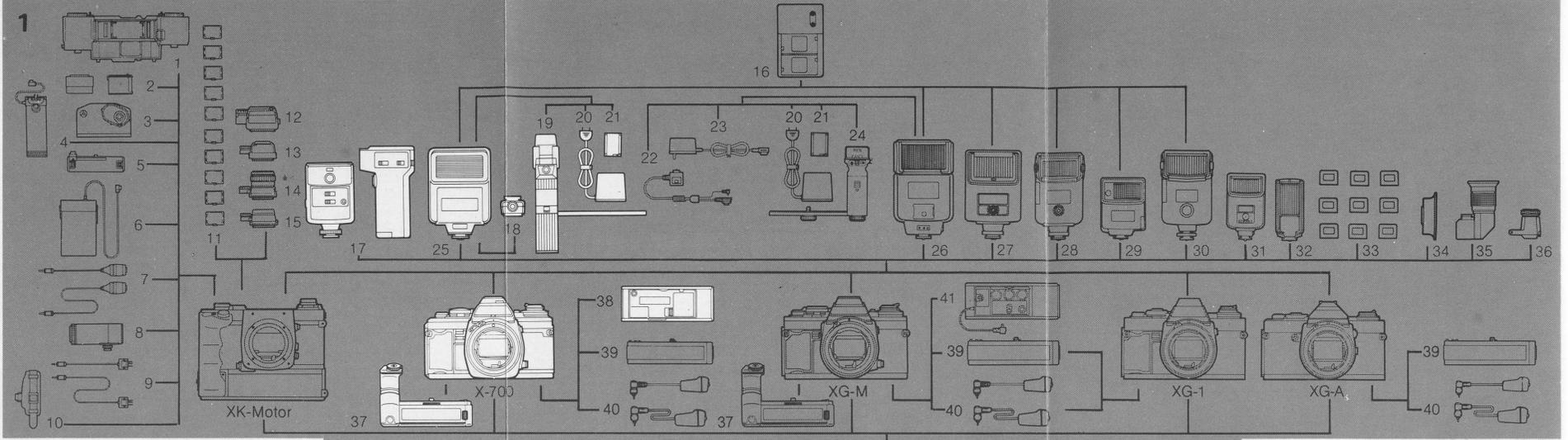
\*\*\*\* Optional gelatin-filter holder/55mm filter with hood

# Minolta SLR accessories

Add to your capabilities with these many specially designed Minolta photographic accessories.



Hundreds of custom Minolta SLR accessories give you virtually unlimited opportunities for ranging far and wide in the field of photography. Whether you're choosing something as simple as a color filter or something as complex as a sophisticated spot meter, you can depend upon your Minolta dealer's offering of fine Minolta SLR accessories. Each is made with care and precision to give you many, many years of value and performance. And each will multiply your X-700's usefulness and creativity manifold.



# The Minolta SLR System

## I MOTOR DRIVE EQUIPMENT FOR XK MOTOR

1. 250-Frame Film Back
2. Film Cartridge with Case
3. Film Loader
4. Battery Grip
5. Standard Battery Pack
6. Separate Battery Pack
7. Remote-Control Cord S & L
8. Intervalometer PM
9. Connecting Cord S & L
10. Leather Holding Strap

## FINDERS AND FOCUSING SCREENS FOR XK MOTOR

11. Focusing Screens (10 types)
12. AE-S Finder
13. Plain Finder
14. High-Magnification Finder
15. Waist-Level Finder

## FLASH UNITS & ACCESSORIES

16. Ni-Cd Charger NC-2
17. Wireless Controller IR-1 Set
18. Off Camera Shoe
19. Power Grip 2
20. Ni-Cd Charger QC-1
21. Ni-Cd Battery Pack NP-2
22. Remote-Sensor Adapter
23. AC Adapter-3
24. Power Grip 1
25. Auto Electroflash 280PX
26. Auto Electroflash 320X
27. Auto Electroflash 200X
28. Auto Electroflash 132X
29. Auto Electroflash 118X
30. Auto Electroflash 128
31. Auto Electroflash 25
32. Electroflash 20

## FINDER ACCESSORIES

33. Eyepiece Corrector V<sub>N</sub> (No. 1—No. 9)
34. Rubber Eyecup
35. Angle Finder V<sub>N</sub>
36. Magnifier V<sub>N</sub>

## VERSATILE ACCESSORIES

37. Motor Drive 1
38. Multi Function Back
39. Auto Winder G
40. Remote Cord S & L
41. Data Back G

## CLOSE-UP ACCESSORIES

42. Close-Up Lens (No. 0, 1, 2)
43. Copy Stand II
44. Extension Tube Set II
45. MC Auto Extension Tubes
46. Reverse Ring II
47. Microscope Adapter
48. Compact Bellows
49. Auto Bellows III
50. Bellows IV
51. Focusing Rail AB-III
52. Slide Copier AB-III
53. Macro Stand AB-III

## 2 METER & ACCESSORIES

1. Auto-Spot II
2. Auto Spot II Digital
3. Mini Receptor
4. Viewfinder 10°
5. 4X & 8X Spherical ND Diffuser
6. Flat Diffuser
7. Booster
8. Spot Mask II
9. Reflected-Light Attachment
10. Sync. Cord II
11. Spotmeter M
12. Auto Meter III
13. Flash Meter III
14. Color Meter II

## 3 OTHER ACCESSORIES

1. Eveready Case
2. Neck Strap
3. Gadget Bag XB-5s
4. Gadget Bag XB-7s
5. Soft Bag Professional III
6. Flexible Lens Pouch
7. Lens Cap
8. Lens Rear Cap
9. Body Cap
10. Panorama Head II
11. Praktica-Mount Adapter
12. Cable Release II
13. Mini Tripod TR-1
14. Filters

## 4 MINOLTA LENSES

1. 7.5 mm f/4 MD Fisheye
2. 16 mm f/2.8 MD Fisheye
3. 17 mm f/4 MD
4. 20 mm f/2.8 MD
5. 24 mm f/2.8 MD
6. 28 mm f/2.8 MD
7. 28 mm f/2 MD
8. 35 mm f/2.8 MD
9. 35 mm f/1.8 MD
10. 50 mm f/2 MD
11. 50 mm f/1.7 MD
12. 50 mm f/1.4 MD
13. 50 mm f/1.2 MD
14. 85 mm f/2 MD
15. 85 mm f/1.7 MD
16. 100 mm f/2.5 MD
17. 135 mm f/3.5 MD
18. 135 mm f/2.8 MD
19. 135 mm f/2 MD
20. 200 mm f/4 MD
21. 200 mm f/2.8 MD
22. 300 mm f/5.6 MD
23. 300 mm f/4.5 MD
24. MD 2X Tele Converter 300-L
25. MD 2X Tele Converter 300-S
26. 400 mm f/5.6 MD Apo
27. 600 mm f/6.3 MD Apo
28. 250 mm f/5.6 RF
29. 500 mm f/8 RF
30. 800 mm f/8 RF
31. 1600 mm f/11 RF
32. 24—35 mm f/3.5 MD Zoom
33. 24—50 mm f/4 MD Zoom
34. 35—70 mm f/3.5 MD Zoom
35. 35—105 mm f/3.5—4.5 MD Zoom
36. 50—135 mm f/3.5 MD Zoom
37. 75—150 mm f/4 MD Zoom
38. 75—200 mm f/4.5 MD Zoom
39. 100—200 mm f/5.6 MD Zoom
40. 100—500 mm f/8 MD Zoom
41. 24 mm f/2.8 MD VFC
42. 35 mm f/2.8 Shift CA
43. 85 mm f/2.8 Varisoft
44. 50 mm f/3.5 MD Macro
45. 100 mm f/4 MD Macro
46. 50 mm f/3.5 Auto Bellows Macro
47. 100 mm f/4 Auto Bellows Macro
48. 12.5 mm f/2 Bellows Micro
49. 25 mm f/2.5 Bellows Micro