

Minolta Electronic Auto-Exposure 35mm Single Lens Reflex Cameras and CLE



Minolta's X-series 35mm single lens reflex cameras combine state-of-the-art photographic technology with Minolta's traditional fine handling and human engineering to achieve precision instruments that are totally responsive to creative photography. Through-the-lens metering coupled with advanced, electronically governed focal-plane shutters provide highly accurate automatic exposure control. All X-series cameras are compatible with the vast array of lenses and accessories that comprise the Minolta single lens reflex system.

Extreme ruggedness and flexibility are hallmarks of the Minolta XK Motor Drive. Its integral motor drive provides single-frame and continuous-run film advance up to 3.5 frames per second with a fail-safe automatically governed framing rate. The AE-S finder gives automatic, through-the-lens exposure control via an ultra-sensitive silicon photo diode to assure exposure accuracy at the maximum framing rate. And, with motorized film rewind, changing film cassettes is quick and easy.

Interchangeable finders, focusing screens, film backs and battery packs allow the XK Motor Drive camera to adapt to virtually any assignment.

Minolta XD-series cameras provide photographers with the versatility of multi-mode exposure control. Minolta was first to offer this innovation, and now offers two models, both of which allow the

user the creative choice of aperture and shutter-priority automation, plus metered-manual operation at the turn of a lever. The photographer can select shutter-priority operation to freeze action or control the amount of blur for creative effect. Aperture-priority operation is not only useful for depth-of-field control, auto-exposure with bellows, extension tubes and mirror lenses, but for the control of shutter speed as well. Full metered-manual exposure control allows for special techniques.

A vibration-free electromagnetic shutter release triggers the quiet electronic shutter. Two mechanically-controlled shutter settings are also available in the event the batteries fail. An extremely bright Acute Matte Focusing Screen and extra-large instant-return mirror complement the full-information viewfinders. Versatility is added to XD-series cameras with special accessories for motorized film advance and "dedicated" automatic electronic flash units.

The compact, economical XG-series cameras offer both aperture-priority automation and full manual exposure control. Smooth and quiet in operation, XG-series cameras are quick and easy to use. A mere touch of a finger on the electromagnetic shutter release engages its unique sensor switch to activate the light-emitting diode (LED) viewfinder display. As an aid to prevent accidental overexposure, the release will lock if the auto-exposure

circuitry requires a shutter speed faster than 1/1000 second. These cameras allow full manual control for employing sophisticated photo techniques. The silent electronic self-timer features a large red LED signal which pulsates with increasing frequency during its ten-second operating cycle to indicate the approaching exposure.

The Motor Drive 1, designed exclusively for the XG-M, provides single-frame and continuous-run film advance up to 3.5 frames per second. Plus, auto winders and "dedicated" automatic electronic flash units are available as accessories to make the XG cameras a truly versatile system.

The Minolta CLE is the world's first 35mm rangefinder camera system with interchangeable lenses and aperture-priority automatic exposure control. It is a high quality, precision instrument with many sophisticated features previously found only on single lens reflex cameras. The CLE system includes three M-Rokkor lenses—28mm wide angle, 40mm standard and 90mm telephoto—and the special Auto Electroflash CLE for perfectly exposed flash pictures at any aperture.

The CLE features auto-exposure override control, bright frame lines for each M-Rokkor lens, LED shutter-speed viewfinder display, electronic self-timer, and an energy-saving touch-switch. This quiet, compact, lightweight system provides unsurpassed precision and performance.

Minolta XK Motor Drive

The world's first 35mm single lens reflex camera designed specifically for integral motorized operation with automatic, electronic, silicon-cell through-lens exposure control, fail-safe, automatically governed framing rate and interchangeable finders, focusing screens and battery packs.

AE-S Finder

Pentaprism provides bright viewing/focusing image. Houses instant-response, highly sensitive silicon-cell, center-weighted metering system and auto-exposure circuitry controlling XK Motor Drive's electronic shutter and automatically governed continuous-run framing rate. AE-S Finder allows automatic, metered-manual or completely manual exposure in all motor-drive operating modes, and is fully interchangeable with other XK system finders.

Meter Coupler

Follows coupling lug on meter-coupled Minolta lenses.

Lens Release Button

Releases bayonet mount lock for rapid lens changing.

Synchronization Terminal

Cord-contact flash units synchronize through PC-type terminal, which is threaded for Minolta screw-lock synch cord.

Synchronization Selector Switch

Adjusts for either X or FP flash synchronization.

Depth-of-Field Preview Button

Full-aperture metering pushed in, depth-of-field preview or stop-down metering in outer position.

Motor-Drive Housing

Permanently attached motor provides single-frame and continuous-run motorized film advance at framing rates to 3.5 frames per second, plus motorized rewinding. Fail-safe circuitry controlled by AE-S Finder prevents cycling faster than automatically set or user-set shutter speed permits, for proper exposure and perfect functioning. Integral design provides superior protection against dust and moisture.

Standard Battery Pack

Holds 10 AA-size (penlight) batteries. Alkaline-manganese provide motor-drive power for 20 to 80 36-exposure cartridges, depending on framing rate. Detaches when camera is used with other interchangeable battery packs.

Eyepiece-Shutter Control

Control opens or closes internal eyepiece blind.

Finder Power Switch

Sets AE-S Finder for metering with part- or full-time LED/digital shutter speed indication. In OFF position, metering and LED/digital display are controlled by Senswitch in grip.

Manual Film Rewind

Unfold crank to rewind film manually, pull knob up to open back.

Battery Checker

When batteries powering electronic shutter and metering system have ample strength, lamp glows as battery-test lever is pushed.

Finder Release Button

Permits removal of both finder and focusing screen.

Reset Button

If reflex mirror locks in up position because of insufficient battery power or incorrect operating procedure, pushing button resets mirror to viewing/focusing position.

Battery Chamber

Accepts two silver-oxide batteries (Mallory MS-76 or equivalent) powering both shutter and exposure-control system.

Motorized Film Rewind Lever

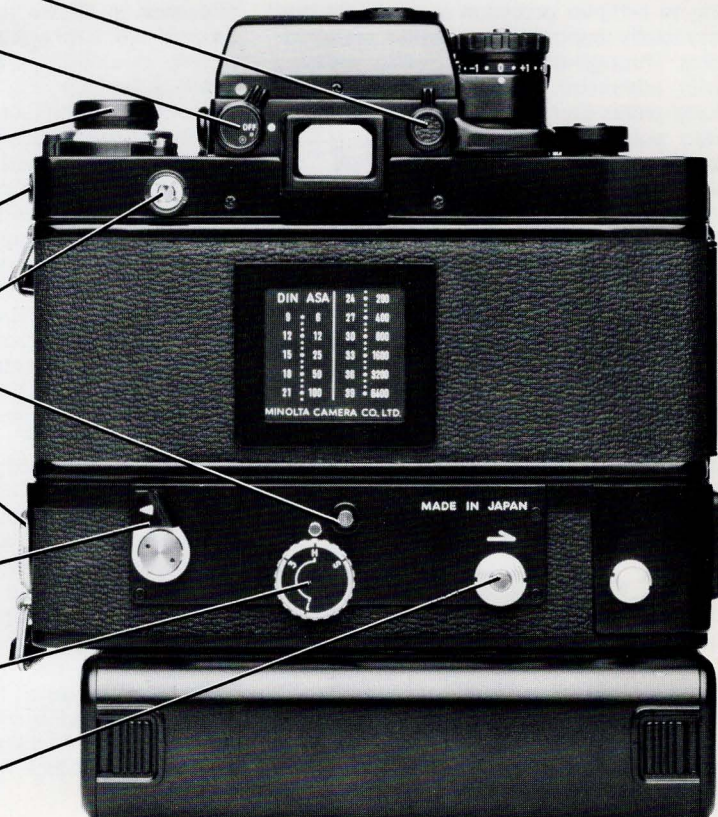
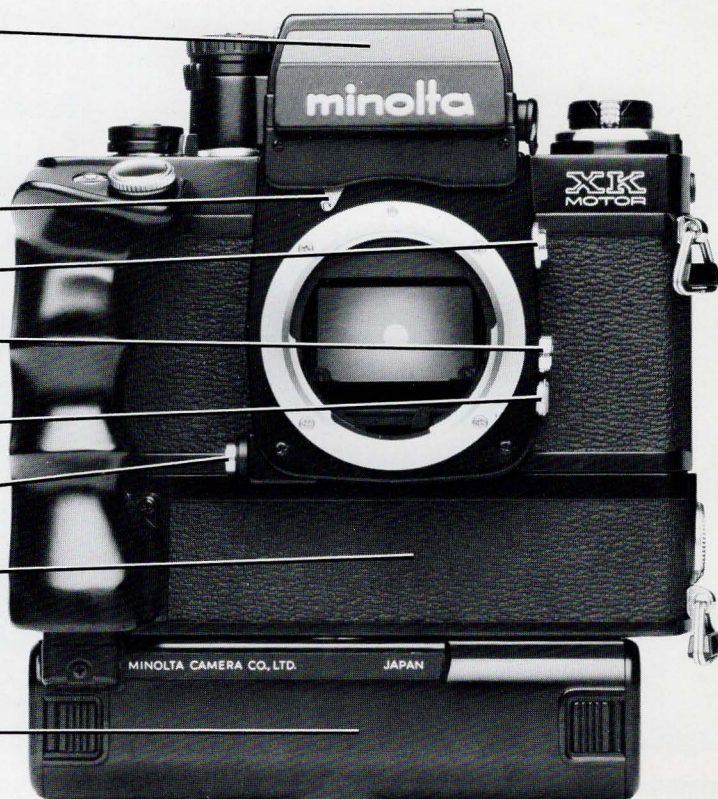
Moving lever to left rewinds film into cartridge via motor drive; sensor halts rewinding with leader outside cartridge. Lever resets to advance position when camera back is opened.

Frame-Rate Selector

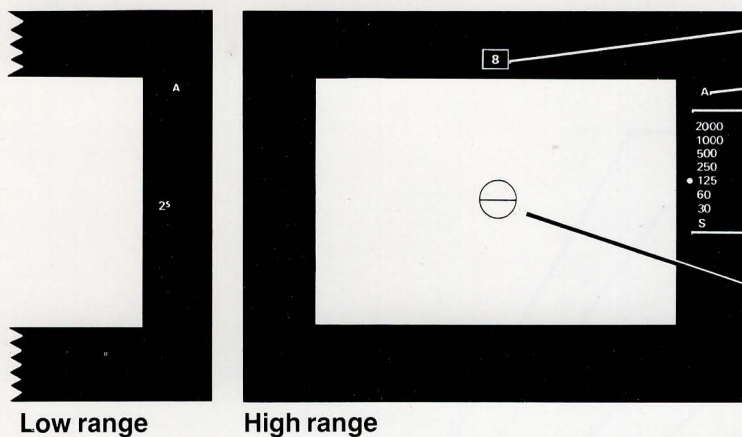
Sets motorized advance for single-frame (S) and continuous-run operation at 1, 2, 3 and 3.5 (H) frames per second. Fail-safe circuit prevents framing rate from "outrunning" shutter speed.

Multiple-Exposure Control

Permits accurately registered multiple exposures in motorized or manual operating modes.



NOTE: Specifications subject to change without notice. See page L1 for additional information.



Lens Aperture Readout

Window shows f/stop to which lens is set.

Mode/Shutter Speed Readout

When AE-S Finder is set for auto-exposure operation, "A" is displayed; in metered-manual or nonmetered operation, user-set shutter speed is displayed.

Shutter Speed Scale

Dual-range scale with stepless LED (High Range)/digital (Low Range) indication of speed being set automatically in AUTO mode or speed required for proper exposure in metered-manual mode. Range-change indication provided.

Type PM Focusing Screen

Matte fresnel field with central split-image spot surrounded by microprism collar. Supplied as standard with XK Motor Drive, easily interchangeable.

Shutter Speed Display-Range Selector

With lever angled down AE-S Finder displays high range (1/30 to 1/2000 second); with lever pointing forward, finder display switches to low range (8 seconds to 1/15).

Operating Button and Lock Ring

Light pressure on electromagnetic-relay operating button releases shutter and triggers motorized film advance. Rotating lock ring prevents accidental operation.

Anatomical Grip with Senswitch

Contoured for secure, comfortable holding. Senswitch (not visible) responds to fingertip pressure when grip is held and turns on exposure system instantly.

Motor Drive Battery Checker

Push button and gauge (not visible) on side of hand grip monitor motor-drive battery power.

Remote Control Input Jack

Accepts electrical connecting cords for intervalometers and other remote releases.

Film Speed Setting Lock Release

Button must be pressed to change film speed setting.

Long Exposure Selector Lever

For manual selection of electronically timed speeds from 2 to 16 seconds, with shutter speed dial set to B.

Exposure Counter

Additive type, resets automatically when camera back is opened. Counts 1 through 40, magnified for easy reading.

Auto-Exposure Override Control

Manually alters automatic exposure; up to ± 2 EV continuous range, with $\frac{1}{2}$ -EV click stops and lock at 0.

Shutter Speed/Function Selector and Lock Release

On AUTO, provides stepless, automatically set, electronically timed speeds from 8 seconds through 1/2000. Electronically timed stepped speeds may be set from 1 second to 1/2000 in metered-manual operation. Mechanically governed B and X settings allow long time exposures and electronic flash synch at 1/100 second, respectively. Central lock release button must be pressed to move dial from AUTO setting.

Manual Film Advance Lever

Comfortably contoured single- or multiple-stroke lever has 20° standoff from body for easy access, smooth 110° winding stroke.

Compensation Factor Selector

Adjusts meter response for certain focusing screen / lens combinations.

Film Speed Selector

AE-S Finder may be set for film speeds from ASA 12 to ASA 6400 in 1/3-stop increments.

Accessory Mount

Accepts lock-on accessory hot-shoe mount for cordless and cord-contact flash units.

Standard Battery Pack Attachment Screw

Finger cutouts in oversized attachment screw head permit installing or removing battery pack without tools. Head is coin-slotted for convenience, and centrally threaded to accept tripod mounting screw.

XK Motor Drive



Minolta XD-11

The world's first compact 35mm SLR camera with multi-mode through-the-lens exposure control.

Illumination Window

Light entering this window illuminates finder display indicating manually set shutter speed.

Red Lens Index

To insert lens, match red index marker on lens mount to red index dot on camera, twist clockwise until lens locks.

Lens Release Button

Push button to release lens lock for quick changing.

Meter Coupler

Follows coupling lug on meter-coupled Minolta lenses.

Viewfinder LED Display Coupler

Secondary lug on MD Rokkor-X and MD Celtic lenses engages the coupler when lens is at minimum aperture to activate LED aperture indicator display during shutter priority operation.

PC Flash Synchronization Terminal

Cord-contact flash units synchronize with the shutter through this terminal.

Oversized Instant-Return Mirror

Extra-large mirror prevents finder image cut-off even with extremely long telephotos or in close-up work. Special damper mechanism minimizes vibration and noise.

Variable-Delay Self-Timer

May be set to release after approximately 10 seconds delay.

Depth-of-Field Preview Button

In normal outer position, permits full-aperture metering and viewing; pushed-in position permits stopped-down metering and previewing depth of field.

Bayonet Lens Mount

Rugged flange assures positive accurate seating of lens on camera body.

Electronic Shutter

Metal-blade Seiko shutter (not shown) has stepless automatic speeds from 1 to 1/1000th second, manually set stepped speeds from 1 to 1/1000th second, plus "B," "X" (1/100th second) and "O" (1/100th second). The "B" and "O" settings are mechanically governed to provide a fail-safe against battery failure. (The Auto Winder D also operates in single frame with the camera on the mechanical settings.)

Safe-Load Signal

Indicates that film is loaded and advancing properly through camera.

Film Rewind

Unfold crank to rewind film, pull up on knob to open camera back.

Eyepiece-Shutter Control

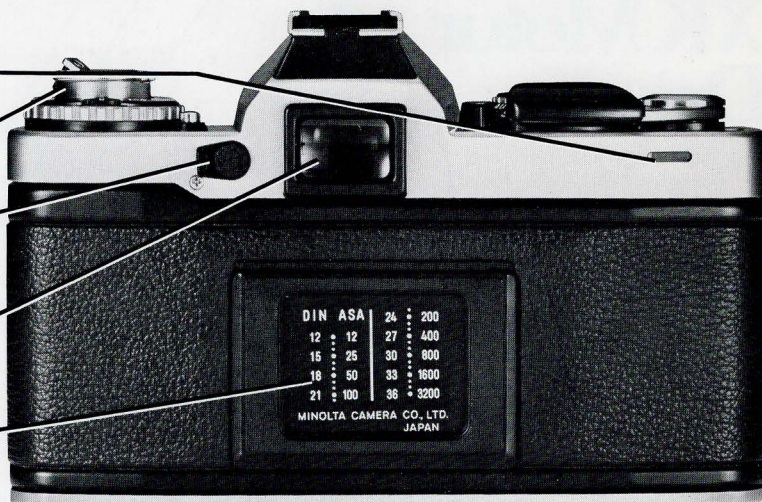
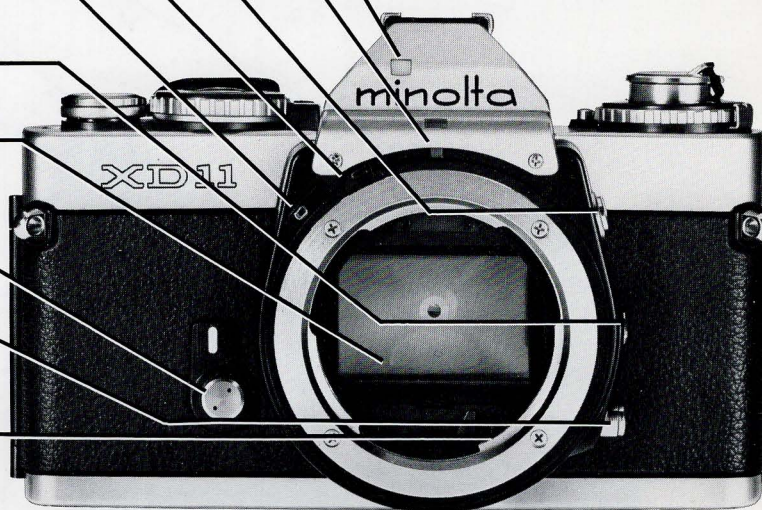
Turning control closes internal eyepiece blind to prevent stray light from entering and affecting auto-exposure when photographer is not viewing subject through finder.

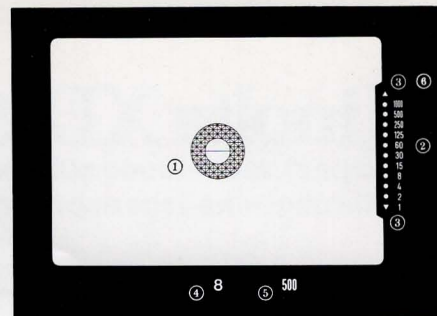
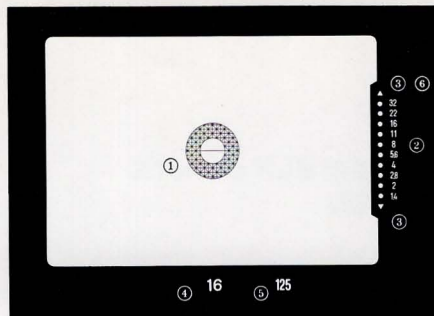
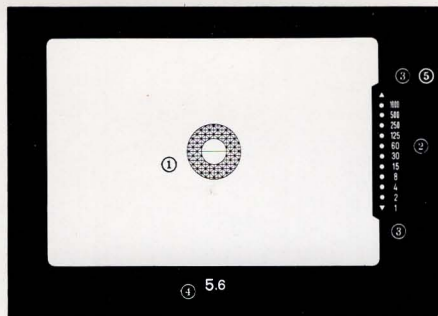
Finder Eyepiece

Oversized eyepiece for easy viewing even with eyeglasses. Slotted to accept correction eyepieces, anglefinder, magnifier.

Memo Holder

Frame holds end of film box as film-type reminder. Table converts DIN film speeds to ASA ratings.





Viewfinder Mode Readout

Aperture-priority mode:

1. Split/micro spot
2. Shutter speed scale
3. Over/under range indication
4. Pre-selected aperture
5. LED flash-ready signal

Shutter-priority mode:

1. Split/micro spot
2. Aperture Scale
3. Over/under range indication
4. Pre-set minimum aperture (in green)
5. Pre-selected shutter speed
6. LED flash-ready signal

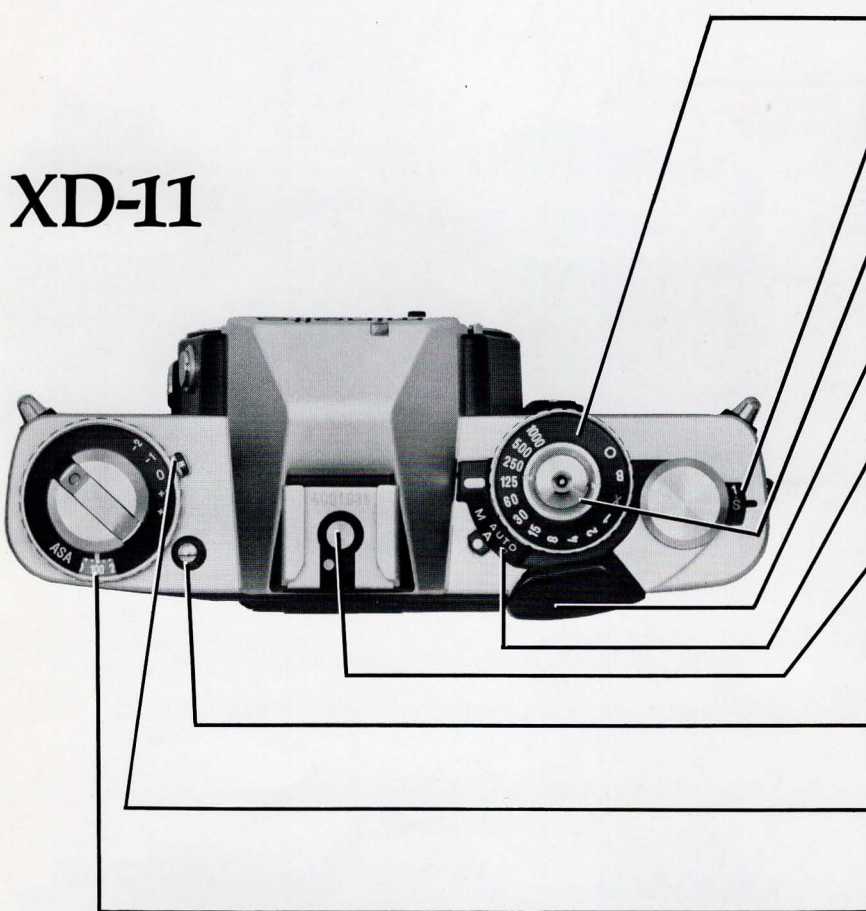
Manual mode:

1. Split/micro spot
2. Shutter speed scale
3. Over/under range indication
4. Pre-set aperture
5. Pre-set shutter speed
6. LED flash-ready signal

Split-Image Rangefinder with Microprism Collar and Surrounding Acute Matte Field

Extremely bright Acute Matte Focusing Screen permits fast, precise focusing and composing in all photographic situations. Three alternate Acute Matte screen patterns are also available for the XD-11. See page D4 for additional information.

XD-11



Shutter Speed Dial

Easily read markings for speeds from 1 to 1/1000th second, plus "B" and "O" (1/100th second). "X" synch at 1/100th (engraved in red) for electronic flash.

Exposure Counter

Additive type, resets automatically when camera back is opened. Counter does not advance with multiple exposures.

Shutter Release

Electromagnetic release provides gentle, shake-free exposure. Partial depression activates meter and LED readout. Threaded for cable release and remote cords.

Film Advance Lever

Comfortably contoured single-stroke lever has 30° standoff from camera body for quick access, silk-smooth 130° winding stroke.

Exposure Mode Control

Three position lever provides quick selection of aperture or shutter priority automation, or manual metering.

Flash Hot Shoe

Accepts standard shoe mount electronic flash units. Cordless synchronization with hot-shoe units. PC-cord synch with others. Flash automatically switches camera shutter to "X" synch at 1/100 second when dedicated companion Minolta flash units (designated "X") are attached and fully recycled. (See pages D14, D17, D18, D19 for additional information).

ASA Lock Release

Button must be depressed to unlock ASA setting scale, preventing accidental movement.

Auto-Exposure Override Control

Allows manual biasing of automatic exposure up to ± 2 EV in click stops or continuously. Locks at click stops and in normal position.

ASA Setting Scale

Film speed range ASA 12 to ASA 3200 in 1/3-stop increments.

Electrical Socket

Engages with prong from Auto Winder D.

Tripod Socket

Sturdy socket, positioned on lens axis, accepts standard tripod mounting screw.

Battery Chamber

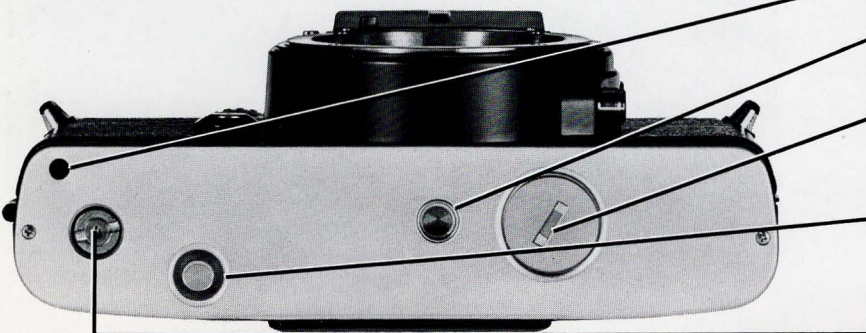
Contains two 1.5 volt silver-oxide cells (S-76 or equivalent) that power exposure system and electronically governed shutter.

Film-Release Button

Pressing button releases film-transport system, freeing film for rewinding into cartridge. Button remains in while film is being rewound. Depressing button also allows for intentional multiple exposure.

Film Advance Coupler

Connects to Auto Winder D for motorized film advance. (See page D-6 for additional information.)



Size without lens: 2 x 3 3/8 x 5 3/8 inches (51 x 86 x 136mm).

Weight without lens and batteries: 19 1/4 ounces (560 grams).

Power source: Two 1.5V silver oxide (S-76 or equivalent).

Minolta XD-5

A compact, multi-mode automatic 35mm SLR camera with through-the-lens exposure control.

Red Lens Index

To insert lens, match raised red index dot on lens mount to red index mark on camera, twist clockwise until lens locks.

Lens Release Button

Push button to release lock for removing interchangeable lenses.

Meter Coupler

Follows coupling lug on meter-coupled Minolta lenses.

Viewfinder LED Display Coupler

Secondary lug on MD Rokkor-X and MD Celtic lenses engages the coupler when lens is set at minimum aperture to activate LED aperture display during shutter-priority automatic operation.

PC Flash Synchronization Terminal

Cord-contact flash units synchronize with the shutter through this terminal.

Oversized Instant-Return Mirror

Extra-large reflex mirror prevents finder image cut-off with long telephoto lenses or during close-up photography. Special damper mechanism minimizes noise and vibration.

Variable-Delay Self-Timer

Mechanical timer, releases shutter after approximately 10 seconds delay.

Depth-of-Field Preview Button

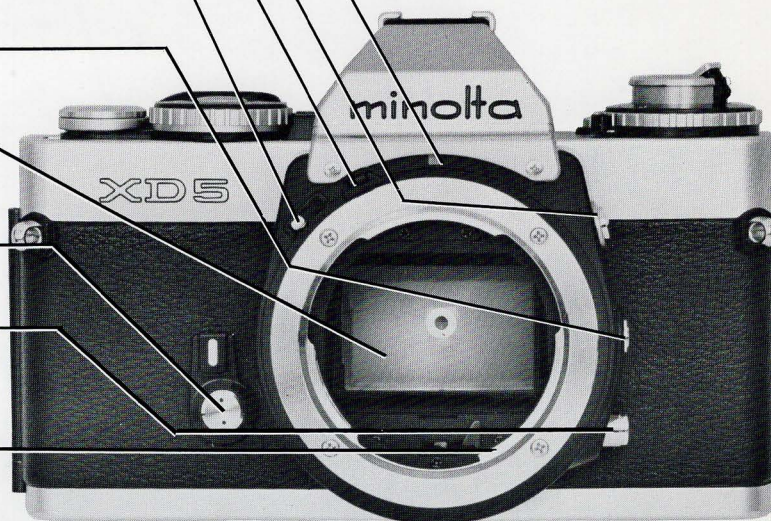
Spring-loaded button permits full-aperture metering and viewing in normal outer position; pushed in position permits depth-of-field preview and stopped-down metering.

Bayonet Lens Mount

Rugged flange assures lasting, precision mounting of lens on camera body.

Electronic Shutter

Metal-blade Seiko shutter (not shown) has stepless automatic speeds from 1 to 1/1000 second; manually set stepped speeds from 1 to 1/1000 second, plus "B", "X" (1/100 second) and "O" (1/100 second). The "B" and "O" settings are mechanically governed and operate even when the camera batteries are dead. (The Auto Winder D also operates in single frame with the camera on the "B" and "O" settings.)



Film Rewind

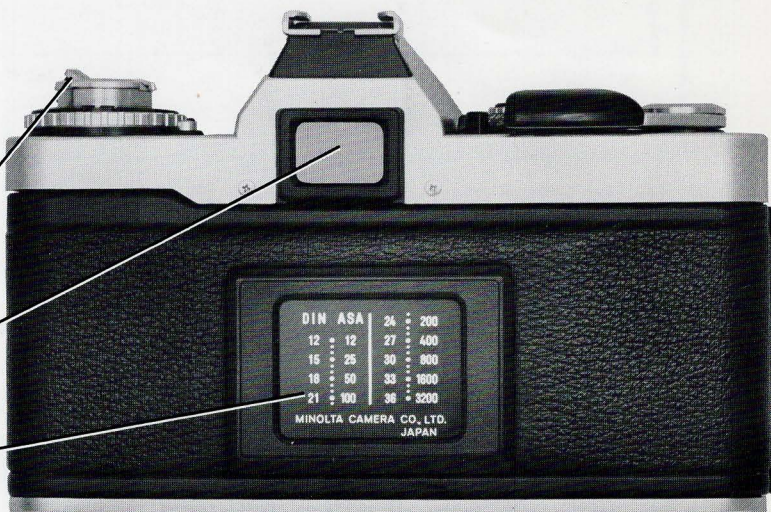
Unfold crank to rewind film, pull up knob to open camera back.

Finder Eyepiece

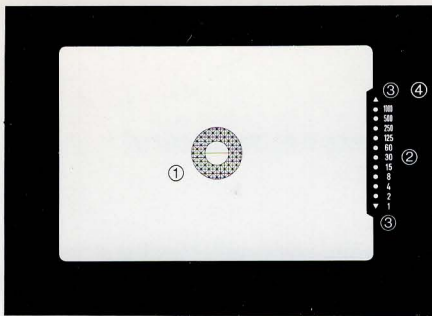
Oversized eyepiece for easy viewing even with eyeglasses. Accepts eyepiece correction lenses, anglefinder, magnifier, rubber eyepiece hood or finder eyepiece cap.

Memo Holder

Frame holds end of film box as film-type reminder. Table converts DIN film speeds to ASA ratings.

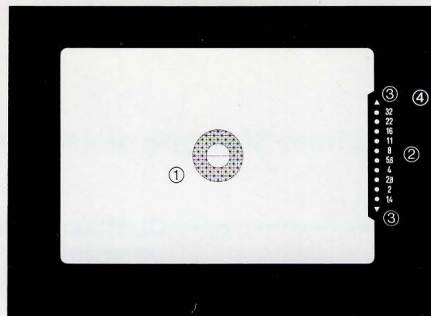


NOTE: Specifications subject to change without notice.
See page L1 for additional information.



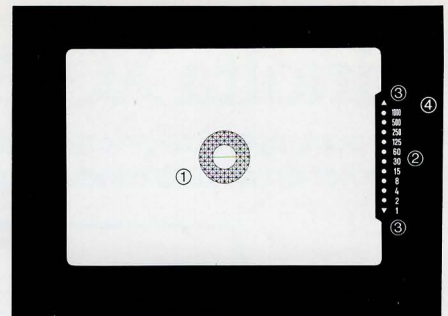
Aperture-priority mode:

1. Split/micro spot
2. Shutter speed scale
3. Over/under range indication
4. LED flash-ready signal



Shutter-priority mode:

1. Split/micro spot
2. Aperture Scale
3. Over/under range indication
4. LED flash-ready signal



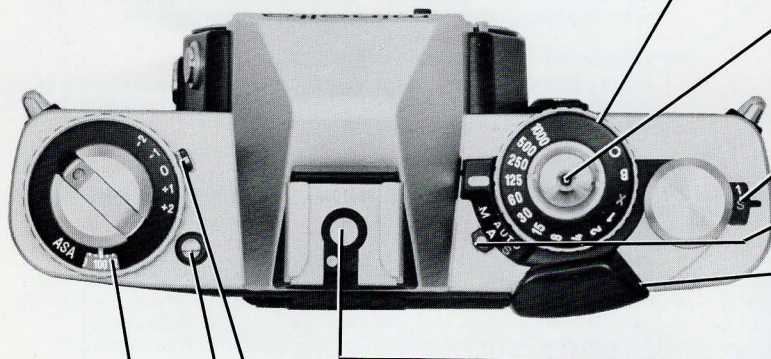
Manual mode:

1. Split/micro spot
2. Shutter speed scale
3. Over/under range indication
4. LED flash-ready signal

Split-Image Rangefinder with Microprism Collar and Surrounding Acute Matte Field

Extremely bright Acute Matte Focusing Screen permits fast, precise focusing and composing in all photographic situations. Three alternate Acute Matte screen patterns are also available for the XD-5. See page D4 for additional information.

XD-5



Shutter Speed Dial

Highly visible markings for speeds from 1 to 1/1000 second, plus "B" and "O" (1/100 second). "X" synch at 1/100 (engraved in red) for electronic flash.

Shutter Release

"Soft-touch," electromagnetic release provides gentle, vibration-free exposure. Partial depression activates metering system and LED readouts. Threaded for mechanical cable release or electrical remote cords.

Exposure Counter

Additive type, resets automatically when camera back is opened. Counter does not advance with multiple exposures.

Exposure Mode Control

Conveniently-placed, three-position lever allows quick selection of aperture or shutter priority automation as well as metered manual.

Film Advance Lever

Comfortable, plastic-tipped, single-stroke lever has 30° standoff from camera body for quick access, smooth 130° winding stroke.

Flash Hot Shoe

Accepts standard shoe mount electronic flash units. Cordless synchronization with hot-shoe units. PC-cord synch with others. Flash automatically switches camera shutter to "X" synch at 1/100 second when dedicated companion Minolta flash units (designated "X") are attached and fully recycled. (See pages D14, D17, D18, D19 for additional information).

Auto-Exposure Override Control

Permits manual biasing of automatic exposure up to ± 2 EV in click stops or continuously. Locks at click stops and in normal position.

ASA Lock Release

To prevent accidental movement, button must be depressed to unlock ASA setting scale.

ASA Setting Scale

Film speed range ASA 12 to ASA 3200 in $\frac{1}{3}$ -stop increments.

Electrical Socket

Engages with prong from Auto Winder D.

Tripod Socket

Sturdy socket, positioned on lens axis, accepts standard tripod mounting screw.

Battery Chamber

Accepts two 1.5 volt silver-oxide cells (S-76 or equivalent) that power exposure system and electronically governed shutter.

Film-Release Button

Pressing button releases film-transport system, freeing film for rewinding into cartridge. Button remains in while film is being rewound.

Film-Advance Coupler

Connects to Auto Winder D for motorized film advance. (See page D-6 for additional information.)

Size without lens: 2 x $3\frac{3}{8}$ x $5\frac{5}{8}$ inches (51 x 87 x 136.5mm).

Weight without lens and batteries: 18½ ounces (525g).

Power source: Two 1.5V silver oxide (S-76 or equivalent).

Minolta XG-M

A compact, aperture-priority automatic 35mm SLR with metered-manual exposure control and motor drive/auto winder capability.



Contoured Hand Grip

Convenient, waffled grip for secure, comfortable handling of the XG-M.

Self-Timer/Battery Check LED Signal

Large red LED signal pulsates with increasing frequency during the 10-second self-timer operation cycle. Glows steadily when shutter-speed lock release is depressed for battery check.

Red Lens Index

To mount lens, match red index dot on lens mount to red index mark on camera, twist clockwise until lens locks.

Lens Release Button

Push button to release lens lock for quick changing.

Meter Coupler

Follows coupling lug on meter-coupled Minolta lenses.

Remote Control Socket

Threaded for use with accessory mechanical cable releases or electrical remote control cords for vibration-free triggering of the XG-M.

Oversized Instant-Return Mirror

Extra-large, quick-return mirror prevents finder image cutoff, even with long telephoto lenses or during critical close-up work.

Depth-of-Field Preview Button

Spring-loaded button permits full-aperture metering and viewing in normal outer position; pushed in position provides depth-of-field preview and stopped-down metering.

Bayonet Lens Mount

Rugged flange assures positive seating of lens on the camera body.

Flash Hot Shoe

Accepts standard shoe-mount electronic flash units. Cordless synchronization with hot-shoe units. PC-cord synchron with others via PC terminal. Flash automatically switches camera shutter to X-synch at 1/60 second when dedicated Minolta Auto Electroflash units (designated "X") are attached and fully recycled. (See pages D14, D17, D18, D19 for additional information.)

Film Advance Lever

Comfortably contoured lever advances film with a smooth, single 130° stroke. Has 30° standoff from camera body for quick access.

Finder Eyepiece

Oversized eyepiece for easy viewing even with eyeglasses. Accepts eyepiece correction lenses, anglefinder, magnifier, rubber eyepiece hood or finder eyepiece cap.

Memo Holder

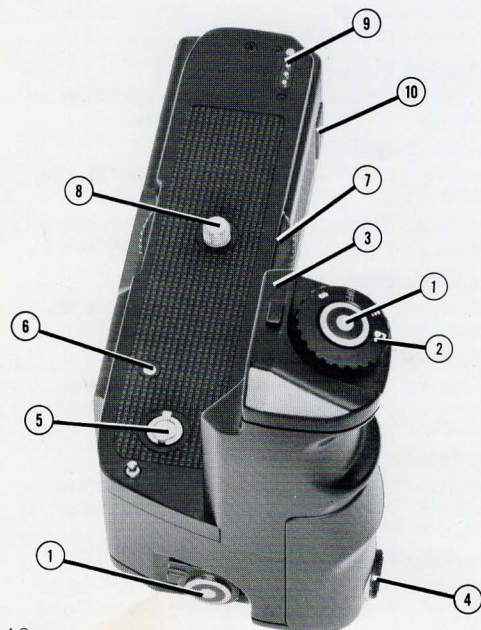
Frame holds film box tab as film-type reminder. ASA-DIN conversion chart. Detachable back cover interchanges with accessory Data Back G.

Electronic Shutter

Horizontal-traverse, focal-plane shutter (not shown) with electromagnetic release. Stepless automatic speeds from 1 to 1/1000 second, manually set stepped speeds from 1 to 1/1000 second, plus B; X-synch at 1/60 second. Shutter action is smooth and quiet. In automatic mode, shutter release locks to prevent overexposure when speed required for proper exposure exceeds 1/1000 second.

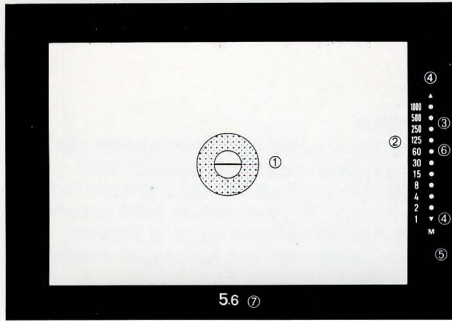
Motor Drive 1

- | | |
|------------------------------------|-------------------------------|
| 1. Electromagnetic Shutter Release | 6. Rewind Pin |
| 2. Frame-Rate Setting Dial | 7. Mounting Screw Drive Wheel |
| 3. Setting Dial Release Lock | 8. Mounting Screw |
| 4. Remote Control Socket | 9. Electrical Contact Pins |
| 5. Film Advance Coupler | 10. Battery Chamber Release |



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See page L1 for additional information.

Minolta XG-M



Split-Image Range-finder with Microprism Collar and Surrounding Acute Matte Field

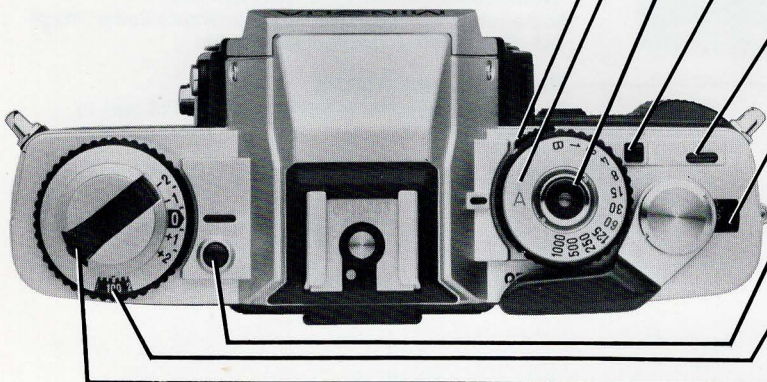
Extremely bright Acute Matte Focusing Screen provides exceptional corner-to-corner brightness for fast, accurate focusing and composing with all lenses.

Shutter Speed Scale

LED indicators display the stepless shutter speed being set in the automatic exposure mode. Triangular LED's serve as under/overexposure warning signals. The 1/60 second LED indicator also serves as a flash-ready signal by blinking when dedicated "X-series" Minolta Auto Electroflash units used with the XG-M are fully recycled. Manual LED ("M") indicator appears in the viewfinder when camera is set at stepped manual shutter speeds.

Viewfinder Readout

1. Split/micro focusing spot.
2. Shutter speed scale.
3. LED shutter speed indicator shows the shutter speed being selected by the automatic exposure system.
4. LED over/under range indicators.
5. LED metered-manual indicator.
6. LED flash-ready signal at 1/60 second position.
7. Pre-selected aperture.



On/Off Switch

Convenient control turns camera on or off.

Shutter Speed Dial

"A" sets camera on automatic mode and locks to prevent accidental changing. When shutter speed lock release is depressed, dial can be moved to stepped speeds from 1 to 1/1000 second, plus B.

Electromagnetic Shutter Release

Provides vibrationless operation. The release features an electrical sensor switch that activates the viewfinder LED shutter speed display at the touch of a finger. Slight pressure on the release also activates metering system when wearing gloves. Further pressure triggers shutter. Release locks to prevent overexposure when the auto-exposure system requires a shutter speed faster than 1/1000 second.

Shutter Speed Dial Lock Release/Battery Check

Press button to move shutter speed dial off "A" (automatic-exposure mode) position to set shutter speeds manually. Simultaneously, the LED signal on the front of the camera glows steadily for battery check.

Safe-Load Signal

A moving red bar indicates that the film is loaded and advancing properly.

Exposure Counter

Additive type, resets automatically when camera back is opened.

Auto Exposure Override Control

Permits manual biasing of automatic exposure up to ± 2 EV in full or half click stop increments. Locks in normal position.

ASA Setting Scale

Pull outer ring up to set film speeds from ASA 25 to ASA 1600.

Film Rewind

Unfold crank and turn clockwise to rewind film, pull up knob to open camera back.

PC Flash Synchronization Terminal

Cord-contact flash units synchronize with the shutter through this terminal.

Film Advance Coupler

Connects to Motor Drive 1 or Auto Winder G for motorized film advance. (See page D6 for additional information.)

Film Release Button

Pressing button releases film-transport system, freeing film for rewinding. Button remains in while film is being rewound.

Tripod Socket

Sturdy socket, positioned on lens axis, accepts standard tripod mounting screw.

Motor Drive Electrical Contact/Socket

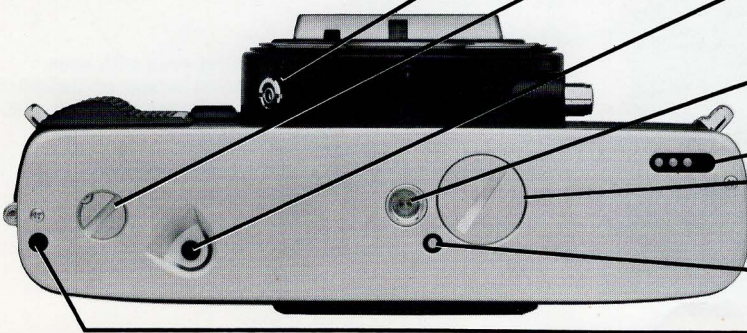
Battery Chamber

Accepts two 1.5 volt silver-oxide cells (S-76 or equivalent) that power exposure system and electronically governed shutter.

Winder Electrical Contact

Motor Drive/Winder-Pin Socket

Engages with guide pin from Motor Drive 1 or Auto Winder G.



Size Without Lens:
2 1/16 x 3 9/16 x 5 7/16 inches
(52 x 89.5 x 138mm)

Weight Without Lens and Batteries:
18 3/8 ounces (520g)

Power Source:
Two 1.5 volt silver-oxide batteries
(S-76 or equivalent)

Minolta XG-1

An economical, compact 35mm SLR with aperture-priority automatic exposure and manual control.



Electronic Shutter

Horizontal-traverse, focal-plane (not shown) with electromagnetic release. Stepless automatic speeds from 1 second to 1/1000, manually set stepped speeds from 1 second to 1/1000, plus "B"; X-synch at 1/60 second. In automatic mode, shutter release locks to prevent overexposure when speed required for proper exposure exceeds 1/1000 second.

Self-Timer/Battery Check LED Signal

Large red LED signal pulsates with increasing frequency during the 10-second self-timer operation cycle. Glows steadily when operating selector is set to "B.C." for battery check.

Red Lens Index

To mount lens, match red index dot on lens mount to red index mark on camera, twist clockwise until lens locks.

Lens Release Button

Push button to release lens lock for quick changing.

Meter Coupler

Follows coupling lug on meter-coupled Minolta lenses.

Remote Control Socket

Threaded for use with mechanical cable releases or optional electrical remote control cords for vibration-free triggering of the XG-1.

Oversized Instant-Return Mirror

Extra-large, quick-return mirror prevents finder image cut-off in all photographic situations.

Bayonet Lens Mount

Rugged flange assures positive seating of lens to camera body.

Flash Hot Shoe

Accepts standard shoe mount electronic flash units. Cordless synchronization with hot-shoe units. PC-cord synch with others via PC terminal. Flash automatically switches camera shutter to flash synch at 1/60 second when dedicated companion Minolta flash units (designated "X") are attached and fully recycled. (See pages D14, D17, D18, D19 for additional information).

Film Advance Lever

Comfortably contoured lever advances film with a smooth, single 130° stroke. Has 30° standoff from camera body for quick access.

Finder Eyepiece

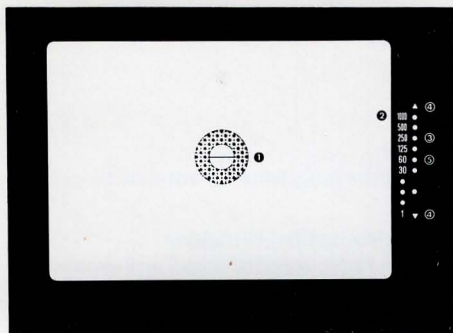
Oversized eyepiece for easy viewing even with eyeglasses. Accepts eyepiece correction lenses, anglefinder, magnifier, rubber eyepiece hood or finder eyepiece cap.

Film-Speed Conversion Table

Table converts DIN film speeds to ASA ratings.



Minolta XG-1



Split-Image Range-finder with Microprism Collar and Surrounding Fresnel Field

Provides corner-to-corner brightness for fast, accurate focusing and composing with all lenses.

Viewfinder Readout

1. Split/micro focusing spot.
2. Shutter speed scale.
3. LED shutter speed indicator shows the shutter speed being selected by the automatic exposure system.
4. LED over/under-range indicators.
5. LED flash-ready signal at 1/60 sec. position.

Shutter Speed Scale

LED indicators display the stepless shutter speed being set in the automatic exposure mode. Triangular LED's serve as under/over exposure warning signals. The 1/60 second LED indicator also serves as a flash-ready signal by blinking when dedicated companion Minolta flash units used with the XG-1 are fully recycled.

Shutter Speed/Function Dial

"A" sets camera on automatic mode and locks to prevent accidental movement. When function lock release is depressed, the "A" can be moved to provide auto-exposure override up to ± 2 EV using the adjacent scale; or turning further clockwise for stepped speeds from 1 to 1/1000 second, plus "B". Pull outer ring up to set film speeds from ASA 25 to ASA 1600.

Function Lock Release

Press button to move shutter speed dial off "A" (automatic-exposure mode) setting for override control or manually selected shutter speed.

Safe-Load Signal

A moving red bar indicates that the film is loaded and is advancing properly.

Exposure Counter

Additive type, resets automatically when camera back is opened.

Electromagnetic Shutter Release

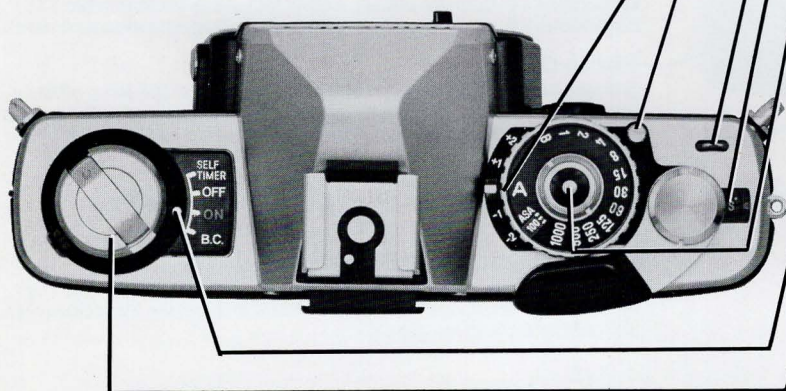
Provides vibrationless operation. The release features an electrical sensor switch that activates the viewfinder LED shutter speed display in the auto-exposure mode with the touch of a finger. Slight pressure on the release activates metering system if user has gloves on. Further pressure activates shutter. Release locks to prevent over-exposure when the auto-exposure system requires a shutter speed faster than 1/1000 second.

Operating Selector

A four-position control switch for convenient selection of a ten-second delay electronic self-timer (triggered by shutter release), on or off power settings and a self-resetting battery-check position.

Film Rewind

Unfold crank to rewind film, pull up on knob to open camera back.



Film Advance Coupler

Connects to Auto Winder G for motorized film advance. (See page D-6 for additional information.)

PC Flash Synchronization Terminal

Cord-contact flash units synchronize with the shutter through this terminal.

Film Release Button

Pressing button releases film-transport system, freeing film for rewinding. Button remains in while film is being rewound.

Tripod Socket

Sturdy socket, positioned on lens axis, accepts standard tripod mounting screw.

Battery Chamber

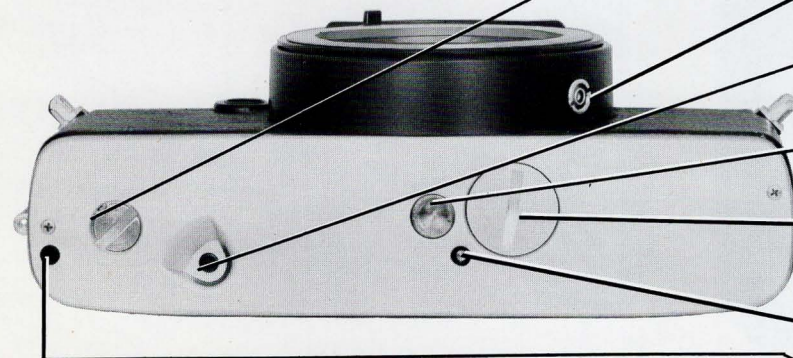
Accepts two 1.5 volt silver-oxide cells (S-76 or equivalent) that power exposure system and electronically governed shutter.

Electrical Contact

Triggers film advancing circuit in Auto Winder G.

Winder-Pin Socket

Engages with guide pin from Auto Winder G.



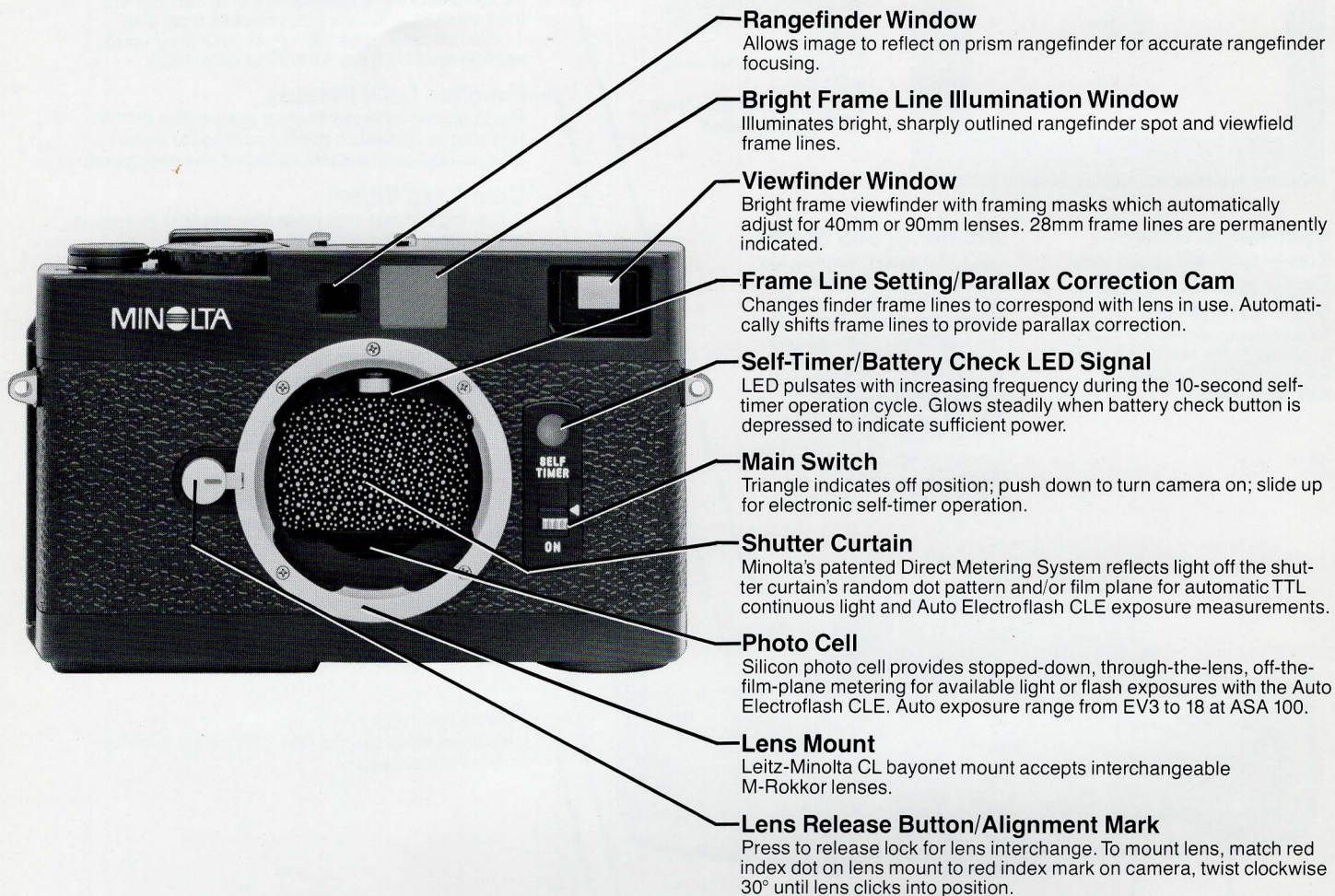
Size without lens: 2 x 3 $\frac{3}{8}$ x 5 $\frac{1}{2}$ inches (52 x 88 x 138mm).

Weight without lens and batteries: 17 $\frac{3}{4}$ ounces (490g).

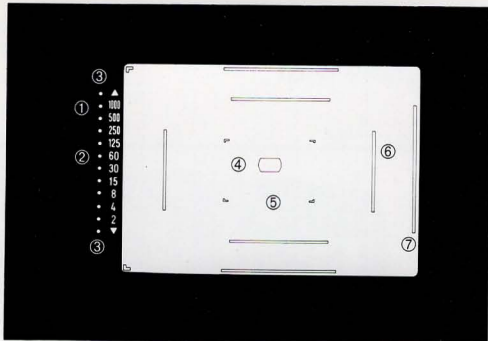
Power source: Two 1.5V silver oxide (S-76 or equivalent).

Minolta CLE

World's first compact 35mm rangefinder camera system with interchangeable lenses and aperture-priority automatic exposure control.



Minolta CLE



CLE Viewfinder Information

1. LED shutter speed indicators.
2. LED flash-ready signal at 1/60 sec. position.
3. LED over/underexposure range warning lights.
4. Superimposed focusing spot.
5. Viewfinder frame lines for 90mm lens automatically appear when lens is mounted.
6. Viewfinder frame lines for 40mm lens automatically appear when lens is mounted.
7. Viewfinder frame lines for 28mm lens.

Flash Hot Shoe

Accepts standard shoe-mount electronic flash units. Cordless synchronization with hot-shoe units. Minolta Auto Electro-flash CLE automatically switches camera shutter to X-synch (1/60 sec.) when shutter speed drops to 1/60 sec. or slower. See page A14 for additional information.

Shutter Speed/Function Dial

"A" sets camera on automatic mode and locks to prevent accidental changing. When function lock release is depressed, the "A" can be moved to provide auto-exposure override up to ± 2 EV using the adjacent scale; turn further to set stepped speeds from 1 to 1/1000 second, plus B. Pull outer ring up to set film speeds from ASA 25 to ASA 1600.

Function Lock Release

Press button to move shutter speed dial off "A" (automatic-exposure mode) setting for override control or manually selected shutter speed.

Electromagnetic Shutter Release

Provides vibrationless operation. The release features an electrical sensor switch that activates the viewfinder LED shutter speed display in the auto-exposure mode with the touch of a finger. Slight pressure on the release also activates metering system if proper contact is hindered by wearing gloves. Further pressure triggers shutter. Release locks at low voltage.

Exposure Counter

Additive type, resets automatically when camera back is opened.

Film-Advance Lever

Advances film with a smooth, single 130° stroke. Has 30° standoff from camera body for quick access.

Film Rewind Crank

Crank unfolds to rewind exposed film. Lift and turn to open camera back for loading.

Battery Check Button

Push to monitor battery condition. LED on front of camera lights to indicate sufficient power.

Film Release Button

Push in to disengage film-transport mechanism for rewinding film. Button remains in while film is being rewound.

Tripod Socket

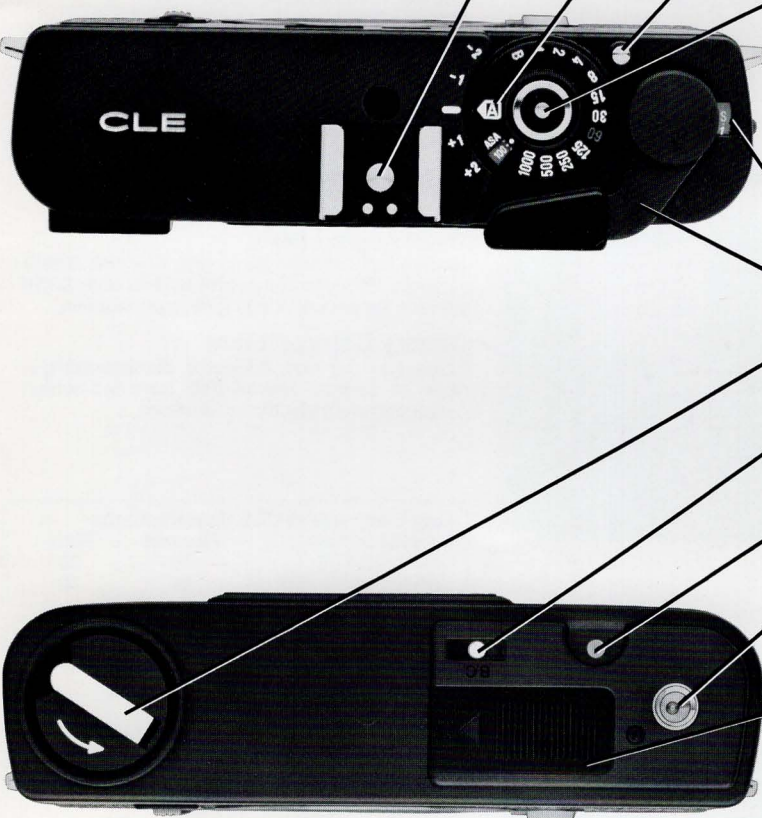
Sturdy socket, positioned on lens axis, accepts standard tripod mounting screw.

Battery Chamber

Holds two 1.5 volt silver-oxide or alkaline-manganese batteries which power all camera functions.

Remote Release Socket

Accepts both mechanical and electronic cable releases. (Not shown.)



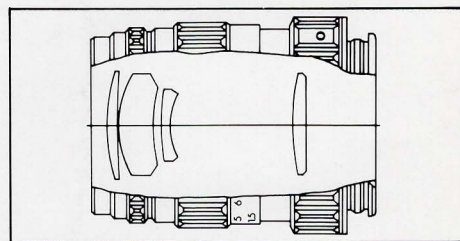
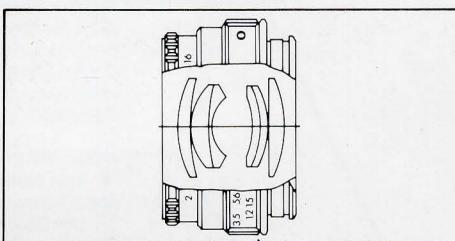
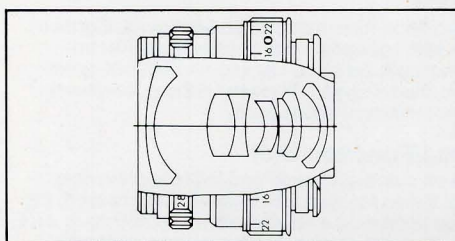
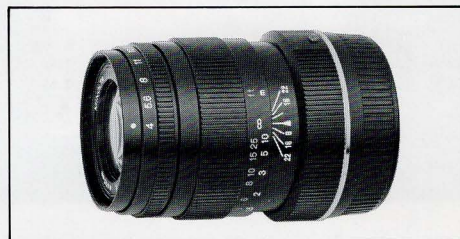
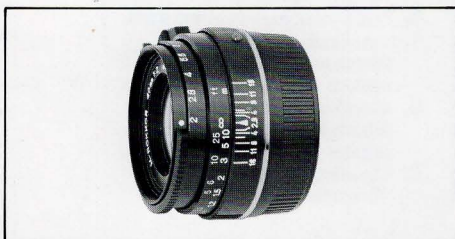
Size:
4 $\frac{7}{8}$ x 3 $\frac{1}{32}$ x 1 $\frac{5}{16}$ in.
(124.5 x 77.5 x 32mm)

Weight:
13 $\frac{7}{8}$ oz.
(375g) without batteries

Minolta CLE System Accessories

M-Rokkor Lenses

Newly designed, interchangeable wide angle, normal and telephoto lenses with bayonet mount for use with the Minolta CLE.



28mm f/2.8 M-Rokkor

Aperture Scale: f/2.8-22
Diaphragm: Manual
Construction: 7 elements in 5 groups
Angle of View: 75°
Minimum Focus: 2 ft. 7 in.
Filter Thread Diameter: 40.5mm
Coating: Minolta Achromatic
Size: 2 x 1¹³/₃₂ in.
Weight: 4³/₄ oz.

40mm f/2 M-Rokkor

Aperture Scale: f/2-16
Diaphragm: Manual
Construction: 6 elements in 4 groups
Angle of View: 57°
Minimum Focus: 2 ft. 7 in.
Filter Thread Diameter: 40.5mm
Coating: Minolta Achromatic
Size: 2 x 1 in.
Weight: 3¹¹/₁₆ oz.

90mm f/4 M-Rokkor

Aperture Scale: f/4-22
Diaphragm: Manual
Construction: 4 elements in 4 groups
Angle of View: 27°
Minimum Focus: 3 ft. 3 in.
Filter Thread Diameter: 40.5mm
Coating: Minolta Achromatic
Size: 2 x 2⁹/₁₆ in.
Weight: 8¹³/₁₆ oz.

Minolta Auto Electroflash CLE

Fully dedicated unit for through-the-lens auto-flash exposures via Minolta's patented Direct Metering System.

Hot Shoe Mount

Clips onto camera hot shoe for cordless flash synchronization. Camera control provision automatically switches to X-synch speed (1/60 sec.). Flash fires only when CLE's auto shutter speed is 1/60 sec. or slower.

ASA Film Speed Indicator

Slide for setting ASA from 25 to 400. Adjusts green distance scale indicators for film in use.

Distance Scale

Green scales indicate auto-exposure range in feet and meters for each aperture setting.

Normal/Wide Angle Diffuser

LED Indicators

Lights to show if flash diffuser is in place and indicates appropriate f/stop reference scale.

Flash Ready/Open Flash Button

Lights when unit is charged. Allows flash to be fired without exposing film.

On/Off Switch

Convenient control for on/off power settings. Power is switched off automatically when unit is removed from hot shoe.

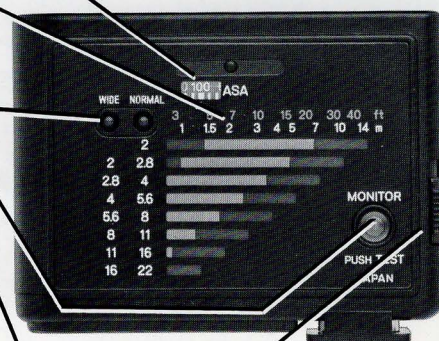


Wide Angle Flash

Covers field of view for lenses down to 40mm normally, down to 28mm with built-in wide angle diffuser. Balanced for daylight-type color film.

Battery Compartment

Holds two 1.5 volt AAA-size alkaline-manganese or sealed carbon-zinc batteries which power camera's electronic functions.



Auto Electroflash CLE Specifications

Guide Number:	Normal	Wide
Feet, ASA 25	46	33
Meters, ASA 100	14	10

Flash Duration:

1/40,000 to 1/3000 sec. in auto operation,
1/3000 sec. in manual operation.

Color Temperature:

Balanced for daylight-type color film

Auto Exposure Range:

Distance varies with aperture set and/or CLE's auto exposure override. See back of unit illustration for actual range at ASA 100.

Number of Flashes/Recycling Time:

C-Zn: 40/4
AM: 80/7

Size:

3 x 2⁵/₁₆ x 1¹/₈ in.
(77 x 58 x 29mm)

Weight:

3³/₈ oz. (95g) without batteries