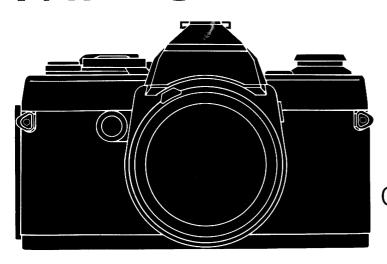
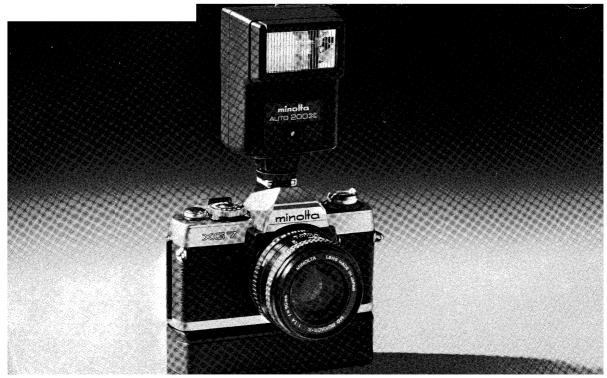
MINOLTA XG-7



OWNER'S MANUAL





Your light, compact XG-7 is a top-quality single-lens reflex camera whose electronic system will control exposure for you automatically, freeing you for more enjoyment and greater creativity. You can also override the meter's automatic setting or set the camera for full manual operation. Electromagnetic shutter release and unique "Touch switch" metering, head a host of other features. Attaching the accessory Auto Winder G enables single-frame/continuous motor film advance up to 2 frames/sec. Minolta's special Auto Electroflash 200X electronically switches the XG-7's shutter over for strobe exposures when charged and signals flash-ready in the finder; it also enables continuous-sequence flash with the winder. Besides new MD lenses, your XG-7 uses virtually all interchangeable Rokkor-X and Celtic lenses made to date and all applicable Minolta SLR system accessories.

Before using your camera for the first time, study this manual carefully all the way through — or at least all the sections needed to cover your own photographic needs. As you read, attach a lens to the camera body (see p. 10), load batteries, and handle your XG-7 and acquaint yourself with its parts and features. Then load it with film and proceed to actual picture taking. In this way, you can take good photos and begin to realize the broad potential of your XG-7 right from the start. Be sure to keep this manual for reference later as necessary.

Minolta precision lenses and accessories are manufactured under high quality control standards and are designed to the performance requirements of Minolta camera bodies. We recommend Minolta Rokkor-X and Celtic lenses and Minolta system accessories for all types of photography.

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Fail-safe electronic exposure system

Incorporating many of the features developed for Minolta's top electronic cameras, the XG-7 covers a wide range of photographic conditions. Its electronic shutter which automatically locks to prevent overexposure and electromagnetic shutter release with unique touch switch metering add to the handling ease of the camera.

The XG-7's system features:

- Full automatic exposure by stepless shutter speeds from 1/1000 to 1 sec. plus full manual settings.
- Electromagnetic shutter release.
- Unique Touch switch metering.
- Shutter-release lock prevents overexposure when light over meter's range or battery power low.
- Two tiny silver-oxide batteries as power source.

Solid-state information viewfinder

- Focusing can be done in three ways: By the split-image spot or microprism focusing aid or on the matte field.
- Automatic shutter speeds, indicated by LED's are visible while you view.
- LED at "60" position blinks as flash-ready signal when Auto Electroflash 200X is attached and charged.

Easy handling controls

Lightweight and compact, the XG-7 is human engineered to fit the user's hands for smooth operation:

- Smooth short stroke film advance.
- · Large easy to adjust shutter-speed dial.
- "Soft-touch" electromagnetic shutter release.
- Curve formed body with cushioned body grip.
- Minolta bayonet lens mount with large release button.
- Balanced winder operation.

Quick attach auto winder

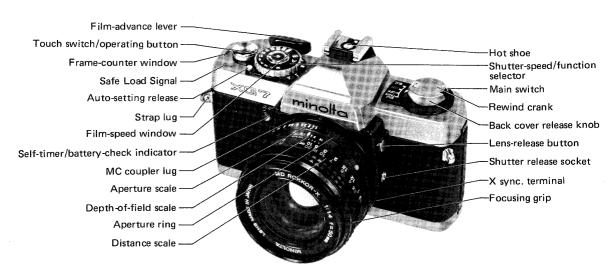
The XG's accessory auto winder attaches quickly, without access caps to remove or store, freeing the user from advancing film in single-frame or continuous operation up to two frames per second. Its strong efficient coreless micromotor winds as many as 150 or more cartridges per set or charge of batteries. At the end of each cartridge the motor automatically shuts off.

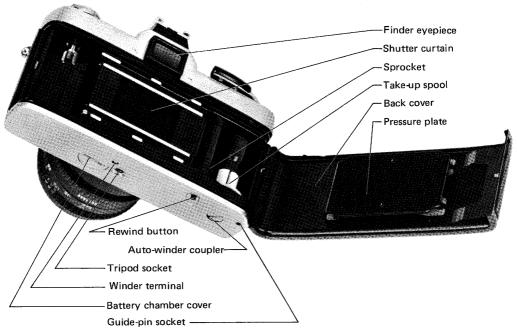
Special camera-control flash

When attached to the XG-7 and ready to fire the Auto Electroflash 200X starts a flash-ready signal blinking in the viewfinder and automatically sets the shutter for X synchronization (1/60 sec.). This four-setting unit provides autoflash at either of two apertures and either full-power manual operation or when powered by Ni-Cd batteries, up to two continuous-sequence flash exposures each second with the Auto Winder G.

User oriented features

- Up to two stops' continuous adjustment over or under the normal electronic setting.
- X-type flash synchronization through the hot shoe or PC terminal.
- Electronic selftimer with blinking indicator light.
- Eyepiece cap for unmanned or similar operation.
- Exclusive Safe Load Signal monitors film alignment and advance.
- Handy memo holder and ASA/DIN conversion scale on back.
- Release terminal for tripod shots with electronic or standard release cord.
- Shutter not operative when operation switch off
- Virtually all existing Minolta interchangeable lenses and applicable system accessories can be used in either automatic or manual operation.



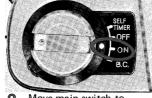


The steps pictured on this page outline use of your XG-7 on automatic mode. They give a general idea of how very easy it is to get

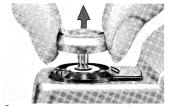
perfectly exposed pictures with this camera and are keyed to corresponding sections of the manual for ready reference. This brief guide



1 Check batteries (see p. 12)



Move main switch to "ON" (p. 13)



3 Open back cover (p. 14)



7 Set selector dial to "A" (p. 24)



8 Set lens aperture (p. 24)



Adjust focus (p. 35)

may also be useful for good results after you have not used the camera for some time. It is not, however, a substiture for the detailed

instructions in the rest of this manual, which should be thoroughly studied for best results.



Load film properly; close cover (p. 14)



5 Advance film to "1" (p. 17)



6 Set film speed (p. 18)



10 Release shutter (p. 38)



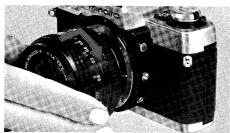
11 Turn power off (p. 13)



12 Rewind and remove film (p. 41)

To Attach

- Remove the body cap from the camera lens mount and the rear cap from the lens bayonet, each by turning the cap counterclockwise.
- Align the red mounting index on the lens barrel with the red index above the camera lens mount; insert the lens bayonet into the mount; and turn the lens clockwise until it locks into place with a click.



To Remove

While pushing the lens-release button, turn the lens counterclockwise as far as it will go; then lift the lens bayonet out of the mount.

CAUTION

If it becomes necessary to set the lens down without a rear lens cap attached, be sure to set the lens only on its front end (except for fisheye lenses) as damage to the diaphragm control pin could result from rear lens contact with a hard surface.



Two 1.5-volt silver-oxide batteries, Eveready S-76 or equivalent, supply the power for the meter, electronic exposure control, electromagnetic release, electronic shutter settings, and LED indication.

CAUTION

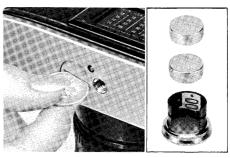
- The shutter will not release when the operating button is pushed if: battery power is too low; the operating switch is at "OFF," exposure conditions exceed the range of the automatic exposure system.
- Do not use 1.3v mercury batteries, Eveready EPX-675 or equivalent, which have a similar shape.

NOTE

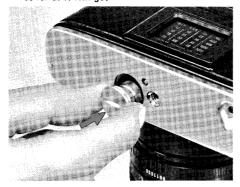
- If the camera is not be used for more than two weeks, it is advisable to remove the batteries.
- Fresh spare batteries may be stored in the battery holder provided with the camera strap.

Installing batteries

- Using a coin or similar object, turn the battery-chamber cover counterclockwise and remove it.
- After wiping terminals with a clean dry cloth and handling only by the edges, insert two of the specified batteries plus (+) side out into the sleeve on the inside of the cover. (If batteries are inserted improperly, they will not make contact, and no current will flow.)



Replace the cover and screw it in clockwise as far as it will go.



Testing batteries

Move the main switch to align the index with "B.C." If the red battery-check indicator on the front of the camera lights, batteries are serviceable. When released, the main switch will automatically move to the "ON" position.

Test batteries immediately after installing them. If the indicator does not light, make sure that they are fresh and have been inserted correctly.

Batteries should be tested from time to time thereafter, preferably before starting each new roll of film and particularly before starting picture-taking sessions or trips. A set of batteries will generally last for about one year in proper normal use.

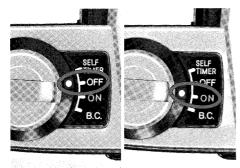




Main switch

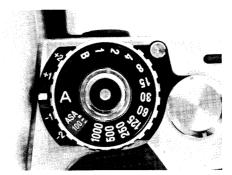
To operate the camera, move the main switch to "ON." This allows current to flow to the Touch switch/operating button. The main switch also serves as the self-timer and battery check switch.

To prevent accidental exposures and needless battery drain, always be sure to move the main switch to "OFF" when not using the camera.



Touch switch/operating button

Finger contact with the Touch switch/operating button activates the camera's electronic shutter and when the shutter-speed/function selector is set at "A" (automatic), powers the electronic exposure control and LED circuits. If proper contact with the touch switch is not possible (i.e., while wearing gloves or when fingers are dry), slight pressure on the button will also activate the camera.



NOTE

Wipe off any dust or dirt that might accumulate on the touch switch with a clean dry cloth. This will insure good contact and proper operation.

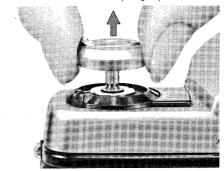
Cold-weather operation

Batteries by nature tend to decrease in capacity as the temperature goes down. Though the silver-oxide batteries used for the XG-7 are superior to most others in this respect, it also happens with them.

If old batteries are used at temperature below 0°C (32°F), the camera's electronic operation may not be satisfactory. You should thus replace older batteries with fresh ones before using your XG-7 in cold weather and carry spare fresh batteries with you during such use. Battery capacity will be restores to its normal level when the batteries are warmed to their recommended operating temperature range.

After you have not used your camera for some time, check the Safe Load Signal and frame counter to be sure that there is no film in the camera. If the camera is unloaded proceed as follows:

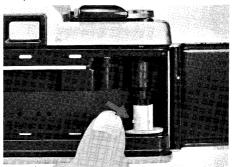
1. Pull out on the back cover release knob until the camera back springs open.



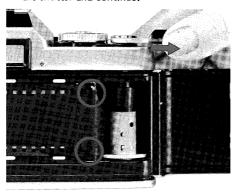
Leaving the knob pulled out, position a film cartridge in the chamber with the projecting-spool end toward the bottom of the camera. Then push the back-cover release knob all the way in, rotating it slightly to do so if necessary.



3. Insert the end of the film leader as shown into one of the slots in the take-up spool so that the tooth is engaged with a sprocket hold near the end of the leader. Make sure that the end of the leader does not project from another slot between tabs on the spool.



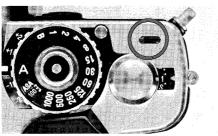
4. Operate the film-advance lever slowly until the film has begun to wind firmly around the take-up spool and the sprocket teeth are engaged with holes on both edges of the film. If the advance lever stops at the end of a full stroke during this procedure, release the shutter and continue.



- Close the camera back and push in on it until it clicks loaded.
- A red "S" should now appear opposite the index in the frame-counter window. Advance film and release the shutter until the index points to "1" on the frame-counter dial.



7. A red bar should also now appear at the extreme left in the Safe Load Signal window. This indicates that the film is loaded and winding properly on the take-up spool. If the Safe Load Signal does not appear or swings far to the right in the window, repeat steps 1 through 6 to assure that film is properly engaged on the spool. As you continue to take pictures, the red signal will move gradually toward the right in the window, indicating that film is advancing properly.

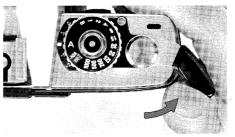


CAUTION

Film should be handled and loading done in subdued light — at least shaded from direct sunlight by the body.

Film-advance lever and frame counter

The film-advance lever is designed with 30° unengaged movement before the beginning of its engaged stroke to allow siwnging it out from the body so that the right thumb will fit comfortably behind it. Continuing to move the lever through its engaged angle of 130°, advances film and frame counter and cocks the shutter for the next exposure.



When the lever stops and resists further movement at the end of a film, never attempt to force it farther. (See p. 41 for instructions on rewinding and unloading film.)

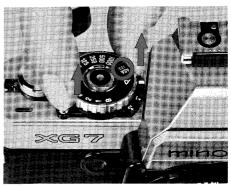
The counter automatically resets for film loading when the camera back is opened.



Each film on the market has an ASA or DIN exposure-index number to indicate its sensitivity to light. For correct exposure, the meter must be set for the effective exposure index of the film in use.

Setting film speed

To do this, lift up on the knurled ring of the shutter-speed/function selector and turn it until



the proper ASA indication appears centered in the film-speed window and locks in that position when the ring is released. Marks between numbered graduations indicate ASA numbers as follows:

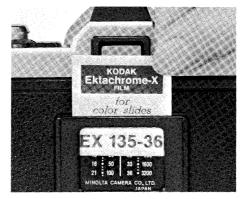
25	200 ● 250		
• 32			
• 40	• 320		
50	400		
• 64	• 500		
• 80	• 640		
100	800		
125	• 1000		
• 160	• 1250		
	1600		

ASA/DIN conversion scale

A convenient scale for converting DIN to ASA film-speed ratings is located on the back cover of the camera.

Memo holder

Around the ASA/DIN conversion table is a convenient frame that can be used to keep memos handy with the camera. It is just the right size to hold the film-box end, which can be inserted as a reminder of the film in use.



EXPOSURE-CONTROL FUNDAMENTALS

The two camera exposure-control settings are lens opening (aperture) and shutter speed. The size of the aperture determines the amount of volume of light reaching the film from a given subject and lighting. The shutter speed determines the length of time this light acts upon the film. Apertures are expressed in f-numbers, which are larger for small openings and vice versa (e.g., f/16 represents a small opening, f/2 a large one). Shutter speeds are expressed in seconds or fractions thereof, which are generally the reciprocals of the numbers shown on shutter-speed scales (e.g. 60 = 1/60sec., and 2 = 1/2 sec.). At usual apertures, each f-number setting (e.g., f/8) lets in twice as much light as the next numerically larger one (f/11) and half as much as the next smaller (f/5.6). Similarly, each shutter speed (e.g., 1/60 sec.) allows light to strike the film twice as long as

the next higher speed (1/125) and half as long as the next lower one (1/30). The interval between two standard f-numbers (say, f/4 and f/5.6) or shutter speeds (say, 1/15 and 1/30) is one "stop." Total exposure on the film is determined by the combination of aperture and speed. Other things being equal, using the next smaller f-number (i.e., giving one stop more exposure) will balance using the next higher shutter speed (i.e., giving one stop less exposure), and so on. A great range of combinations (e.g., f/5.6 at 1/30, f/4 at 1/60, f/2.8 at 1/125, f/2 at 1/250, etc.) will thus yield the same total exposure. The specific combination you choose under given lighting conditions will depend upon the degree to which you want the greater depth of field (see p. 36) of smaller apertures and the greater movement-blur preventing ability of faster speeds (p. 28).

METERING WITH THE XG-7

(Automatic mode only)

The center weighted metering system in your XG-7 employs two CdS cells mounted behind the pentaprism so that light from all parts of the viewfield (picture area) is measured but influence from a broad central area is greatest. Thus the reading should yield satisfactory exposure without adjustment as long as the main subject area occupies a major part of the frame.

If the subject area to be measured occupies a relatively small part of the frame, move the camera so that the main subject fills most of the frame. Note the shutter speed setting in this position and compensate for the exposure difference with the shutter-speed/function selector or use manual speeds to set the same value when making the exposure from the original position. Further, if the most important area is very much brighter or darker than the rest of the frame and does not fill most of it, exposure should be decreased or increased

with the same control from 1/2 to 2 stops, the exact amount varying with the specific brightness difference and the effect desired. (p. 29).

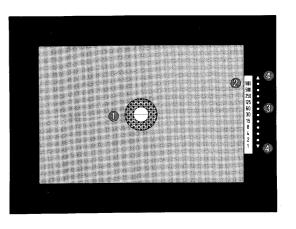
As with most metering systems, strong sources of direct light or other very bright areas may influence the reading adversaly is allowed to dominate the frame.

Though your XG-7 finder is designed to minimize the effect on the meter of light entering through the finder eyepiece under usual conditions, care must be exercised to prevent this especially if you wear glasses. Use of a rubber eyecup is further recommended when the subject is in shade and the camera is in sunlight, when bright sidelight falls between eye and eyepice, or when stop-down metering is used, particularly at small apertures (see p. 44). When viewing is unnecessary, the eyepiece cap (see p. 25) can be used to completely eliminate this problem.)

As you look through the viewfinder of your XG-7, you can see:

- Split-image/microprism focusing spot.
- Shutter speed scale,
- Indicator LED's (Auto mode only, show shutter speed being selected by the automatic exposure system; in manual and automatic mode, LED at "60" is also flash-ready signal)
- LED over- or under-range indicators (auto mode only)

For operation details, see the following section on exposure control and focusing.





Automatic operation

 Turn the shutter-speed/function selector to align "A" with the index, at which point it is locked to prevent accidental movement.



Set the desired lens opening by turning the aperture ring on the lens barrel. The shutter speed as indicated by lighted LED at the right of the frame will vary automatically to yield proper exposure for the aperture and other settings with the light being metered.



- It is then only necessary to confirm focus (see p. 35), compose your picture, and release the shutter (p. 38).
- 4. The XG's accurate range of shutter operation on automatic mode is 1/1000 to 1 sec., as indicated by the shutter speed scale. When the over-range indicator lights, the shutter will lock to prevent overexposure. Lighting of the under-range LED indicates use of a shutter speed longer than one second. For either, the aperture or other conditions should be adjusted so that an LED lights within the scale's range.

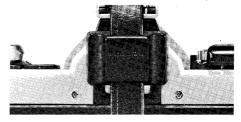
NOTE

- When the over-range indicator lights, be sure not to depress the operating button while adjusting the aperture or other conditions.
 This will cause the shutter to release at the instant the exposure is within metering range and result in an unwanted picture.
- To continuously provide more or less exposure on automatic mode, see p. 29.

Eyepiece cap

For remote or unmanned operation or when the camera is set on a support and used without viewing on automatic mode, be sure to attach the eyepiece cap as shown. This will prevent unwanted light from extering through the eyepiece and affecting the meter reading and exposure when the eyepiece is not being shielded by the photographer's head, as it normally would be.

The eyepiece cap has a slot that allows threading it on the camera strap to avoid loss and keep it handy for use.



WAYS OF USING AUTO MODE

On AUTO mode, your XG-7 will set the precise shutter speed for proper exposure for you automatically. Even so, you have considerable control over results and can adjust, aperture and shutter speed over considerable ranges to suit the conditions and yourself.

General use

For usual good personal pictures with a minimum of care where no particular effect is desired, simply set the aperture as indicated in the table. These guide settings will provide as much depth of field (see p. 36) as possible while producing a shutter speed fast enough to stop any subject motion and guard against blur from camera movement (see p. 38).

Guide to setting aperture

		Sunny	Hazy Sun	Heavy Over- cast	Indoors
Α	SA 25	f/8	f/4	f/2	f/1.4
A	SA 80	f/11	f/5.6	f/4	f/1.4
Α	SA 100	f/11	f/5.6	f/4	f/1.4
Α	SA 200	f/11	f/8	f/5.6	f/2
Α	SA 400	f/16	f/11	f/8	f/2.8

(These are only guidelines for typical picture taking situations. For additional information see page 20.)

NOTE

Use of a steady support (p. 34) or an electronic flash (p. 43) is recommended for use with shutter speeds of 1/60 or slower.

Creative aperture control

There may be times when it will be most important to set the lens aperture to obtain a particular effect, such as rendering a certain range in sharp focus or emphasizing a subject against an out-of-focus background. In this case, set the desired aperture, and let the

A: Large lens opening



camera select the shutter speed. Small f-numbers yield a shallow field of sharp focus, as in Example A below, while large f-numbers give greater depth of field, as in Example B. To determine actual depth of filed, use the depth-of-filed scale (see p. 36)

B: Small lens opening



Creative shutter control

At other times, the subject or effect you want may make the shutter speed more important. In this case, turn the aperture ring until the lighted LED indicates the required speed on the finder scale; exposure will automatically be correct. High shutter speeds such as 1/500 to 1/1000 sec. can "freeze" fast action, as in

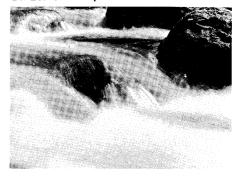
Example C below. Such slow speeds as 1/2 to 1 sec. can be used to emphasize subject flow or motion, as in Example D.

No matter how the camera is used, it is important to support it (see p. 34) and release the shutter properly (p. 38).

C: High shutter speed

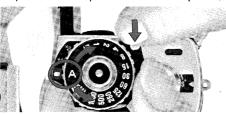


D: Low shutter speed



To deliberately give more or less exposure while in automatic mode, set the shutter-speed/function dial as follows:

Depress the Auto - setting release and move the shutter-speed/function selector so that the "A" is on the side having plus (+) numbers to produce more exposure or on the side having minus (-) numbers to produce less exposure. The numbers indicate the amount of adjustment in stops or EV steps (i.e., "+" indicates one more stop or double the normal automatic exposure, and "+2" means two stops or four times more exposure: "-1" is one stop less or one half the exposure, and "-2" produces two stops' less or one quarter the normal exposure).



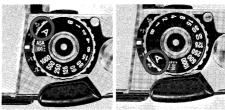
The shutter-speed/function selector will lock at normal automatic setting and there are click-stops at each half stop setting.

The "A" may be set at intermediate positions between ± 2 and ± 2 .

Always return the shutter-speed/function selector to "A" (normal automatic operation) after using exposure adjustment settings.

NOTE

The XG's automatic exposure system will not operate when the "A" on the shutterspeed/function selector is moved outside the range of exposure adjustment.



WHEN AND HOW MUCH TO ADJUST EXPOSURE

 In situations where there is a great contrast difference between the subject and background and the most important area is considerably darker than the area surrounding it, set the "A" on the Shutter-speed/function Selector at from +1/2 to +2. examples of such pictures are ones with strong backlighting and no fill-in illumination, such as Examples A and B, or subjects against a background of snow or lightcolored sand, unless the bright area occupies

A: Without adjustment



- a very small part of the image frame.
- If the most important subject area is much brighter than the rest of the picture, set the "A" on the Shutter-speed/function Selector from -1 to -2. Examples of this kind of picture are subjects in a spotlight or shaft of sunlight, or against a very dark background, as Examples C and D, unless the background occupies only a small area in the image frame.

B: Exposure increased



3. As above, when copying documents printed on white stock or other subjects that are predominantly light in color, an adjustment to +1/2 or more may be called for. Similarly, you will probably want to make an adjustment from -1 to -2 for predominantly dark copy meter or that on a dark background.

C: Without adjustment



 The above suggestions will serve as starting points for trial; individual conditions and taste will of course determine exact final exposure.

D: Exposure decreased



MANUAL EXPOSURE CONTROL

In situations where the contrast difference between the subject area and the background exceeds the available range of automatic exposure compensation, or when a desired photographic effect requires a fixed speed, you will want to use the XG's manual shutter speed.

 While depressing the Auto-setting release if from the "A" setting, turn the shutterspeed/function selector to align a stepped speed with the index. Any shutter-speed and

- lens-aperture combination may then be set for full manual operation.
- To determine the aperture and shutter speed settings by using the XG's metering system, move the shutter-speed/function selector to the "A" (Auto) setting. Then adjust the lens aperture for the desired shutter speed and aperture combination. After noting the shutter speed indicated by a lighted LED, reposition the selector to that manual speed and take the picture.





"B" setting

Turning the shutter-speed/function selector to align "B" with the index (while depressing the Auto - setting release if from "A" setting) sets the camera for making "bulb" exposures. That is, the shutter will open when the operating button is depressed and remain open until it is released.

NOTE

When a standard cable release with the XG and "B" setting, be sure not to let any metal part of the release touch any metal part of the camera body while the shutter is open as this will cause the shutter to close and end the exposure.





Holding the camera securely when exposures are made is as important as focusing. Even slight movement at the instant of exposure can result in "blurred" photographs, especially when operating with slow shutter speeds. A recommendable way that permits ready operation of important controls is shown here.

To hold the camera horizontally, cradle the bottom if it in the palm of the left hand with the thumb and index or middle finger on the focusing grip of the lens. These fingers can also be used to turn the aperture ring. Grasp the camera body firmly with the right hand as

shown so that the index finger rests on the operation button. In this position, the thumb can conveniently operate the film-advance lever.

The camera may be held in a vertical position as shown (center) using the thumb of the right hand to push the shutter release while the left hand is used for support and focusing. Another possibility is to rotate the camera from the horizontal position and hold it so that the rewind-crank end is cradled in the left hand as shown.







The focusing screen of your XG-7 features a split-image spot surrounded by a band of microprisms in the center of a matte field.

To focus the camera visually with usual lenses, look through the viewfinder with lens at full aperture and turn the focusing collar on the lens until the upper and lower subject images in the spot are exactly aligned with no broken lines between them and/or the subject image in the band does not shimmer or appear broken up. At this point, the subject image within the focusing aid should appear clearest and seem to blend with that on the matte field around it.



Though the most satisfactory focusing aid and method depend upon the conditions and personal preference of the photographer, the above method may provide the best results with medium wide-angle to medium telephoto focal length lenses.

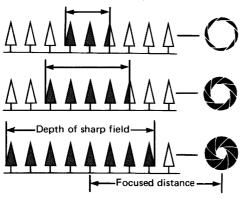
Generally speaking, however, you will probably find that using the split-image spot will provide the easiest way to focus with subjects having vertical lines; the microprism band for lenses from medium wide-angle through medium telephoto, especially with subjects not having vertical lines; and the matte field for longer lenses or macro or other work involving considerable lens extension.



Depth of field

The distance behind and in front of the focused distance within which the image appears acceptable sharp is called the depth of field.

It extends a greater distance behind the foucsed distance than in front and is determined by three factors: the aperture size, the distance at which the lens is focused, and the focal length of the lens in use. Depth of field increases as the lens is stopped down (e.g., f/2



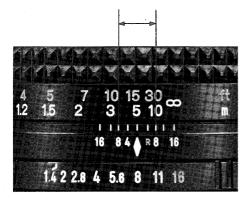
to f/16) and becomes greater the farther from the camera the lens is focused. It decreases as the lens is opened up (e.g. f/16 to f/2) and the closer to the camera the lens is focused. Depth of field is greater for short focal length lenses than for telephoto's at the same focused distance and aperture. It is at its least for any given lens in normal mounting when the lens is at maximum aperture (as when metering and focusing normally with Minolta MD- or MC-type lenses) and at minimum focusing distance.

Depth-of-field scale

The near and far limits of acceptable sharpness can be determined from the depth-of-field scale on the lens barrel. With the lens focused at a given point, the image will be in satisfactory focus from the nearer value to the farther value on the distance scale indicated by the depth-of-field scale marks for the aperture to be used.

For example, if a 50mm lens is focused at

5m (about 16 ft.) and the aperture is f/8, the appropriate graduations to left and right of the index on the depth-of-field scale indicate acceptable sharpness from about 3.4m to 9.7m (approx. 11 to 32 ft.).



Infrared index

For proper focus when making pictures with infrared radiation, first focus your subject with visible light as described above, then attach a red filter and turn the focusing ring to the right to align the point of proper focus on the distance scale with the index designated with small red "R" in the depth-of-field scale. When making color pictures, follow the manufacture's recommendations to set focus.



The way the camera is supported (see p. 34) when exposures are made and how the shutter is released are as important as focusing for best photographic results, and to avoid blurred pictures due to camera movement during exposure these factors become more critical the slower the shutter speed.

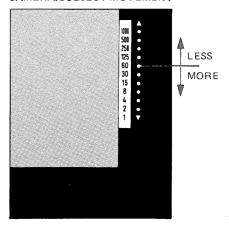
You may wish to use the figure "60" on the shutter-speed scale as the reference point to gauge the chance of camera movement. When the LED lights below it, you should pay special attention to both camera and subject movement in taking pictures.

With the possible exception of highest speeds, the camera or hands holding it should generally be firmly steadied against your face or body when you release the shutter.

At slower speeds, it is advisable to steady the camera against a doorframe, post, or other firm support while depressing the release.

The shutter should always be released with a slow, steady squeeze-never a quick jab — preferable while holding your breath.

DANGER OF BLUR FROM CAMERA/SUBJECT MOVEMENT

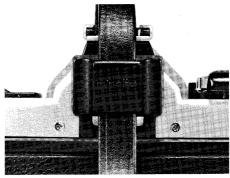


For maximum sharpness when making exposures too long to permit hand-holding the camera, mount it on a tripod using the built-in socket on the bottom and trip the shutter with a Minolta electronic Remote Cord or a standard cable release screwed into the threaded socket



provided on the side of the lens mount.

If the eyepiece is not being shielded by the photographer's head when the shutter is released in this way, the eyepiece cap should be used (see p. 25).



The electronic selftimer built into your XG-7 can be used to delay release of the shutter for about 10 seconds after actuation.

To operate it:

- 1. Advance the film.
- With the shutter-speed/function selector at a setting other than "B," move the main switch to align the index with SELF TIMER.
- Depress the operating button. The blinking light on the front of the camera will indicate the delay has been started. Approximately 2.5 secs. before the exposure is made, the



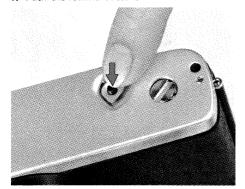
indicator will blink faster to signal the end of the delay. You may cancel the selftimer by moving the main switch to "OFF".

NOTE

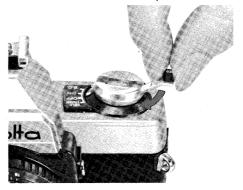
- After using the selftimer be sure to move the main switch off of the "SELF-TIMER" setting.
- In automatic mode, the self timer will cancel if exposure conditions exceed the upper range of the metering system. Operation will resume when aperture or other conditions are adjusted so that exposure conditions are within metering range.



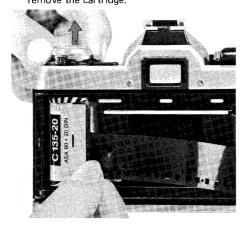
1. Push the rewind button.



 Unfold the rewind crank and turn it in the direction indicated by the arrow on it until the red Safe Load Signal bar moves out of the window to the left. You will then feel tension on the film increase and disappear, and the crank will turn freely.



When you are certain that the film is completely rewound, pull out the backcover release knob to open the back and remove the cartridge.



FLASH PHOTOGRAPHY



Synchronization

Your XG-7 has shutter contacts for X flash synchronization as follows:

	Synchronized speed range in seconds	
Type of flash	On manual mode (step speeds)	
Electronic flash ("strobe")	1 through 1/60	
Class M or MF flashbulbs	1 through 1/15, B	
Class FP flashbulbs	1 through 1/15, B	

NOTE

As indicated by the table, 1/60 is the maximum shutter speed for proper X synchronization. Slower speeds can also be used under certain conditions if desired for particular effects. Be sure not to use speeds faster than 1/60, (i.e. 1/125 and upward) with electronic or auto-flash units.

Connecting flash units

Cordless clip-on flash untis such as the Auto Electroflash 200X are attached and electrically connected by simply sliding them into the camera's hot shoe. Sync. cords of either clip-on or bracket-type conventional units requiring them must be plugged into the cameras sync. terminal for operation.

Bracket-type flash units are attached to the camera by means of its tripod socket.



Metering and exposure with Auto Rokkor lenses having built in preview buttons, RF Rokkor (reflex-mirror type), and Manual-Preset Rokkor lenses is by the stop-down method as follows:

Auto Rokkor lenses

 After focusing, depress the lens' preview button to stop down the aperture.



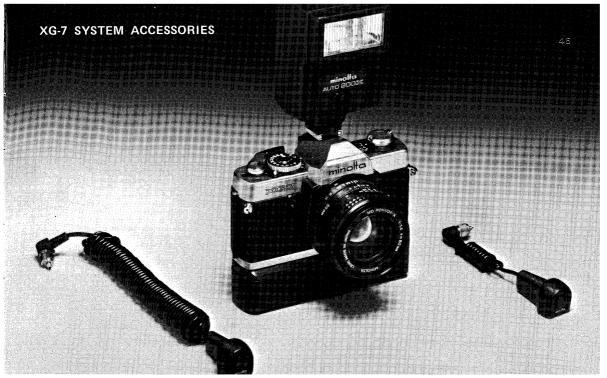
- With the shutter-speed/function selector set at "A," select an aperture as explained on pp. 24 through 25. The viewfinder field will darken as the lens is topped down, and the split-image spot and microprism band may become unusable due to darkening.
- With the lens stopped down to the proper taking aperture or with the camera set for manual operation, release the shutter.

RF (mirror-type) and Manual-preset lenses

Proceed as for Auto Rokkors above, except that use of a stop-down button is not necessary as metering and exposure are always made at taking aperture.

NOTE

Because they have neither meter coupling nor preview buttons, the Rokkor 35mm f/2.8 CA Shift lens, Auto Bellows I, and some Auto Rokkor lenses can not be used with the XG-7 on auto mode.





The Auto Winder G is an automatic film winder that helps the photographer focus his full attention on the creative aspects of photography by removing the interruption of having to wind the film after each picture. Attaching is quick and easy with no access caps to remove or store. Just a light touch of the shutter release is all that is required to take either successive or single frames with the winder automatically advancing the film after each one. The winder drive mechanism stops automatically at the end of each cartridge and film can be easily rewound with winder attached.

All of these features combine with the XG-7 to help you to capture the fast paced action of a sports car race or the fleeting expressions of a child at play.



Auto Electroflash 200X

The Auto Electroflash 200X is a new generation automatic-type flash unit that has been specially designed for use with the XG-7 camera system.

After it is attached, all you need to do is select any electronic setting, set the proper lens aperture, and turn the flash on. When its capacitor is fully charged, the 200X starts a flash ready signal blinking in the viewfinder and automatically switches the camera's electronic shutter setting to X-sync, (1/60 sec.).

A series SCR circuit insures fast recycle time (min. 0.5 sec.) and enables the 200X, powered by Ni-Cd batteries, to make up to two contin-





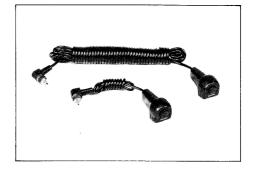
uous-sequence flash exposures each second with the Auto Winder G.

While its capacitor is charging and the monitor lamp is off, the 200X will automatically switch the camera's shutter back to its indicated electronic setting. At this time metered automatic or manual exposures can be made. Flash mode will resume when the capacitor is charged and the flash ready signal blinks

Switching the power "OFF" cuts off all flash circuits and normal electronic operation is returned to the XG-7. The camera may now be used in auto or manual mode even with the flash attached.

Remote Cord S and L

These cords are designed for operating the XG-7 from a distance. Each screws into the shutter release socket on the side of the lens mount. The Cord S is 50cm (about 20 in.) long, while the Cord L is 5m (16-1/2 ft.). These cords facilitate shots mounted on a tripod or remote wildlife pictures. In combination with the Auto Winder G, the Cord L can be used to make single or continuous sequence exposures at the subject position, from a remote location, etc.



Lens:	50mm f/1.7 MD Rokkor-X	50mm f/1.4 MD Rokkor-X	50mm f/1.2 MD Rokkor-X
Туре:	Meter-coupled Gauss-type standard lens		
Construction:	6 elements in 5 groups	7 elements in 5 groups	7 elements in 6 groups
Angle of view:	47°	47°	47°
Coating:	Minolta Achromatic		
Min. focusing dist.:	0.45m (1.48 ft.)	0.45m (1.48 ft.)	0.45m (1.48 ft.)
Diaphragm:	Fully automatic meter-coupled		
Aperture scale:	1.7, 2.8, 4, 5.6, 8, 11, 16	1.4, 2, 2.8, 4, 5.6, 8, 11, 16	1.2, 2, 2.8, 4, 5.6, 8, 11, 16
	With full and half click-stops		
Focusing:	Double helicoid system		
Filter thread diam.:	55mm		
Dimensions:	φ64mm × 40mm (φ2-1/2" × 1-9/16")	φ64mm × 40mm (φ2-1/2" × 1-9/16")	φ65.5mm x 46.5mm (φ2-9/16'' x 1-13/16'')
Weight:	185g (6-1/2 oz.)	230g (8-1/8 oz.)	315g (11-1/8 oz.)

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

Lens mount: Minolta SLR bayonet, 54° rotating angle; coupling for full-aperture metering and automatic diaphragm control with Minolta MD and MC lenses

(Standard lenses MD Rokkor-X 50mm f/1,2, f/1,4 or f/1,7; see p. 49 for

specifications)

Auto-exposure control: Special low-voltage, low-current computer circuit, actuated by contact or

pressure on "touch switch" operating button, varies the shutter speed continuously and steplessly to yield proper exposure according to metering system indication at the aperture, film speed, and exposure adjustment set Auto-exposure range: EV 2 to EV 17 (e.g., 1/2 sec. at f/1.4 to 1/1000 at

f/11) at ASA 100 with f/1.4 lens

Shutter: Horizontal-traverse focal-plane type; electronically controlled speeds: 1/1000 to 1 sec., steplessly on automatic mode or in steps on manual mode

Meterina: Full-aperture TTL center-weighted type, by two CdS cells mounted on

either side of the eyepiece at the rear of the pentaprism

Film-speed range: ASA 25 to 1600 set on the shutter-speed/function selector

Auto-exposure Up to ±2 EV continuous adjustment of automatic exposure with 1/2 EV adjustment: click-stops and lock at "A" (zero setting)

Mirror: Oversize quick-return type (P0 value: 123mm)

Viewfinder: Eye-level fixed pentaprism type showing 93% of 24 x 36mm film-frame

area

Magnification: 0.9X with 50mm standard lens focused at infinity; Matte-Fresnel-field focusing screen with central horizontally oriented split-image focusing spot surrounded by microprism band; stepless speeds indicated by 10 light-emitting diodes; LED over-/under-range indicators: LED at "60" position also blinks as flash-ready signal with Auto Electroflash 200X

Flash sync: PC terminal and hot shoe for X sync. (disconnect when unit no installed):
Electronic flash synchronizes at 1/60 sec. and slower step or stepless
speeds; Class MF, M, FP flashbulbs synchronize at 1/15 or slower speeds.
Extra contact on hot shoe receives signal from camera-control contact of
Auto Flectroflash 200X

Film advance: Motorized: Through built-in coupler key with accessory Auto Winder G

Manual: By lever with single 130° stroke after 30° unengaged movement Film-advance release button for rewinding; advancing-type frame counter and Safe Load Signal that indicates film loading and advancing conditions

Power: Two 1.5v silver-oxide cells contained in camera base power both auto exposure control and shutter's electronically governeed operation

LED battery check indicator lights when operating switch in battery check

position

Shutter will not release when voltage too low for proper operation

Self-timer: Electronic, LED indicated types; approximately 10 sec. delay

Other: 4-slot take-up spool; detachable back cover with memo holder and

ASA-DIN conversion scale

Size and weight: $52 \times 88 \times 138$ mm (2 x 3-7/16 x 5-5/8 in.)

505g (17-13/16 oz.) without lens and power cells

Accessories: Exclusive Auto Winder G, Auto Electroflash 200X, Remote Cord S 50cm

(20-in.) and Remote Cord L 5m (16-ft.); MD, MC, and other interchangea-

ble Rokkor lenses and applicable Minolta SLR system accessories

- As with all high-precision instruments, no part of your XG-7 should ever to forced at any time. If operation is not as you think it should be, carefully restudy the applicable instructions or consult an authorized Minolta service representative.
- Always keep your camera in its case with the lens capped when not in use.
- Never subject your camera to shock, high heat and/or humidity, water, or harmful chemicals or gases.
- Never lubricate any part of the body or lens.
- Always use a body cap when a lens is not installed on the body. Keep lenses, properly capped front and rear, in their cases when not in use.
- Never touch the shutter curtains or anything inside the front of the body with the fingers. These parts and the inside of the back should be dusted with a soft brush from time to time as necessary, with particular care never to exert pressure on the shutter curtains.

- Never touch lens or other glass surfaces with the fingers. If necessary, remove loose matter from them with a blower lens brush. Use special photographic lens tissue or a soft clean cloth to remove smudges or fingerprints with a gentle circular motion. Only if absolutely necessary, the tissue may be moistened very slightly with not more than one drop of a satisfactory quick-evaporating fluid cleaner specially compounded for photographic lenses. Such fluids must never be dropped directly on the glass surface.
- Smudges or fingerprints on the mirror may be removed with lens tissue slightly moistened with lens-cleaning fluid as above.
- External camera and lense-barrel but not glass — surfaces may be wiped with a soft, silicone-treated cloth.
- Never leave the shutter cocked when the camera is to be stored overnight or longer. It is advisable to operate the film advance and release the shutter once or twice from time to time during extended storage.

- If the camera is not to be used for more than two weeks, the batteries should be removed.
- If the camera is to be stored for a long period of time, body and lens should be returned to their original packing and kept in a cool, dry place away from dust or chemicals, preferably in an airtight container with a drying agent such as silica gel.

Specifications subject to change without notice

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