

Minolta SR-1 Owner's Manual





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6 Steps before shooting













Advance lever.

3 Set shutter speed. Set F stop.

Frame subject and



Click shutter.



used.

















3. Push the rewinding knob (1) down to its original position. If you should have any difficulty then turn the knob around slightly and push down.

4. Using the knurled base of the film take-up spool (5) turn until the film catching clip (4) faces the upper side.

5. Insert the film leader into the take-up spool as per picture along the bottom side of the take-up spool Make sure the film spro-

cket gear teeth are enga-

ged with the film perfo-

6. Advance the film lever (6) by making several short strokes until both sides of the film perforations are engaged properly in the film sprocket gear teeth (7). When the film advance lever stops release the shutter (8) so that

you can advance further.

Load and unload the film in the shadow and never under direct sunlight.









- Please make sure that the film is placed parallel to the camera body before closing the camera back.
- 8. Again advance the lever (6) until it stops and then release the shutter (8). Repeat this action twice and advance the lever once more, then you are ready to shoot.
- Notice the film counter window. A red arrow will indicate that the first film frame is in position to be exposed and you are ready for the first shot.

Emulsion Speed Numbers

Films	A S A
ILFORD HPS	400
Ansco Super Hypan	500
ADOX KB 14	(DIN) 14
ADOX KB 17	(DIN) 17
DOX KB 21	(DIN) 21
Kodak Panatomic X	
lodak Plus X	80
Kodak Tri X	200
odacolor	
ktachrome davlight type)	
Kodachrome daylight type)	10
Super Anscochrome daylight type)	100

Film emulsion speed indicator:

For your reminder set the indicator to the emulsion speed number (ASA or DIN) of the film you have just loaded.

To set the indicator turn the dial knob (10). For instance, if your film, speed is ASA 200, set it as this picture indicates.

when color film is being used the indicator is set on the red figures.

figures.
Emulsion speed numbers (ASA)
are listed right for your con-

venience.

They are also given on the instruction sheet which comes with each film.



Do not advance the lever while the shutter is still in motion





Note: Unless the film advancing lever is completely winded, the shutter can not be

The film advancing lever performs the following five actions simultaneously

- 1. Advances the film one picture trame, 2. Advances the film counter to the next number.
- 3. Cocks the shutter mechanism.
- Sets the quick-return mirror mechanism.
- 5. Opens the diaphragm fully.

You can turn the lever either by making several short strokes or by one 180 degree stroke until it stops as it is illustrated in the pictures.



How to set shutter speed

Pull up the black knurled part of the speed dial and turn until the desired shutter speed figure is next to the center red line, then set down the speed dial. The shutter speed can be set either before or after advancing the lever



The diaphragm is set to desired aperture figure by turning the diaphragm setting ring (11) while pressing the click stop button (12). When the white dot coincides with the figure you choose, release your finger from the button and it will be locked in the selected figure. Should the diaphragm ring left in any intermediate position between figures the ring will move to the next figure position when the shutter is released.

The diaphragm ring has aperture figures from 2 to 22. The more the figure increases the less light volume is permitted through the lens. The following illustration indicates the relationship between aperture and light volume.

Aperture	2	2.3	4		- 8			
**Novement		0	0	0	20	6	All	Alla
Light volume		U	U	13	63	169	163	40

The aperture stops are used for control of exposure on the film, and at same time to control the depth of field

In order to check the depth of field in the foreground and back ground of the subject, adjust the diaphragm before cocking the lever. (see page 16 for detailed information).

What is a COMPLETE AUTO-PRE-SET DIAPHRAGM?

this is an advanced feature which Minolta is very much proud of in general, with other single lens reflex counters it is very infficult to focus when the aperture is amall since the viewfinder this very dark. For this reason it is necessary to open the lens is maximum aperture when focusing and then to close the

the Minolta SR1 completely eliminates this difficulty. When he lever is advanced, the lens will be opened to its maximum perture and therefore it becomes very easy to focus and frame he subject through the extra-bright viewfinder. And when the hutter is released, immediately before the shutter mechanism tarts to open, the aperture will automatically close down to

This automatic pre-set mechanism is also contained in the Wide-angle $F2.8-35 \,\mathrm{mm}$ lens, $F3.5-100 \,\mathrm{mm}$ lens and $F2.8-135 \,\mathrm{mm}$ lens as well as in the Standard $F2.55 \,\mathrm{mm}$ lens.

How to use "the light value scale"

The lower part of the shutter speed dial and the diaphragm setting ring are marked with small yellow figures (13) that are the divided light values-i.e. any combination of figures between the shutter dial and diaphragm ring would correspond to a light value.

If you have an exposure meter with Light Value Scale, you can get the proper exposure setting by using the yellow figures marked in the shutter dial and in the diaphragm



First, read off the light value number indicated by your exposure meter and then divide this value between the shutter speed dial light value and the aperture ring light value.

For example, if the light value number of your exposure meter is 13, you may divide it into 7 on shutter side and 6 on aperture side as in the right illustrations or 9 on the shutter side and 4 on the anerture side.

You will get the proper exposure as long as the combinations add up to 13. In this case 7 and 6, 9 and 4, 5 and 8, 6 and 7.

Which side the priority in combination will be given to depends upon the subject you are about to shoot. For instance, if you are to shoot a fast moving subject, it is necessary to use a fast shutter speed. Assuming that a speed of $\frac{1}{250}$ of sec, is sufficient set the shutter speed sky assuming that a speed of $\frac{1}{250}$ of sec, is sufficient set the shutter speed light value index to $\frac{1}{250}$ of sec, is sufficient set the shutter speed light value given by a exposure meter is 13, set the aperture light value index to 5-(f.5, 6) (13.8—5) If you wish to give priority to aperture setting rather than to shutter speed in order to achieve a greater depth of field, it is necessary to use a larger number on the aperture light value index.



It is recommended to focus after advancing the winding lever due to the greater brightness of the viewing field and shallower depth of field. However, if you wish to check the depth of field, you can do so before advancing the winding lever.

By looking through the viewfinder eyepiece and turning the lens barrel (15) either to the right or left your subject image will become sharper and clearer. At the sharpest point you are in focus and ready to shoot.

The same image you see will appear on the film negative.



This is one of the biggest advantage of the Minolta SR-1 hat there is no parallax correction problem, i.e., however close you may get to your subject you do not have to worry bout parallax compensation. What you see through the iew-finder is exactly what you will get on the film negative.

you can see (1) The real relationship between subject, background and foreground. (2) The actual color condition when using filters. (3) Depth of field changes in accordance with the accuse of contract subjects.

These results can be obtained before advancing the winding lever which will automatically open the disphragm fully. Should you desire the above advantages (① adjust the aperture and the shutter speed, ② focus the lens approximately and view the subject, ② advance the film and ④ focus the



Infrared film indicator:

When using infrared film you must move back the focused distance indicated by \blacktriangle mark to "R" position.

The black ring of finder eye-piece (14) can be screwed off by turning counter-clockwise in order to attach finder accessories such as the angle viewfinder and critical focusing (magnifier) viewfinder. The flash accessory shoe is attached by screwing in the eye piece.



Depth of field:

The depth of field of a lens is the range of distance within which all subjects are in relatively sharp focus when the lens is set for a given distance. This range varies with the lens aperture, being greatest when the lens is stopped down and least when it is open full.

The photographs on the next page illustrate the relationship. The same subject was taken at different aperture settings.



Taken at F2 (1/2 nosec.)

At large aperture, only the subject (girl) is in sharp focus while the background (the castle) and the foreground (the boy) are fuzzy. This is an example of





Taken at F22 (1/4 sec.)

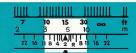
Overall picture is in comparatively sharp focus. This is an example of great depth of field.

The principles governing it are:

You can check the effect of the depth of field by setting the aperture and focusing before advancing film.

However, should you advance the film first and then wish to check the depth of field, you must refer to the depth of field scale (17).





The arrow mark A on the ring (17) indicates the distance between camera and focused subject. The two sets of figures on both sides of the arrow mark are aperture stops and the distance framed by the two same figures shows the depth of field. For instance, if you are focusing on a subject 15 feet away and if you are using a f 11 aperture, it will be possible to read off the distances opposite the figures 11 on both sides of the depth of field scale which will be approximately 10 feet to 37 feet. This will be the range of distance within which all subjects are in relatively sharp focus.



Focusing and framing of subject

Depth of Field Table AUTO ROKKOR

shutter button:

1) The aperture will close automatically

Releasing the shutter

- to the pre-set f stop.

 2) The mirror will rise
 up to allow exposure to be made
- The shutter curtain will open to expose film at pre-set shutter speed.
- The mirror will instantly return to its original position.





How to aim:

The camera may be held accordingly for either horizontal or vertical pictures. It is best to press the camera firmly against your face and to release the shutter with a slow pressure to world all movements and insure sharp negatives shutter with a slow pressure to world all movements and insure sharp negatives although for each proper sharp negative to focus and view with may be used although for each proper sharp negative sharp negative to the case of the rainful winding levels.

The lever contains a double exposure prevention mechanism and therefore the film can be advanced only after you release the shutter. Unless the lever is advanced completely, the shutter can not be released.

Attention:

When using shutter speeds of ½15 sec. and slower it is best to use a tripod to avoid camera movement. If a tripod is not available, set the camera on something or hold the camera against something steady.

A Cable release may be screwed into the shutter release button. It is best to use a cable release (19) when using a tripod.

When using slow shutter speeds such as $\frac{1}{2}$ of sec. or 1 second, please be careful not to advance film



When you have finished tak ing all pictures (20 or 36 es posures), you will not be able to advance the lever any fur ther. If you force it further the film will tear or pulled ou of the film magazine and i will be impossible to rewin.



It is absolutely necessary to rewind the film back into the magazine in order to unload the film from camera.

 When you have finished taking all pictures, push in the rewinding release button (20) and it will click into place, the button should remain in after releasing your finger, if the button pops up again then advance the lever very slightly while pushing the button down and

it will click into place.



 Raise up the crank (21) and rewind in a clockwise direction as the arrow on the knob indicate until you feel the film is slip out from the clip of the take up spool and a sudden release of tension Attn: When operating the crank rewinding lever, please do not pull up the rewinding knob. If you do so, the camera back will open and the entire film will be exposed.



 Open the camera back by pulling out the rewind knob as far as it goes (see page 4 step 1). Remove the film magazine. The self-timer allows you to get yourself into the picture. Also the self-timer can be used to minimize camera movement. Even while you are holding the camera at slow shutter speeds with the self-timer working, you can minimize blurring better than by pressing on the shutter release.

Attn: If you press the shutter release button without pushing the self-timer button (23), the shutter will open without letting the self-timer work.



 To charge or set the self-timer push down lever (22).
 When the lever is push down to the position this picture indicates, you will get a time lap of about 10 seconds.



 To start the self-timer, push button (23) toward the lens barrel and the shutter will automatically release after the time lap of about 10 seconds.

If you set the shutter dial on "B" and use the self-timer, you will get approximately a 2 second constant exposure automatically. It is recommended using flash for night shots and for filling in dark shaded areas.

You can use either regular flash or strobe light.



When you use a strobe light (Electronic flash):

Please make sure the shutter speed dial is set on the red mark "X". Speeds slower than X (about 1/50 of sec.) may be used.

With strobe light the camera is synchronized at speeds from 1 second to 1/50 of second.

When you use flash bulbs:

Please make sure you use FP. class bulbs. (Focal Plane bulbs)
The camera is synchronized at all shutter speeds from 1 second to 1/500 of second when using FP. class bulbs.



Shutter speed to be used for flash photography



Minolta B.C. Flash



How to connect flash gun

If you wish to attach a flash gun on the camera, you can do so by using the SR-1 accessory clip (which is available separately)→



turning it counterclockwise.

How to attach the SR-1 accessory clip



B) Attach the accessory clip (25) over the penta-prism cover and screw in black ring which will hold it in place.



C) Slide flash gun shoe into the accessory clip.

←Insert the flash connection plug into synchronization terminal (24). Please





be changed even after advancing the lever and still maintain the fullest aperture opening.



To remove lens

While pushing down the lens change-button (26) turn the lens barrel counter-clockwise until it stops (1/8 of a turn) and still holding unto the lens barrel lift up carefully.



To attach lens

Insert the lens into the bayonet mount by lining up the red dot on the lens barrel with the red dot on the camera body and turn the lens clockwise until it stops (1/8 of a turn)







Polarizing



Adapter C Bellow Focusing Device

(A) Microscope (B) Angle Finder



Magnifier

Extension Tube







Your camera has the improvement as follows:



How to set shutter speed

after advancing the lever.

Turn the shutter speed dial until the desired shutter speed figure is next to the center red line. The shutter speed can be set either before or

Your camera has the improvement as follows:

How to attach the SR-1 accessory clip.



A) Push the accessory clip onto the eyepiece as picture. The spring on the accessory clip will fix the clip on the penta-prism co-



B) Slide flash gun shoe into the accessory clip.



C) For detaching the accessory clip, push up the two buttons of clip, it will come off easily.