INSTRUCTION BOOK



HASSELBLAD1000F



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Shutter winding knob Shutter setting Automatic film transport

Shutter speeds are selected by pulling clockwise to the speed desired. This can

be done either before or after the shutter

has been cocked. There are ten shutter

speeds (from 1 second to 1/1000), in addi-

After loading the magazine, the film is

automatically advanced by winding the

The film signal and shutter signal on the right side of the camera show: White when the film is advanced and the shutter is cocked; red when the film is exposed and

Shutter release signal Exposed film signal

Shutter setting

tion to "B".

Film advance

shutter.

The signals

the shutter is released.

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Cocking the shutter Turn the large winding knob clockwise until

it stops. When this is done, several things will have happened: the mirror is lowered into viewing position, film is advanced to the next exposure, and both film and shutter signals are actuated. (White in these windows means that both are ready for exposure; red that film is exposed and that the shutter has been released).



Practise making a complete turn of the knob in one movement. Hold the camera with the left hand, with the lens you turn the knob with your right hand, turn the camera, with your left hand, in the opposite direction.

Remember

Always cock the shutter immediately after exposure!

Then you will be ready for the next exposure. The mirror will be down and you are ready for view-finding and focusing.

The shutter, like any other fine precision mechanism, can be damaged by rough handling. Be careful with it. Constructed not of cloth, but of selected Swedish stainless steel 6/10,000ths of an inch in thickness, it offers advantages no other camera has. No wonder U. S. Camera called it "a miracle of workmanship".

When you do not intend to use the camera for some time we advise you to release the shutter.

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Pre-selection of aperture

An ingenious trigger arrangement permits pre-setting the stop at which you want to shoot, focusing at full aperture, and then stopping down without taking your eyes from the subject. Just slide the trigger all the way to the left. With your right hand turn the aperture ring to the stop you want.



Focusing

Focus now by turning the focusing ring as wou watch the ground glass. The diaphragm will remain wide open.





Stopping down

As soon as you've composed the picture to your liking, slide the trigger to the right and up until it stops. The lens will now be stopped down to the stop you had selected. Then press the shutter release button. You can always be sure you've stopped down, if the red rectangle on the thin ring is opposite the red dot on the diaphragm scale.

Focusing scale

The distance between the subject and the film plane is indicated in feet and meters.





For infra-red film, the extremely small red not between 2.8 and 5.6 on the depth of field scale shows the amount of focus that must be shifted.

Using the depth of field scale

This scale, engraved on the lens mount, enables you to be sure that everything in the picture will be in focus and sharp. This is how you do it: Focus on the nearest object in the picture and note its distance from the camera. Then focus on the furthest object and note that distance. With these two points in mind, revolve the focusing ring until both of them lie between the same stop on either side of the red triangle that shows the point of focus. If the two points lie outside the stop that you had planned to use, you'll have to stop down further, reducing shutter speed to compensate. The lens, therefore, is focused on that "imaginary point" which gives wou all the depth of field you want.

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There are two buttons on top of the camera. The front, or smaller one, operates the focusing hood. (The back, or larger one, releases the magazine).

To open the hood, press the smaller button to the right. To close the hood, fold down the side panels one after the other, then the back panel, then the hood cover until it clicks.

When the hood is open, the magnifier is raised by pushing the same button, again to the right. Always fold down the magnifier into its "closed" position before closing the focusing hood. To avoid fingerprints be careful not to touch the glass surface.

The ground glass hood and magnifier

Opening the hood will expose the ground glass with a clear parallax-free image. When the hood button is pressed again to the right the magnifier will spring up, ready for the most critical focusing.

To clean the ground glass surface, first remove the roll film magazine (see page

20). Then push the hood towards the back of the camera, and it will slide off easily. The magnifier is easily cleaned by pulling it gently out of its grooved socket. If desired an optician can replace the magnifier lens with one ground to your eyeglass prescription.

Why the image is so bright and clear

There are two good reasons why the image you see is so bright that it permits critical focusing under almost any light condition. First, the ground glass itself is so fine that it is practically grainless, Second, under the ground glass is that wonderful light-gathering Fresnel lens that increases overall brightness by 250 % and brightens the corners by more than 1000 %.

As a result, composing your picture is a great deal easier- since you need not

move your head from side to side in an effort to see the corners – and focusing is speeded up tremendously. Under poor conditions of light, you'll appreciate these advantages. You can be sure that you're getting all possible light through your faster (2.8) lens where you'll need it most – on the ground glass. Lack of these features have, in the past, restricted the use of the single lens reflex.



Loading the film magazine

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The magazine slide has to be inserted and pulled out at right angles to the magazine. The curled end of the magazine slide should always point towards the camera body.

To release the roll-holder turn lock counterclockwise.

Pull out the roll-holder and turn the lock back clockwise to open up the clamps.

Open up the arms so that the film roll and the empty spool can be inserted.

Fit the empty spool to the arm with the knur-led knob and the film roll to the other.

Now keep the thumb on the film roll and pull the film paper out about 4 in. The black side of the paper should be towards you.

Be sure to push the paper under the clamps. Turn the roll-holder lock counter-clockwise and the paper is locked in this position.

Fasten the paper to notice in this position. Fasten the paper tongue into the empty spool and turn the knurled knob so the paper lies flat. The loaded roll-holder can now be in-serted in the magazine. Turn lock clockwise



and then the holder will be locked and the paper released. Open the window at the rear of the magazine

Open the window at the rear of the magazine and wind the film with the loading key until figure "1" appears. Now turn the loading key counter-clockwise until stop when figure "1" will appear in the film counter window. The film indicator reminds wou of the film speed (ASA and DIN). By turning the centre part all types of film are figuratively marked

as: black and white, "sun" for daylight, "lamp" for tungsten "+" for positive and "-" for ne-gative color film. After the 12th picture the exposure button is automatically locked. Cock the shutter with the winding knob and the signals in camera and magazine will be on "white. Now wind up the film with the loading key.

the film with the loading key. Be sure that film and shutter signal windows are of the same color before attaching the magazine.

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Changing magazines

Press the lock button to the right and lift with your right hand when you want to detach the film magazine.

Attaching

To attach the magazine correctly, hook it on the lower tabs of the camera, push the button to the right, swing the magazine forward to the camera body and **press** the button to the left.

The slide

This is your safeguard against fogged film. Treat it carefully and free of dust. It is part of a foolproof system; when the slide is in you cannot fire the shutter (there are no missed shots with the Hasselblad), when the slide is out you cannot detach the magazine. Always insert the slide at right angles to the body of the camera to avoid light leakage.

Intentional double exposures

Designed to prevent accidental double exposure, the Hasselblad does permit them when you want to. Simply remove the magazine, cock the shutter again, and re-expose on the same film frame. To **remove** a lens, grasp the milled collar at its base with your right hand. Press the lens lock release, turn the lens 1/3 of a full turn counter-clockwise as far as it will go. Now lift the lens out.

To insert a lens, be sure the red-dot at the base of the lens mount is opposite the red dot on the camera. Turn the lens 1/3 of a full turn clockwise until the lock clicks. The lens will then be secured and, what is more, properly set for its focal length.

Changing lenses





adjustment

Connection for flash-bulbs for strobe

FLASH-BULBS	EXPOSURE TIMES			
	1/25	1/50	1/1000	1/250-1/1000
American types:			1	
No. 6, No. 26	- 1	3	4	5
No. 31, No. 2 A	5	5	5	5
European types:	0.00		1 1	
PF 24, S 2	-	3	4	5
PF 45	5	5	5	5

Nos. 6, 26, PF24 and S2 should not be used at 1/25. Note that ``1'` and `'2'' are out of use.

Type A = American contact

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This is the flash shoe with its "Flash" and "Strobe" contacts. Both A and D types available.

Be sure to use the proper contact for the type of light you are working with. There are two separate circuits.

This is the sports "viewfinder", described more fully on page 29. "Flash" and "Strobe" contacts are built into the base of the finder and eliminate the need of the standard flash attachment. Both A and D types available.

An attachment for "Flash" and "Strobe" lights is inserted in the bracket shown. Be sure the attachment is pushed in all the way - till it "clicks" - otherwise there will be no contact. Focal plane flash-bulbs should be used. Set the pointer for the synchronizer adjustment according to the table.

If the negatives should be less exposed on the side with the two small notches, move the pointer towards the next higher number. And vice versa.

For strobe, no adjustment is necessary. However, you must shoot at speeds (1/25 or slower) when the shutter is fully opened.

(Bulbs, class F, can be used with the "Strobe" contact, shutter at 1/25 or longer time. The unusual type of "Delayed" strobe equipment can be used with the "Flash" contact.)

When using contact type A, be sure that your flash gun is insulated from the camera.

Type D = German contact (PC)







Filters The HASSELBLAD original filters include correction-, contrast- as well as Haze- and Polarizer filters of homogeneous glass. The filters are mounted in a black-enamelled aluminium holder, matt-finished to absorb extraneous light. The same filters can be used for the 60, 80, 135 and 5.6/250 mm. lenses.

Color	Indication code	Uses:
Yellow	Y -1,5-50	Landscapes, snow, cloudy skies.
Yellow-green	YG250	Color effects, distance shots, green lighter.
Green	G -3 -50	Multicolored subjects, portraits.
Orange	O -4 -50	Sky contrast, absorbs ultraviolet.
Red	R -6 -50	Dark sky in e. g. architectural pictures.
Haze	HZ050	Precludes ultraviolet dominance e.g. in color pictures
Polarizer	POLA-2 -50	Eliminates reflections, corrects skylight.

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Cable release for time exposures

This 6-inches special Hasselblad cable release, apart from its use as a standard cable release, has a special locking device for long time exposures. For this latter purpose, first set the camera winding knob no "B". After screwing the cable release into the camera, depress the red pin on the side of the cable release, then press the button on the end — and the shutter is now opened. To complete the exposure, press the button on the extremely flexible wire wrapping of this fine cable release is protected against kinking by a strong and clear plastic cover.

Standard cable release

A fine precision-made cable release, measuring 10 inches in length and covered with fine nylon. Designed to give years of service.



Extension tubes

Available in two sizes: No. 20 and No. 40. Can be used separately or combined, for close-up photography, where greatly increased image size, up to actual size, is desired. Supplied with image, scale tables for 80mm and 135 mm lenses, shown on the next page.

Magnifying hood

The Magnifying Hood is provided with an easily turnable soft rubber eye-piece and a coated magnifier allowing 2½ power critical focusing. The magnifier is adjustable for individual eyesight. The magnifying hood permits accurate focusing even in intense light. It covers the whole picture area. Possible dioptre change \pm 3.5; f=80 mm.



Sports viewfinder

For action and sports photography, a frame "viewfinder" is available that fits into the universal accessory bracket on the left side of the camera. Parallax correction is provided for all lenses by sliding the aperture-sight along the graduated scale seen in the upper right of the picture below. For the 135mm and 250mm lenses, there are blue lucite masks that reduce the field of view, but permit you to follow the action right up to the instant of exposure. Flash and strobe contacts are built into the finder's base. (Two types available, see page 15).



Close-up photography

Close-up photog The data given in the table are for lenses set to in-finity. Extension tubes. No. 20=2 cm. No. 40=4 cm. The extension of the bellows can be read off in cm on the scale. **Application.** Application. The example given applies to a 135-mm. lens and a 7-cm. extension. Fol-low the thick, ver-tical line from "7-cm" down to the line against 135mm. and then to the right. This will indi-cate the following values: Magnifica-tion 0.5, increase in exposure time ei-ther 2.25 times or 1.1 stops and a depth of field of approx 7 mm. at f:11. Application.



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