


*HASSELBLAD*

1000 F




INSTRUCTION BOOK



*Allow us to congratulate you on your choice of a Hasselblad Camera. In the following instruction-pages, we show you its refinements and possibilities. It is our wish that you get – in pleasure and results – the most from your Hasselblad Camera.*

The starting point in creating the Hasselblad camera was a visionary idea: To construct a camera capable of meeting the demands of the expert professional and the enthusiastic amateur alike – a camera so flexible and so versatile, that it could deal with a great variety of photographic subjects – in short, a camera designed to do so many things that only this *ONE CAMERA* need be carried.

**The result was *the Hasselblad camera***



### ***It offers you***

a negative large enough to produce sharp enlargements of considerable size, yet small enough to be relatively inexpensive;

a reflex system capable of producing a clear ground-glass image – single lensed, to insure accurate composition and to eliminate problems of parallax;

an accurate climate-proof shutter with an adequate range of slow speeds and high speeds – fast enough to stop any action;

easily interchangeable lenses, firmly mounted, to obtain special effects or to deal with special situations;

internally synchronized systems for flash and speedlight photography;

**AND**

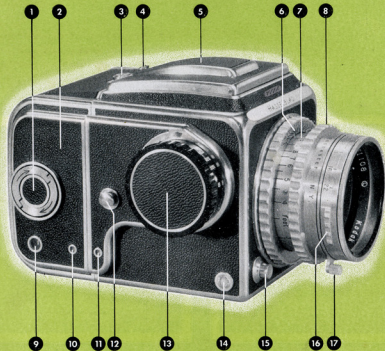
more than anything else, it offers you the possibility to shift rapidly from one film or emulsion to another.

Thanks to its ingenious construction and precision craftsmanship, the Hasselblad camera is now the camera for professionals, scientists, naturalists and the distinctive amateur.

Only the Hasselblad, leader in the  $2\frac{1}{4}'' \times 2\frac{1}{4}''$  single lens reflex field, offers the flexibility of interchangeable roll film magazines.

In a moment you can change from color film to black and white film, or to other types of emulsions for special effects.



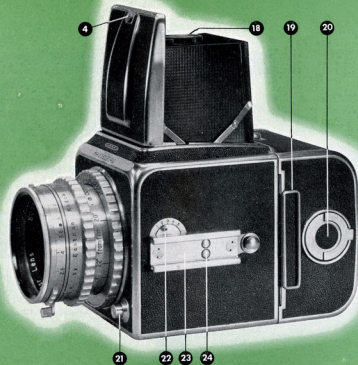


- ❶ Loading key p.19
- ❷ Interchangeable roll film magazine p.18, 20
- ❸ Magazine release button p.20
- ❹ Hood and magnifier release p.10
- ❺ Removable hood p.11, 26
- ❻ Depth of field scale p.15
- ❼ Focusing scale p.15
- ❽ Focusing ring p.14, 16
- ❾ Exposure counter p.19
- ❿ Exposed film signal p.12, 13
- ⓫ Shutter release signal p.12
- ⓬ Neck strap lug
- ⓭ Shutter winding knob p.12, 13  
Shutter setting p.13  
Automatic film transport p.13, 19
- ⓮ Cable release socket p.28, 29
- ⓯ Shutter release button p.16
- ⓰ Pre-selection of aperture p.14
- ⓱ Trigger p.14, 15, 16

*The p. numbers  
refer to pages  
in this manual*

*The p. numbers  
refer to pages  
in this manual*

- Hood and magnifier release p.10 **4**  
Magnifier p.10,11 **18**  
Magazine slide p.18, 20 **19**  
Roll holder lock p.18 **20**  
Lens release button p.21 **21**  
Synchronizer adjustment p.22 **22**  
Universal accessory bracket p.22 **23**  
Flash and strobe synchronizer connections p.22 **24**



Hood

Winding  
knob

Diaphragm  
Focusing

Holding  
the  
camera

Loading

Changing  
magazines  
& lenses

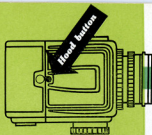
Flash  
& strobe

Lenses

Hood  
Tubes  
Filters

Other  
accessories

Cases



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. 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 toward 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 eye-glass 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 Ektalite Field 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.

Hood

Winding knob

Diaphragm Focusing

Holding the camera

Loading

Changing magazines & lenses

Flash & strobe

Lenses

Hood Tubes Filters

Other accessories

Cases



## 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).

Shutter winding knob  
Shutter setting  
Automatic film transport

Shutter release signal

Exposed film signal



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

## Shutter setting

Shutter speeds are selected by pulling the large winding knob out and turning it 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 addition to "B".

## Film advance

After loading the magazine, the film is automatically advanced by winding the shutter.

## The Signals

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 the shutter is released.

## 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".

Winding knob

Diaphragm Focusing

Holding the camera

Loading

Changing magazines & lenses

Flash & strobe

Lenses

Hood Tubes Filters

Other accessories

Cases





Trigger

Pre-selection of aperture

Focusing ring

### 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 you 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 check to be sure you've stopped down. If the red rectangle on the thin ring is opposite the red dot on the diaphragm scale, you have stopped down.

### Focusing scale

The distance between the subject and the *film plane* is indicated in feet (black) and inches (red). For infra-red film, the extremely small red dot between 2.8 and 4 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 you all the depth of field you want.

**Practise  
holding  
the camera  
this way**



Grasp it firmly in your *left* hand, pulling down slightly on the neck strap to prevent camera movement. Your *left* forefinger should be on the shutter release button, ready for action. Pressure on the release button is towards the body – downward jerking of the camera is avoided.



Use your right thumb and *middle* finger to revolve the focusing ring. Your right *fore*-finger should be kept on the trigger so that you can stop down quickly (see pages 14 and 15).

Reopen the diaphragm immediately after every exposure.



**Sports viewfinder**

For quick action-shots use the handy sports viewfinder. Hold the camera as shown. Excellent for snaps of children, sports, etc. (For further details see page 29).



**Carrying the camera**

Notice how the Hasselblad hangs from the neck-strap! Not only does the camera have better balance for ease in carrying, but the lens points down out of harm's way.

Holding  
the  
camera

Loading

Changing  
magazines  
& lenses

Flash  
& strobe

Lenses

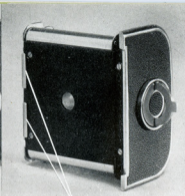
Hood  
Tubes  
Filters

Other  
accessories

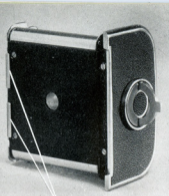
Cases



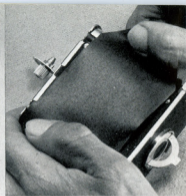
Roll holder lock opened



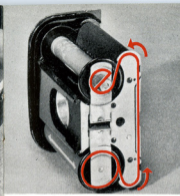
Roll holder partly pulled out



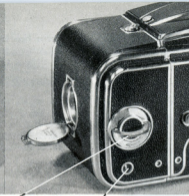
Clamps



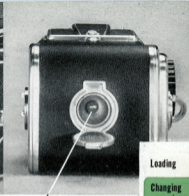
How to fit the paper under the clamps



How to thread the film



Loading key



Film window opened

## Loading the film magazine

Use 120 film. Cock the shutter if you have not already done so.

(If the slide is in, the rolled-over edge should be turned away from the magazine so as not to interfere when extracting and inserting the roll holder.)

Lift up the handle of the roll holder lock (see above), turn it to the left as far as it will go and lift out the roll holder.

Place the film, turned as shown by the red line, into the bottom spool-holder. Pull out about 5 inches of roll-film paper. Turn roll holder lock clockwise to raise the clamps. Thread the paper under the clamps and turn the roll holder lock counter-clockwise to lower the clamps. Fasten the paper to the empty spool, and turn knurled winding-knob till the paper is straight.

The film is now threaded as shown in the red line above.

(Notice how the threading of the film differs from the loading of other cameras. As it is against the curl of the film you are assured of the flattest film plane possible. Your pictures will be sharper.)

Push the holder into the magazine and lock it - turn the key to its normal position. Open the film window in the magazine back. Turn the loading key forward until "1" appears in the film window. Now

turn the loading key backwards until stop. The figure "1" then appears in the exposure counter window.

Close the film window and the camera is now ready for exposure. From now on, cocking the shutter after each exposure automatically advances the film.

After picture "12" is exposed, *cock the shutter* and both signals will remain white for the next film loading. Wind up the film roll with the loading key, take out the film holder, and unload the film.

Loading

Changing magazines & lenses

Flash & strobe

Lenses

Hood Tubes Filters

Other accessories

Cases

## Changing magazines



**Remember!** Wind the shutter after every exposure. Be sure that film and shutter signal windows are the same color before attaching the magazine.

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.

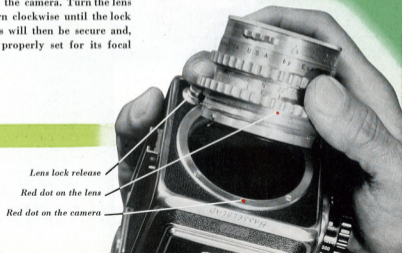
### Intentional double exposures

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  $\frac{1}{3}$  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  $\frac{1}{3}$  of a full turn clockwise until the lock clicks. The lens will then be secure and, what is more, properly set for its focal length.

## Changing lenses



Lens lock release

Red dot on the lens

Red dot on the camera

Changing magazines & lenses

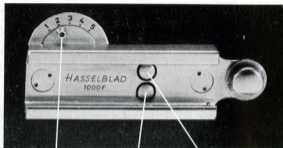
Flash & strobe

Lenses

Hood  
Tubes  
Filters

Other accessories

Cases



Synchronizer adjustment

Connection for flash-bulbs

Connection for strobe

FLASH-BULBS	EXPOSURE TIMES			
	1/25	1/50	1/100	1/250 — 1/1000
American types: *				
No. 6, No. 26	—	3	4	5
No. 31, No. 2 A	5	5	5	5
European types:				
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.

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.)

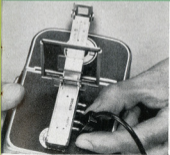
When using contact type A, be sure that your flash gun is insulated from the camera.



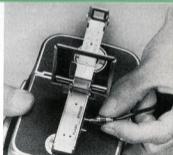
Type A  = American contact <img alt="German contact symbol: a triangle with a horizontal line through it" data-bbox="685 495 705 515"/> Two types available > Type D = German contact (PC)

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 "view-finder", 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.



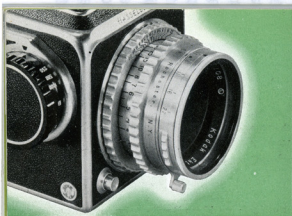
Flash & strobe

Lenses

Hood  
Tubes  
Filters

Other accessories

Cases



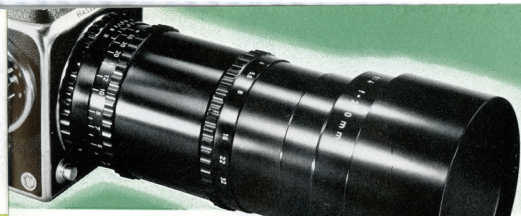
### **80mm standard lens**

This is the standard coated lens f/2.8 with pre-selector for the Hasselblad. This lens focuses down to 20" (50 cm) from the film plane - at which position, the picture is  $\frac{1}{4}$  actual size. Sunshade is built in. Series VII filters are used with this lens.



### **135mm lens**

This is a 135mm long-focus coated f/3.5 lens with pre-selector. This lens gives an image two-thirds as large again as the standard lens. Series VII filters and a sunshade are used with this lens. This lens focuses down to 40" (1 meter) from the film plane.



### **250mm lens**

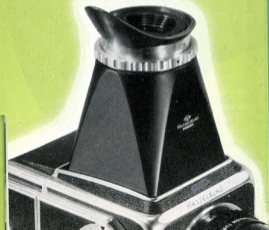
This is the "Big Bertha" for the Hasselblad: the Zeiss Sonnar 250mm (10") f/4 lens. Primarily intended for naturalists and sport-photographers, it is finished in black to avoid unwanted reflections. Portrait-photographers will find the increased focal length an advantage too, for the larger image allows working at a greater distance to avoid distortion. This lens focuses down to 8 feet from the film plane.

The 250mm lens comes equipped with its own lens shade, built so that the shade itself, with a cap, becomes the cover for the lens. Equipped with leather carrying case for additional protection and ease in carrying.

## Magnifying hood

A useful accessory containing a coated  $2\frac{1}{2}$  power critical focusing device for close-up work. One piece construction. Permits focusing in brilliant light by shutting out extraneous light. Slides in place of standard focusing hood. Covers full area of ground glass.

Cemented achromatic magnifier.  $f=95$  mm.



## Extension tubes

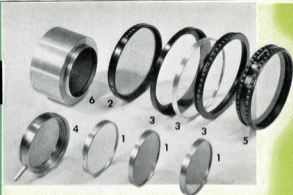
Available in two sizes: No. 20 and No. 40. Can be used singly or combined. For close-up photography, where greatly increased image size, up to actual size, is desired. Supplied with image scale tables for 80mm and 135mm lenses, shown on the next page.

### Effective F-values at short distances

Extension tube	None			No. 20			No. 40			No. 20+40		
Focusing scale at	32"	20"	$\infty$	32"	20"	$\infty$	32"	20"	$\infty$	32"	20"	$\infty$
Indicated f-number	EFFECTIVE F-VALUE APPROX.											
2.8	3.2	3.5	3.5	3.9	4.2	4.2	4.6	4.9	4.9	5.3	5.6	
4	4.5	5	5	5.5	6	6	6.5	7	7	7.5	8	
5.6	6.3	7	7	7.7	8.4	8.4	9.1	10	10	11	11	
8	9	10	10	11	12	12	13	14	14	15	16	
11	12	14	14	15	17	17	18	20	20	21	22	
16	18	20	20	22	24	24	26	28	28	30	32	
22	25	28	28	31	34	34	36	40	40	42	44	
Image scale	.13	.25	.25	.37	.5	.5	.63	.75	.75	.88	1	

Extension tube	None			No. 20			No. 40			No. 20+40		
Focusing scale at	5'	40"	$\infty$	5'	40"	$\infty$	5'	40"	$\infty$	5'	40"	$\infty$
Indicated f-number	EFFECTIVE F-VALUE APPROX.											
3.5	3.9	4.2	4	4.4	4.7	4.5	4.9	5.2	5.1	5.5	5.7	
4	4.5	4.8	4.6	5	5.3	5.2	5.6	5.9	5.8	6.2	6.5	
5.6	6.2	6.6	6.4	7.1	7.5	7.3	7.9	8.3	8.1	8.7	9.1	
8	8.9	9.5	9.2	10	11	10	11	12	12	12	13	
11	12	13	13	14	15	14	15	16	16	17	18	
16	18	19	18	20	21	21	23	24	23	25	26	
22	24	26	25	28	29	29	31	32	32	34	36	
Image scale	.12	.19	.15	.26	.33	.3	.41	.51	.44	.56	.63	

80 mm lens



135 mm lens

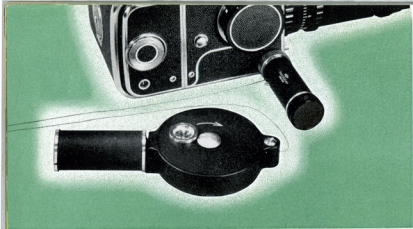
### Filters, pola-screens and sunshades

	80mm lens	135mm lens	250mm (10") lens
Filter	Standard Series VII (1)	Standard Series VII (1)	Special filters (2) or with Hasselblad Retaining Ring standard Series IX (3)
Pola-screen	Standard Series VII (4)	Standard Series VII (4)	Bernotar Polascreen (5)
Sun-shade	Built in. (Square standard Series VII can be added)	Standard Series VII (6)	Included with lens

Hood Tubes Filters

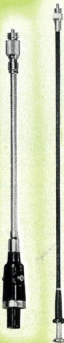
Other accessories

Cases



**Remote control.** One of the most ingenious accessories in the photographic field is this remote control device by which the camera can be fired up to 50 yds away! Indispensable in wild-life photography.

The "trigger attachment" is withdrawn from the handle housing and screwed into the cable release socket. A length of nylon cord is then pulled out. A slight pull (be sure the camera is firmly fixed!) and the shutter is fired. The cable is rewound by revolving the side plate on the housing in the direction of the arrow (just place finger in recessed space and turn). By pressing the screw top the cord can be rewound uniformly.



### **Cable release for time exposures**

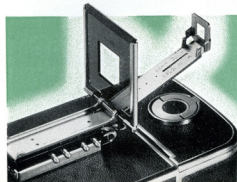
This 6-inches special Hasselblad cable release, apart from its use as a standard cable release, has a special locking device for long time exposures. For this latter purpose, first set the camera winding knob on "B". After screwing the cable release into the camera, depress the red pin on the side of 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 side of the cable release. 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.

### **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 23).







***Swedish eveready case,  
No. 101***

Rich natural leather with attractive saddle stitching. Designed for fast action. Openings for film counter, and for film and shutter indicators. Has compartment for safety slide in cover.



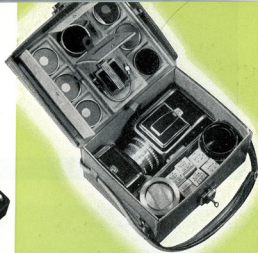
***Swedish combination case,  
small, No. 302***

Typical Swedish workmanship. Made of selected cowhide with genuine suede lining. Convenient small size, yet with space for camera, extra magazine, three filters, cable release, extra slide and two rolls of film.



***American combination  
case***

A fitted accessory case made of solid saddle leather. Holds camera, extra magazine, 135mm lens, eight Series VII filters, contact shoe, extra slide, cable release and two rolls of film.



***Swedish combination case,  
large, No. 301***

A suede-lined, fitted case that is the ultimate in hand-crafted Swedish leather work. Holds camera, extra magazine, 135mm lens, extension tubes, remote control, sports viewfinder, six Series VII filters, polarizing filter, meter and extra film.



You can personalize your Hasselblad by having your name engraved on the plate facing the film window. This plate is removable for engraving - no need to part with your Hasselblad while this is being done.



*Your Hasselblad is produced in Göteborg, Sweden by*

**VICTOR HASSELBLAD**  
*Åkrtiebolag*

Layout by AB Svenska Telegrambyrå  
Printed by Bergendahls Boktryckeri  
Göteborg, Sweden 1953