

Mamiya Universal

CAMERA



INSTRUCTIONS



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Special Pointers for Using Mamiya Universal

Refer to the following
pages for further details.

- 1.** The 100 mm f/3.5 lens is a retracting type. When the lens has been retracted, focusing cannot be effected although the two images on the rangefinder coincide. **Page 7**

- 2.** Always pull out the press focus lever after cocking the shutter. Push it in after adjusting the focus. **Page 15**

- 3.** When framing a 6×9 or 6×7 composition with the finder's brilliant frame, compose it within the inner edge of the frame width for short distances; use the outer edge as a guide for long distances. **Page 12**

- 4.** When taking photographs with the vertical format camera position, on a tripod, use a tripod adapter on the hand grip socket for vertical format photography. **Page 16**

- 5.** When taking photographs with the Polaroid® Land pack film holder, on a tripod, use tripod adapter type P. **Page 16**

- 6.** When taking photographs with the various accessories for the 2¼×3¼ Graflok® back, manufactured by GRAFLEX®, Inc., use the G adapter instead of the M adapter. **Page 10**

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MAIN FEATURES

The Mamiya Universal, the same unique breed as the Mamiya Press used by professional photographers both at home and abroad, is a large 6×9 film format camera with the functional features listed below. It offers the distinct advantage of its large film size not only for general photography, but also for news photography, commercial work, and scientific application.

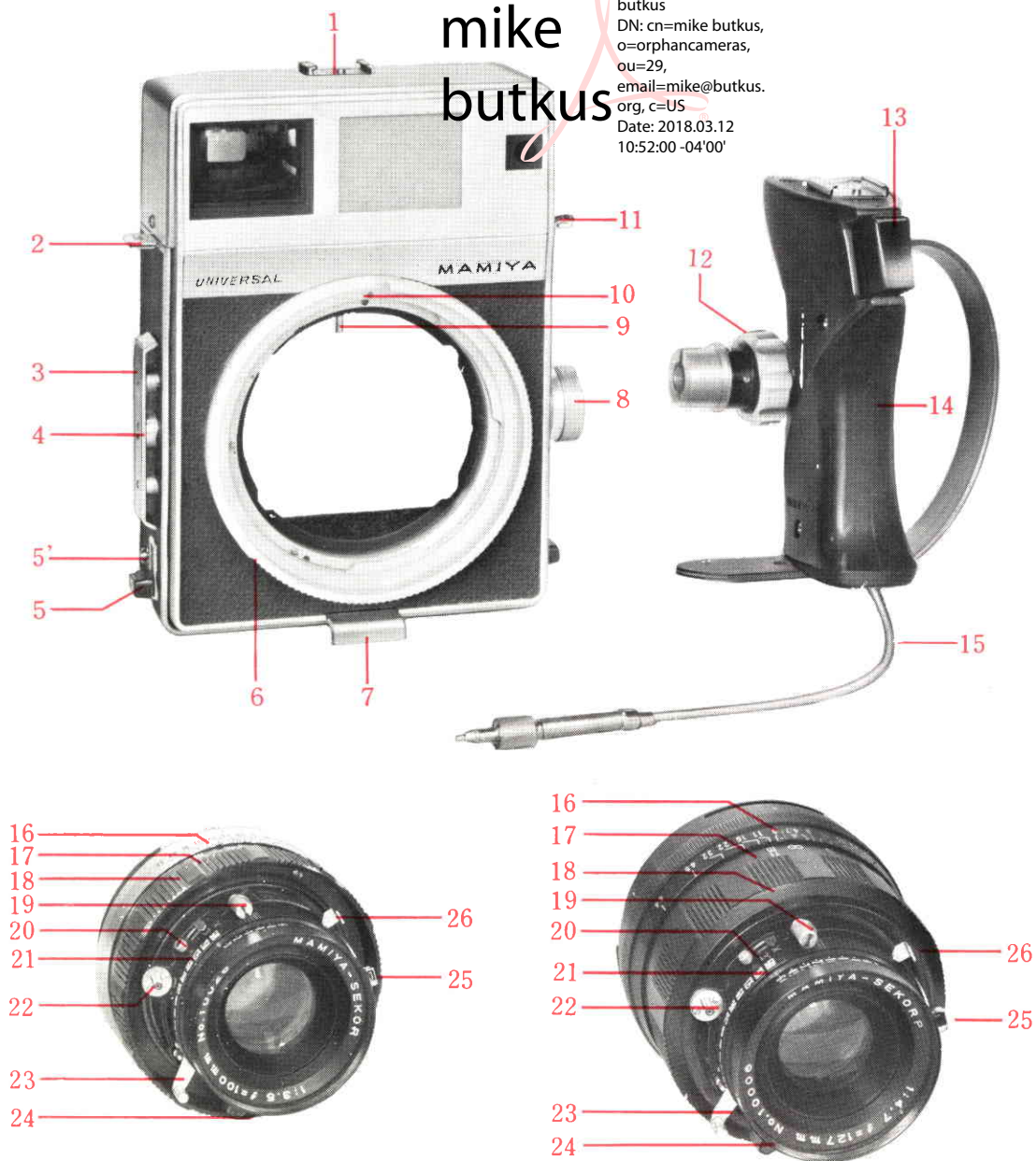
- * Large film size presents sharp, fine rendition of every detail.
- * Use of Polaroid Land pack film holder offers instant photographic prints in 3 ¼ × 4 ¼ inch format.
- * Variety of interchangeable lenses ranging from 50mm wide angle to 250mm telephoto.
- * Quick interchangeability of lenses with bayonet ring mounting.
- * Accurate focusing through coupled rangefinder (except 250mm f/8 lens).
- * Finder with bright, easy-to-see brilliant frame, featuring automatic parallax compensation (except 250mm f/8 lens).
- * Further accurate focusing through ground glass focusing screen possible.
- * Quick photography with roll film holder (lever winding system). Available in 6×9 and 6×7 format for both 120 and 220 films.
- * Roll film holder K enables photography in 6×9, 6×6, or 6×4.5 format.
- * Also accepts dry plates and cut films, providing for single shots with these films.
- * Film pack adapter makes possible successive photography with film packs.
- * Extreme close-up photography through using extension rings.
- * Easy-to-grasp hand grip with cable release for added versatility.
- * Many other accessories available for any type of photography.
- * G adapter enables using the various accessories for the 2 ¼ × 3 ¼ Graflok back made by GRAFLEX, Inc..



Nomenclature

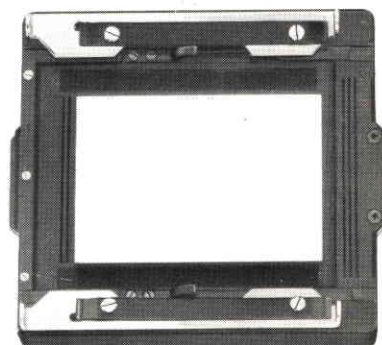
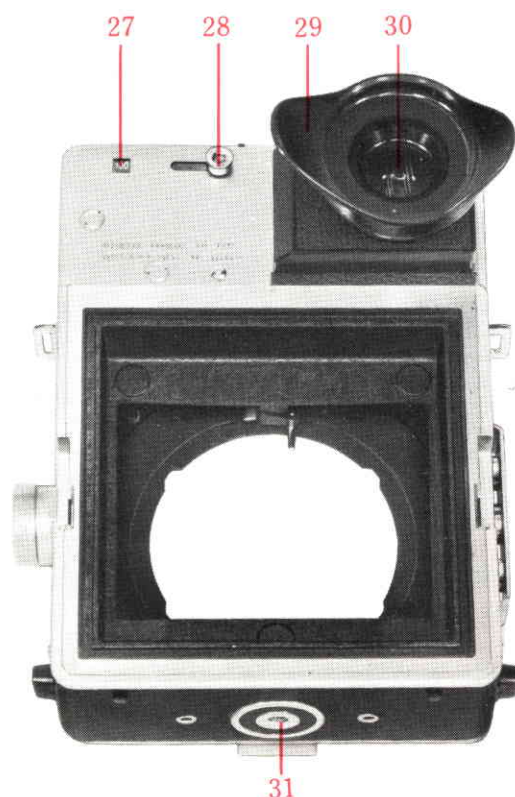
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1. Accessory shoe
2. Strap eyelet
3. Flashgun mount
4. Flashgun mounting socket
5. Back locking slide
- 5'. Lock button
6. Bayonet ring
7. Stabilizing plate
8. Hand grip socket

9. Rangefinder coupling pin
10. Lens coupling mark
11. Cable release holder
12. Hand grip lock ring
13. Shutter release trigger
14. Hand grip
15. Cable release
16. Depth of field scale
17. Distance scale
18. Aperture scale
19. Shutter speed scale
20. Lens mount
21. Lens mount
22. Lens mount
23. Lens mount
24. Lens mount
25. Lens mount
26. Lens mount



- | | |
|----------------------------|---|
| 18. Focusing ring | 27. Indicator window for viewfinder field frame |
| 19. Shutter cocking lever | 28. Slide button for viewfinder field frame selection |
| 20. M-X selector | 29. Eyecup |
| 21. Shutter speed dial | 30. Eyepiece |
| 22. Synchroflash terminal | 31. Tripod socket |
| 23. Shutter release lever | |
| 24. Aperture control lever | |
| 25. Cable release socket | |
| 26. Press focus lever | |

Attaching the Lens

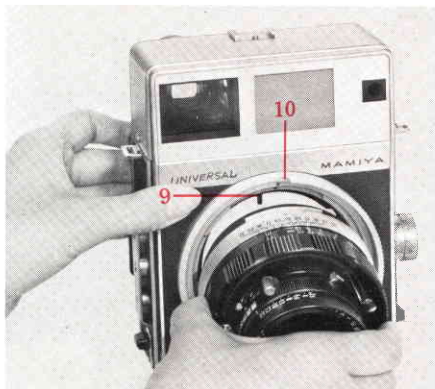
By rotating the bayonet ring counter-clockwise until it stops, the red dot of the lens coupling mark on the bayonet ring comes to the top, and the dust cap on the front of the camera body can be removed. At this position of the bayonet ring, insert the lens, matching the red mark on the lens to the red mark on the bayonet ring. Then turn the bayonet ring clockwise, locking the lens in place.

Detaching the lens is done in a reverse order to that described above.

PRECAUTION!

Do not touch the pin (9) on the camera body used to couple the lens to the rangefinder.

If the lens is changed while a loaded film holder is attached to the camera, be sure to insert a dark slide into the holder.



Pulling Out the Lens-shutter Assembly from its Retracted Position

When using the 100mm f/3.5 standard lens, the lens-shutter assembly must be pulled out from its retracted position before taking general photographs. Grip the lens-shutter assembly firmly, turn it slightly counterclockwise, and pull it out; then, turn it clockwise (in the arrow direction) and secure it in place.

If the lens-shutter assembly is left in its retracted position, the coupled rangefinder will not function even when the two images coincide and form a single image.

Although the lens is not used for normal photography with the lens-shutter assembly in its retracted position, the lens is designed to allow its lens-shutter assembly to remain retracted so that it can be used even when extension rings are used.



Also lens retraction is necessary, when using this lens with another camera whose back mount can be extended, when taking a picture with the back mount tilted.

Attaching the Hand Grip

To attach the hand grip, insert the hand grip into the grip socket (8) of the camera body, and firmly turn the hand grip lock ring (12).

Screw the end of the cable release (15) extending from the hand grip into the release socket (25) of the lens-shutter assembly.

While dismounting a lens, hang the cable release on the cable release holder (11).



Stabilizing Plate

Pull out the stabilizing plate (7) on the bottom of the camera body when resting the camera on a desk, table, or other surface.

Attaching the Back

Before attaching the back, confirm that both side locking slides (5) are kept at their lowest position. If not, push down the locking slide while pushing in the lock button (5').

Align the red point on the M adapter, G adapter, or Polaroid Land camera back (Polaroid Land pack film holder and focusing hood model P) with the red point on the camera body, inserting both sides of the protruded portions to the indented portions on the camera body.

Securely push up the locking slide on both sides. While pushing up the slide, the lock button will spring out automatically. The lock button functions to prevent the back from being detached unexpectedly from the camera body.

Secure both sides of the back by using the locking slides (5). Do not raise the camera by holding the back in a condition that only one side is secured.



To remove the back, depress both side locking slides (5) while the lock buttons (5') are pushed in.

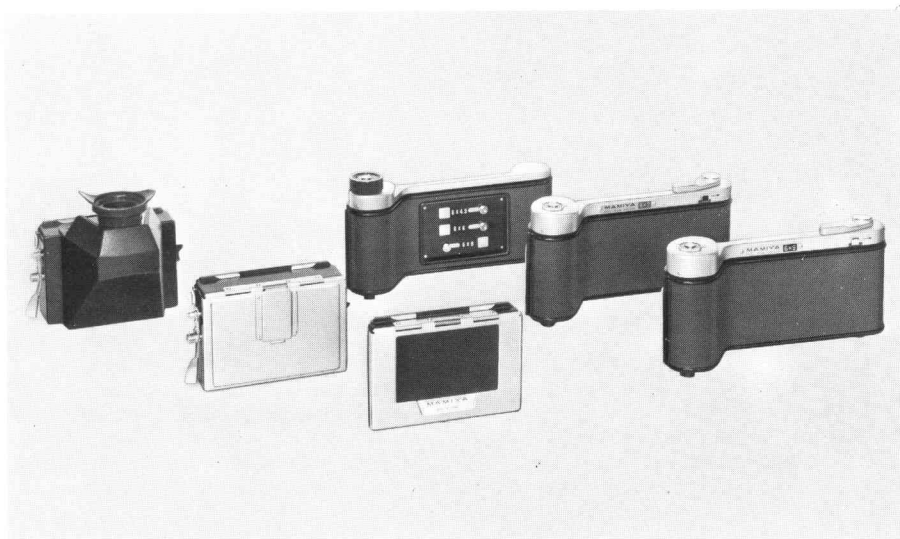
When the M Adapter is Attached

Before attaching accessories to the M adapter, turn the two lock knobs to align their flattened edges horizontally. At this position, insert the upper side of the holder into the groove on the top of the M adapter; then press the bottom of the holder, and secure it by turning the lock knobs 90 degrees. To remove the holder; turn the two lock knobs to align their flattened edges horizontally, and pulling up on the bottom of the holder to remove it.



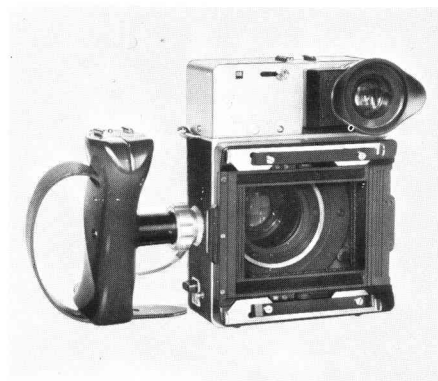
Accessories Attachable to the M Adapter

Various roll film holders, focusing hood, focusing screen holder, and right-angle focusing back can be attached to the M adapter.

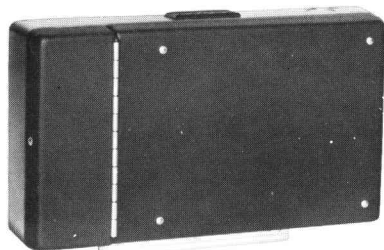
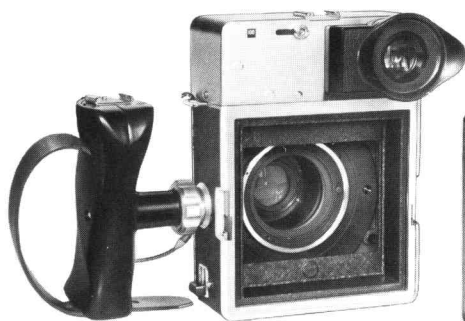


When the G Adapter is Attached

When the G adapter is attached instead of the M adapter, various accessories for the $2\frac{1}{4} \times 3\frac{1}{4}$ Graflok back (such as the Graphic roll film holder, the film pack adapter and the focusing panel made by Graflex, Inc.) can be employed.



Using the Polaroid® Land Camera Back



Remove the camera back adapter and attach the Polaroid Land camera back directly to the camera body. The Polaroid Land pack film holder, and the focusing hood model P are available.

With the Polaroid Land pack film holder, use an Polaroid 8-exposure, $3\frac{1}{4} \times 4\frac{1}{4}$ inch Land film pack. For color photography, use Polaroid Polacolor® film type 108; for black-and-white photography, use Polaroid 3000 speed film, type 107.

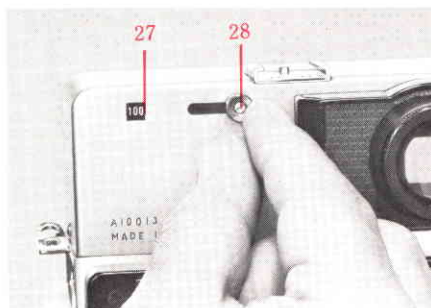
By attaching the focusing hood model P, direct focusing through the ground glass focusing screen of $3\frac{1}{4} \times 4\frac{1}{4}$ inch format (effective picture size of $2\frac{7}{8} \times 3\frac{3}{4}$ inch, 73mm $\times$ 95mm) becomes possible. On the ground glass focusing screen are 6 $\times$ 9 and 6 $\times$ 7 format indicating lines.

NOTE:

The back attaching system used on this camera is exclusive with Mamiya; thus, do not attempt to use other Polaroid Land camera backs.

Selecting Brilliant Frame in the Viewfinder

The viewfinder field frame, indicating the field for 6×9 and 6×7 formats, is adjustable for 100mm, 150mm and 250mm focal length lenses. By sliding over the slide button (28), adjust the number in the indicator window (27) to match the focal length of the using lens.



Focusing with Coupled Rangefinder

Within the small circle in the center of the viewfinder field two images of the subject are visible. Turn the focusing ring so that these two images coincide.

When focusing, coincide the double images at the center of the circle. Looking through the center of the eyepiece is also a key point in accurate focusing. When turning the focusing ring of the lens barrel, be careful not to turn the bayonet ring of the camera body.

When the lens-shutter assembly is in a retracted position, or when extension rings are used, the rangefinder will not function even though the double images coincide.



Parallax

Brilliant frames in the viewfinder for 100mm, 150mm and 250mm lenses are coupled with the rangefinder to automatically correct parallax. The 250mm f/8 lens cannot be coupled with the rangefinder.

Areas of Viewfinder Field to be Composed

When composing the 6×9 or 6×7 format with the viewfinder frame, employ inside edges of the frame for subjects at close distance; use the outer edges of the frame for subjects further away.

Distance Range Composed by Brilliant Frame

Focal length of lens	For close ranges, use inside edges of frame	For distances further away, use outside edges of frame
100mm f/2.8 f/3.5	3.5 ft to approx. 6 ft (1 m) (2 m)	approx. 6 ft. to infinity (2 m)
150mm f/5.6	6 ft. to approx. 9 ft. (2 m) (3 m)	approx. 9 ft. to infinity (3 m)
250mm f/5	—	approx. 12ft. to infinity (4 m)

6×9

Close range

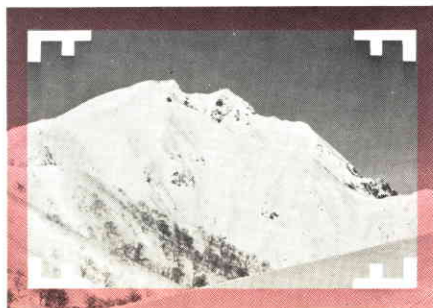


6×7

Close range



Further distance



Further distance



Deciding the Field Composition

Since the Polaroid film pack photographs a wider area than does the viewfinder field frame of the 6×9 cm format, compensate the field composition in the following manner, depending on the focal length of the lens to be used. For accurate field composition, use the focusing hood model P. Also, the optical viewfinder model P for 75mm, 100mm, and 127mm lenses is available to ensure accurate field of view.

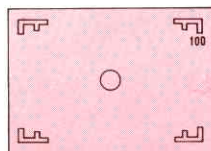
The 127mm focal length lens is designed to cover the entire picture area of the Polaroid film pack ($3\frac{1}{4} \times 4\frac{1}{4}$ inch format). However, since other ordinary Mamiya Press lenses are designed for the 6×9 cm format, if these lenses are used with the Polaroid film pack, the four corners of the format may be slightly darkened.

Using the Viewfinder Frame of the Camera Body

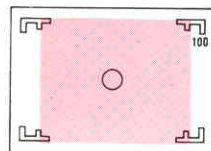
For 100mm and 127mm lenses, use the viewfinder frame of the camera body.

For 100mm lens, use the viewfinder entire area. In this case, the actual picture area covers a slightly wider field.

For 127mm lens, use the 6×7 format brilliant frame for the 100mm lens as a guide.



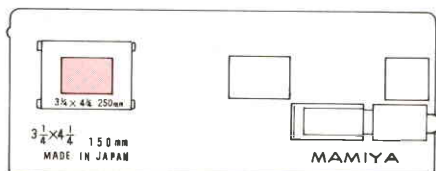
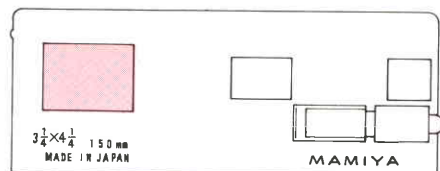
When using 100mm lens



When using 127mm lens

Method of Using the Finder Mask

For 150mm and/or 250mm focal length lenses, correct the viewfinder area by attaching a finder mask to the finder window. The finder mask is designed to produce a $3\frac{1}{4} \times 4\frac{1}{4}$ inch format field for the 150mm lens. For the 250mm lens, further attach a mask for the 250mm lens.



Using an Optical Viewfinder for the 50mm Lens

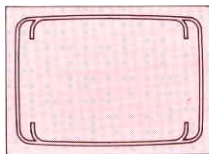
For either 50mm or 65mm wide angle lenses, attach the optical viewfinder for the 50mm lens to the accessory shoe.

For the 50mm lens, use the entire area in the finder.

For the 65mm lens, use the 6×7 format brilliant frame in the finder.



When using 50mm lens



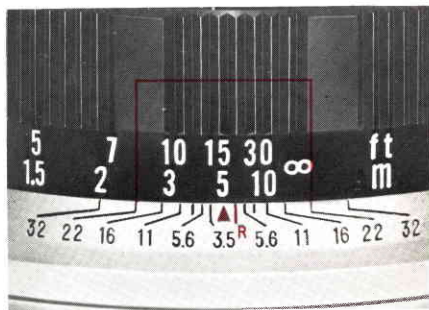
When using 65mm lens



Depth of Field Scale and Infrared Photography

Depth of Field Scale

Standard f-stop marks, indicating the depth of field for the aperture used, are located on both sides of the triangle mark ($\blacktriangle$) on the depth of field ring. This indicates that subjects within a definite area will be in sharp focus on the photograph. For example, when focusing on a subject 15 feet (5 meters) away with a 100 mm standard lens at $f/22$, everything between 8 feet (2.5 meters) and infinity is in focus.



Infrared Photography

When photographing with infrared film, the distance scale obtained by focusing with the rangefinder must be shifted by rotating the focysing ring slightly until the focused point on the distance scale (17) is changed to align with the small red "R" on the depth of field ring.

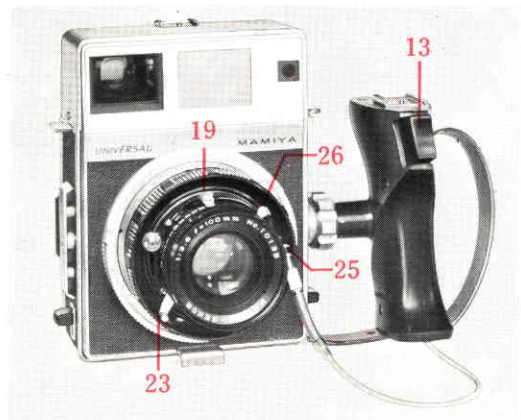
Use a red filter when photographing with infrared film.

Shutter Operation

Cock the shutter by moving the shutter cocking lever (19).

Screw the end of the cable release which extends from the hand grip into the cable release socket (25).

To release the shutter, press the shutter release trigger of the hand grip with the left forefinger. Also, the shutter can be released by tripping the shutter release lever (23).



Press Focus Operation

(Keeping the Shutter Open for Focusing by Focusing Screen)

1. Cock the shutter, regardless of the shutter speed setting.



2. By pulling out the press focus lever (26), the shutter will remain open.

By pushing back the press focus lever firmly to its original position, the shutter will close. There is no need to reset the shutter.

PRECAUTION:

Be sure to pull out the press focus lever AFTER cocking the shutter.

Do not release the shutter while the press focus lever is pulled out.



Using a Tripod

A U- $\frac{1}{4}$ inch tripod socket (31) is recessed on the bottom of the camera body. For photographing horizontal format pictures on a tripod, mount the camera on the tripod with this tripod socket.

Tripod Adapter for Photographing Vertical Format Pictures

For photographing vertical format pictures on a tripod, remove the hand grip from the camera body and attach this tripod adapter (T1) to the socket.



Tripod Adapter Type P

This tripod adapter is a necessity when using the Polaroid Land pack film holder. If the camera is attached directly to a normal tripod, the dark slide contacts the tripod and cannot be pulled out. In this case, use this tripod adapter to enable pulling out the dark slide. This tripod adapter can be used together with a quick-shoe.

Quick-shoe

By attaching a quick-shoe to the tripod while tripod adapter type P is attached to the camera body, the camera can easily be mounted onto the tripod simply by inserting the adapter into the quick-shoe, then clamping the lever.



SPECIFICATIONS

Camera Body, Standard Lens, and Hand Grip

Lens :

Mamiya-Sekor 100 mm f/3.5, retracting type, black finish; with lens hood, f-stops; 3.5, 4, 5.6, 8, 11, 16, 22, 32

Mamiya-Sekor 127mm f/4.7, with lens hood, f-stops; 4.7, 5.6, 8, 11, 16, 22, 32, 45, 64

Shutter :

Shutter speeds; B, 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 sec.

Flash synchronization; M and X selecting type

Press focus type (Shutter blade arresting)

Lens mount :

Breech lock bayonet mount

Viewfinder :

Adjustable brilliant frame fields for 100 mm, 150 mm, and 250 mm lenses; 6×9 and 6×7 formats; automatic parallax compensation

Rangefinder :

Coupled double-image coincidence type; instant coupling to selected lens

Back mount :

Interchangeable back; M adapter, G adapter, and Polaroid Land camera back can be attached

Hand grip :

Removable hand grip with cable release

Physical dimensions :

(camera body, with 100mm f/3.5 lens)

Height: 6 $\frac{1}{32}$ in. (167 mm)

Width: 4 $\frac{3}{32}$ in. (121 mm)

without hand grip

Depth: 4 $\frac{3}{32}$ in. (104 mm)

lens in retracted position,
distance scale at infinity

Weight :

Camera body: 2 lbs. 1 $\frac{3}{4}$ oz. (950 gr.)

100 mm f/3.5 lens: 1 lb. 1 oz. (480 gr.)

127 mm f/4.7 lens: 1 lb. $\frac{5}{16}$ oz. (470 gr.)

Hand grip: 10 $\frac{3}{16}$ oz. (300 gr.)

Lenses and Shutters for Mamiya Universal

All lenses equipped with Seikosha #0 shutter, full M-X flash synchronization.

In the following table; lenses with an asterisk have a gleaming chrome-plated, front reading type, shutter speed dial; lenses with a double asterisk have a black-finished, side reading type, shutter speed dial.

Two different types of lenses have different filter attachment sizes, hood

attachment sizes, and different shutter blade arresting systems. When purchasing filters and/or lens hoods, always specify the type of lens and filter diameter.

The 250mm f/8 lens does not couple to the rangefinder of the camera body. For focusing, use personal calculation or a focusing screen.

Lens	Lens construction	Angle of view		Minimum aperture	Filter attachment size	Lens hood	Shutter blade arresting
		6×9 cm	6×7cm				
50mm f/6.3	5-group 8-element	89°30'	81°40'	32	**72mm	Clamp-on	Time lock
65mm f/6.3	4-group 4-element	75°40'	67°50'	32	* 43mm	None	Time lever
100mm f/3.5	3-group 4-element	53°30'	47°30'	32	**55mm * 40.5mm	**Screw-in *Clamp-on	Press focus
100mm f/2.8	4-group 6-element	53°30'	47°30'	32	**72mm	Clamp-on	**Press focus * Time lever
127mm f/4.7	3-group 4-element	43°30' ★50°50'	38°40'	64	**55mm	Screw-in	Press focus
150mm f/5.6	3-group 4-element	37°10'	32°40'	45	**55mm * 40.5mm	**Screw-in *Clamp-on	**Press focus * Time lever
250mm f/5	4-group 6-element	22°50'	20°10'	45	**105mm	Clamp-on	Time lever
250mm f/8	4-group 6-element	22°50'	20°10'	64	**55mm	Screw-in	Press focus

★ Indicates angle of view for the Polaroid film pack format.

* Indicates chrome-finish lenses.

** Indicates black-finish lenses.

The screw-in type lens hood for 100mm f/3.5 and 127mm f/4.7 lenses can be used commonly.

ACCESSORIES

M Adapter

For attaching the following accessories—Roll film holder 6×9 or 6×7, Roll film holder model K, Focusing hood, Focusing screen holder, Right-angle focusing back.

6×9 cm Roll Film Holder

Accepts both No. 120 and No. 220 roll films. Number of exposures per roll; 8 on No. 120, 16 on No. 220. Film advancing by film advance lever in two strokes. Automatic film stop.

Automatic resetting film counter.

6×7 cm Roll Film Holder

Number of exposures per roll; 10 on No. 120, 20 on No. 220. Other features are the same as 6×9 cm roll film holder.

Roll Film Holder Model K

Accepts 120 film

Changeable picture format:

6×9, 6×6, or 6×4.5 sizes

Number of exposures per roll:

6×9 8 exposures

6×6 12 exposures

6×4.5 16 exposures

Film advancing by rotating film advance knob.

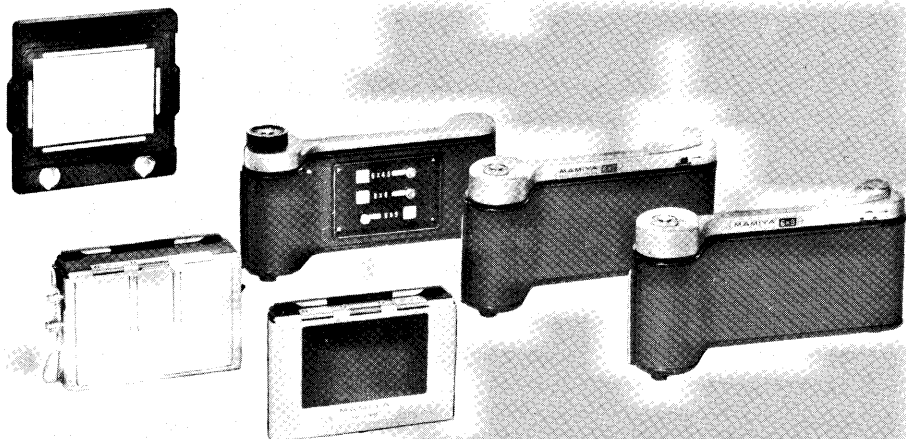
Exposure number indicating window on back cover.

Focusing Hood

Focusing screen with Fresnel lens for direct viewing in format; leather hood.

Focusing Screen Holder

Direct viewing on focusing screen possible. Quick insertion of cut film/plate holder and film pack adapter possible.



Right-angle Focusing Back

Enables looking into focusing screen vertically against the optical axis; with Fresnel lens and eyecup. Insertion of cut film/plate holder and film pack adapter possible.

Cut Film/Plate Holder (Type J)

Holder for single exposures.

Cut film adapter frame furnished; this adapter frame is suitable when using a quarter size of $4\frac{3}{4} \times 6\frac{1}{2}$ inch (12×16.5 cm) cut film.

Dry plate; $2\frac{1}{2} \times 3\frac{1}{2}$ inch (6.5×9 cm).

Cut film; $2\frac{1}{2} \times 3\frac{1}{2}$ inch (6.5×9 cm) or quarter size of $4\frac{3}{4} \times 6\frac{1}{2}$ inch (12×16.5 cm).

Cut Film/Plate Holder (Type A)

Holder for single exposures.

Cut film adapter frame furnished; this adapter frame is suitable for $2\frac{1}{4} \times 3\frac{1}{4}$ inch cut film.

Dry plate; $2\frac{1}{2} \times 3\frac{1}{2}$ inch (6.5×9 cm).

Cut film; $2\frac{1}{4} \times 3\frac{1}{4}$ inch.

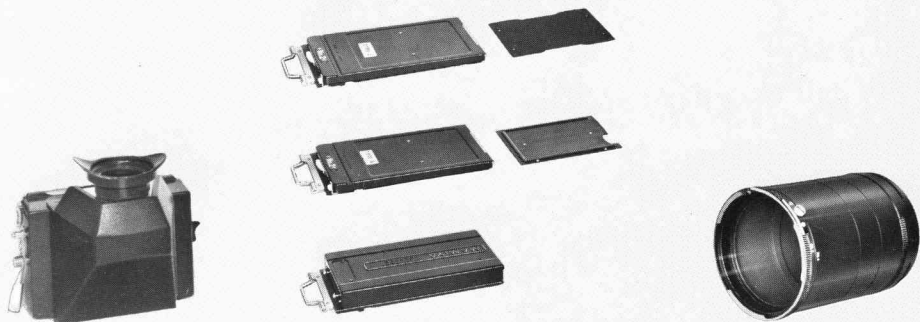
Film Pack Adapter

Used for $2\frac{1}{2} \times 3\frac{1}{2}$ inch (6.5×9 cm) or $2\frac{1}{4} \times 3\frac{1}{4}$ inch film pack.

Extension Rings

For close-up photography.

Set of five intermediate rings.



G Adapter

Adapter for attaching the Graphic film holders and/or the focusing panel.

Polaroid Land Pack Film Holder

Nominal size; $3\frac{1}{4} \times 4\frac{1}{4}$ inch.

Accepts Polaroid Land film packs 100 series.

Type 107 film pack; Black and white, 8 exposures.

Type 108 film pack; Color, 8 exposures.

Focusing Hood Model P

Enables looking into $3\frac{1}{4} \times 4\frac{1}{4}$ inch format focusing screen with Fresnel lens.

6×9 and 6×7 format indicating lines on focusing glass.

Furnishing detachable hood.

Optical Viewfinder Model P

for 75mm, 100mm, and 127mm lenses

To ensure accurate field of view of Polaroid film pack ($3\frac{1}{4} \times 4\frac{1}{4}$ inch format).

Lens hood

Exclusive for each lens; however, 100 mm f/3.5 (black finish) lens hood can also be used for 127mm f/4.7 lens.

65 mm lens does not require hood.

Filters

Y2, YG, O2, UV, and SL for each lens.

For filter attachment size, refer to page 18 on Lenses and Shutters for Mamiya Universal.

ND filters are prepared in 16X for 40.5 mm, 55 mm and 72 mm diameter.

Sports Finder for 6×9 Format

(Commonly used for Mamiya Universal and Super 23)

Frame size ... for 100mm and 150mm lenses.

Sports Finder for 6×7 Format

(Commonly used for Mamiya Universal and Super 23)

Frame size ... for 100mm and 150mm lenses.



Optical Viewfinder for 50 mm lens

(Commonly used for Mamiya Universal and Super 23)

Optical Viewfinder for 65 mm lens

(Commonly used for Mamiya Universal and Super 23)

Flashgun

BC type, with battery, capacitor, and flashgun mounting piece.

Flashgun Mounting Piece

Mounting Bracket for Graflex Flashgun

Mounting Bracket for Heiland Flashgun

Tripod Adapter

For Vertical Format Photography.

Tripod Adapter Type P

Possible to use this tripod adapter combined with quick-shoe. For both U- $\frac{1}{4}$ and $\frac{3}{8}$ inch tripod screw.

Quick-Shoe

For both U- $\frac{1}{4}$ and $\frac{3}{8}$ inch tripod screw.

Hand Grip

With Cable Release.

Eyecup

Strap

Mamiya Cutter

For quarter format of 4 $\frac{3}{4}$ $\times$ 6 $\frac{1}{2}$ inch (12 $\times$ 16.5 cm) size cut film.

Compartment Case

