

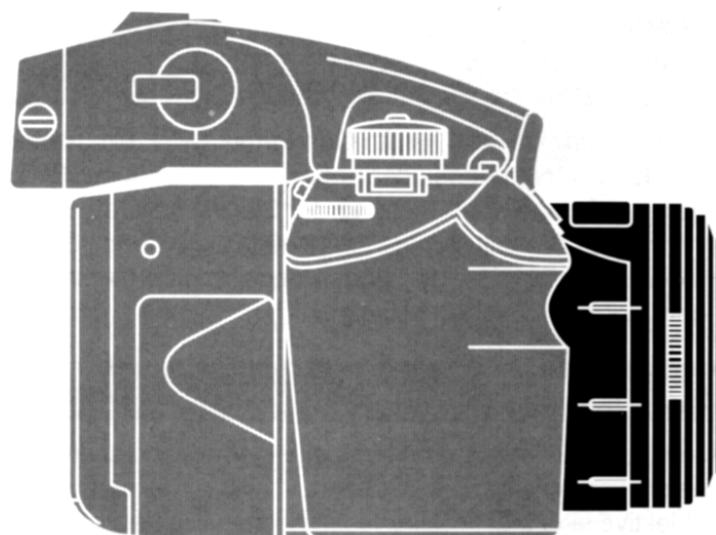
645AF

AF 交換レンズ

Interchangeable Lenses

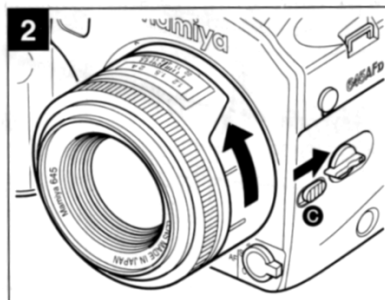
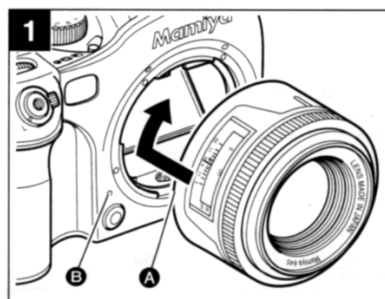
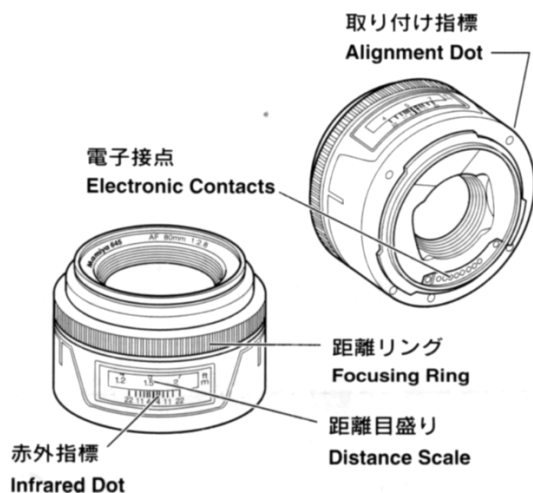
Wechselobjektive

Objectifs interchangeables



| | |
|----------|---------------------|
| 日本語 | 使用説明書 |
| English | Instructions |
| Deutsch | Bedienungsanleitung |
| Français | Mode d'emploi |

各部の名称 / Name of parts



Thank you for purchasing a Mamiya product.

To use the camera at its maximum performance, read the instruction manual thoroughly before use so that you can use the camera correctly based on full understanding of its functions and controls.

After reading, retain the manual in an easily accessible location for future reference.

Attaching / Removing the Lens onto / from the Camera

Attaching

1. Remove the camera's body cap and the lens's front / rear caps.
2. Mount the lens.

Align the lens's alignment dot **A** with the camera's alignment dot **B**, fit the lens into the camera and rotate the lens in the direction of the arrow until it stops. When a click sound is generated, the lens is mounted onto the camera. (Fig 1)

★During AF operation, do not touch the rotary parts such as the distance ring.

Removing

While holding down the lens release button **C**, rotate the lens in the direction of the arrow until it stops, and release the lens from the camera. (Fig 2)

★After removing the lens from the camera body, protect them by attaching the caps.

★To prevent contact failure or corrosion, do not leave stain, scratch or fingerprint on the electronic contacts.

Diaphragm aperture

The aperture value is controlled on the camera.

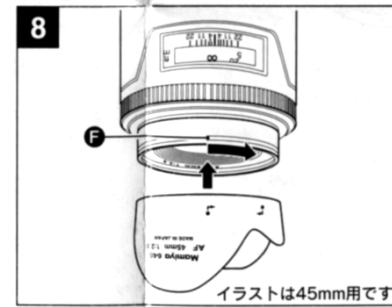
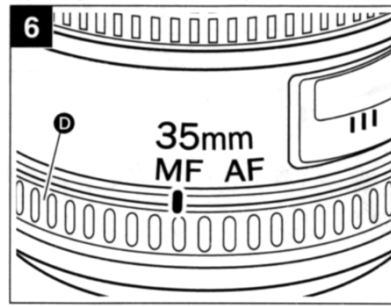
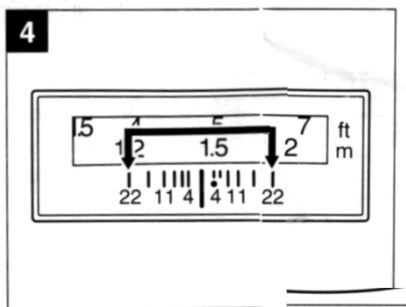
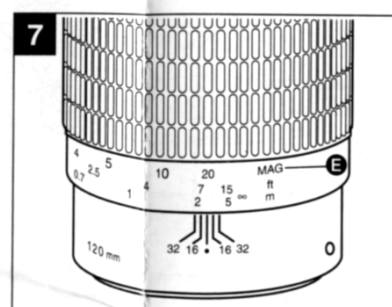
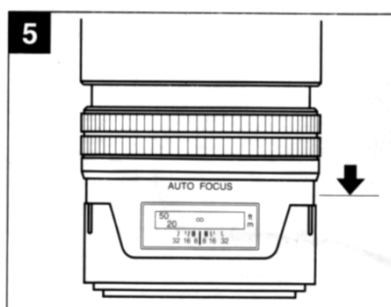
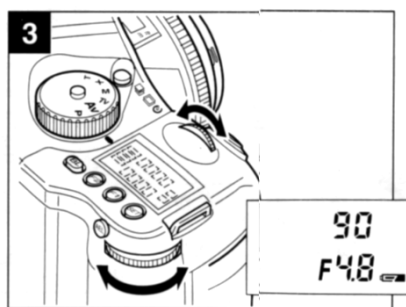
Set the exposure mode setting dial to "Av" (iris-priority AE), then rotate the dial aperture ring to set the desired aperture value. The aperture value can be varied in 1/2 steps. (Fig 3)

Depth-of-field

The Depth-of-field refers to the total area which will appear in focus. This area increases when the lens aperture is de-

645AF Interchangeable Lenses

| | Lens | Optical Construction | Angle of View | Minimum Aperture | Diaphragm | Focus adjustment | Minimum Focusing Distance | Magnification | Area Covered | Equivalent focal-length 35mm | Filter Size | # of filters usable without vignetting | Lens Hood | Dimension Weight |
|---|-------------------------------|--------------------------|---------------|------------------|-----------|----------------------|---------------------------|---------------|------------------------------------|------------------------------|-------------|--|-----------|--------------------|
| ① | AF35mm f/3.5 | 9 elements 7 groups | 90° | 22 | Automatic | Auto Focus Manual | 35cm | 0.15x | 274 x 375mm | 22mm | 77mm | 1 | Bayonet | 62x84mm 480g |
| ② | AF45mm f/2.8 | 9 elements 7 groups | 74° | 22 | Automatic | Auto Focus Manual | 45cm | 0.13x | 310 x 418mm | 29mm | 67mm | 1 | Bayonet | 73.5x77mm 495g |
| ③ | AF55mm f/2.8 | 7 elements 6 groups | 64° | 22 | Automatic | Auto Focus Manual | 45cm | 0.18x | 226 x 305mm | 34mm | 58mm | 2 | Bayonet | 65.5x77mm 445g |
| ④ | AF80mm f/2.8 | 6 elements 5 groups | 47° | 22 | Automatic | Auto Focus Manual | 70cm | 0.15x | 279 x 377mm | 50mm | 58mm | 2 | Bayonet | 49.5x77mm 300g |
| ⑤ | AF150mm f/3.5 | 5 elements 5 groups | 26° | 32 | Automatic | Auto Focus Manual | 150cm | 0.12x | 341 x 461mm | 93mm | 58mm | 2 | Bayonet | 80.5x79mm 540g |
| ⑥ | Macro MF120mm f/4 | 9 elements 8 groups | 33° | 32 | Automatic | Manual | 40cm | 1.00x | 42 x 56mm | 73mm | 67mm | 2 | Bayonet | 111x83mm 845g |
| ⑦ | AFULD210mm f/4IF | 7 elements 5 groups | 19° | 32 | Automatic | Auto Focus Manual | 200cm | 0.13x | 332 x 448mm | 128mm | 58mm | 2 | Built-in | 141x86mm 750g |
| ⑧ | Zoom AF55-110mm f/4.5 | 11 elements 10 groups | 65°-35° | 32 | Automatic | Auto Focus Manual | 150cm | 0.04-0.08x | 55-986 x 1331mm 110-520 x 702mm | 34-68mm | 67mm | 1 | Bayonet | 110x86.5mm 870g |
| ⑨ | Zoom ULD AF105-210mm f/4.5 | 13 elements 11 groups | 36°-19° | 32 | Automatic | Auto Focus Manual | 150cm | 0.09-0.18x | 105-441 x 595mm 210-230 x 312mm | 65-130mm | 58mm | 1 | Bayonet | 158x82mm 990g |
| ⑩ | AFAPO300mm f/4.5IF | 8 elements 8 groups | 14° | 32 | Automatic | Auto Focus Manual | 300cm | 0.11x | 371 x 500mm | 182mm | 77mm | 2 | Built-in | 213x98mm 1430g |



creased (f/8..11..16..22) and decreases when the aperture is increased (f/8..5.6..4..2.8). (Fig 4)

The Depth-of-field value is indicated by the Depth-of-field scale engraved on both the left and right-hand sides of the reference mark on the lens.

Focusing with 645 AF Tele & Zoom Lenses

Autofocus Use:

The manual-focusing collar of these lenses has a double function. When it is in the forward position on the lens barrel, the engraving "AUTO FOCUS" will be visible. This is the autofocus mode when the Focus Mode Selector Lever is on the "S" or "C". The focusing collar cannot be turned manually in this position.

Manual Use:

The collar must be pulled backward, to cover the engraving. When the focus ring is pulled backward, the mode switches to the manual focus mode, and "MF" is displayed on the external liquid crystal display panel when the shutter button is half-pressed. (Fig 5)

Focus mode select function

The 35mm lens changes the focus mode between auto (AF) and manual (MF) by turning the AF/MF selector ring (D) of the lens. (Fig 6)

★Before selecting auto focus mode, turn the focus mode selector lever on the camera body to the "S" or "C" position. When it is in the "M" position, the lens cannot enter auto focus mode by turning the AF/MF selector ring.

Macro MF 120mm f/4 lens

The macro lens should be focused in manual mode so that the focus mark lights on the external liquid crystal display panel in the viewfinder.

★The focus mark may not light under certain shooting conditions.

Magnification

The abbreviation MAG (E) stands for magnification.

The MAG number is a reciprocal one, which means No.20 shows the object is shot in the size of 1/20, No.10 in the size of 1/10 and No.1 in the life size.(Fig 7)

Mounting bayonet type lens hood For 45mm Lens

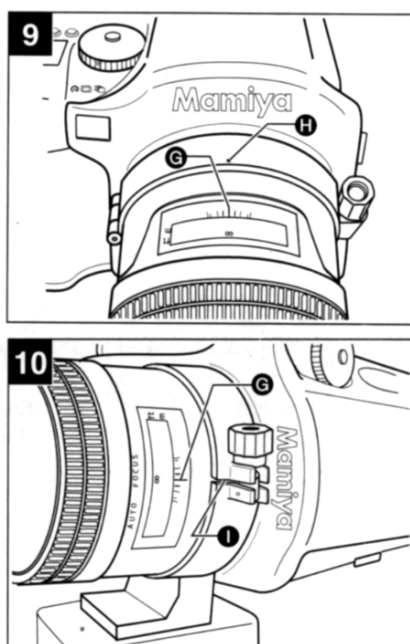
1. Align Mark (F) on the hood with the Indicator Line (F) on the lens, and fit the hood to the lens front ring.
2. Fix the Lens Hood by rotating it in the direction of the arrow. (The Lens Hood can be removed by rotating it in the opposite direction.) (Fig 8)

How to install the Hood For 35mm Lens

Align the matching marks on the lens and hood, and push and turn the hood in the direction of the arrow until a click sound is heard.

★Before taking photos, check the installation position of the hood. If the hood position has deviated from the correct position, vignetting may occur.

★When using a polarizing filter, choose a wide-circular polarizing filter.



Mounting a 300 mm lens support

1. To use in the horizontal position, line up the center of the distance scale **G** with the lens support's mount mark **H** and fasten in place. (Fig 9)
2. To use in the vertical position, line up the center of the distance scale **G** with the gap in the lens support **I** and fasten in place. (Fig 10)

Maintenance and Inspection of Lens

- A frequently used product should be inspected periodically at your nearest Mamiya service center.
- Handle the lens carefully, taking care not to drop it or hit it against an object.
- The lens is not waterproof. When it is moistened, wipe with a clean, dry cloth. If it is exposed to a salt breeze, moisten a clean cloth, wring it well and wipe the lens with it.
- To prevent affecting the mechanism and film, do not leave the equipment in a place where chemical gas of naphthalene, formalin, etc. is produced. The surface finish may be deteriorated if it comes in contact with a solvent.
- When the lens surface or viewfinder is stained with dirt or dust, remove it with a blower or sweep gently with a lens brush.
- When the lens surface or viewfinder is stained with a fingerprint or greasy object, wipe it gently with a clean, soft piece of gauze. If the stain cannot be removed or the glass component becomes moldy, please consult your nearest Mamiya service center.
- When the equipment has not been used for a long period or before taking an important picture, always try shooting to make sure that they function normally. In case of a problem, have your nearest Mamiya service center inspect them.
- When the equipment will not be used for a long period of time, remove batteries to prevent malfunction.