

Lens for Digital Single Lens Reflex Camera

Operating Instructions

500mm F8 Reflex

SAL500F80

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<http://www.sony.net/>

500mm F8 Reflex is a lightweight, compact super telephoto lens which adopts a reflex optical system.

This lens is designed for Sony α cameras.

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

Do not directly look at the sun through this lens.

Doing so might harm your eyes or cause loss of eyesight.

Keep the lens out of reach of small children.

There is danger of accident or injury.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

For the customers in the U.S.A.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For the customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Notes on use

- Do not leave the lens in direct sunlight. If sunlight is focused onto a nearby object, it may cause a fire. If circumstances necessitate leaving the lens in direct sunlight, be sure to attach the lens cap.

- Be careful not to subject the lens to mechanical shock while attaching it.
- Always place the lens caps on the lens when storing.
- Do not keep the lens in a very humid place for a long period of time to prevent mold.
- Do not hold the camera by the lens part extended for focusing, etc.
- Do not touch the lens contacts. If dirt, etc., gets on the lens contacts, it may interfere or prevent the sending and receiving of signals between the lens and the camera, resulting in operational malfunction.

Condensation

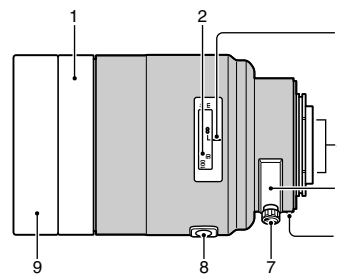
If your lens is brought directly from a cold place to a warm place, condensation may appear on the lens. To avoid this, place the lens in a plastic bag or something similar. When the air temperature inside the bag reaches the surrounding temperature, take the lens out.

Cleaning the lens

- Do not touch the surface of the lens directly.
- If the lens gets dirty, brush off dust with a lens blower and wipe with a soft, clean cloth (Cleaning Cloth KK-CA (optional) is recommended).
- Do not use any organic solvent, such as thinner or benzene, to clean the lens or the camera cone.

A Names of parts

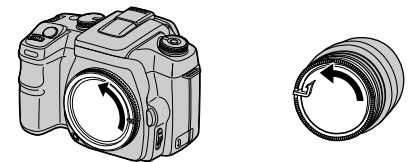
- 1...Focusing ring
- 2...Distance scale
- 3...Distance index
- 4...Lens contacts
- 5...Plug-in filter
- 6...Lens mounting index
- 7...Plug-in filter lock
- 8...Focus-hold button
- 9...Lens hood



B Attaching/detaching the lens

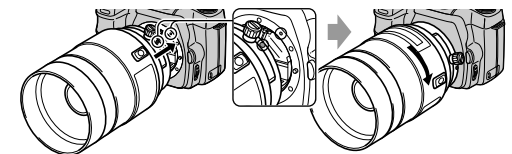
To attach the lens

- 1 Remove the front and rear lens caps and the camera body cap.



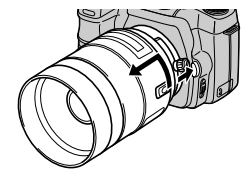
- 2 Align the orange index on the lens barrel with the orange index on the camera (mounting index), then insert the lens into the camera mount and rotate it clockwise until it locks.

- Do not press the lens release button on the camera when mounting the lens.
- Do not mount the lens at an angle.



To remove the lens

While pressing and holding the lens release button on the camera, rotate the lens counterclockwise until it stops, then detach the lens.



To attach the front lens cap

Always attach the front lens cap with the lens hood attached.

C Focusing

AF (auto focus)

When using AF, the camera focuses the lens automatically.

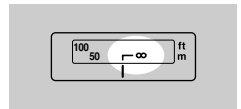
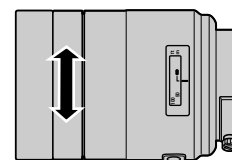
When using cameras with a wide focus frame, use a central local focus frame or a spot focus frame. Other local focus frames cannot be used.

- When the focusing ring is rotating, do not interfere with it.

MF (manual focus)

When focusing manually, set your camera to MF and rotate the focusing ring while looking through the viewfinder until the subject appears clearly. The focus signal in the viewfinder indicates the current condition of the focus.

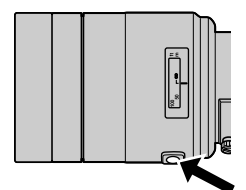
- The focusing ring can be rotated slightly past the infinity to provide accurate focusing under various operating temperatures. Do not rotate the focusing ring all the way to the end when focusing manually, even at infinity. Look through the viewfinder and set the focus precisely.



To use a focus-hold button

Press the focus-hold button in AF to cancel AF. The focus is fixed and you can release the shutter on the fixed focus. Release the focus-hold button while pressing the shutter button halfway to start AF again.

- The function of the focus-hold button can be changed on cameras with custom function capability. Refer to the camera manuals for details.



D Selecting shooting modes

The aperture of the lens is fixed at f/8. Use the P, A or M mode (When using A or M mode, you can only set the aperture to f/8).

- When using S mode, the exposure may not be correct, depending on the set shutter speed.

Changing the plug-in filters

The lens itself has no aperture adjustment.

To adjust the amount of light, attach the supplied normal filter or ND4X filter.

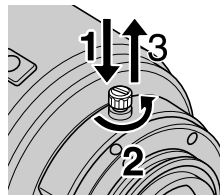
The plug-in filters are component parts of the optical system. Be sure to attach either the normal filter or the ND4X filter when taking pictures.

Use the normal filter generally. When you shoot a bright subject or when you want to slow down the shutter speed, attach the ND4X filter (The amount of light is reduced by 2 stops, which is equivalent to $f/16$).

- The depth-of field is not affected by attaching the ND4X filter.

To change the plug-in filter

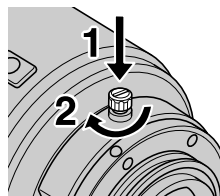
- 1 Push down the plug-in filter lock and turn it counterclockwise 90° until the white index is aligned with the plug-in filter, and then lift the plug-in filter up.



- 2 Align the plug-in filter lock index with the plug-in filter, face the side marked NORMAL or ND4X to the camera body, and then insert the plug-in filter into the lens barrel.

- 3 Push down the plug-in filter lock and turn it clockwise 90° to lock.

- The plug-in filter lock index is perpendicular to the plug-in filter.



About ND4X filter

- An ND4X filter is provided attached inside the front lens cap.
- You can carry the ND4X filter attached inside the front lens cap.

Specifications

Name (Model name)	Equivalent 35mm-format focal length* ¹ (mm)	Lens groups- elements* ²	Angle of view 1* ³	Angle of view 2* ³	Minimum focus* ⁴ (m (feet))	Maximum magnification (×)	Minimum f-stop	Filter diameter (mm)	Dimensions (maximum diameter × height) (mm (in.))	Mass (g (oz.))
500mm F8 Reflex (SAL500F80)	750	5-7	5°	3°10'	4.0 (13)	0.13	f/8 (fixed)	42 (exclusive use)	Approx. 89×118 (3 5/8×4 3/4)	Approx. 665 (23 7/16)

*¹ The value for equivalent 35mm-format focal length is based on Digital Single Lens Reflex Cameras equipped with an APS-C sized image sensor.

*² The values of lens groups and elements include the normal filter and ND4X filter.

*³ The value of angle of view 1 is based on 35mm-format cameras, and that of angle of view 2 is based on Digital Single Lens Reflex Cameras equipped with an APS-C sized image sensor.

*⁴ Minimum focus is the shortest distance from the image sensor to the subject.

Included items: Lens (1), Front lens cap (1), Rear lens cap (1), Lens hood (1), Normal filter (1), ND4X filter (1), Set of printed documentation

Designs and specifications are subject to change without notice.

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