WP Lens Series Instruction Manual

Thank you very much for purchasing this KOWA product.
Before using the product, be certain to read this instruction manual to allow correct use.

Cautions

Handling the product

This product has a water and dust resistance structure in which O-rings are arranged in the focus and iris replacing mechanism and in the C-mount part. Be sure to confirm and observe the precautions described below. * The lens unit is not water and dust resistance as a single unit.

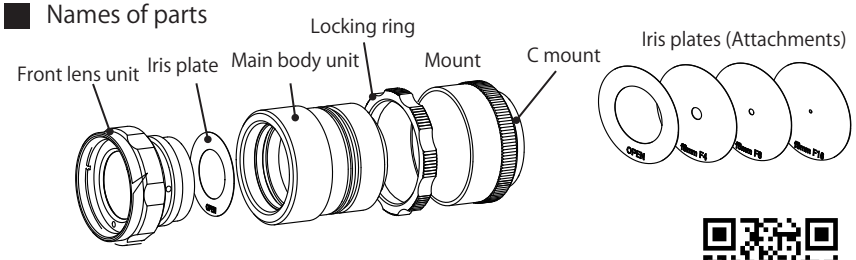
- Make sure that the lens is properly attached to the camera.
- Avoid use of the product underwater or operation under high humidity conditions; do not operate or disassemble the moveable parts with water drops attached. If moisture remains inside the product, it will cause lens fogging. If there is fogging on the interior, be sure to remove the front lens unit and dry the inside.
- Do not allow liquids which include substances other than water, such as oil, solvents, detergents, or chemicals, to contact the product.
- Do not leave the product for a long period with water drops attached without drying it. It is possible that this will cause degradation, rusting, or soiling of the glass, housing and O-rings, resulting in the product becoming unusable.
- Be sure to confirm that there is no damage or dirt on the surface of the camera C mount.

Handling O-rings

- Please check that there is no dirt, hair, or dust attached to the O-rings.
- Do not wipe the O-rings with alcohol or solvents such as thinners.
- Be careful not to damage the O-rings. If the O-rings become damaged they will need to be replaced.
- If the O-rings have changed shape or are twisted, the product may not attach properly.

How to use

Names of parts



Instruction Video
YouTube

Mounting the lens on a camera

Confirm that there is no scratching or dirt on the camera and lens C-mount parts, then screw the lens in to the camera. Confirm that the lens has been firmly screwed in so that there is no gap between the C-mount surfaces.

Replacing the iris plate

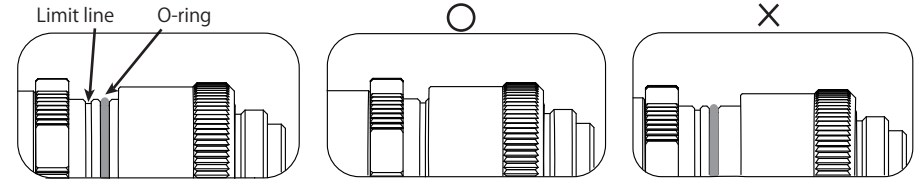
(1)Turn the locking ring in the FAR direction (mount direction) until it is lightly tightened.
(2)While supporting the locking ring and main body unit in one hand, turn the front lens unit in the NEAR direction to loosen it and remove it from the main body unit.
The unit can be easily loosened if you wear slip-proof rubber gloves.
(3)Take out the iris plate (OPEN) which is contained inside the main body unit and insert the iris plate that provides the required brightness.
(4)Reversing procedure (2), turn the front lens unit in the FAR direction to tighten it into the main body unit.
Firmly tighten the front lens unit into the main body unit until it cannot be turned any further.

Adjusting the focus

(1)Loosen the locking ring by turning it in the NEAR direction.
(2)Holding the lens main body unit, turn it with regard to the camera to adjust the focus.
(3)After adjusting the focus, turn the locking ring in the FAR direction until it comes into contact with the mount side to tighten it.
When you wish to loosen the locking ring, the ring will become easier to loosen if you turn it in the NEAR direction while holding the main body unit and mount.

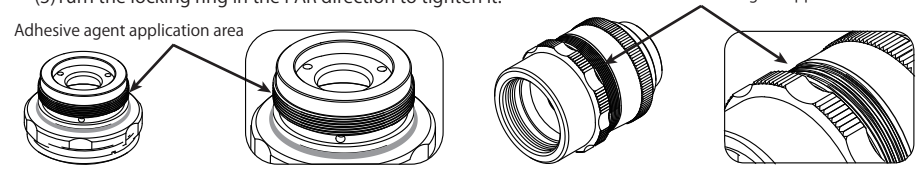
◎ Caution: Limit of the focus moveable range

The focus is adjusted by rotating the lens main unit, which extends and shortens the total lens length. During this adjustment, do not use the lens exceeded so far that the recessed part (limit line) shown in the diagram below. The O-ring may also be damaged, becoming unusable.



Fixing

Once the iris plate and focus have been determined, it is recommended to apply adhesive to prevent them from loosening.

・Iris unit
(1)Remove any oil or dirt from the screw parts on the front lens unit and inside the main body unit shown in the diagram below.
Do not wipe the O-ring parts with solvents.
(2)Apply screw loosening prevention adhesive agent (ThreeBond 1401 or equivalent) to the screw parts on the front lens unit and inside the main body unit as shown in the diagram below, then tighten them.

・Focusing unit
(1)After matching the focus, loosen the locking ring by turning it to the limit in the NEAR direction.
(2)Apply the loosening prevention adhesive agent all around the screw part (see the diagram below) which has appeared from below the loosened locking ring.
(3)Turn the locking ring in the FAR direction to tighten it.