

4.3 Cleaning Objective Lens

Clean the objective lens if it is dirty from contact with eyelashes, teardrops, fingerprints, or other causes.

Even slight dust or fingerprints may deteriorate the captured image. It is recommended to check the objective lens each time before using the camera and clean it if necessary.

○ Check whether the cleaning objective lens is clean with the procedure below.

- 1** Pull the infrared filter lever to remove the infrared filter inside the device so that visible light is emitted.

A message "Would you like to clean the objective lens?" appears.

- 2** Press "YES".

A message "Please set the Observation Illumination to Min." appears.

- 3** Set the observation light intensity to the minimum.

- 4** Press "OK".

A message "Please clean the objective lens while adjusting the light intensity. Please place the infrared filter back after cleaning the objective lens." appears.

- 5** Clean the objective lens in the method below in accordance with the message.

Cleanliness of the objective lens can be observed clearly by looking at the objective lens at an angle while gradually increasing the observation light intensity from the minimum using the observation illumination intensity knob.

- 1) Remove the dust settled on the surface of the objective lens.

Blow the dust off the lens with a blower.

- 2) If the surface of the objective lens is contaminated, gently wipe the lens with a clean swab or the equivalent dampened with a little amount of alcohol (absolute alcohol).

Starting from the center of the lens, gently wipe the lens by moving the swab outward in a spiral.

If the lens is still contaminated, use a new swab and repeat the above process until the lens is clean.

- 3) When the cleaning is finished, push the infrared filter lever into the device.

The cleaning is complete.

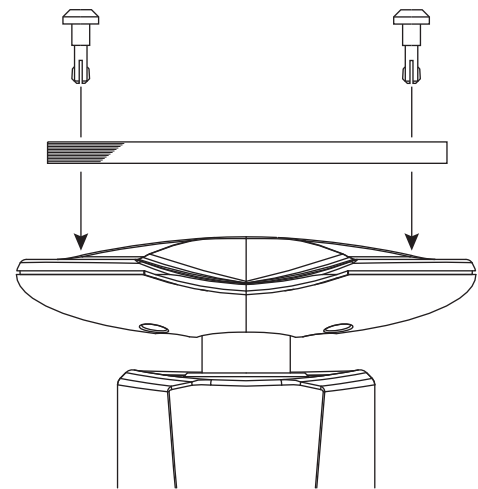


CAUTION • Do not wipe the objective lens forcibly or when dust is present.

The lens surface may be scratched.

4.4 Attaching Chinrest Paper

- 1** Extract the two pins from the chinrest.
- 2** Take an appropriate amount of the chinrest paper from the pack.
The whole stack of chinrest papers cannot be set at once. Remove less than 6 mm thick chinrest papers. Be careful so that the stack does not become loose.
- 3** Insert the two pins into the holes of the chinrest paper.
Insert the pins into both holes on the chinrest paper.

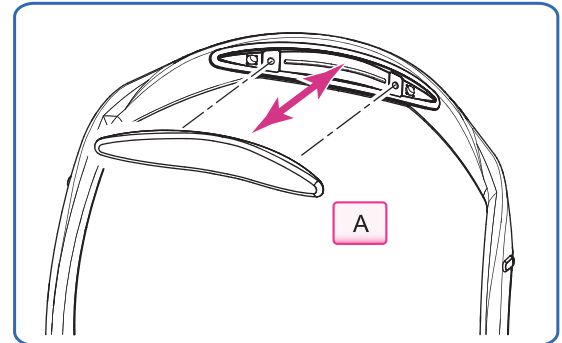


- 4** Attach the chinrest paper to the chinrest.
 - 1) While holding the sheets of chinrest paper and the two pins together, insert a pin into one of the holes of the chinrest.
 - 2) Insert the other pin into the other hole of the chinrest.

4.5 Forehead Rest Pad Replacement

○ Magnetic forehead rest pad (30611-1520)

The forehead rest pad (made of ABS resin) **A** is magnetically attachable. Attach or remove it in the orientation as shown to the right.

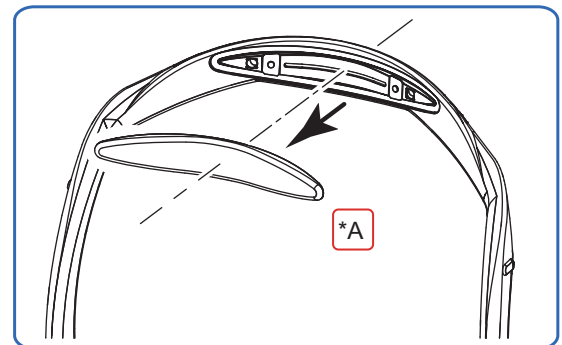


○ Forehead rest pad (15411-M752)

To replace with the softer, designated replacement, polyester elastomer forehead rest pad, use the procedure below.

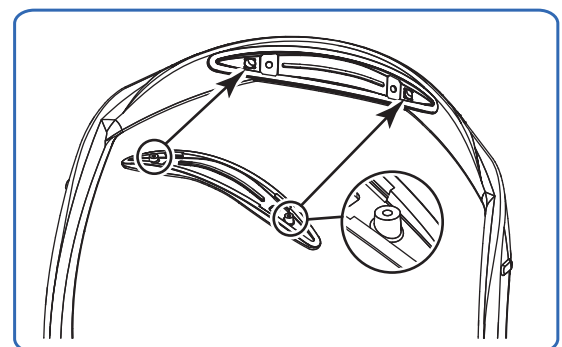
1 Remove the forehead rest pad^(*A) from the frame.

Hold the edge of the forehead rest pad with two fingers and pull it up.

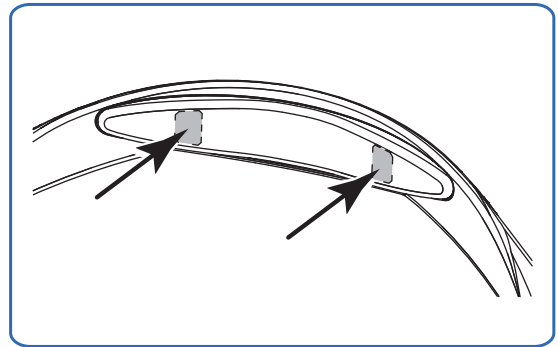


2 Attach a new forehead rest pad.

- 1) Align the clasps of the forehead rest pad to the holes in the frame.



- 2) Attach the forehead rest pad by pressing over the fastener positions on both sides.
The forehead rest pad is locked by the fasteners.
- 3) Confirm that the forehead rest pad is securely attached.



4.6 Cleaning Exterior

If the exterior of the device and the LCD touch-screen are contaminated, blow dust off them, then wipe them with a dry clean cloth.

For stubborn contamination, soak a cloth in a detergent diluted with water, wring it, and wipe the contaminated part. After that wipe them with a dry soft cloth.



CAUTION • Do not use organic solvents such as thinner or cleaners containing abrasives.

The surface or paint of the housing may be damaged.

- Do not press the LCD touch-screen with force or place a magnetic object near it.

The LCD touch-screen may be damaged or fail.

4.7 Consumables and Maintenance Parts List

Part name	Part number	Remarks
Chinrest paper	32903-M047	1 stack
Magnetic forehead rest pad	30611-1520	1 unit Made of ABS resin
Forehead rest pad	15411-M752	1 unit Made of polyester elastomer

○ Parts to be maintained by service personnel

Part name	Part number	Remarks
Halogen lamp	15456-0500	1 set
Xenon flash lamp	15456-0600	1 set

Halogen lamp

The service life of the halogen lamp is about 1,000 hours when it is continuously lit with the maximum intensity.

The intensity of the halogen lamp is automatically reduced to an appropriate level except while displaying the fundus observation image. After image capture, switch to the anterior eye observation screen instead of leaving the device displaying the fundus observation screen to extend the lamp's service life.

Xenon flash lamp