

Advisory Notice on COVID-19 – Cleaning and Disinfection Instructions

3nethra aberro – Hand-held Autorefractometer

This information is intended to be used for cleaning and disinfection of 3nethra aberro – Hand-held Autorefractometer during and after the COVID-19 pandemic. These recommendations are intended to minimize the risk of transmission of COVID-19 when using the device for taking refraction measurements. The procedures were written taking into account the current and limited knowledge of the nature of COVID-19 transmission among human beings.



Precautions to be followed for cleaning the device

- **Do not** rub the dusty front lens surface and the touchscreen, as doing so may scratch the surface of the lens and the display screen
- **Do not** wipe the front lens surface with spectacles lens cleaner or cleaning paper containing silicon, as the lens surface could be damaged
- **Do not** use any cleaning or disinfectant solution as a spray
- **Do not** clean the front lens surface with any cleaning agent. It may damage the lens coating
- **Do not** spray water, bleach, or detergent liquid on the case or other parts of the device, as droplets can go inside the device and affect the functionality
- **Do not** attempt to clean the device when it is connected to the battery charger. Ensure that the device is disconnected from the battery charger and the battery charger is disconnected from the main switch before cleaning
- The case surface can be cleaned with a lint-free cloth
- When using wet wipes, make sure to wring the solution out before cleaning

Cleaning agents recommended

Alcohol:

- **70% Isopropanol (IPA)**
- **70% Ethanol**

The materials described in the table are the key components of the fundus cameras manufactured by Forus Health and are compatible with the cleaning agents recommended in this procedure.

Device parts	Outer casings	Rear bezel	Rear bezel port cover	Outer cap	Touch screen	Eye cup	Bluetooth printer
Materials	ABS	ABS	TPE	Silicon	Glass	TPE (Polyone)	ABS
Compatibility with alcohol	✓	✓	✓	✓	✓	✓	✓

Instructions for cleaning

CAUTION: Ensure that the front lens and touchscreen are free of stains and dust. Avoid touching the front lens to prevent fingerprints on the lens. Do not use any liquid to clean the front lens surface.

- 1) Blow off the dust and dirt on the front lens surface with an air blower or clean the front lens surface using a lint-free cloth
- 2) Fingerprints and oil spots on the surface can be cleaned by a lint-free cloth. Lightly wipe the objective lens spirally from the center to outwards. Continue until the stains have been completely removed
- 3) Clean all the outer parts (except lens), bluetooth printer as well as the touch screen of the device with 70% IPA/Ethanol swabs or wet lint-free wipes soaked in 70% IPA/Ethanol for at least 1 minute. Make sure the surface is visibly wet
- 4) Let the surface be air dried for at least 30 seconds or until there is no wetness on the surface before screening the patients
- 5) Clean the eye cup (material that makes contact with the face of patients) before and after using the device on patients. Wipe the eye cup with 70% IPA/Ethanol and allow to dry for 30 seconds before eye cup makes contact with the patient's face. This is intended to minimize the risk of transmission of COVID-19 at the time of refraction measurement

CAUTION: The eye cup should be replaced when found discolored, deteriorated, shattered, cracked, or disintegrated. Refer to the 'service and support' section of this document to learn how to contact Forus Health.



Figure 1: Components of 3nethra aberro



Figure 2: 3nethra aberro in a portable case

Reference for additional information

Forus Health recommends following the COVID-19 updates released by WHO and CDC for ophthalmologists. The information is available at:

<https://www.aaopt.org/headline/alert-important-coronavirus-context>

Service and support

If you have any additional queries, contact the regional Forus Health distributor or Forus Health directly on the below-listed toll-free number or email ID.

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