

WaveLight® Laser and Diagnostic Systems

Device Cleaning

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Date: June 22nd, 2020

The Centers for Disease Control and Prevention (CDC) has provided a full list of recommended agents, which can be found at www.epa.gov. For your medical devices, it is important to note that only cleaning products that have been approved by the manufacturer should be used. **For WaveLight products, no aggressive cleaning agents containing chlorine, solvents, abrasives, or powerful chemicals should be used.**

The below information is intended to provide guidance on cleaning and disinfection for (device) and its accessories.

Cleaning of WaveLight laser systems and the Refractive Suite:

- Routine cleaning and disinfecting should be conducted only when the Main Switch has been turned off. Laser calibration tests must be performed to ensure that the laser systems are within specifications after each cleaning or disinfecting procedure. Please refer to the user manual for detailed description of the laser calibration tests.
- **Do not use aggressive cleaners containing chlorine, solvents, abrasives or powerful chemicals. Cleaning agents containing evaporating solvents like alcohol, isopropanol or acetone are subject to absorb laser radiation, particularly excimer laser radiation. This may influence test and treatment results, if present in the air around the laser system.**
- Wet tissues and solvents like alcohol or acetone must not be used to clean the laser systems.
- While cleaning the surfaces make sure that cleaning fluids do not seep inside of the device as this can lead to damage and malfunctioning.
- Do not spray or pour cleaning agents directly on the surfaces of the laser systems or accessories.
- It is best to clean the outer surface of the housing with a soft cloth and an antistatic cleaner.
- The outer surfaces can also be wiped with a damp cloth. In this case, please wipe away residues using a mixture of equal parts of alcohol and distilled water to which a splash of a standard commercial dishwashing liquid has been added.
- Do not leave any cleaning agent residues.
- Never touch the microscope's objective lens or try to clean it. Objective lens cleaning must only be done by an Alcon authorized service representative.

Cleaning of diagnostic systems:

- Unplug the power supply cable before cleaning the system.
- Do not use aggressive cleaners containing chlorine, solvents, abrasives or powerful chemicals which can damage component surfaces.
- Outer housing surfaces of the diagnostic devices (**except the Placido Bowl of the Topolyzer Vario**) can be cleaned with 70% Isopropyl alcohol, as recommended by the CDC.

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Please ensure that the diagnostic device is **not located in the same room** as the WaveLight laser systems.

- **Attention:** The **Placido Bowl** of the Topolyzer Vario is a precision component and pressure sensitive. The surface of these components are susceptible to scratching.
 - Take special care when cleaning the surface of the Placido Bowl. Do **NOT** use any alcohol or acetone. Their use might permanently damage the Placido Bowl, what could result in faulty measurements.
 - Use a lint-free, dry cloth.
 - Make sure that no dust gets into the little holes.
 - If necessary, carefully clean the Placido Bowl with a barely damp cloth and soap solution.
- While cleaning the surfaces make sure that cleaning fluids do not seep inside of the device as this can lead to damage and malfunctioning.
- Clean the outer surface of the housing as well as the chin- and forehead rest with a soft cloth and an antistatic cleaner.
- The outer surfaces can also be wiped with a damp cloth. In this case, please wipe away residues using a mixture of equal parts of alcohol and distilled water to which a splash of a standard commercial dishwashing liquid has been added.
- Do not spray or pour cleaning agents directly on the surfaces of the diagnostic device, accessories or system electronics.
- Do not leave any cleaning agent residues.
- After cleaning, it is required to check the system accuracy using the test object.
- Never touch the optical windows or try to clean it. Optical window cleaning must only be done by an Alcon authorized service representative.

The American Academy of Ophthalmology has provided guidelines for the use of personal protective equipment (PPE) to help reduce the risk to patients and employees of virus transmission. Alcon is in the process of developing device-specific PPE and we will provide notification to our customers once this is available.

Alcon cannot guarantee sterility or exclusion of any infection of COVID-19 during the use of their devices. The use of disinfectants can influence surfaces or reduce lifetime of optical parts, laser engines, mirrors, etc., which could lead to earlier deterioration. We do not have long-term experience with regular use of disinfectants.