

Best practices for cleaning BD Alaris™ System devices

ALWAYS follow the instructions provided in the maintenance section of your *BD Alaris™ System User Manual*.

Use healthcare-grade cleaning products that are recommended for cleaning BD Alaris™ System devices. **DO NOT** use chemicals that can damage the instrument's surface. Some chemicals can weaken or damage plastic parts and may cause instruments to not operate as intended or may void your warranty.

Access the recommended cleaners list, the *BD Alaris™ System User Manual* and other resources at bd.com/AlarisSystemCleaning

Cleaning the case—use recommended cleaners



Attach IUI connector covers by aligning the round openings on the inside of the covers with the screws on the IUI connector. Ensure the tab is pointed upward when attached.

DO NOT use a cover that is damaged. Replace the covers after 6 months of use. If soiled, clean the covers with 70% isopropyl alcohol.



Make sure the instrument is upright, turned off, and the power cord is unplugged. Wipe all exposed device surfaces.

DO NOT use a cloth that drips. Be sure to wring out the cloth to squeeze out excess liquid.



Use a dedicated soft-bristle brush to clean the case to remove any visible residue. The brush may also be used to clean narrow or hard-to-reach areas.

DO NOT use any hard, abrasive, or pointed objects to clean any part of the instrument.

Cleaning the IUIs—70% isopropyl alcohol (IPA) ONLY



Follow the cleaner manufacturer's instructions on the time to leave it on the device surface. Then, wipe off the cleaner using a soft cloth dampened with water.

DO NOT allow the cleaner to collect on the instrument.



Remove the IUI connector covers. Apply 70% isopropyl alcohol (IPA) directly to the dedicated IUI cleaning brush. To prevent cross-contamination, do not dip the brush into the IPA.

DO NOT use the same brush used on the case to clean the IUI connectors. Doing so can inadvertently transfer the cleaner or contaminants to the electrical contacts.

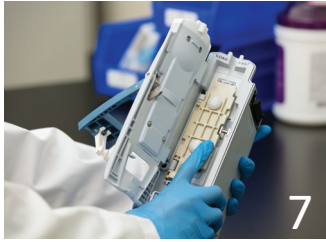


Clean both IUIs with the dedicated IUI cleaning brush. Brush the IUI connectors up and down. Do not brush them side to side as this can damage the pins.

To avoid accidental fluid deposits on the connectors, **DO NOT** use any spray cleaners anywhere near the IUI connectors. **NEVER ALLOW ANY CLEANER OTHER THAN 70% IPA TO CONTACT THE IUI CONNECTORS.**

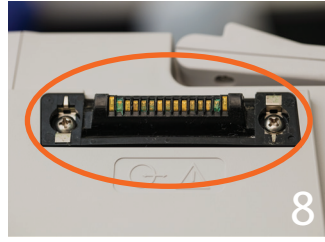


Drying and inspection



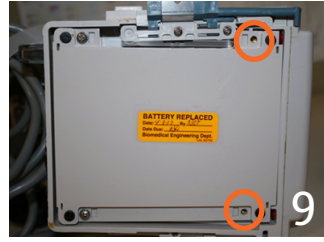
Inspect surfaces and moving parts for signs of damage, such as cracks and broken parts. Open the Pump Module and PCA Module doors and inspect the parts inside.

DO NOT use a device with any damage. Send it to Biomedical Engineering for repair.



Inspect the IUI connectors on each BD Alaris™ PC Unit and module.

DO NOT use a device with any damage, cracks, surface contaminants, or discoloration (as pictured above) on the IUI connectors. Send it to Biomedical Engineering for repair.



Inspect the bottom of each PCU to check if any of the four battery screws or washers are missing.

DO NOT use a PCU with missing battery screws or washers (as pictured above). Send the device to Biomedical Engineering for repair.



Let the IUI connectors air dry for about 15 minutes before connecting the device to another device.

DO NOT attach devices that have not fully dried to one another. “Wet mating” can hinder proper instrument operation.

For product support, contact Customer Advocacy at 888.812.3266 or customerfeedback@bd.com

For technical support, contact Instrument Technical Support at 866.488.1408 or DL-US-INF-Tech-Support@bd.com

For product orders, contact Customer Order Management at 800.482.4822 or custcareinfusion@bd.com

⚠ See below for applicable warnings and cautions

📖 For complete instructions, refer to the *BD Alaris™ System User Manual* at bd.com

Warnings and cautions

⚠ WARNING

• To prevent an electrical hazard:

- Turn the instrument off and unplug the power cord from AC power before cleaning.
- Do not spray fluids directly onto the instrument or into the IUI connectors.
- Do not steam autoclave, EtO sterilize, immerse the instrument in fluids, or allow fluids to enter the instrument case.
- Do not connect a module until the IUI connectors are thoroughly dry.
- Do not wipe the air-in-line sensor with any cleaning product. Cleaning products can damage the sensor and lead to patient harm.
- Brush IUI connectors up and down. Do not brush them side-to-side. Brushing the IUI connectors side-to-side can damage the pins and result in patient harm.
- Do not use compressed air to dry the instrument; this could force fluid into the instrument.
- Do not store the device in a plastic bag. Storing a device in a plastic bag can lead to moisture buildup that can damage electronic parts and result in patient harm.
- Do not return a damaged device to patient use. Damaged devices can result in patient harm. Send the damaged device to Biomedical Engineering for repair.
- Missing screws and washers on the PCU can result in a loss of power and patient harm.

⚠ Inspect IUI connectors

WARNING

- Use IUI connector covers during cleaning to prevent damage to the IUI connectors. Use of a damaged device can result in patient harm.
- Inserting a finger or other object into the IUI connector, when the module is attached to the PC unit, could result in electrical shock.
- Perform device inspections to prevent a damaged device from being returned to patient use. Use of a damaged device can result in patient harm.

- Inspection of IUI connectors is required. Damaged IUI connectors can result in incorrect device operation. Use of a damaged device can result in patient harm.
- Failure to follow these instructions may result in potential hazards associated with damaged IUI connectors.
- Do not return the device to patient use if there are cracks, surface contaminants, discoloration or other damage to IUI connectors. Use of devices with damaged IUI connectors can result in patient harm. Send all damaged devices to Biomedical Engineering for repair.

⚠ CAUTION

- Preventive maintenance inspections should only be performed by qualified service personnel.
- Preventive maintenance inspections should be performed only by Biomedical Engineering.

⚠ CAUTION

- The use of chemicals that can damage the surface of the instrument and failure to follow the BD Alaris™ and Alaris™ product cleaning procedures and the cleaning solution manufacturer's recommended dilutions can result in an instrument malfunction or product damage, such as weakening and cracking of the case, and could void the warranty.
- Do not allow the cleaning solution to contact the IUI connector when cleaning the instrument.
- Do not use hard, abrasive or pointed objects to clean any part of the instrument.
- Do not allow cleaning solutions to collect on the instrument. Residue buildup might cause the moving parts to become sticky and hinder their operation over time.
- Certain chemicals can damage the surfaces of the instrument. Refer to the following website for a list of chemicals that should NOT be used: bd.com/AlarisSystemCleaning
- Do not use chemicals that can damage the surface of the instrument. When possible use cleaning products that are recommended for use by CareFusion.

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