

RVision, Inc.

Care & Cleaning

General Care



CAUTION

The thermal camera is an expensive and sensitive instrument. Observe the following in handling and using the thermal camera.

- Do not subject the camera to any physical impact.
- Do not drop the camera.
- Do not aim the camera toward the sun. Solar radiation may cause damage to the camera's sensor.
- Do not scratch or abrade the lens.
- Do not submerge the lens in any type of liquid.
- Do not exceed the camera's operating temperature range.
- The camera will not transmit an image under water, or through glass or any material with a shiny surface. Such materials reflect thermal radiation.
- The camera is sensitive to strong electromagnetic radiation. Do not position the camera near a radio-frequency source, or any other type of source of strong electromagnetic radiation.

Cleaning RVision Products

This appendix contains instructions for cleaning RVision products.

**WARNING**

Do not open system enclosures. All servicing of sealed system components should be performed by RVision or the appropriate component manufacturer. Opening system enclosures may lead to invalidation of the product warranty.

**CAUTION**

Do not use a dry cloth to clean the camera window or germanium lens. A dry cloth will scratch and damage the window and lens or the coating on the window and lens.

Camera Window and Thermal Lens

- If the lens or camera window must be cleaned, use 75% isopropyl alcohol and lens tissue.
- Clean the lens with light wiping motions.
- Use a fresh section of tissue with each swipe across the lens so that once removed from the lens, dirt is not dragged back over the surface of the lens.

Exterior Surfaces

**WARNING**

Do not use compressed air to clean the exterior surface as damage may result to the window and lenses, and push sand or particulate matter into the seals.

To remove dirt and smudges, a mild house-hold cleaner such as 409 may be used. For removing fingerprints, use a soft cloth soaked in 75% Isopropyl alcohol. Do not use any industrial-grade solvents as damage to the exterior paint, optics, or O-rings may result. Only 75% IPA should be used on optical window or lens surfaces.

Foot and Shoe Connector

- Before engaging the high-def connector, verify that the pins and sockets of the male and female connectors are free from sand and other foreign material.
- Blow dust particles from the connector with clean, dry compressed air. This inspection will help prevent electrical shorting and damage to the connectors.
- Before engaging the foot in the shoe, apply a liberal amount of dielectric grease (RV P/N 380085) to the pins and sockets of the high-def connectors.
- Regularly apply a light amount of dielectric grease to the tapered areas of the foot and shoe.

MIL SPEC Connector

- Verify that the pins and sockets areas free from sand and any other foreign material. Blow with compressed air as needed.
- Apply a liberal amount of dielectric grease (RV P/N 380085) to the pins and sockets of the mil-spec connectors.
- Connect the connectors. Verify that the twist lock ring engages properly with the three lock pins. Do not use tools to tighten.