

WINTRONICS, INC.

LENS CLEANING TECHNOTE

The following procedure is recommended for cleaning infrared pyrometer lenses.

Items needed which can usually be found in Photo Camera Shops

Filtered air pressurized canister.
Cotton swabs.
Lens tissue paper.
Lens cleaning fluid for use on coated optics.
Distilled water

Care of uncoated lenses

S922, S924, S942, K7, L7, M7 and N7 are uncoated calcium fluoride. S925, K8, L8, M8 and N8 are uncoated zinc selenide. Other lenses which are used on a variety of pyrometers with less than 2.0 microns spectral response are uncoated quartz or pyrex.

- 1) Use air canister to blow off particulates collected on lens surface.
- 2) Place 1 to 2 drops of cleaning fluid (or distilled water) on lens.
- 3) Wrap lens paper around end of cotton swab and swirl fluid on lens surface with the paper.
- 4) Wrap a dry piece of tissue paper around a dry end of cotton swab and wipe lens surface dry.
- 5) Use dry end of cotton swab to finish drying and cleaning.
- 6) Repeat the above steps as needed.

Special care of coated lenses

Lenses S921, K6, L6, M6 and N6 are made of germanium. The surfaces have an anti reflection coating of hard carbon. The coating is rated for 100% humidity and is quite durable, as optical coatings are concerned. If salt spray comes in contact with the lens, the residue should be cleaned off as soon as is reasonably possible. Other contaminants should also be cleaned off when first detected. A dirty lens will

make target temperatures which are higher than the housing read low and, targets which are lower than the housing read high.

Lenses S925AR, K8AR, L8AR, M8AR and N8AR are made of zinc selenide with an anti-reflection coating made up of a multi-component layer. The type of coating applicable to Zinc Selenide is much "softer" as compared with the carbon coating used on germanium. Therefore, more attention to the care of the lens is required. If repeated cleaning of coated zinc selenide is required, we recommend the use of distilled water to be used more frequently than the lens cleaning fluid and to apply the smallest amount of pressure when wiping the surface with lens tissue paper.

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