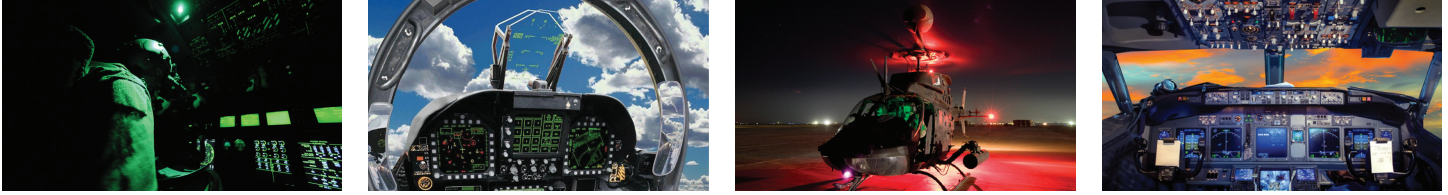


Coatings for Defense & IR Spectrum

NVIS/NVG Compatible Display Filters

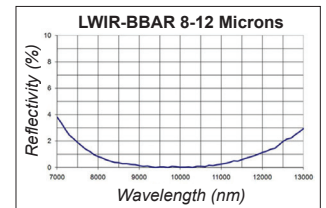
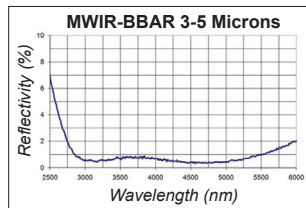


Our NVG/NVIS compatible coated display, illuminator, and indicator solutions meet the performance defined by MIL-STD-3009. Our filter solutions are custom tailored to mate with newer systems that use brighter LED's or updated LCD or OLED displays with higher throughput efficiencies and different spectral radiance characteristics than legacy sources. We define coating specifications needed for the integrated assembly to meet the NVG compatibility limits on red and near infrared radiance cut-offs and slope requirements while delivering industry leading throughput performance.

- MIL-C-48497A Durability/Environmental Requirements
- MIL-SPEC Severe Abrasion & Fast Pull Adhesion
- In-House Testing: Transmittance, Specular/Diffuse Reflection
- HIE™ Aluminosilicates & Low Iron Float, Corning® Eagle XG®
- Thicknesses 0.1 - 3.0 mm, Sizes mm's to 19 in. Squares
- NVIS White/Full Color, Red*, Yellow*, Green A & B*

*Special Request

Coatings for the Infrared (IR) Spectrum



Abrisa Technologies offers custom coating solutions for optical systems and sensors used in the Near Infrared (NIR), Short Wave IR (SWIR), Mid Wave IR (MWIR), and Long Wave IR (LWIR) spectral regions. IR radiation is often used for defense and military applications in thermal imaging for search and detect, security and surveillance, missile avoidance, targeting, and night vision. Civil, commercial and industrial uses of the IR include: Fire spotting, defect/leak sensing, UAV, geospatial and agricultural imaging, telecom, automotive LiDAR, 3D sensing, robotic and machine vision, medical and bio-imaging, and in process monitoring applications.

IR Coating Capabilities Offered:

NIR (700nm - 1600nm)	AR, Mirror, Metals, Hot Mirrors, Filters, ITO/IMITO/IMO, B/S
SWIR (1400nm - 3000nm)	AR, Mirror, Metals, Filters, B/S, ITO/IMITO/IMO
MWIR (3 - 5 Microns)	AR, Mirror, Metals, Filters, B/S, ITO
LWIR (7 - 12 Microns)	AR, Mirror, Metals, Filters, B/S, ITO
VIS Block/NIR Transmit	Semi-Covert & Covert IR Filters, Blackeye (Black Out) IR Filter

Popular Substrate Materials Coated: Ge, Si, ZnS, ZnSe, CaF₂, MgF₂, Chalcogenides, IR Fused Silica, Sapphire, InP, GaSb, InSb, Diamond, Molybdenum, Cu, Al, Stainless

Formats Coated: Glass of our Supply, Semi-Wafers, Sensor Caps, Customer Furnished Materials

Popular PVD Metal Coatings: Gold, Silver, Aluminum, Titanium, Tantalum, Silicon, Chrome, Nickel, Hafnium