

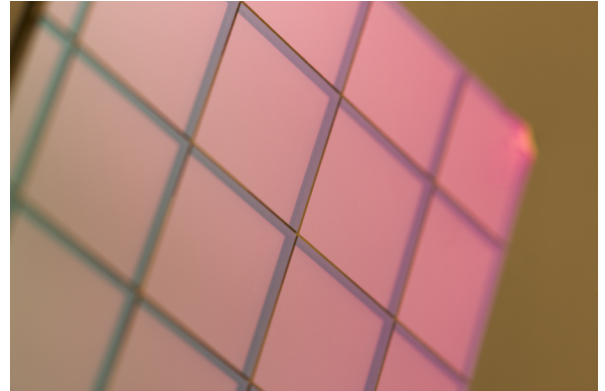
Defence & Aerospace

NVIS

Night Vision Compatibility Filter

Artemis manufacture Night Vision Compatibility Filters intended to be fitted to your display panels and warning lamps, to allow users to view them while using NVG devices, without compromising your systems day time use.

Our filters remove the side effect of unbearably bright light sources when using Night Vision Technology, ensuring optimum vision for the end User.



We offer a bespoke design service to meet your specific needs. Our thermally stable filters can be developed to allow any colour of light to be NVG compatibility filtered, at a range of incident angles, to suit your application.

Artemis have long been a preferred supplier to leading NVG manufacturers.

Application

Night Vision (NVG) technology allows humans to have improved vision in darkness. Common applications include night driving, flying, security, surveillance, search and rescue, hunting, and observation of wildlife. These systems work by amplifying any light in the environment which unfortunately, has the side effect of making any light sources (e.g. Instrumentation, indicators or illumination lights) unbearably bright for the user. NVIS filters counteract this side effect.

Artemis Night Vision Compatibility Filters offer 2 sets of benefits from a single filter

Benefits at Night (Wearing NVG)

- Highly accurate attenuation, allowing the light source to be seen with night vision without overpowering.
- Highly repeatable transmission curve which means that all your lights will be uniform intensive, irrespective of natural light colour.
- Designed to work at a range of incident angles to suit your application.
- Custom designed thermal stable coatings to suit your application.
- Can be supplied as removable light caps, making your upgrade programmes more economical.

Benefits in Daylight (Without NVG)

- High in-band transmission, which allows the natural colour of the indicator to show, unaffected.
- Bespoke design service to allow any colour of light to be NVG compatibility filtered.
- Sharp transition between transmission zone and blocking range, which means the natural colour of the light is not diluted by the NVG filter.

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Durability Spec

Durability & Environmental Specification:

Temperature:	Expose to temperatures of 90+°C and 40°C for a period of 24 hours at each.
Humidity:	Apply humidity test in accordance with MIL-STL-810D, method 507.2, Procedure III.
Abrasion:	Apply rubber eraser per MIL-C-675A
Adhesion:	Apply L159 cellotape adhesion test per MIL-C-675A.

Filters will meet the above specification, together with experiencing the following environmental conditions, to the full extremes:

Temperature:	-40°C to 90°C.
Solar Radiation:	Materials exposed to direct sunlight will not deteriorate or degrade through the effects of ultra violet light to affect maintainability, performance or reliability.
Contamination Resistance:	The effects of contamination by a number of fluids (details of fluids included are available on request) will not cause deterioration that will effect reliability or performance, nor corrosion or damage to painted surfaces. Where contamination is likely to occur an anti-corrosion treatment will be applied.
Fungus Resistance:	Materials that are not nutrients for fungi will be used. Where this is not practicable, a suitable fungicidal agent or other means will be used to protect materials. The equipment will therefore not be adversely affected when tested to MIL-STD-810D, Method 508.3.

Please email Anna.winterton@artemis-optical.co.uk should you require any further information.

Artemis Optical & Our Facilities

Headed by the team of five Directors, Artemis, a world renowned company employs in excess of 50 talented staff, with an unbeatable history of more than 50 years in the design and application of its high precision, technically differentiated optical coatings.

Our customer portfolio includes blue chip original equipment manufacturers in the defence, aerospace, security, photonic surgery and medical and analytical instrumentation markets.

Our state of the art facilities are located at Langage Science Park in Plymouth the South West of England. Our factory includes a 22,000 square foot bespoke, environmentally controlled coating room, housing a range of modern coating chambers, to include APS, APS Pro, Sputtering and thermal evaporation coating technologies.

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