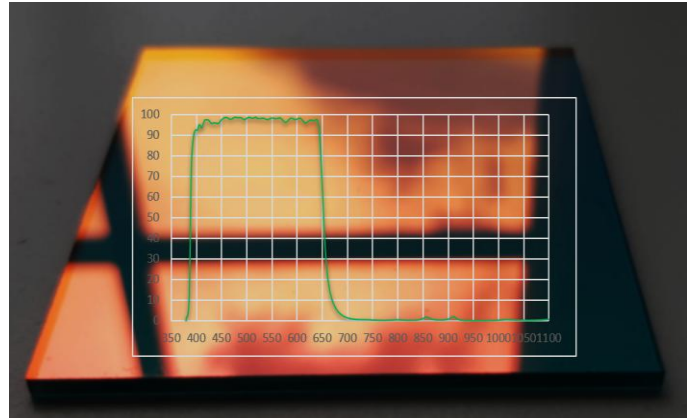


NVIS (Night Vision) filters block infrared light to ensure compatibility of displays & instrumentation with night vision equipment such as NVG's (Night Vision Goggles), surveillance & IR sensors. These are used in many aviation applications including aircraft cockpits, IR sensors, ship bridges & other mobile devices used in night-time operations, including flexible wrist-mounted OLED displays. NVIS filters can also be found in many devices which are used in everyday life (handheld devices, tablets and updated standard commercial displays).

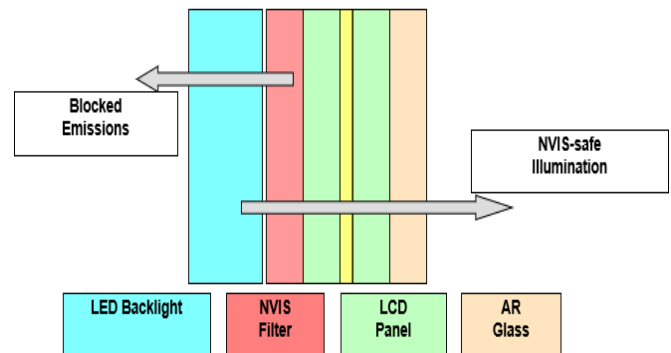


For more demanding applications in display or image sensing where natural colours are required and higher Signal-to-Noise Ratio is necessary for low light conditions, specially designed, custom manufactured & precision engineered thin-film NVIS filters are required.

Brinell Vision NVIS-A1000 range of filters provide class-leading visible transmission along with high levels of blocking up to OD5 to meet stringent radiance limits. Our filters are designed to nm precision and to give steep NIR cut-off along with outstanding Integrated Visual Photopic Transmission (IVPT). Brinell NVIS-A1000k is designed to provide high angular blocking and also extended IR range attenuation. Brinell NVIS-A1000 & NVIS-A1000k filters are selected for the most advanced aircraft displays and aerospace applications helping to give your product the optimised edge in performance.

Applications:

- NVIS Compatibility for LCD panel displays
- Radiance to MIL-STD-3009 standard
- Conventional & LED compatible designs
- Backlight & Sidelight format options



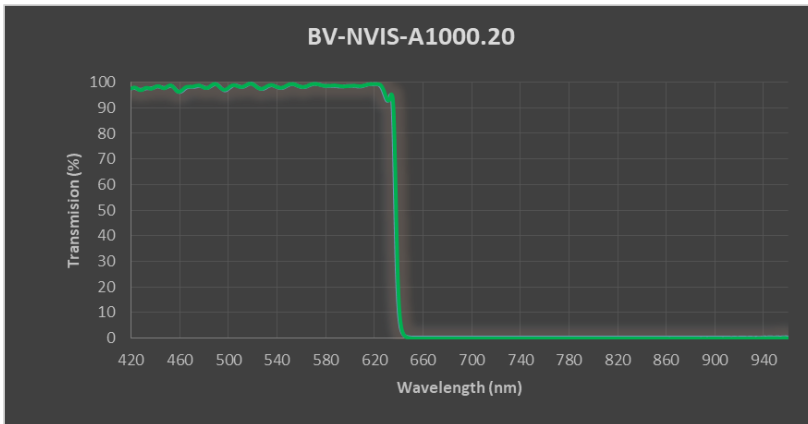
Display Format:

A flexible format for current & emerging display assembly structures.

- Options for EL and LED illumination
- Backlight & sidelight compatible
- Non-disruptive to polarisation
- Can be fitted pre- or post- LCD panel

Precision Glass NVIS filters

1. NVIS-A1000.20 - Thin-film precision coated NVIS filter



Specification

Passband

Transmission_{av} > 92% (425-630nm)

Blocking band (optical density)

Blocking NVIS-B (650nm-950nm) Transmission_{av} < Optical Density OD3

Option of High Efficiency broad-band AR (side 2)

Spectral Reflection_{av} < 0.5% (425-650nm)

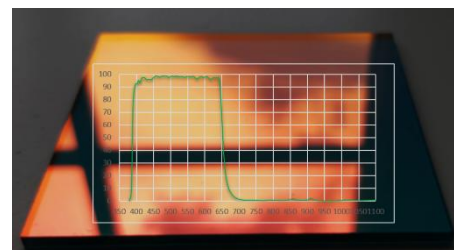
Temp Stability

+/-5nm (-50°C to +85° C)

2. NVIS-A1000K.25 - Thin-film hybrid precision coated NVIS filter

A highly effective combination of filter glass and thin-film coating to provide higher blocking levels and full angular coverage.

Blocking 640-2000nm (OD5_{av})
Angular coverage (All angles)



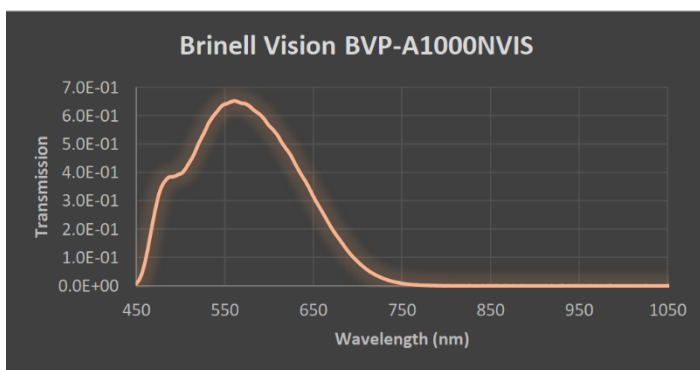
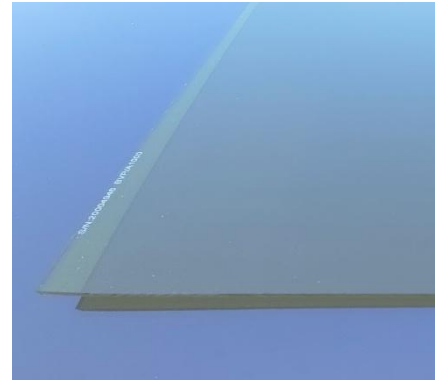
- Wide angle performance
- Can be customised to all types of illumination options (such as CFC and LED)
- Suitable for insertion in COTS units

Contact us for more information or customised requirements.

Plastic NVIS & IR blocking filters

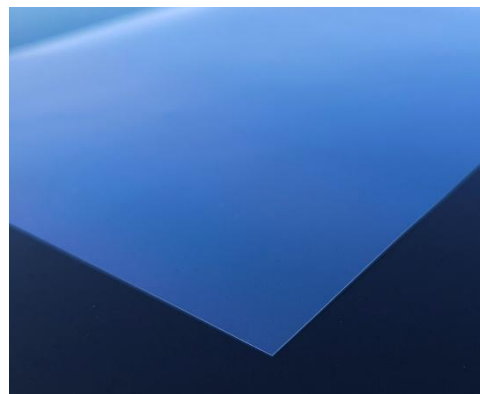
1. NVIS-BVP/A1000

Material: Special NIR Thermoplastic
Filter thickness: 3.05mm +/-0.1mm
IVPT (Photopic transmission): 57%
NVIS Radiance LED 520NM: <10E-8
Meets MIL-STD-3009



2. NVIS-BVP/A100

NVIS filter sheet (customised)
Material: Special NIR Thermoplastic
Filter thickness: 1mm
>50% Visible Transmission
NVIS blocking to Meet MIL-STD-3009



Contact us for more information: info@Brinellvision.com