

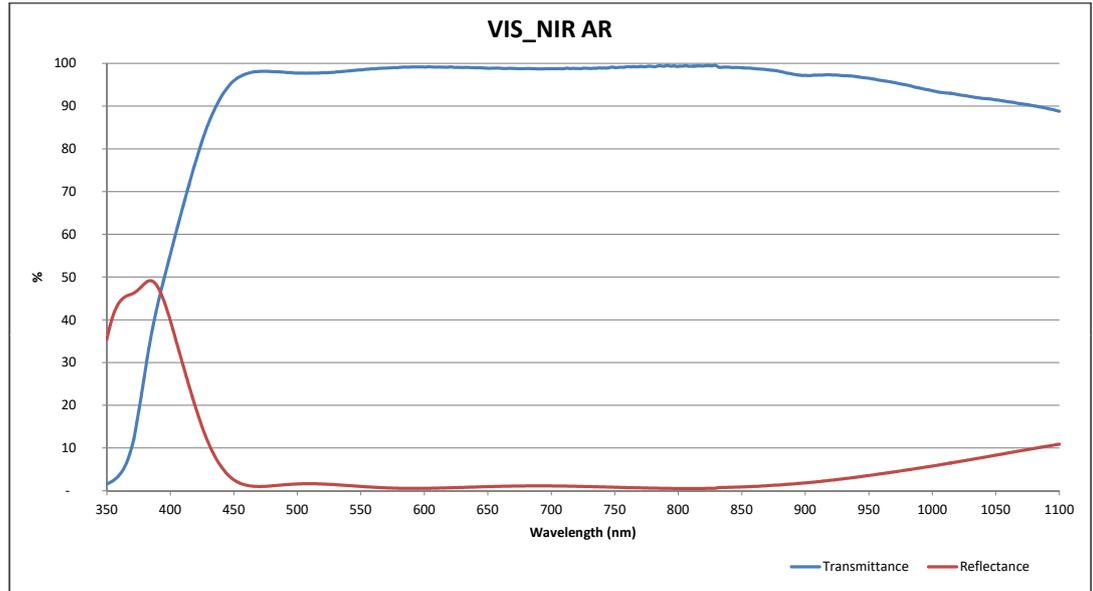
Optimised AR: VIS_NIR AR
High performance AR coating for
combined full colour VIS_NIR systems



PSC

OPTICAL SOLUTIONS REFINED

Product Features



VIS_NIR AR

The VIS_NIR anti reflective coating has been developed to perfectly match applications where Full VIS and high NIR performance is critical, i.e. RGB, RCCB, RCCG etc. camera systems, working alone or in combination with Near Infrared LIDAR or TOF (time of flight) devices, providing range detection, contour scanning or focus setting of the camera system.

The topcoat is Hydrophobic and abrasion resistant, and the acrylic base material makes the filter lightweight and much more impact resistant than glass.

These properties make VIS_NIR AR the perfect filter for protection of sensitive optics and lenses.

The VIS_NIR AR solution is sheet to part which enables full design freedom.

The VIS_NIR AR is for applications such as high performance bar code readers, dimensional measurement devices, and inline machine vision systems.

Optimized AR

The spectral properties of anti reflective coatings for display applications are optimized for the wavelengths visible to the human eye. However, most machine vision applications only benefit from specific wavelengths within the VIS range (red), or longer wavelengths than those of visible light (NIR).

For these applications PSC has developed a range of unique and very effective AR surface treatments called Optimized AR Coatings. The Optimized AR is applied to our acrylic sheet material.

The Optimized AR Coatings are designed to obtain maximum AR performance in the exact application-specific wavelength range. It reduces reflections to an absolute minimum and increases undisturbed transmission in the desired range. This is highly relevant in certain camera, scanner, and sensor applications.

Technical Data

2 AR / 1 AFP $R \leq 2\%$ @ 470nm, 670nm
 $R \leq 4\%$ @ 940nm

Pencil hardness 6H typically

Base material Cleartech™

Thicknesses* 1.5 mm

* Other thicknesses upon request. MOQ applies