

# Optimized AR: Partial VIS\_NIR AR

High performance AR coating for VIS cameras, combined with long range NIR capabilities



## Technical Specifications



### Partial VIS\_NIR AR

Partial VIS\_NIR anti-reflective coating has been developed to perfectly match applications where balanced VIS combined with Extreme NIR performance is critical. The NIR performance allows for perfect signal quality and signal-to-noise ratio for camera systems designed for low-light environments. Here, performance between 850-950nm has been prioritized.

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 partial VIS\_NIR AR the perfect filter for protecting sensitive optics and lenses.

The partial VIS\_NIR AR solution is sheet-to-part, enabling complete design freedom. The partial VIS\_NIR AR is suitable for long-range VIS\_NIR license plate detection systems and

inline machine vision systems where superior NIR performance for long-range functionality is required.

### Optimized AR

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). We have a range of unique and very effective AR coatings for these applications, which can be applied to our acrylic sheet material.

These optimized AR coatings are designed to obtain maximum AR performance in the exact application-specific wavelengths. It reduces reflections to an absolute minimum and increases undisturbed transmission. This is highly relevant in certain camera, scanner, and sensor applications.

## Technical Data

Double sided AR	Ravg < 1%, Rmax < 2% for 700 - 950 nm Ravg < 2%, Rmax < 5% for 500 - 700 nm
Pencil Hardness	6H
Base material	Claretech™
Thicknesses	Upon request. MOQ applies.