

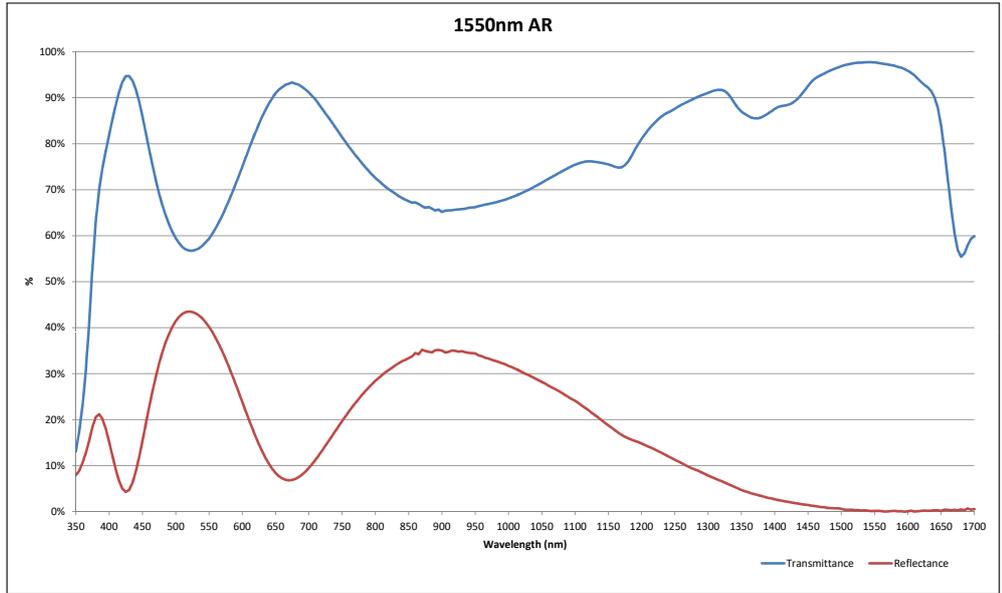
Optimised AR: 1550 AR
Unique AR coating optimized for
maximum performance at 1550 nm
(LIDAR applications)



PSE

OPTICAL SOLUTIONS REFINED

Product Features



1550 AR

The 1550 AR coating applied on Solaris acrylic provides a filter transmission up to 98 % in the 1550 nm range combined with only 0.5 % reflectance (double-sided measurement).

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 the 1550 AR the perfect filter for protection of the sensitive optics and lenses in 1550 nm LIDAR applications.

The 1550 AR solution is sheet to part which enables full design freedom.

The 1550 AR is for applications such as 'eye-safe' rangefinders using 1550 nm lasers and other LIDAR derived products for robotics, archaeology, geology, military or surveying purposes.

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

| | |
|------------------------|---------------------------------|
| 1550 nm transmission | 98% |
| Reflections at 1550 nm | 0.5% (double sided measurement) |
| UV protection | >99% |
| Base material | Clartech™ |
| Thicknesses | Upon request MOQ applies |