

Solaris™ IR

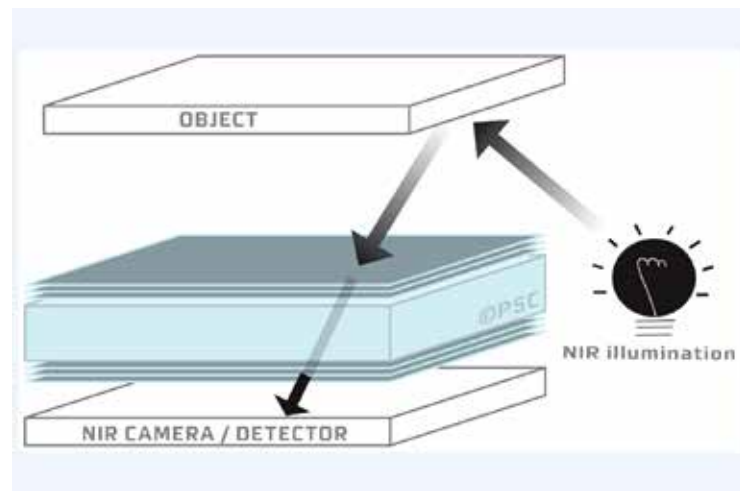
**High performance near-Infrared
filter for machine vision
applications**



PSE

OPTICAL SOLUTIONS REFINED

Product Features



Solaris™ IR S306 is a highly transparent, near infrared filter (NIR), which by design blocks the entire visible spectrum and ultraviolet light. Hence, the NIR filter is most suitable for applications utilizing near infrared light, i.e. machine vision applications, TOF devices, LIDAR applications, iris scanners, facial recognition systems, etc.

Appearing perfectly black to the human eye, the use of Solaris™ IR S306 efficiently eliminates any possibility to identify electronics or optical components inside the device. And, for NIR sensors also capable of detecting (partial) VIS light, IR S306 works as a very efficient band pass filter allowing ONLY NIR light to reach the sensors.

Solaris™ IR 306 can be processed and customized according to application specific demands.

As a NIR transparent plastic, acrylic is the most suitable material for the transmission of light in the near infrared region, efficiently blocking all other wavelengths than the NIR wavelength range from 800 to approximately 2000 nm. The near infrared filter absorbs the entire visible spectrum and ultraviolet light and delivers maximum transmittance in NIR range.

Technical Data

Light transmittance NIR range	Up to 92%
Thickness	From 0.5 mm
Tolerances	Down to +/- 0.1 mm
Dimensions	Up to 2000 x 3000 mm