



**PHASICS**  
The phase control company

# SID4 SWIR HR

## HIGH RESOLUTION SWIR WAVEFRONT SENSOR

The SID4 SWIR HR wavefront sensor integrates Phasics patented technology with an InGaAs detector. Thanks to its ultra-high spatial resolution (160 x 128 phase pixels) and high sensitivity, it offers accurate wavefront measurement from 900 nm to 1.7  $\mu\text{m}$ . SID4 SWIR HR is an innovative solution for testing SWIR lens used in optical communications, inspection instruments or night vision in military and surveillance devices.

**APPLICATIONS:** [Automotive](#) | [FSOC](#) | [Optical components & assemblies](#) | [Aerospace](#)

### SPECIFICATIONS

Wavelength range	0.9 - 1.7 $\mu\text{m}$
Aperture dimensions	9.60 x 7.68 mm <sup>2</sup>
Phase spatial resolution	60 $\mu\text{m}$
Phase & Intensity sampling	160 x 128
Resolution (Phase)	< 2 nm RMS
Accuracy (Absolute)	15 nm RMS
Frame rate	30 fps
Real-time processing frequency	> 7 fps (full resolution)*
Interface	Giga Ethernet
Dimensions	100 x 55 x 63 mm <sup>3</sup>
Weight	~ 500g

\* with SID4 software