

SID4 DWIR (3–5 μm & 8–14 μm)

WAVE FRONT SENSOR



PHASICS introduces the first off-the-shelf **high resolution wave front sensor** for dual band infrared (from 3 to 5 μm and from 8 to 14 μm).

↓ SPECIFICATIONS

Aperture dimension	10.08 x 8.16 mm ²
Spatial resolution	68 μm
Sampling	160 x 120
Wavelength ranges	3 – 5 μm and 8 – 14 μm
Accuracy	75 nm RMS
Sensitivity	25 nm RMS
Analysis rate	10 fps
Acquisition rate	50 fps
Dimensions (l x h x L)	85 x 118 x 193 mm
Weight	~ 1.6 kg

→ APPLICATIONS

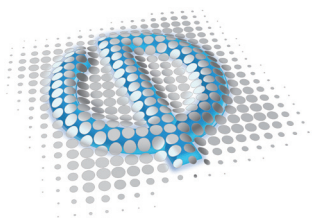
For **optical metrology**, the **SID4 DWIR** is the perfect tool to characterize IR objectives (thermal imaging and safety vision) or IR lenses (for CO₂ laser) giving you MTF, PSF, as well as aberrations, surface quality and focal length.

For **laser beam metrology** (CO₂ laser, Infrared OPO laser sources...), the **SID4 DWIR** gives an exhaustive beam characterization (aberrations, M², intensity profiles, beam parameters...)

The ease of use and compactness make the **SID4 DWIR** very simple to integrate.

→ KEY FEATURES

- High resolution (160 x 120)
- Absolute measurement
- MWIR Band & LWIR Band
- Broad Band
- High Numerical Aperture measurement for analysis without any additional relay lens
- Fast measurement
- Insensitive to vibration
- Optional module available for simple off-axis measurement
- Cost effective



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