

# SID4 DWIR (3–5 $\mu\text{m}$ & 8–14 $\mu\text{m}$ )

## WAVE FRONT SENSOR



PHASICS introduces the first off-the-shelf **high resolution wave front sensor** for dual band infrared (from 3 to 5  $\mu\text{m}$  and from 8 to 14  $\mu\text{m}$ ).

### ↓ SPECIFICATIONS

|                        |                                              |
|------------------------|----------------------------------------------|
| Aperture dimension     | 10.08 x 8.16 mm <sup>2</sup>                 |
| Spatial resolution     | 68 $\mu\text{m}$                             |
| Sampling               | 160 x 120                                    |
| Wavelength ranges      | 3 – 5 $\mu\text{m}$ and 8 – 14 $\mu\text{m}$ |
| 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

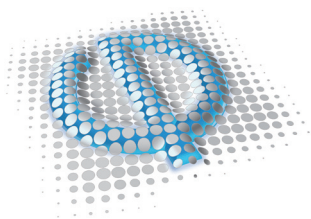
For **optical metrology**, the **SID4 DWIR** is the perfect tool to characterize IR objectives (thermal imaging and safety vision) or IR lenses (for CO<sub>2</sub> laser) giving you MTF, PSF, as well as aberrations, surface quality and focal length.

For **laser beam metrology** (CO<sub>2</sub> laser, Infrared OPO laser sources...), the **SID4 DWIR** gives an exhaustive beam characterization (aberrations, M<sup>2</sup>, 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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