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# SID4 Bio

## PLUG & PLAY CAMERA FOR QUANTITATIVE PHASE IMAGING

The SID4 Bio is a plug & play camera for quantitative phase imaging. It works with any optical microscope and enables measuring valuable numerical parameters on living cells and many more transparent samples.

**APPLICATIONS:** Life science | Material inspection

### SPECIFICATIONS

Wavelength range	400 - 1100 nm*
Magnification	10x to 200x
Aperture dimension	11.84 x 8.88 mm <sup>2</sup>
Phase image sampling	300 x 400
Lateral dimension	Depends on magnification - Down to 0.2 μm on phase image x 120
Resolution (Phase)	< 1 nm RMS
Frame rate	10 fps
Dry-mass resolution	< 0.5 pg
Microscope interface	C-mount
Dimensions	54 x 46 x 79 mm <sup>3</sup>
Weight	~ 250g

\* compatible with white-light source, laser...



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# SID4 ELEMENT

## ADVANCED ADD-ON FOR QUANTITATIVE PHASE IMAGING

The SID4 Element combines a sCMOS camera with Phasics QPI technology to provide the most accurate quantitative phase images to life science. Its large field of view suits large cell population imaging. The system also enables easy merging phase and fluorescence images.

**APPLICATIONS:** Life science | Material science | Thermal imaging

### SPECIFICATIONS

Wavelength range	400 - 800 nm
Field of view	Up to 8.52 x 7.20 mm
Image size (phase pixels)	Up to 852 x 720 pixels
Lateral resolution (Phase image pixels cell size)	10 $\mu\text{m}$ without magnification
Resolution (Phase)	< 2 nm RMS up to 0.1 nm with averaging
Acquisition rate	Up to 40Hz
Microscope interface	C-mount
Computer interface	USB 3.0

*These specifications are given for the combination with a sCMOS Zyla 5.5 camera. Other combinations available upon request.*



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# SID4 sC8

## HIGH RESOLUTION sCMOS QUANTITATIVE PHASE IMAGING CAMERA

Designed for life science and material inspection microscopes, SID4 sC8 brings fast, accurate and truly quantitative phase measurement in a compact, plug-and-play solution.

Biologists will benefit from label-free cell imaging, high sensitivity and automatic segmentation, while material scientists will have access to accurate refractive index measurement, laser damage analysis and surface characterization.

**APPLICATIONS:** Life science | Material inspection | Thermal imaging

### KEY FEATURES



sCMOS sensor



Plug & Play



Compact



Compatible with  
fluorescence imaging



Single shot phase and  
intensity measurement



Compatible with any  
illumination / objective

# SID4 sC8

## SCMOS HIGH RESOLUTION CAMERA

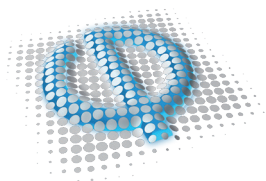
### ADVANTAGES

- 1 Compatible with acquisition software: Metamorph, Micromanager, NIS-Elements...
- 2 Magnification from x2.5 to x150
- 3 Imaging at any wavelength

### SPECIFICATIONS

Sensor Technology	sCMOS
Wavelength range	400-1050 nm
Aperture dimensions	16.64 x 14.04 mm <sup>2</sup>
Phase spatial resolution	19.5 μm
Phase & Intensity sampling	852 x 720
Resolution (Phase)	<2 nm RMS
Frame rate	40 fps
Real-time processing frequency*	Up to 10 Hz (full resolution)
Connection	USB 3.0
Dimensions	82 x 89 x 145 mm <sup>3</sup>
Weight	~ 1100 g

\* Obtained using PHAST software on provided computer



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