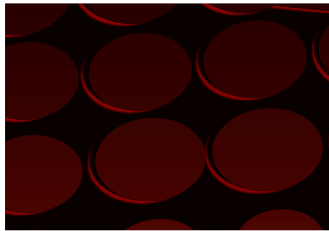
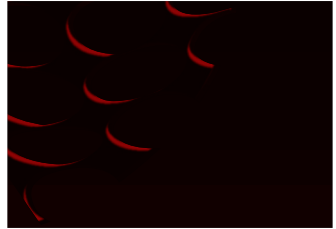
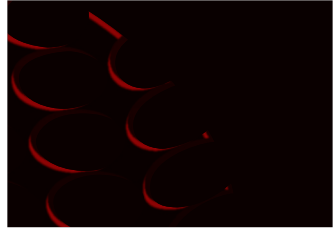
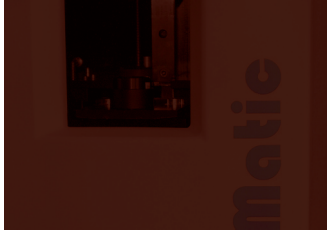
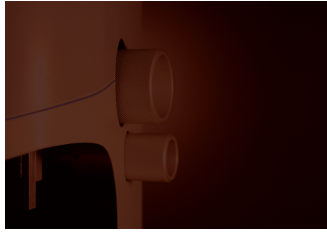
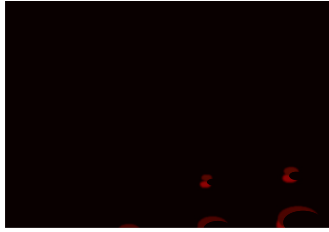


# SID4 Element



# SID4 Element



→ PHASICS offers access to its unique phase imaging technology through a clever **add-on** for your camera.

By working with any type of camera such as **EMCCD, ultra-fast or high sensitivity camera**, the SID4 Element makes quantitative phase imaging possible for **any phenomenon, in any environment**. This pioneering device opens the path to advanced investigations in microscopy for physics and biology.

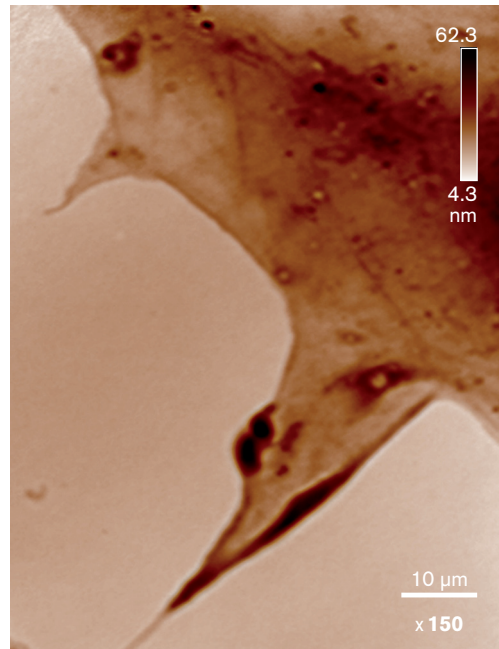
## "ACCESS TO PHASE IMAGE IN ANY EXPERIMENT"

### → HIGH RESOLUTION & HIGH SENSITIVITY

Observe small specimens over a large field of view thanks to the optimized SID4 Element technology that reaches **10  $\mu\text{m}$  spatial resolution**, the microscope limit.

Highly **improve the sensitivity** for living specimens by averaging multiple images acquired with an ultra-fast camera equipped with the SID4 Element.

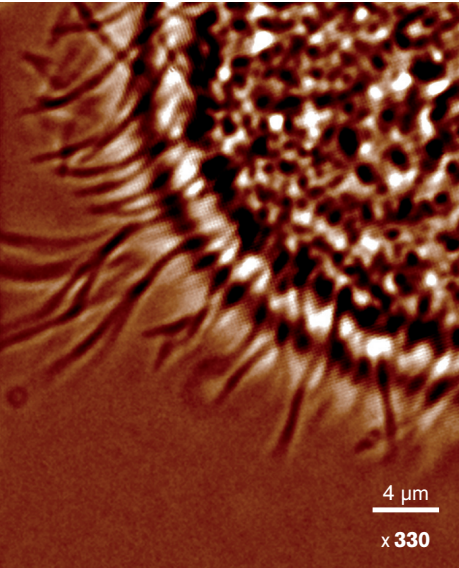
*High sensitive measurement of actin phase signature in a COS-7 cell with an ultra-fast camera equipped with a SID4 Element\* →*



## → ADVANCED SETUP WITH ANY CAMERA

### • Ultra-fast camera

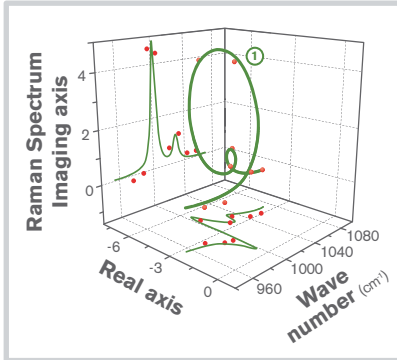
Used with an ultra-fast camera, the SID4 Element provides images of **fast phenomena**.



↑ Real time *Paramecia cilia*

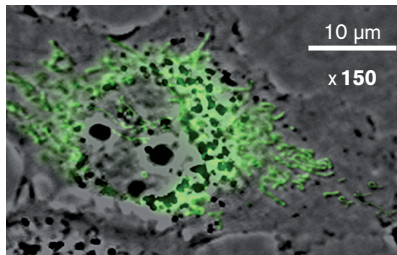
### • EMCCD

Mounted on an EMCCD camera, the SID4 Element enables long duration **time lapse in ultra-low-light conditions** to minimize phototoxicity.



### ① CARS Electro-magnetic field

Raman Spectrum obtained by detecting the phase-shift induced by the resonance in wide-field CARS microscopy



Quasi-simultaneous phase and fluorescence images with one unique camera\*

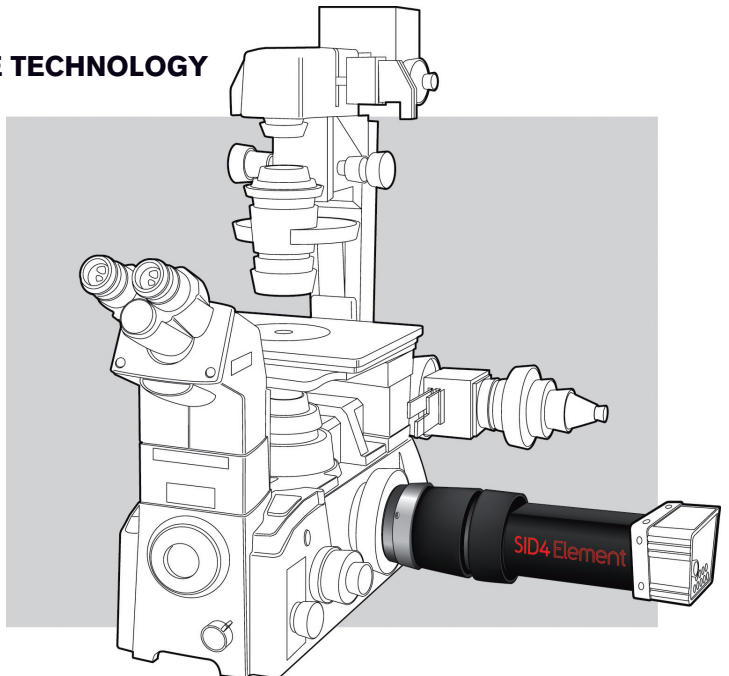
## → HIGH-END YET SIMPLE TECHNOLOGY

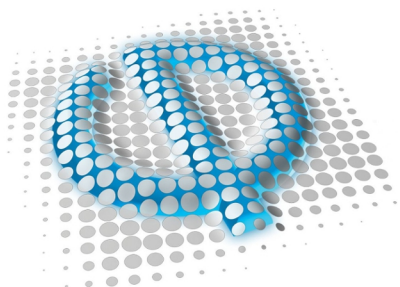
Integrating a **patented optical grating**, the device offers:

- **Enhanced contrast**
- **Quantitative data**
- up to **10  $\mu\text{m}$  spatial resolution**
- up to **1000 x 1000 phase pixels**
- **below 0.1 nm phase sensitivity**

It easily plugs on to any microscope:

- **no change** in your set-up
- **multi-modality friendly**



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