MAKATEA Camera

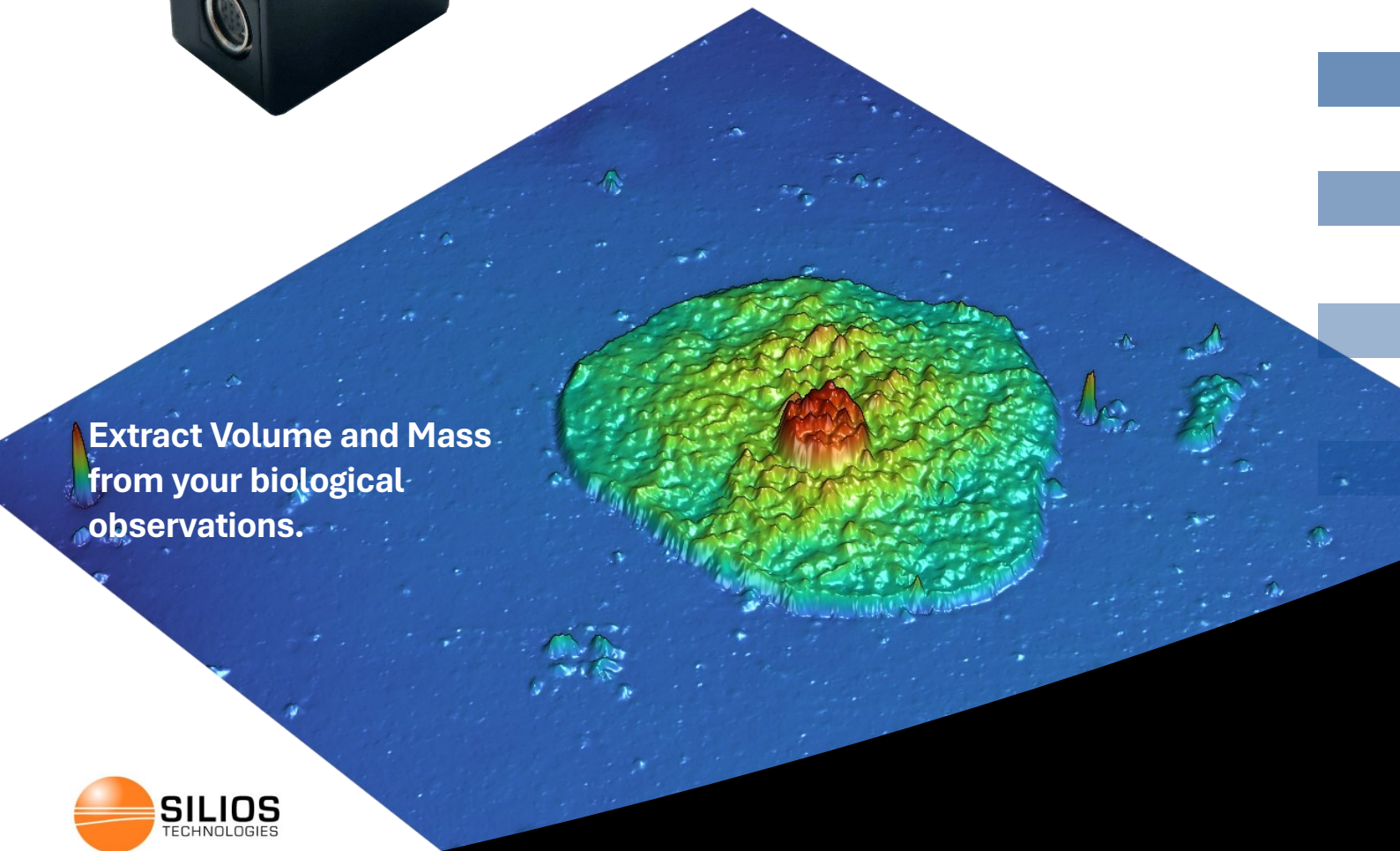
Wavefront Microscopy

SILIOS Technologies' MAKATEA Cameras are based on the *COLOR-SHADES®* technology (hybridization of micro-optical chips onto image sensors).

The MAKATEA Snapshot Wavefront Cameras capture 4.2Mpx raw images to provide 680x680 pixels wavefront images.



Snapshot Camera
Wavefront Image
400-900 nm Spectral Range
2048 x 2048 Native Resolution
680 x 680 Wavefront Resolution
10 Bits
USB3.0
External Trigger Input



Extract Volume and Mass from your biological observations.

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MAKATEA Camera

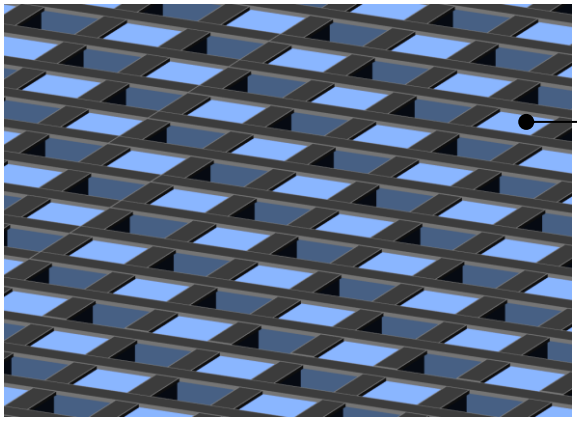
Wavefront Microscopy

FEATURES	
General	
Wavelength Range	400-900 nm
Microscope Compatibility	Any microscope equipped with a standard camera input port.
CMOS Sensor	
CMOS Sensor Native Resolution	2048 x 2048 (4.2MP)
CMOS Sensor Pixel Pitch	5.5 µm
CMOS Sensor Area	11.26 x 11.26 mm^2
Wavefront Image	
Wavefront Image Definition	680 x 680 (*)
Spatial Resolution	16.5 µm (**)
Sensitivity	< 1 nm RMS
Wavefront Camera	
Camera Max Frame Rate	90 fps
Wavefront Live Frame Rate	~10-15 fps (***)
Bit Depth	10 bits
Digital Output/Power Supply	USB3.0
External Trigger Input	Yes
Lens Mount	C-type or CS-type
Dimensions	60 x 40 x 26 mm^3
Weight	< 120 g

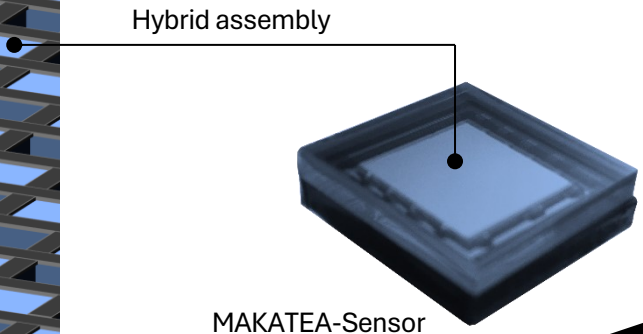
(*) possible 2048x2048 resolution for viewing

(**) spatial resolution at sample level with a x100 magnification: 165 nm

(***) depends on the PC configuration



Pixelated Diffractive Filter



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