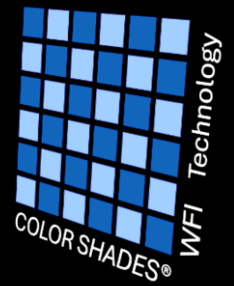


TIKEI Camera - 20MP

Wavefront Microscopy

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

The TIKEI Snapshot Wavefront Cameras capture 20Mpx raw images to provide 1500x1500 pixels wavefront images.



Snapshot Camera
Wavefront Image
400-900 nm Spectral Range
4500 x 4500 Viewing Resolution
1500 x 1500 Wavefront Resolution
10 Bits
USB3.0
External Trigger Input

**Unrivalled Combination of
High Spatial Resolution
and Large Field of View**



SILIOS Technologies
ZI Peynier-Rousset
Rue Gaston Imbert prolongée
13790 Peynier (France)

Tel : +33 (0)4 42 53 89 60
Fax : +33 (0)4 42 53 89 59
Email : contact@silios.fr
www.silios.com

TIKEI Camera - 20MP

Wavefront Microscopy

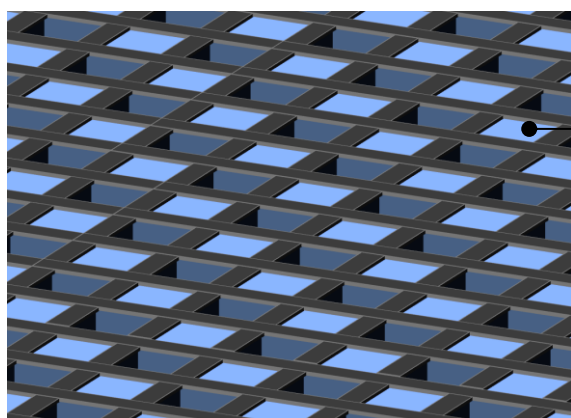


FEATURES	
General	
Wavelength Range	400-900 nm
Microscope Compatibility	Any microscope equipped with a standard camera input port.
CMOS Sensor	
CMOS Sensor Native Resolution	4500 x 4500 (20.3MP)
CMOS Sensor Pixel Pitch	2.74 μm
CMOS Sensor Area	12.34 x 12.34 mm^2
Wavefront Image	
Wavefront Image Definition	1500 x 1500 (*)
Spatial Resolution	8.2 μm (**)
Sensitivity	< 1 nm RMS
Wavefront Camera	
Camera Max Frame Rate	15 fps
Wavefront Live Frame Rate	~1 fps (***)
Bit Depth	10 bits
Digital Output/Power Supply	USB3.0
External Trigger Input	Yes
Lens Mount	C-type or CS-type
Dimensions	35 x 35 x 30 mm^3
Weight	< 75 g

(*) possible 4500x4500 resolution for viewing

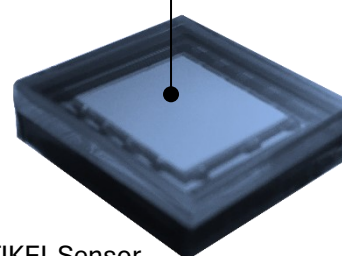
(**) spatial resolution at sample level with a x40 magnification: 205 nm

(***) depends on the PC configuration



Pixelated Diffractive Filter

Hybrid assembly



TIKEI-Sensor



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