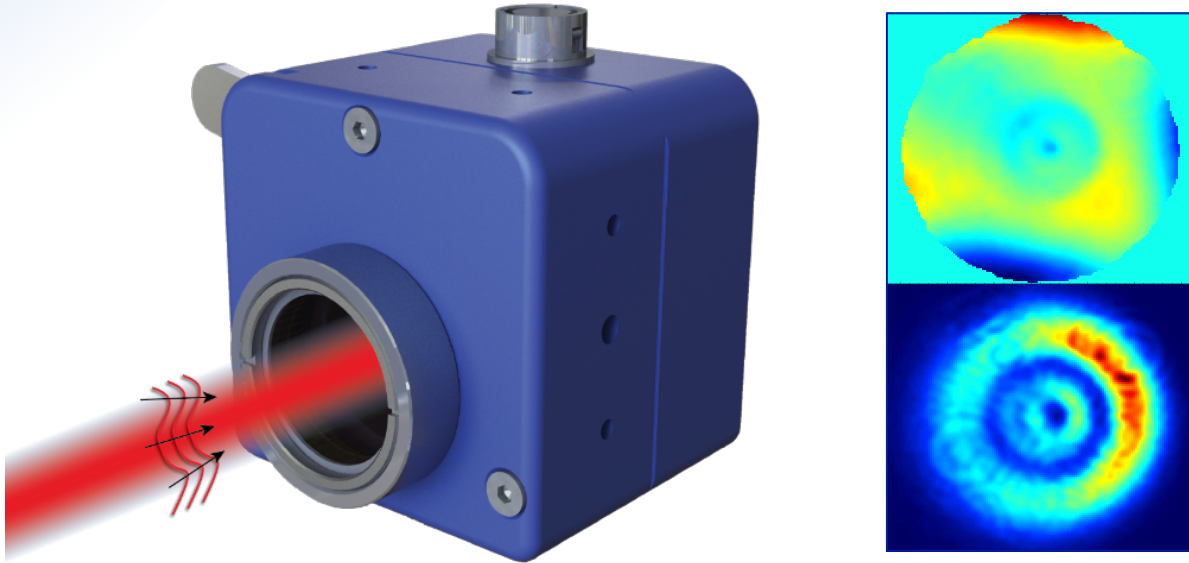


QuantoPhase™

Digital Shearing Wavefront Sensor



QuantoPhase™ wavefront sensors provide precision wavefront sensing solutions for optical metrology and laser beam characterization. Our patented wavefront sensing technology provides robust and affordable devices with customized wavelength range with the *lowest cost per sampling pixel*.

KEY FEATURES

- Amplitude + phase
- Zernike/Legendre coefficients
- Up to 512 x 512 sampling
- 100 λ dynamic range
- $\lambda / 100$ rms precision
- Visible and NIR wavelengths

APPLICATIONS

- Wavefront measurement
- Adaptive optics
- Laser beam characterization
- Lens characterization
- Laser beam collimation
- SDK for C++/MATLAB

RAM PHOTONICS, LLC.

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Digital Shearing Wavefront Sensor

SPECIFICATIONS

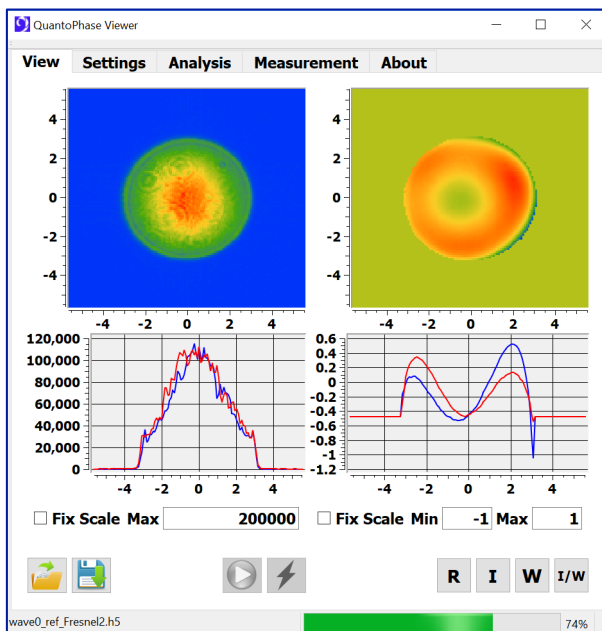
Due to our continuous improvement program, specifications are subject to change without notice.

	Standard	Options / Comment	Unit
Spatial Resolution	30 x λ / 532nm	-	μm
Sampling	up to 512 x 512	User selectable	-
Precision	λ / 100	-	-
Dynamic Range	100 λ	-	-
Operational Wavelengths⁽¹⁾	1064 & 532 ⁽¹⁾	800 nm, Customizable	nm
Bandwidth⁽¹⁾	± 100	-	nm
Detection Area	11.3 x 11.3	-	mm ²
ROC⁽²⁾ Dynamic Range	≥ 0.03 ⁽²⁾	-	m
Acquisition Rate	4-10 ⁽³⁾	Externally triggerable	Hz
Communications Interface	USB3	-	-
Operating System	Windows 7 or 10	-	-

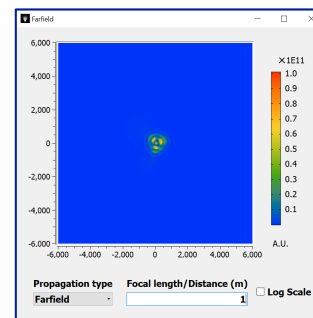
(1) Limited by silicon camera response ($\leq 1080\text{nm}$). The 1064/532 model covers HeNe wavelength (632.8 nm).

(2) ROC = Radius of Curvature. 0.03m is the smallest ROC measured at 1 μm ; smaller ROC measurement may be possible.

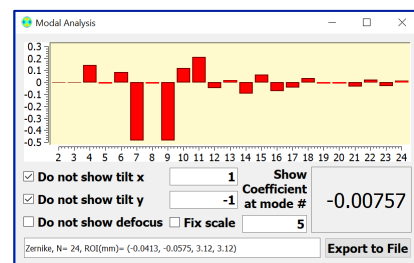
(3) At 128x128 sampling. Faster at smaller sampling. May vary depending on user computer system.



Dual view (Intensity/wavefront) window



Beam propagation window



Modal (Zernike) analysis window