- **The ShaH-03500 - industrial Shack-Hartman wavefront sensor is intended for a wide range of applications including fast and precise quality control of optical elements, airflow analysis, measurement of laser beam parameters, etc.**
- **A special high-precision algorithm for locating hartmann image spots centers provides very accurate measurements even in difficult viewing conditions.**
- **The SDK (C++) allows to operate all functions of the sensor and to achieve easy integration with user software.**

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WaveFront Sensor ShaH-03500

TECHNICAL SPECIFICATIONS	
Aperture diameter	3 mm
Spatial resolution	150 µm
Number of points for analysis	400
Maximum tilt normal/extended mode	±25/75 mrad
Minimum curvature	±60 mm
Repeatability RMS	0.5 nm
Absolute accuracy RMS	λ/100 *
Relative accuracy RMS (at maximum angular source size <10 mrad)	λ/1000
Relative measurement accuracy P-V (within 90% of input aperture)	λ/300
Tilt measurement sensitivity	0.6 µrad
Curvature measurement sensitivity	1.1 km
Acquisition frequency normal/binning mode	515 Hz
Processing frequency	up to 515 Hz
Hartmann image acquisition	16 bit
Working wavelength	200-1100 nm
Calibrated waveband	200 nm
Maximal exposure (at wavelength 550 nm)	0.4 nJ/cm^2
Working temperature	from 0 to +30 ˚C
Weight	2.9 kg
Dimensions	250x140x175 mm

** Better accuracy available upon request*

Visionica Ltd.
2015

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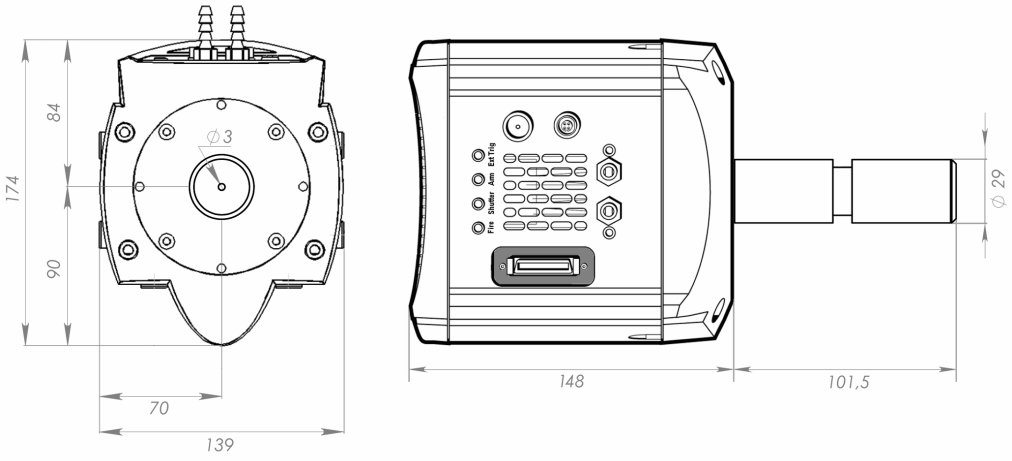
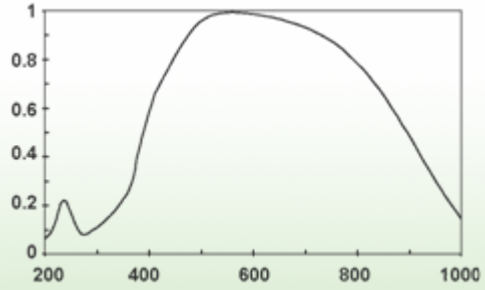
WaveFront Sensor ShaH-03500

Cooling	**Air/Water (using Re-circulator or Chiller)**
Operating system	**Windows 2000/XP/Vista/7/8 (32/64-bit)**
Output data	• **Sequence of raw hartmann images** • **Spot shift map** • **Wavefront aberration map (3D plot, 2D projection, synthesized interferogram, up to 55 Zernike polynomials)** • **Defocus/Curvature/Astigmatism** • **PSF (point spread function)** • **MTF (modulation transfer function)** • **Strehl ratio** • **M2 factor** • **Gauss-Hermite modes** • **Turbulence parameters C_n^2, R_0 *and other***

DIMENSIONS



SPECTRAL RESPONSIVITY



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Part Number:
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