

- The ShaH-021300 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.

TECHNICAL SPECIFICATIONS	
Aperture diameter	2.5 mm
Spatial resolution	250 μm
Number of points for analysis	90
Maximum tilt	±50 mrad
Minimum curvature	±0.02 m
Repeatability RMS	1.5 nm
Absolute accuracy RMS	λ/100 *
Relative accuracy RMS (at maximum angular source size <5 mrad)	λ/400
Relative measurement accuracy P-V (within 90% of input aperture)	λ/100
Tilt measurement sensitivity	2.2 µrad
Curvature measurement sensitivity	280 m
Acquisition frequency normal/binning mode	1300 Hz
Processing frequency	up to 1300 Hz
Hartmann image acquisition	10 bit
Working wavelength	400-1000 nm
Calibrated waveband	200 nm
Maximal exposure (at wavelength 700 nm)	0.08 nJ/cm ²
Working temperature	from +10 to +40 °C
Weight	280 g
Dimensions	82x60x42 mm

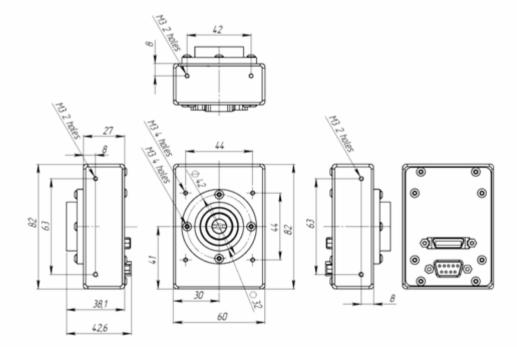
Visionica Ltd. 2015



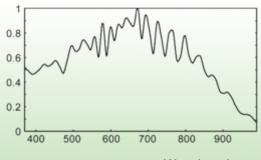
WaveFront Sensor ShaH-021300

CameraLink Cable	MDR Male-to-Male
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_n², R₀ and other

DIMENSIONS



SPECTRAL RESPONSIVITY



Wavelength, nm

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