

- The ShaH-0620 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. Modi	fication A (B)
Aperture diameter	6 mm
Spatial resolution	150 (500) µm
Number of points for analysis	1500 (140)
Maximum tilt normal/extended mode	±25/75 (±50/150) mrad
Minimum curvature	±0.12 (±0.06) m
Repeatability RMS	0.4 (0.8) nm
Absolute accuracy RMS	λ/100 *
Relative accuracy RMS (at maximum angular source size <10 (3) mrad)	λ/1800 (λ/900)
Relative measurement accuracy P-V (within 90% of input aperture)	λ/450 (λ/220)
Tilt measurement sensitivity	0.3 (0.5) μrad
Curvature measurement sensitivity	5.8 (3) km
Acquisition frequency normal/binning mode	20/48 Hz
Frame processing time	less 15 ms
Hartmann image acquisition	8/10 bit
Working wavelength	350-1100 nm
Calibrated waveband	400 nm
Maximal exposure (at wavelength 720 nm)	13 (0.3) nJ/cm ²
Working temperature	from 0 to +40 °C
Weight	250 g
Dimensions	80x60x40 mm

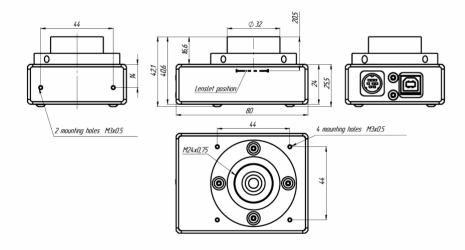
Visionica Ltd. 2015



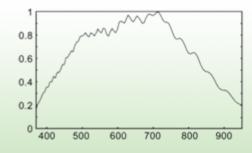


Interface/power supply	IEEE1394
Synchronization connector	Mini DIN
Operating system	Windows 2000/XP/Vista/7/8 (32/64-bit)
Output data	 Sequence of raw hartmann images Spot shift map Wavefront aberration map (3D plot, 2D projection, synthesized interferogram, up to 55 Zernike polynomials) Defocus/Curvature/Astigmatism 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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