

- The ShaH-04130 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	4.5 mm
Spatial resolution	300 μm
Number of points for analysis	200
Maximum tilt normal/extended mode	±35/100 mrad
Minimum curvature	±60 mm
Repeatability RMS	1 nm
Absolute accuracy RMS	λ/100 *
Relative accuracy RMS (at maximum angular source size <5 mrad)	λ/6500
Relative measurement accuracy P-V (within 90% of input aperture)	λ/160
Tilt measurement sensitivity	0.9 μrad
Curvature measurement sensitivity	1.2 km
Acquisition frequency	130 Hz
Processing time per frame	1 μs
Hartmann image acquisition	10 bit
Working wavelength	300 (170 **)-1000 nm
Calibrated waveband	200 nm
Maximal exposure (at wavelength 650 nm)	0.03 nJ/cm ²
Working temperature	from 0 to +50 °C
Weight	250 g
Dimensions	50x50x80 mm

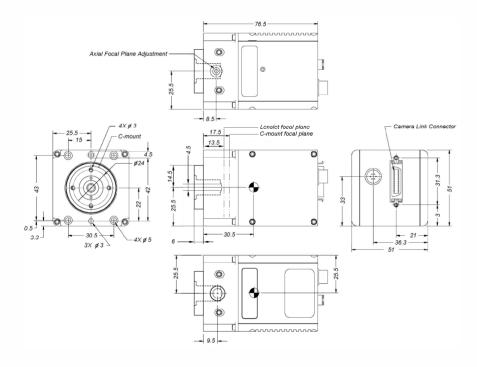
Visionica Ltd. 2015



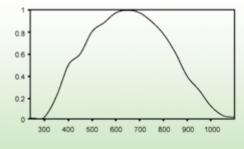
WaveFront Sensor ShaH-04130

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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