



- 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.

WaveFront Sensor ShaH-0620

TECHNICAL SPECIFICATIONS. MODIFICATION: A (B)	
Aperture dimension (diameter)	6 mm
Spatial resolution	150 μm (500 μm)
Number of points for analysis	1500 (140)
Maximum tilt normal/extended mode	±25/75 mrad (±50/150 mrad)
Minimum measured curvature	±0.12 m (±0.06 m)
Repeatability RMS	0.4 nm (0.8 nm)
Absolute measurement accuracy RMS	λ/100 *
Relative measurement 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 μrad (0.5 μrad)
Curvature measurement sensitivity	5.8 km (3 km)
Acquisition frequency normal/binning mode	20/60 Hz
Processing frequency	up to 60 Hz
Hartmann image acquisition	8/10 bit
Working wavelength	350-1100 nm
Calibrated waveband	400 nm
Maximal exposure (at wavelength 700 nm)	13 (0.3) nJ/cm ²
Working temperature	0-+40 °C
Weight	250 g
Dimensions (LxHxW)	80x60x40 mm
Interface/power supply	USB-2
Connector for INPUT/OUTPUT synchronization	Mini DIN



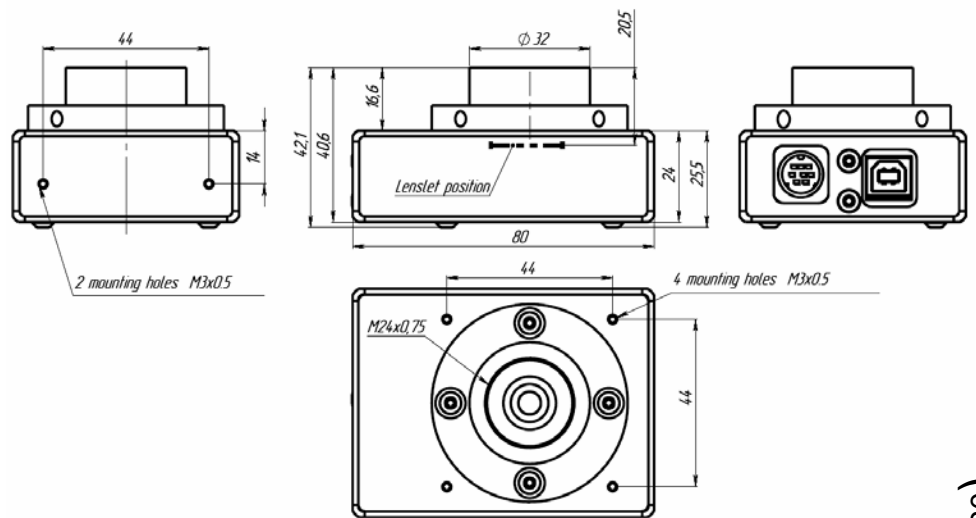
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TECHNICAL SPECIFICATIONS

Operating system	Windows 2000/XP/Vista
Output data	<ul style="list-style-type: none"> • Sequence of raw hartmann images • Spot shift map • Wavefront aberration map (3D plot, 2D projection, synthesized interferogram, up to 55 Zernike polynomials) • Measurement error map • PSF (point spread function) • MTF (modulation transfer function) • Strehl ratio • M2 factor • Gauss-Hermite modes

* Better accuracy available upon request

MECHANICAL DIMENSIONS



SPECTRAL RESPONSIVITY

