

- The ShaH-6060 - 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-6060

TECHNICAL SPECIFICATIONS	
Aperture dimension (diameter)	60 mm
Spatial resolution	1.5 mm
Number of points for analysis	1500
Maximum tilt normal/extended mode	±2.5/7.5 mrad
Minimum measured curvature	±12 m
Repeatability RMS	0.4 nm
Absolute measurement accuracy RMS	$\lambda/100$ *
Relative measurement accuracy RMS (At maximum angular source size <1 mrad)	$\lambda/1800$
Relative measurement accuracy P-V (Within 90% of input aperture)	$\lambda/450$
Tilt measurement sensitivity	0.025 μ rad
Curvature measurement sensitivity	580 km
Acquisition frequency	60 Hz
Processing frequency	up to 60 Hz
Hartmann image acquisition	8/10 bit
Working wavelength	350-1100 nm
Calibrated waveband	200 nm
Maximal exposure (at wavelength 700 nm)	0.13 nJ/cm ²
Working temperature	0-+40 °C
Weight	2800 g
Dimensions (LxHxW)	300x160x100 mm

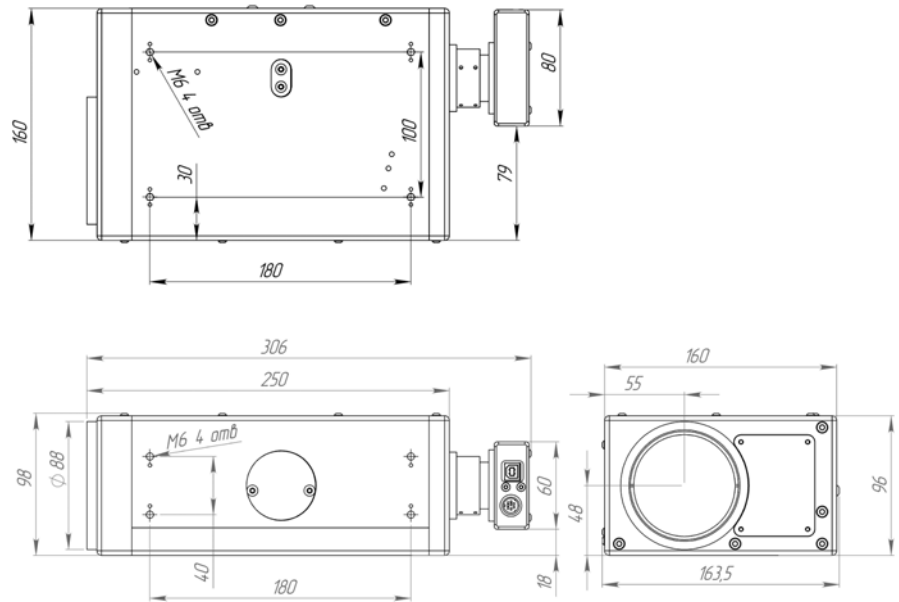


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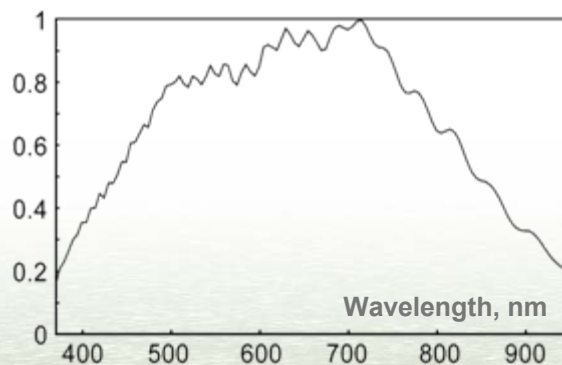
TECHNICAL SPECIFICATIONS	
Interface/power supply	USB-2
Connector for INPUT/OUTPUT synchronization	Mini DIN
Operating system	Windows 2000/XP/Vista
Output data	<ul style="list-style-type: none"> • Sequence of raw hartmann images • Spot shift map • Wavefront aberration map (3D plot, 2D projection, synthesized 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



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