

• The ShaH-10025-IR - 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	100 mm
Spatial resolution	8.3 mm
Number of points for analysis	135
Maximum tilt normal/extended mode	±1.2 mrad
Minimum curvature	±42 m
Repeatability RMS	2 nm
Absolute accuracy RMS	λ/100 *
Relative accuracy RMS (at maximum angular source size <2 mrad)	λ/4000
Relative measurement accuracy P-V (within 90% of input aperture)	λ/1000
Tilt measurement sensitivity	0.08 µrad
Curvature measurement sensitivity	300 km
Acquisition frequency	25/50 Hz
Processing frequency	up to 50 Hz
Hartmann image acquisition	16 bit
Working wavelength	3-10 µm
Calibrated waveband	2 µm
Maximal exposure (at wavelength 720 nm)	0.04 nJ/cm ²
Working temperature	from +10 to +45 °C
Weight	6.3 kg
Dimensions	600x450x175 mm

WaveFront Sensor ShaH-10025-IR

* Better accuracy available upon request

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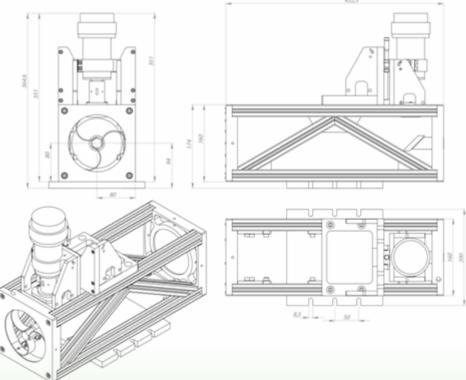


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Interface	Gigabit Ethernet (IEEE 802.3ab), GigE Vision compliant
Input power	12 W
Operating system	Windows 2000/XP/Vista/7/8 (32/64-bit)
Output data	 Sequence of raw hartmann images Spot shift map Wavefront aberration map (3D plot, 2D projection, synthesized 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



Part Number: VC.SHAH-100-1-50-25-IR