- **The ShaH-1035 - 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.**

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WaveFront Sensor ShaH-1035

TECHNICAL SPECIFICATIONS	
Aperture diameter	**10 mm**
Spatial resolution	**300 µm**
Number of points for analysis	**1000**
Maximum tilt normal/extended mode	**±35/100 mrad**
Minimum curvature	**±0.13 m**
Repeatability RMS	**1 nm**
Absolute accuracy RMS	**λ/100 ***
Relative accuracy RMS (at maximum angular source size <5 mrad)	**λ/650**
Relative measurement accuracy P-V (within 90% of input aperture)	**λ/160**
Tilt measurement sensitivity	**0.4 µrad**
Curvature measurement sensitivity	**6 km**
Acquisition frequency	**35 Hz**
Processing time per frame	**5 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**

** Better accuracy available upon request*
*** with UV Options*

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2015

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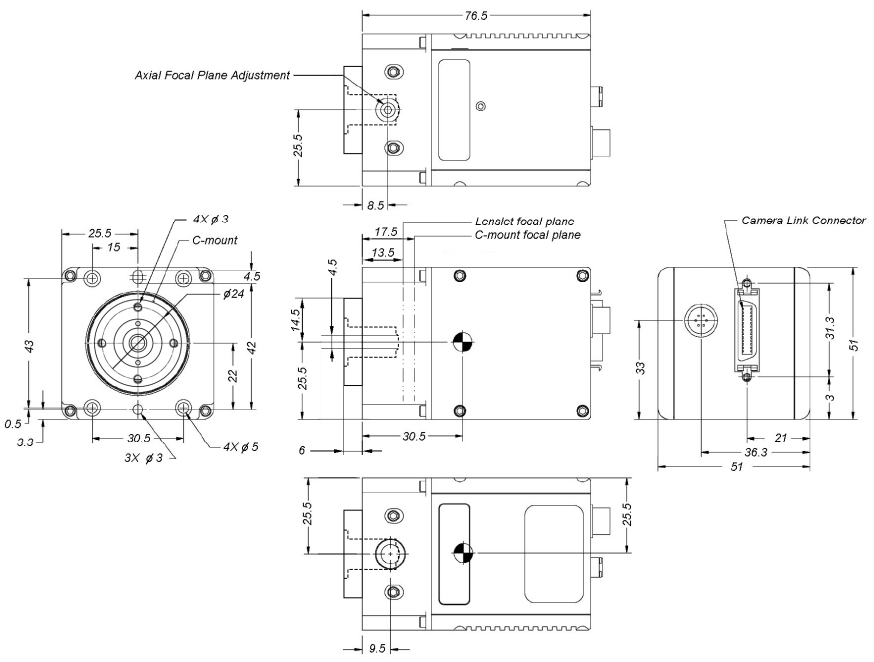
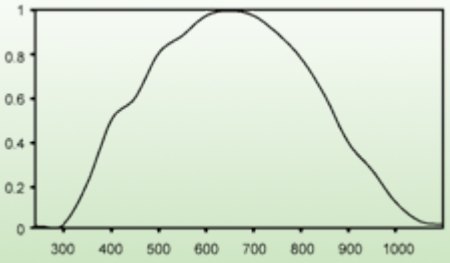
WaveFront Sensor ShaH-1035

Interface/power supply	**IEEE1394**
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_n^2, R_0 *and other***

DIMENSIONS



SPECTRAL RESPONSIVITY



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Part Number:
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