



## Optical Spectrum Analyzer

The EagleEye Optical Spectrum Analyzer (OSA) is a compact unit for measuring the spectral characteristics of lasers. The EagleEye consists of a stable INVAR® based confocal high finesse cavity. The cavity can be utilized as a scanning Fabry-Perot

interferometer to examine CW laser mode spectra. Additionally, the cavity can be actively locked to a laser line for high-resolution laser frequency analysis. Laser linewidth of as low as 20 kHz can be measured.

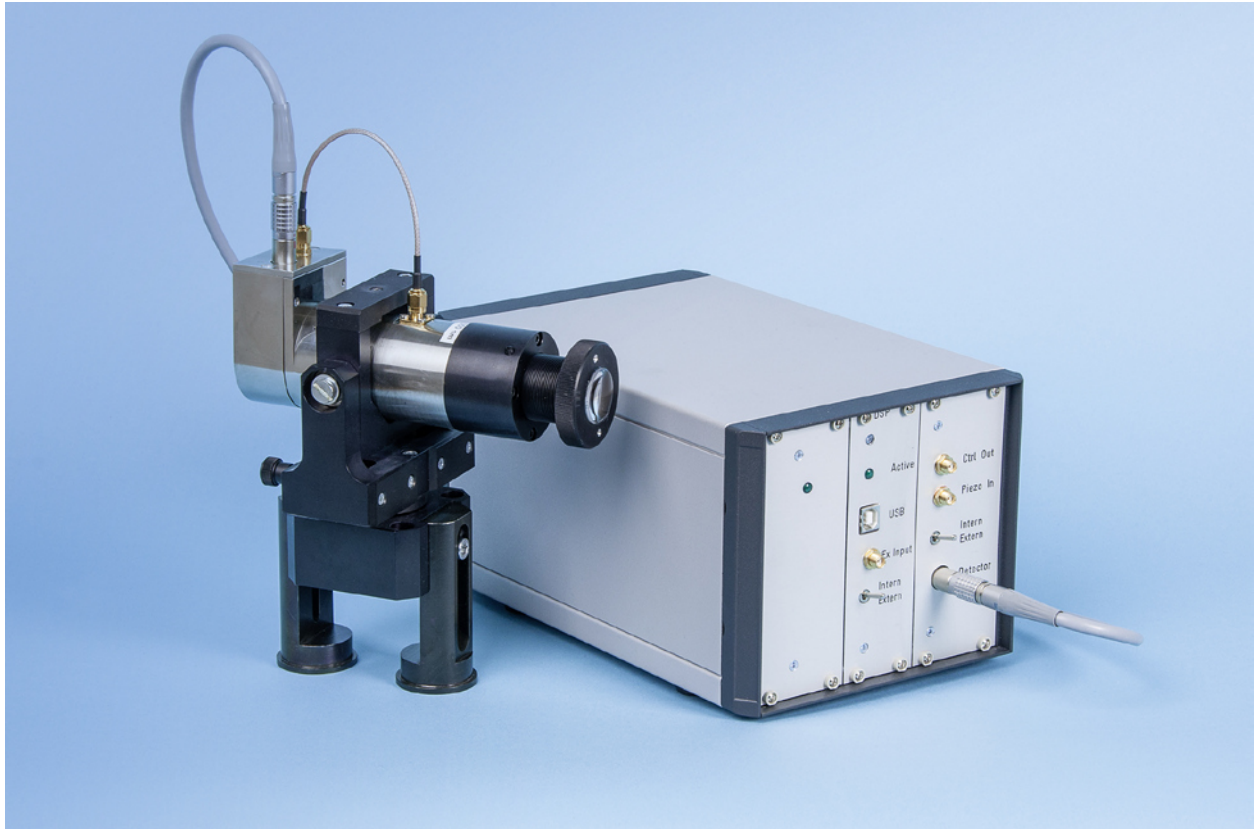
## General Characteristics

<b>Cavity</b>	
1.5 GHz Free Spectral Range	
Maximum Finesse > 300	
INVAR® construction	
User-Interchangeable Optic Sets	
Broadband Coatings (Standard: 500 nm .. 1100 nm)	
Integrated Mount for Neutral Density Filters	
<b>Detector</b>	
Visible 300 nm .. 1100 nm	
Infrared 800 nm .. 2600 nm	
Bandwidth 300 kHz	
Integrated Variable Gain Amplifier	
Single Connector to Controller Rack	
<b>Controller</b>	
DSP Based Controller Board	
Full Speed USB 2.0 port	
Sampling Rate Up to 250 kHz	
Recording Times 1 s, 100 ms, 60 ms	
Optional External Control of Piezo Voltage	
<b>Software</b>	
Laser Linewidth Resolution Limit < 20 kHz / 100 msec	
LabVIEW Based Control Software	
Immediate Calculation of Laser Linewidth	
Fourier Transform of Frequency Noise	
Intuitive Operation	

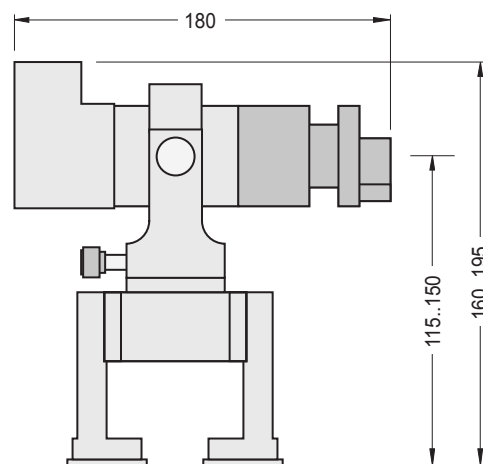
## Requirements

Computer Control	Windows XP / Vista / 7 / 8 / 10, USB-Port
Voltage	110 .. 230 V

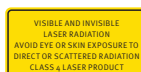
## EagleEye



## Detector Head Dimensions



All Dimensions in mm  
Specifications are subject to change without notice



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