

The EagleEye Optical Spectrum Analyser (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

Cavity

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

Detector

Visible 300 nm .. 1100 nm

Infrared 800 nm .. 2600 nm

Bandwidth 300 kHz

Integrated Variable Gain Amplifier

Single Connector to Controller Rack

Controller

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

Software

Laser Linewidth Resolution Limit < 20 kHz / 100 msec

LabVIEW Based Control Software

Immediate Calculation of Laser Linewidth

Fourier Transform of Frequency Noise

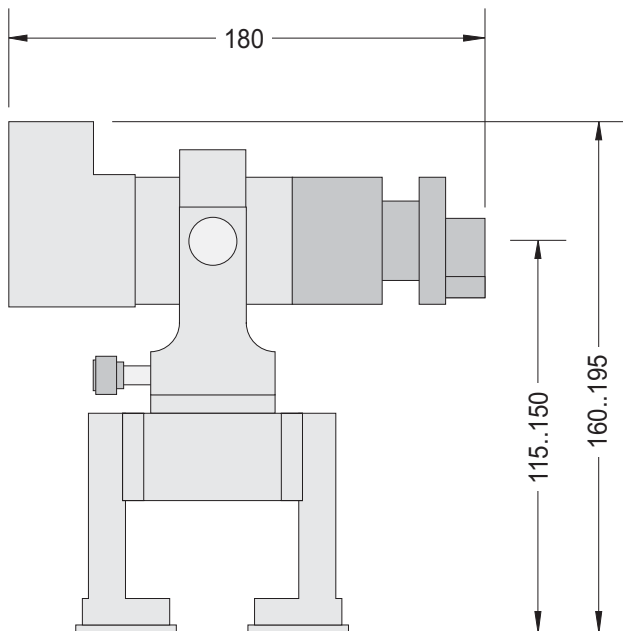
Intuitive Operation

Requirements

Computer	Windows 2000 / XP / Vista, 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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