Technical Datasheet

Features

- compact and easy to use

- USB powered

- PC display and analog output

- logging and data export

- wide input power range

The WaveEye is a highly accurate and very compact wavemeter. The innovative internal design makes it faster, easier to operate and much smaller than competing products. The input light can be CW and quasi-CW laser-light or incoherent light with a narrow spectrum. Wavelength data is available at a 1kHz data rate, with no warm-up delay.

The WaveEye is operated with a USB cable via the supplied software interface or via text-based commands. In addition, the wavelength information is available as a voltage at the analog output.

Due to its extremely small size, the WaveEye is ideally suited as an OEM component, e.g. in tunable lasers, as part of a larger measurement device and in a wide range of other applications.
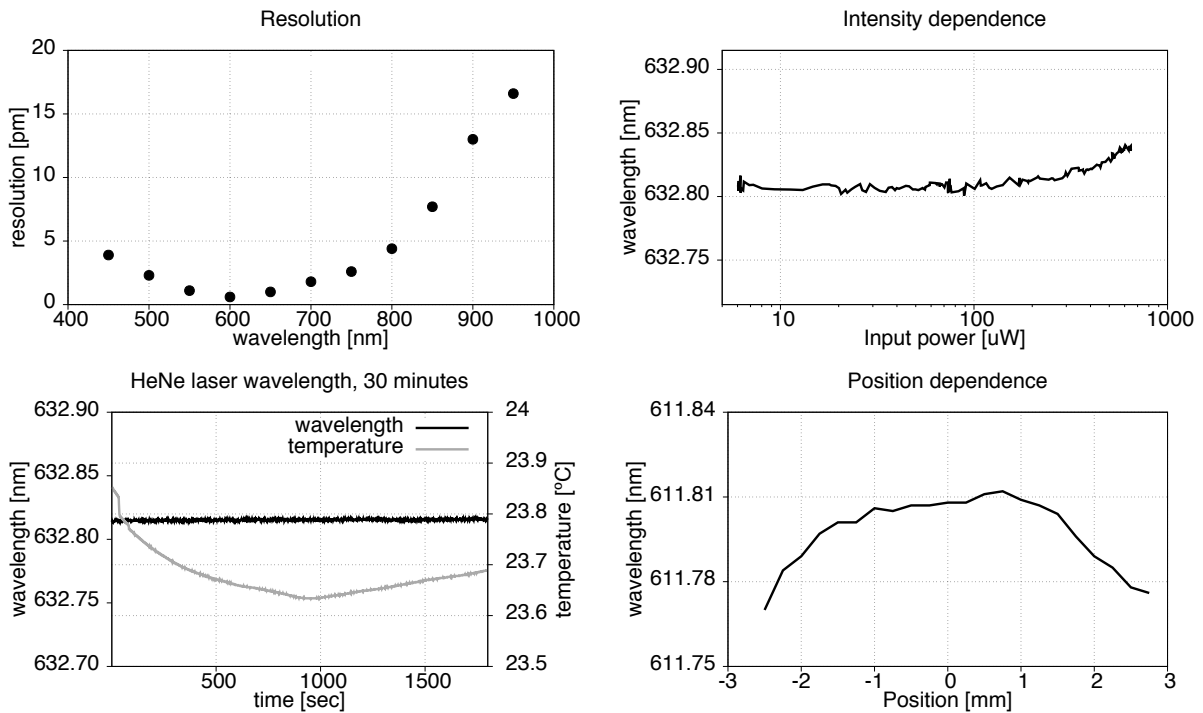
Applications

- characterization of diode lasers

- integration into tunable lasers

- spectroscopy

- gas detection

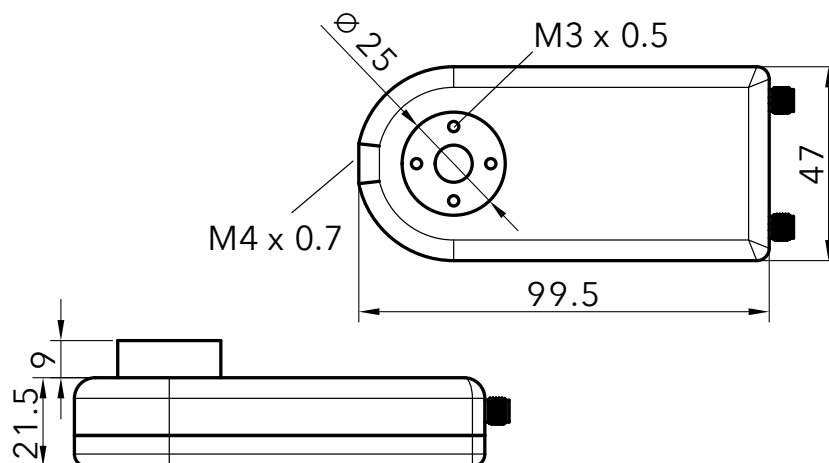- characterization of detectors and other test equipment

Specifications

spectral range	450 to 950 nm
resolution	2 pm @ 700 nm
accuracy, factory calibration	$\pm$ 100 pm
accuracy, user calibration	$\pm$ 20 pm
input power range	0.1 μW to 1 mW
max. input spectrum	1 nm
max. data rate	1 kHz
analog output range	0 to 4.096 V
analog resolution	16 bits
temperature range	18 to 32 °C

Characteristics

Resolution

Intensity dependence

HeNe laser wavelength, 30 minutes

Position dependence

Dimensions

All dimensions shown in mm.

Contact

WaveEye UG (haftungsbeschränkt)

www.waveeye.eu

Specifications are subject to change without notice.