Spectrometers

USB spectrometer

Laser QUANTUM
A Novanta Company

- Broadband scanning USB spectrometer
- Ideal for broad spectral bandwidth
- Compact and robust

Overview

The spectra of our broadband **Venteon** oscillators are difficult to measure with standard Si-based CCD-spectrometers. Limited by the detector sensitivity these devices are only suitable to cover a spectral range up to 1050 nm, which is not enough for the broadband spectra of state-of-the-art femtosecond lasers such as **venteon ultra**, which covers a spectral range up to 1200 nm. So far only expensive and scanning optical spectrum analyser have been suitable for a reliable oscillator characterisation.

The TQ systems irSys USB spectrometer is a compact, mobile USB spectrometer that covers a wavelength range spanning from 610 nm up to 1700 nm, more than enough to characterise our broadest oscillators. This device is a scanning-type spectrometer and features a MEMS mirror array for scanning the spectral components onto a Si- as well as an InGaAs-detector.

USB Spectrometer TQ systems irSys Type I

Specifications

Wavelength range: 610-1700 nm
Si- & InGaAs detectors
Spectral resolution: <5 nm
SNR (single shot): 7000:1
Temperature dependency: 0.01nm/K

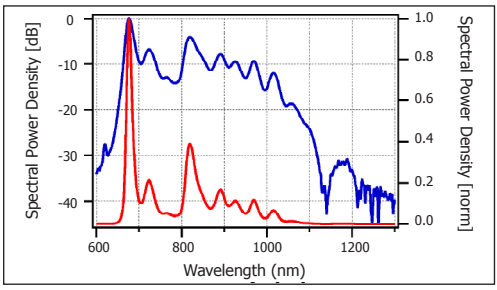
Technical data

Fibre plug: SMA 905
Interface: USB/RS485
Compatible with Windows 7, XP & Vista
Dimensions: 104 x 75 x 85 mm^3
Weight: ~750 g (~1.65 lbs)

Included in delivery

USB spectrometer iRSys Type 1
Power supply
USB cable & drivers
Spectrometer software & documentation

Very compact and robust scanning USB spectrometer irSys Type I, its dimensions measuring only 104 x 75 x 85 mm^3.



Broadband spectrum recorded with irSys USB spectrometer shown on a logarithmic scale (blue) and linear scale (red). The wavelength range can be expanded up to 1700 nm.

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