

## Femtosecond Accessories

### – Broadband Scanning USB Spectrometer

- ▶ The spectra of our broadband **VENTEON | PULSE : ONE** 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 | PULSE : ONE OS**, exceeding 1200 nm. So far only expensive and scanning optical spectrum analyzer have been suitable for a reliable oscillator characterization.
- ▶ The Colour Control IRSys USB spectrometer is a compact, mobile and reasonable priced USB spectrometer that covers a wavelength range spanning from 610 nm up to 1700 nm with a high dynamic, more than enough to characterize 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.

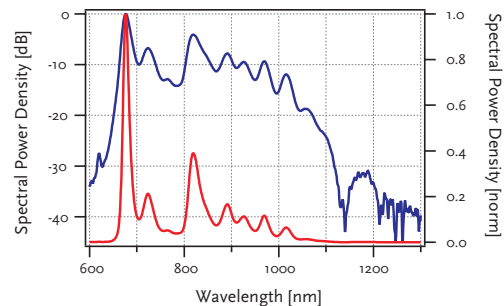
### ▶ USB Spectrometer Colour Control IRSys Type I

#### ▶ Specifications

- Wavelength range: 610 - 1700 nm
- Si- & InGaAs detectors
- Spectral resolution: < 5 nm
- Slit size: 150 µm
- Dispersion: 15 nm/mm
- SNR (single shot): 7000 : 1
- Temperature dependency: 0.01 nm/K

#### ▶ Technical Data

- Fiber plug: SMA 905
- Interface: USB / RS485
- Compatible with Windows 2000, XP & VISTA
- Dimensions: 107 x 66 x 80 mm<sup>3</sup>
- Weight: ~750 g (~1.65 lbs)



- ▶ Very compact and robust scanning USB spectrometer IRSys Type I, its dimensions measuring only 107 x 66 x 80 mm<sup>3</sup>.
- ▶ 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.

#### ▶ Included in Delivery

- USB Spectrometer
- Power Supply
- USB Cable & Drivers
- Spectrometer Software & Documentation