TRICLOPS 400 - 4500 nm Spectrometer

TRICLOPS is a compact and rapid scan vis-NIR-SWIR-MIR spectrometer. With its unique and patented technology based on **time-domain Fourier Transform** detection, it can monitor the emission spectrum of light sources with extreme precision and measure absorption, transmission or reflectance spectra.

Key Features

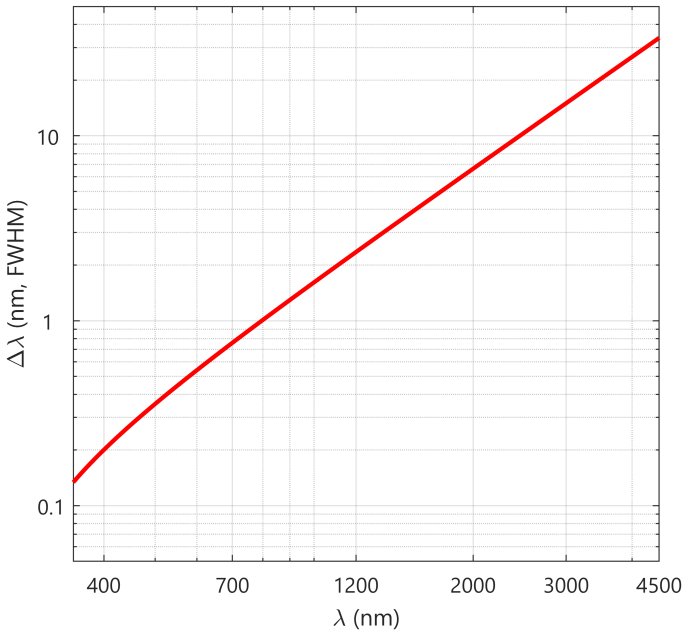
- Broadband spectral coverage
- High spectral resolution
- Adjustable and fast refresh rate
- High sensitivity and throughput
- Light input in free space or fiber coupled

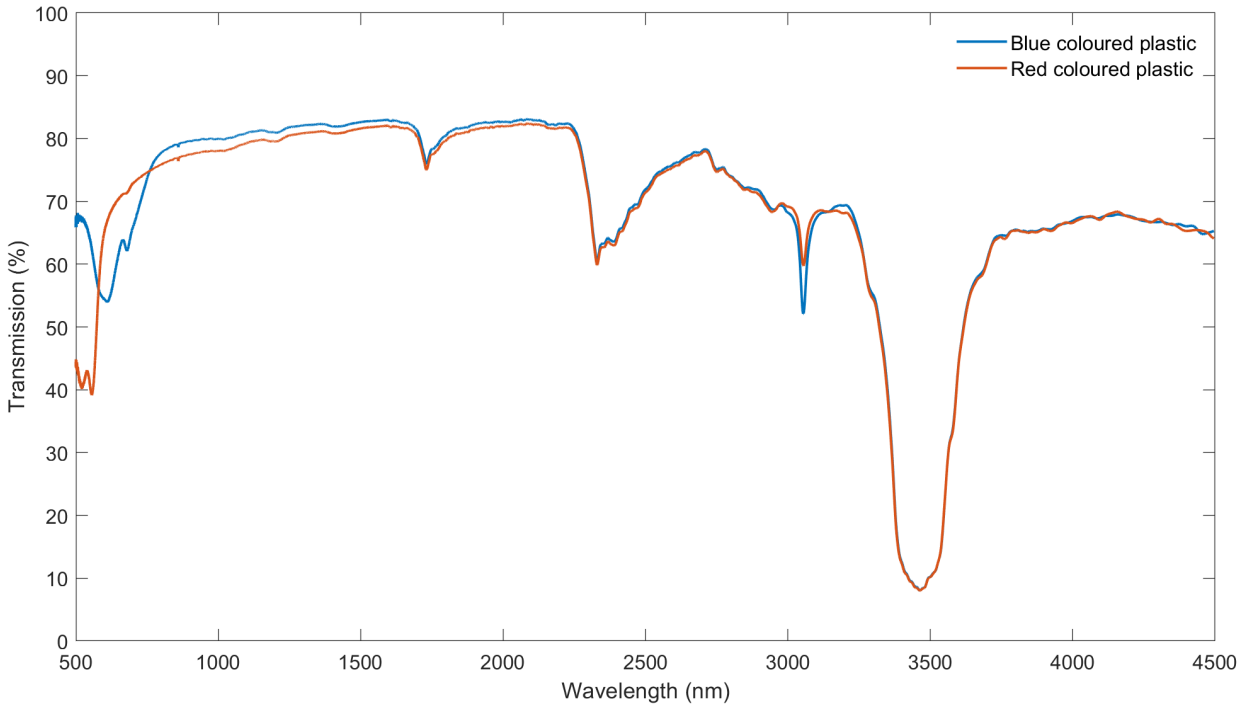
Applications

- Monitoring emission of light source
- Absorption/Transmission/Reflectance
- Materials characterization
- Optical coating measurement

Customer Benefits

- User-friendly software interface
- Compact, lightweight, USB-C connection to the computer





Example of transmission spectra acquired on coloured plastic films.

Technical specifications

Wavelength range	400 - 4500 nm
Spectra collection rate	0.5 - 3 Hz
Spectral resolution	10 cm^{-1}
Light input method	Fiber-coupled or Collimated*
Fiber coupled input	Fiber core Ø ≤ 1 mm, NA = 0.33 (f/1.5)
Collimated input	10 mm Ø aperture
Photodetectors	Si, InGaAs, 2-stage TE-cooled PbSe
Interface	USB-C 2.0
Dimensions	180 × 160 × 55 mm
Weight	1.5 kg
Software	Windows 10/11 OS GUI and API avalibale

* Switchable via software.