

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

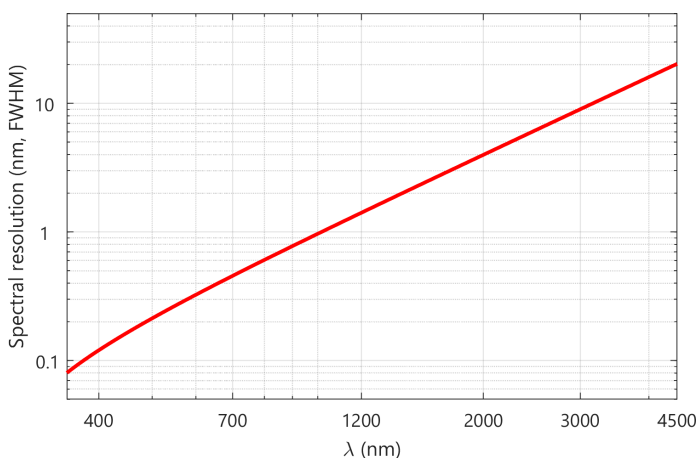
Applications

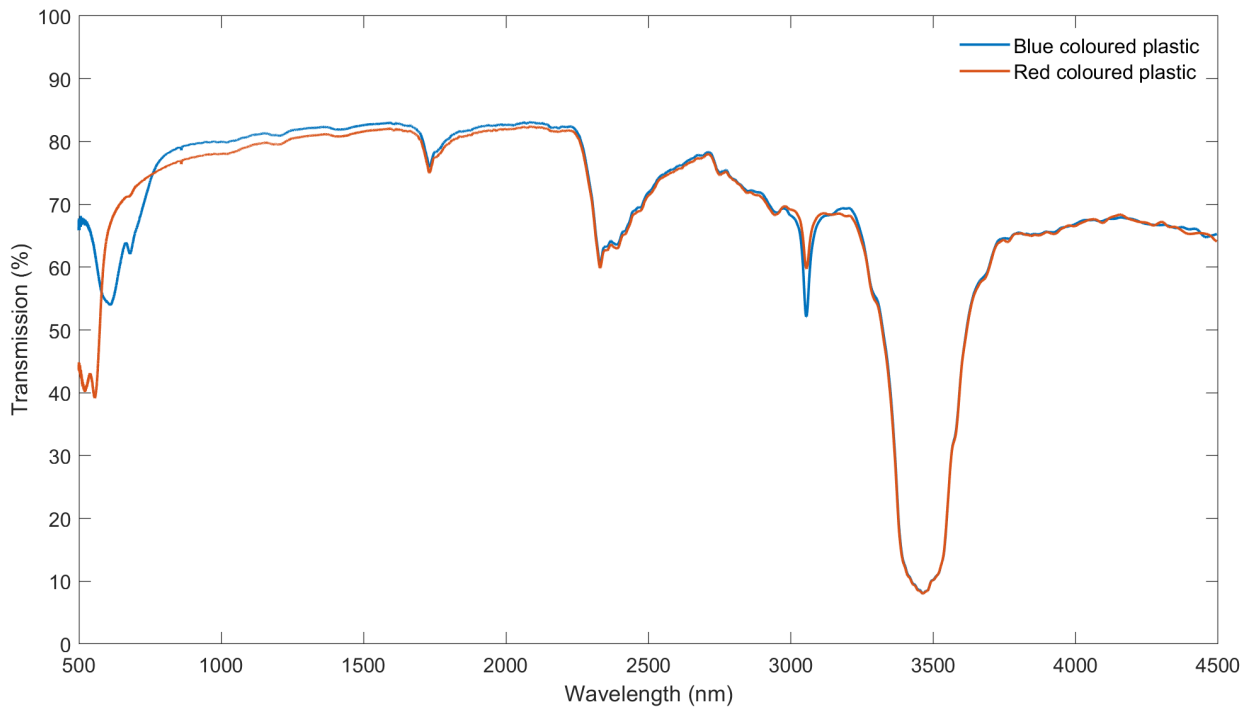
- Monitoring emission of light sources
- Absorption/Transmission/Reflectance
- Materials characterization
- Optical coating characterization

Customer Benefits

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

Spectral Resolution





Example of transmission spectra acquired on coloured plastic films.

Technical specifications

Wavelength range	400 - 4500 nm
Spectra collection rate	0.5 - 2 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
Light source	CW or pulsed with rep. rate > 1 MHz
Photodetectors	Si, InGaAs, TE-cooled PbSe
Interface	USB-C 2.0
Dimensions and Weight	180 × 160 × 55 mm, 1.5 kg
Power Supply	12 V / 2 A
Enclosure	Fanless, dust sealed**
Software	Windows 10/11 OS

* Switchable via software. ** CaF2 entrance window optional.