Aurora Pro Scientific (Distributor)
103 Godwin Ave, Suite 133
Midland Park, NJ 07432, USA
sales@auroraprosci.com
www.auroraprosci.com

Vis-NIR Spectrometer



The ARCoptix VIS-NIR spectrometer is a broadband spectroscopy solution covering both the visible (down to 350 nm) as well as the near-infrared (up to 2500 nm). This all-fibered unit integrates our ARCoptix FT-NIR spectrometer as well as a multichannel grating spectrometer to probe light in the visible range. The two individual spectra are then processed and merged automatically in our software to deliver a single measurement of the VIS-NIR spectrum.

Featuring a high resolution (better than 1.5 nm) over its entire measuring range, the ARCoptix VIS-NIR spectrometer is a highly convenient, compact and user friendly instrument for various applications. The unit includes a dedicated Y-branch fiber bundle optimized for each spectral range in order to maximize the signal measured by each built-in instrument.

Applications

- *Transmission measurement*
- *Diffuse reflectance measurement*
- *Light source characterization*
- *Material identification*

Features

- **Grating spectrometer & FT-NIR combined**
- **Y-branch fiber bundle**
- **Lightweight and compact (22x18x8 cm)**
- **High resolution < 1.5nm over the 350-2500nm range**
- **Fast acquisition time (2 s)**
- **USB 2.0 connection**
- **Access to instrument individual data & combined information**
- **Compatible with various fibered accessories**

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Specifications

Product code	VIS-NIR-FIB
Spectral range	350nm-2'500nm
Resolution	< 1.5 nm
Fiber inputs	2X SMA-905
Single acquisition scanning time [s]	2
Software interface	Windows 7/10/11
Power supply	12 VDC (power supply included)
Communication interface	USB 2.0
Dimensions [mm]	220x180x80
Weight [kg]	2.5
Operating temperature [°C]	5-35
	VIS Spectrometer
Technology	Array detector grating spectrometer
Spectral range	350nm-1'000nm
Resolution	~1.5 nm (25 µm slit)
	NIR Spectrometer
Technology	Fourier-transform spectrometer, model FTNIR-L1-025-2TE
Spectral range	900nm-2'500nm (extended InGaAs detector, 2TE cooled)
Resolution	<1.5nm (2cm^{-1})

SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE. Please contact sales@auroraprosci.com for more information.

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