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DATASHEET

ARCoptix FT-NIR *Rocket* 0.9-2.6µm

Fibered near-infrared Fourier-transform spectrometer



If you are looking for high performance, compact and affordable NIR spectrometer, the ARCoptix FT-NIR Rocket is the instrument that you need. Thanks to its permanently aligned interferometer and temperature-stabilized, solid-state reference laser, the FT-NIR Rocket offers excellent stability in both intensity and wavelength scales. The FT-NIR Rocket fibered spectrometer is compatible with light sources and sampling accessories typically used with array-detector based NIR spectrometers. Experience the high-quality

- Benefits
  - Broad wavelength range 0.9-2.6µm
  - High resolution of 4cm^{-1} (<1nm@1µm to <5nm@2.5 µm)
  - Excellent stability in intensity and wavelength
  - Very good sensitivity, available with 2TE cooled InGaAs
  - Very compact and rugged, easy to use

- Applications
  - Transmission, diffuse reflectance
  - Light source measurement (NIR Lasers, LED, Solar,…)
  - Material identification and quantification in various fields such as geology, food and beverage industry, drug & medical diagnostics

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Specifications

Product code	FTNIR-L1-026-0TE	FTNIR-L1-025-2TE
Detector	Extended type InGaAs (uncooled)	Extended type InGaAs 2-stage TE-cooled
Spectral range	0.9–2.6µm (11000–3850cm^{-1})	0.9–2.5µm (11000–4000cm^{-1})
Interferometer type	Permanently aligned with dual retro-reflector	
Internal reference laser	Solid-state 795nm	
Resolution	4 or 8 cm^{-1} (user selectable)	
Minimum measurement cycle time	1 sec	
Signal-to-noise ratio (SNR)	>30'000:1[i]	
Wave-number repeatability	<20 PPM	
Optical fiber input	SMA 905 connector, up to 1mm fiber core diameter, NA=0.25	
Communication interface	USB 2.0	
Power requirements	7.5-12V (1-6W depending on versions)	
Software interface	Windows 7/10 software	
Operating temperature / humidity	5 to 35°C / non condensing	
Storage temperature	-10 to 60°C	
Dimensions	180mm x 126mm x 78mm	
Weight	1.7 KG	

[i] Measured with a 20W halogen lamp in transmission mode, 5s measurement, around peak sensitivity wavelength, Norton-Beer weak apodization, linearly corrected baseline, resolution setting 8 cm^{-1}

SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE.

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