

ANIR Series

The ANIR series of scanning Fourier Transform Spectrometers (FTS) uses an exclusive micro-actuated lamellar grating and operates with a single photodiode detector. The actuation of the interferometer system is actively controlled by a laser enabling a precise and reliable operation. The single photodiode detection ensures highest dynamic range and signal quality at very attractive pricing. The spectrometer is fibre based, USB powered and portable. The modular concept of the ANIR allows users to adapt it for specific applications, as the wavelength range is solely dependent on the detector choice.

Applications

- » Food analysis
- » Gas detection
- » Environmental monitoring
- » Security
- » Material identification and process control
- » Laser characterization

Features

- » Huge wavelength range:
900 nm -2600 nm (or 2000-4500 nm)
- » High resolution of 8 cm⁻¹
- » Optional parameters like variable gain,
variable resolution and variable scan speed

Advantages

- » Reliable, maintenance-free operation
- » High quality and robust system
- » Low power consumption.
- » Extreme wavelength ranges
- » High resolution and high throughput
- » High signal to noise ratio

Specifications

ANIR 0.9-1.7

ANIR 0.9-2.6

ANIR-MIR 2.0-4.5

SPECTROSCOPIC			
Spectral range	900 – 1700 nm	900 – 2600 nm	2000 – 4500 nm
Detector type	InGaAs	InGaAs	MCT
Resolution in wavenumber: At 1000 nm: At 1700 nm: At 2600 nm: At 4500 nm:	8 cm ⁻¹ 1.4 nm 4.2 nm	8 cm ⁻¹ 1.4 nm 4.2 nm 9.7 nm	8 cm ⁻¹ 9.7 nm 29.2 nm
Wavelength accuracy	< 0.5 nm	< 0.5 nm	< 0.5 nm
Signal-to-noise ratio	> 1 : 1000	> 1 : 1000	1 : 300
A/D converter	16 bit	16 bit	16 bit
Minimum scan time	1 s	1 s	1 s
Effective measurement time	5 s	5 s	5 s
OPTICAL BENCH			
Optical fibre entrance	650 µm (Fibre core diameter)	650 µm (Fibre core diameter)	650 µm (Fibre core diameter)
Fibre optic connector	SMA 905	SMA 905	SMA 905
PHYSICAL			
Dimensions	210 mm x 100 mm x 70 mm	210 mm x 100 mm x 70 mm	210 mm x 100 mm x 70 mm
Weight	850 g	850 g	850 g
ELECTRONICS			
Operating voltage	5 V (USB powered)	5 V (USB powered)	5 V / 3 A
Operating temperature	10 - 30 °C	10 - 30 °C	10 - 30 °C
COMPUTER			
Software interface	Windows XP	Windows XP	Windows XP
Communication interface	USB 2.0	USB 2.0	USB 2.0



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