

ProNIR

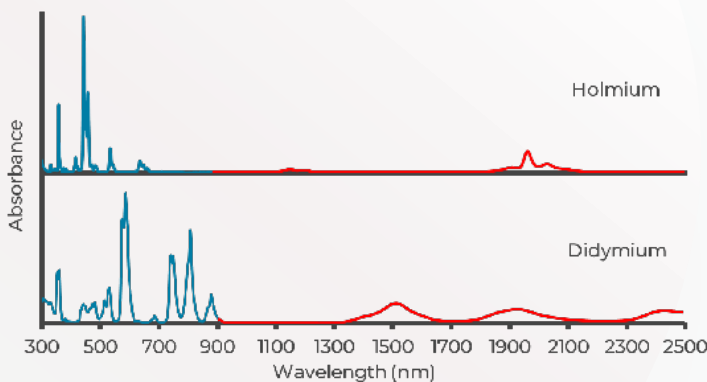
ULTIMATE FLEXIBILITY FOR NEAR INFRARED SPECTROSCOPY!

- *Detection Range from 850 to 2500 nm*
- *Thermoelectric cooled InGaAs detector for low noise signal and great spectral stability*
- *Interchangeable slits and filters for user controlled sensitivity, optical resolution and detection range*
- *Easy to integrate: fiber optic coupling and trigger functions*
- *Advanced electronics with 18 bits ADC and optional battery pack for field operation*
- *Software LightScan 2.0 included*



A WIDE RANGE FOR MORE INFORMATION

The ProNIR series can be easily combined with any of our UV-Vis-NIR Series (FLEX, FLEX+, SENSE, or X-RES) to obtain a wide range absorption, transmission, and reflectance spectrum. The simultaneous acquisition method is a major feature included in the new LightScan 2.0 software that allows users to acquire a full spectrum from 185 to 2500 nm in a single determination, and within a few milliseconds.



HOW FLEXIBLE DO YOU NEED YOUR SPECTROMETER TO BE?



The fiber optic coupling on the ProNIR series allows the connection to different spectroscopic setups without the need for complex optical alignments. Features, such as user interchangeable slits and filters allow for the best optical operation and performance in each application. The flexibility of this series is perfected with a number of integration tools that include triggers (trigger in/out and delays) and LabVIEW™ or DLL software packages, for software development.

COLD DETECTOR, HOT PERFORMANCE!

The ProNIR series detector is equipped with a thermoelectric cooler capable of decreasing the temperature of the InGaAs photodiode array, as low as -20 °C. This major feature reduces the noise signal and improves the thermal stability of the spectrometer. This ensures a strong acquisition reliability during a long operating period.

Technical Specifications

Parameter	ProNIR 1	ProNIR 2	ProNIR 3
Operational Range	850-1450 nm	950-1700 nm	900-2500nm
Grating	G-NIR-1	G-NIR-2	G-NIR-3
Slit	25 um		
Detector	512 pixels Thermoelectric Cooled InGaAs		
Fiber Connector	SMA-905		
A/D Converter	18 bit		
Integration Time	1 milisecond (min)		
Dimensions	192 mm (L) x 137 mm (D) x 75 mm (H) (Weight: 1.5 Kg)		

Ordering Information

Part Number	PRO-NIR-1	PRO-NIR-2	PRO-NIR-3
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