

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 optical 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 a field operation

Software LightScan 2.0 included

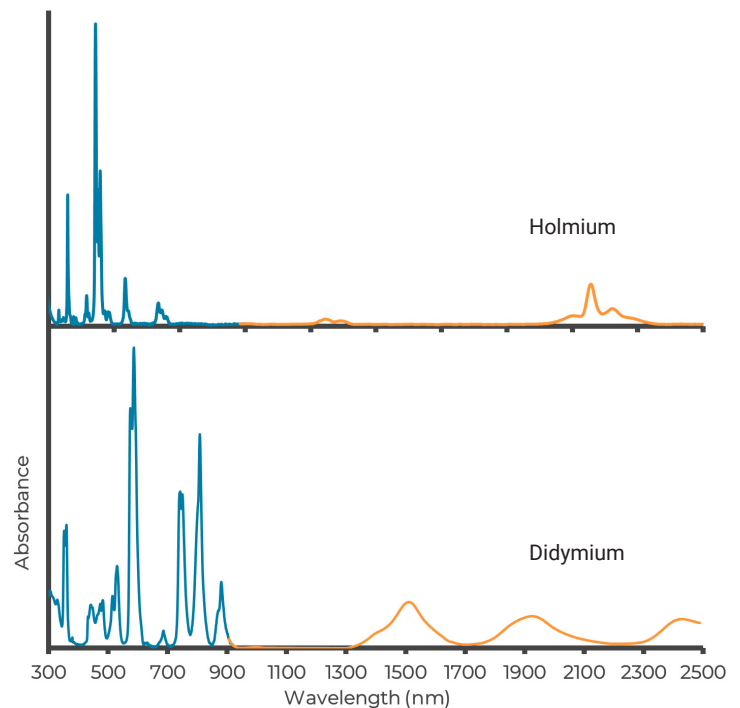


A WIDE RANGE FOR MORE INFORMATION

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 optical 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.

CONTROL THE SENSITIVITY AND OPTICAL RESOLUTION OF YOUR SPECTROMETER

With the ProNIR, you can take advantage of interchangeable slits and optical filters. User-interchangeable slits offer an easy and simple way of setting the ideal optical resolution/sensitivity, while interchangeable optical filters make it possible to narrow the operational wavelength range of the spectrometer. These features allow you to change from an absorbance to a reflectance setup in just a few minutes. Add a Slit Kit to your order and get all the flexibility you need.

Specifications Table

Parameter	ProNIR 1	ProNIR 2	ProNIR 3
Operational Range	850-1450 nm	950-1700 nm	1000-2500 nm
Grating	G-NIR-1	G-NIR-2	G-NIR-3
Slit	Detector	Fiber Connector	
50 um	512 pixels Thermoelectric Cooled InGaAs	SMA-905	
Fiber Connector	A/D Converter	Integration Time	
SMA-905	18 bit	1 millisecond (min)	

Dimensions

192 mm (L) x 137 mm (D) x 75 mm (H)
(Weight: 1.5 Kg)

Order Information

Description	Part Number
Spectrometer ProNIR 1	PRO-NIR-1
Spectrometer ProNIR 2	PRO-NIR-2
Spectrometer ProNIR 3	PRO-NIR-3
Battery Pack for NIR Spectrometers (optional)	NIR-BAT

CONTACTS



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