

Sol HT 2.6

Extended Range near-IR Spectrometer

The Sol HT line of near-IR spectrometers represent the highest level of performance in the industry. These flagship products give you the highest possible throughput using the highest efficiency optical system. Designed for wide-range or Raman applications, the Sol HT series delivers the results your lab demands.



Do More with Higher Throughput

Whether it is a recycling application or the identification of microplastics from the ocean, our Sol HT line gives you the highest performance possible. In your quest for the best NIR spectrometer, balancing throughput and acquisition speed is essential. Accept no compromises with the Sol HT 2.6.

Smooth Operation with High Quality 256 pixel Detector

Optimized for short integration times, the electronics and signal processing capability of Sol HT 2.6 excels, even in the most demanding applications. A high-quality 256 pixel InGaAs array overcomes the noisy signals found in less expensive alternatives. Designed for OEM integration the Sol HT has no moving detection parts, ensuring years of maintenance-free operation.

Improving Cooling for Long Acquisition Times

Deep cooling is an integral part of achieving high-quality spectra using InGaAs arrays. The Sol HT is equipped with a multi-stage TE Cooling package to cool down to -20C which suppresses dark noise and improves overall instrument stability. Acquisitions can be performed without the worry of overwhelming dark current.

FC / PC Fiber Optic Input

FC/PC fiber optic connection is the default input method for Sol HT. Unlike SMA905, FC/PC allows for more repeatable fiber insertions. The Sol HT 2.6 comes standard with a fiber patch cord terminated in SMA905 for easy operation and interface with existing sample setups and applications. This is a drop in replacement for many applications.

Specifications

DC Power Input	5V
Detector Type	Linear InGaAs Array
Pixels	256 x 1 @ 50µm x 250µm per element
Spectrograph f/#	2.2
Dynamic Range	Greater than 8,000:1 single acquisition
Digitizer Resolution	16 bit (65,535:1)
Readout Speed	500 kHz
Minimum Integration Time	30µs
Data Transfer Speed	>300 spectra per second via USB 2.0
External Trigger	Available in Auxiliary Port Functions
Operating Temperature	0°C to 35°C
TE Cooling	-20°C target temperature
Dimensions (Approx)	L x W x H 162 mm x 94 mm x 98 mm
Weight	1133 g

Spectral Range and Resolution

Spectral Coverage	Grating	Approx Resolution 100µm Slit
950 to 2500nm	150/1250	~15nm

Software

BWSpec

A spectral data acquisition software with a wide range of tools that are designed to perform complex measurements and calculations at the click of a button. It allows the user to choose between multiple data formats and offers optimization of scanning parameters, such as integration time. In addition to powerful data acquisition and processing, other features include automatic dark removal, spectrum smoothing, and baseline correction. SDK with demo code is available as additional option.

Accessories

Lasers

Fiber Patch Cords

Fiber Sampling Probes

Fiber Sample Holders