

NEW!

phase
PHOTONICS

Sensitivity to tens of photons, superfine resolution

FineSight rejects Czerny–Turner based designs and exploits a superior optical bench. The system provides radically better performance in both sensitivity and resolution. Simply put, its a better system. FineSight is built to be both robust and reliable.

FineSight's excellent performance with weak light sources makes it ideal for Raman spectroscopy; its high resolution is ideal for Laser Induced Breakdown Spectroscopy (LIBS).

LOWEST NOISE FLOOR

FineSight uses state of the art detector technology with noise levels under 3 photons per pixel (depending on detector) to ensure that you get clean data from even the weakest sources. .

TINY FOOTPRINTS

Super small versions for portable and medical versions are in development. Contact us with your requirements.



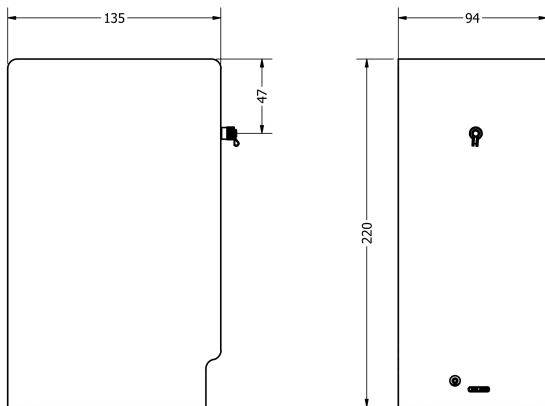
fineSIGHT PRO

Technical Specifications

Detector options

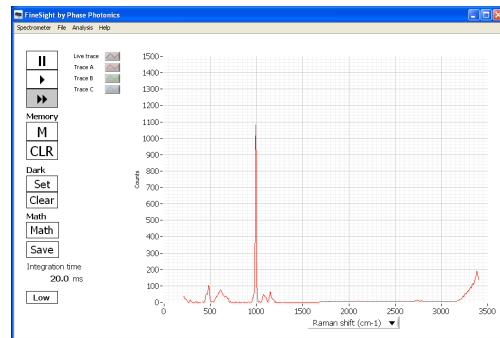
Silicon	300-1000nm
InGaAs	900-1700nm (enquire for extended InGaAs versions)
Gratings	A range of gratings is available. Details available on request
Filters	Optional Raman filters can be fitted on request.
Resolution	Typically to 0.01% of the wavelength range i.e. 10,000 wavelengths in range, or ~0.01nm for a 100nm range
Optical Input	SMA connector, allowing free-space coupling. (FCPC version on request)
Interface	USB3.0
Triggering	Software triggered
Integration times	100µs to 1s
Speed	Up to 24 spectra/second at maximum sensitivity, depending on detector and integration time
Software	Windows Application, Windows driver, LabVIEW examples plus Linux drivers all included with the device
Operating conditions	10-50°C
Weight	2.3kg (5.0lbs)
Dimensions	135 x 94 x 220 mm (5.3 x 3.7 x 8.7 inches)

Outline drawing



3x M4 mounting holes on base.
3D CAD file on request.

Software



Windows interface

A range of illumination and light collection systems can be purchased in conjunction with our spectrometers.

Phase assists OEMs to develop algorithms for spectral analysis.

Please enquire for further details.

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