

PRELIMINARY

phase

PHOTONICS

Extraordinary speed and wavelength range has never been simpler

RapidSIGHT is a dual or single ultra-high speed spectrometer covering the full wavelength range from 300–1700nm.

HIGHEST SPEED

Maximum speeds vary from 40,000 to 90,000 spectra per second depending on the detector.

MAXIMUM SENSITIVITY

All detectors have extra-tall pixels to ensure excellent sensitivity.

MODULAR

The user can configure the spectrometer to their exact requirements.

- Either Silicon, InGaAs or both detectors in a single integrated device.
- Select a grating to define the wavelength window of interest.
- Define slit size to balance resolution and sensitivity

RapidSIGHT



Technical Specifications

Detector options

Silicon	300-1000nm
InGaAs	900-1700nm (enquire for extended InGaAs versions)
Dual Silicon/InGaAs	300-1700nm

Gratings A range of gratings is available. Details available on request

Resolution Typical 3nm, depending on slit and grating options

Optical Input SMA connector, allowing free-space coupling.
(FCPC version on request)

Interface USB3.0

Triggering Software triggered or Hardware triggered (TTL)

Integration times 10µs to 1s

Speed Up to 90,000 spectra/sec, depending on detector and integration time

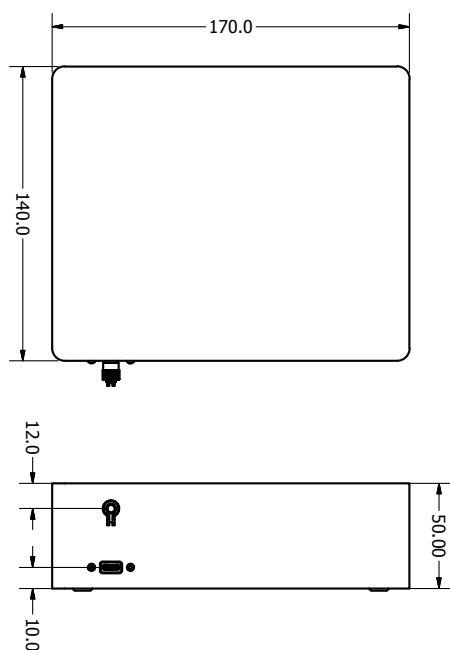
Software Windows Application, Windows driver, LabVIEW examples plus Linux drivers all included with the device

Operating conditions 10-50°C

Weight 600g (1.3lbs)

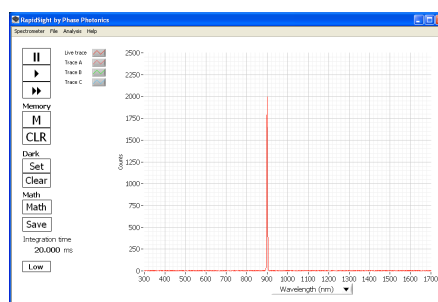
Dimensions 170 x 140 x 50 mm (6.7 x 5.5 x 2.0 inches)

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.

Rapid SIGHT

Phase Photonics

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