

SGM30 Series

SGM30 Compact Fibre Spectrometers

A 211 g USB spectrometer family with SMA905 fibre input and four configured wavelength intervals. Its compact Czerny-Turner bench suits laboratory measurements and OEM process monitoring.

Best suited to: Absorbance, water analysis, light-source measurement and compact integration.



Configuration

Select the wavelength configuration before choosing the slit. A narrow slit improves resolution at the expense of light collection; confirm signal level at the shortest intended integration time.

Specifications

Published parameters	
Fibre input	SMA905
Integration	10 ms–65 s
SNR at full signal	300:1
Dynamic range	3000:1
Dark noise	20 RMS counts
Stray light	<0.3% at 625 nm
Power	500 mA at 5 V DC
Size / weight	74 × 69 × 35 mm / 211 g

Wavelength configurations

Model	Range	Typical resolution
SGM30-DUVN	200–1000 nm	<1.5 nm at 546 nm
SGM30-VNIR	350–1100 nm	<1.6 nm at 546 nm
SGM30-NIR	790–1010 nm	<0.9 nm at 912 nm
SGM30-DU	190–420 nm	<0.8 nm at 253 nm

Measurement features

- USB-powered acquisition with 16-bit conversion.
- 25 µm standard slit; 10/50/100/200 µm options.
- Software and external integration support.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/sgm30