INDIGO HANDHELD RANGE

IndiGo VIS-NIR

Handheld broadband spectrometer · 400–1000 nm

The IndiGo VIS-NIR covers both the visible and the very-near-infrared range, from 400 to 1000 nm, in a palm-sized instrument. It captures colour, pigments, chromophores and the 970 nm water band in a single acquisition for diffuse reflectance, transmittance and fluorescence analyses, from the lab bench to the field.



400–1000 nm	< 2 nm	8 MP	10 h	BLE 5.0
Spectral range	Resolution (FWHM)	Sony IMX334 sensor	Battery life	+ USB-C

Key features

- Visible and NIR in one acquisition
- Sony IMX334 high-sensitivity sensor
- Hyperspectral white LED and 365 nm UV-A sources (clip / fibre versions)
- Leaf clip for in-situ reflectance & transmittance
- Multi-branch SMA-905 fibre probe
- Integrated calibrated white reference (clip)
- SpectroLab, Android app, SpectroLink Python
- Expert & Capture prediction models

Versions

Base module
SMA-905 fibre input for your own probes and accessories.

Clip (leaf clamp)
Reflectance & transmittance on leaves, films, paper or textiles, Ø 7 mm spot.

Fibre version
Multi-branch probe with hyperspectral LED and 365 nm UV-A excitation.

Typical applications

Plant stress & chlorophyll · Gemmology · Forensics · Food quality · Bioprocess monitoring · Materials

SPECTROMETER	
Spectral range	400 – 1000 nm
Resolution (FWHM)	< 2 nm
Entrance slit	15 µm × 3 mm (base) · 25 µm × 3 mm (clip)
Grating	300 l/mm, 550 nm blaze
Sensor	Sony IMX334 monochrome CMOS, 3840 × 2160, 2 µm
Integration time	1 ms – 30 s (multi-cycle)
Dynamic range	20 000 : 1
Signal-to-noise ratio	1000 : 1

CALIBRATION	
Wavelength	Factory, Hg-Ar and Ne lamps, second-order fit
Intensity	Optional

ENVIRONMENT	
Operating temperature	0 – 30 °C
Storage temperature	–10 – 40 °C
Humidity	0 – 90 % non-condensing

POWER & DATA	
Battery	Li-polymer 1100 mAh 5C · 10 h operation · 24 h standby
Power supply	5 V · 750 mA (USB-C)
Connectivity	Bluetooth 5.0 Low Energy · USB-C
Data formats	.txt · .csv · .spc

SOFTWARE	
Windows software	SpectroLab – acquisition, processing, export
Mobile	Android app (Bluetooth)
Developers	SpectroLink Python library
Chemometrics	GoyaLab Expert & Capture (cloud, optional)

MECHANICAL	
Dimensions	86 × 45 × 53 mm (base) · 91 × 45 × 53 mm (clip)
Weight	107 g (base) · 125 g (clip)

Version details

Version	Illumination	Geometry / spot	Supplied with
VIS-NIR base	— (external source or GoLight)	SMA-905 fibre input	Spectrometer
VIS-NIR Clip	Hyperspectral white LED up to 300 mW (T) · dual LEDs 0°/45° (R)	Reflectance & transmittance · Ø 7 mm	Clip module, white reference tile
VIS-NIR Fibre	Hyperspectral LED + 365 nm UV-A	Multi-branch probe, SMA-905	Probe, white diffuse standard

Ordering information

AR00084 IndiGo VIS-NIR, 400 – 1000 nm, SMA-905 fibre input

AR00171 IndiGo VIS-NIR Clip – leaves & thin materials

AR00052 GoLight – flat broadband light source for filter testing

AR00172 IndiGo VIS-NIR Fibre-Optic – multi-branch probe with integrated light

AR00164 GoCal – automatic wavelength self-calibration module

Part numbers for information – please confirm with GoyaLab when ordering.

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