INDIGO HANDHELD RANGE

IndiGo UV/Vis HSS

High Spectral Sensitivity handheld spectrometer · 380–780 nm · Sony IMX334 sensor

The IndiGo UV/Vis HSS (High Spectral Sensitivity) is the high-sensitivity version of the IndiGo UV/Vis. It keeps the same 107 g modular core, visible range and resolution, but uses a Sony IMX334 back-illuminated CMOS sensor. The higher sensitivity is suited to weak signals: fluorescence, low-power light sources, fibre probes and short integration times. Connected by Bluetooth or USB-C, it accepts all IndiGo UV/Vis modules.



380–780 nm	< 1.5 nm	20 000 : 1	107 g	BLE 5.0
Spectral range	Resolution (FWHM)	Dynamic range	Weight	+ USB-C

Key features

- Sony IMX334 back-illuminated sensor for high spectral sensitivity
- Dynamic range 20 000 : 1 · SNR 1000 : 1
- Same modular core and modules as the IndiGo UV/Vis
- Bluetooth 5.0 and USB-C, battery or mains powered
- SMA-905 fibre input for remote probes
- Factory wavelength calibration (Hg-Ar + Ne)
- SpectroLab for Windows, Android app
- SpectroLink Python library

Configurations & accessories

Fibre input
SMA-905 input for fibres, probes and remote measurements.

Liquids
For liquids in cuvettes, choose the IndiGo UV/Vis Transmission configuration.

GoLight & GoCal
Flat broadband light source for transmission, and automatic wavelength self-calibration.

Typical applications

Fluorescence & weak emission · Low-power LEDs & light sources · Fibre & remote probes · Optical filter QC · Chemical analysis · Research & teaching labs

SPECTROMETER	
Spectral range	380 – 780 nm
Resolution (FWHM)	< 1.5 nm (25 µm slit)
Entrance slit	25 µm × 3 mm (70 µm and 150 µm options)
Grating	600 l/mm, 500 nm blaze
Sensor	Sony IMX334 · back-illuminated CMOS · 2 µm pixels
Integration time	1 ms – 24 s (multi-cycle)
Dynamic range	20 000 : 1
Signal-to-noise ratio	1000 : 1

CALIBRATION	
Wavelength	Factory, Hg-Ar low-pressure lamp + Ne lamp
Intensity	Optional
Self-calibration	GoCal module (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 (core)	76 × 45 × 53 mm
Weight (core)	107 g
Optical input	SMA-905 (fibre adapter)

COMPLIANCE	
Certifications	CE · TELEC

Configurations available

Configuration	Module	Typical use
IndiGo UV/Vis HSS base	SMA-905 fibre adapter	Weak emission, remote probes, filters with GoLight
IndiGo UV/Vis (standard)	ON Semiconductor MT9M001 sensor	General-purpose – see dedicated datasheet

Ordering information

AR00077 IndiGo UV/Vis HSS, 380 – 780 nm, slit 25 µm as standard (FWHM < 1.5 nm)

AR00077-70 · AR00077-150 On request: slit 70 µm (FWHM < 5 nm) or 150 µm (FWHM < 10 nm) – please specify when ordering

AR00164 GoCal – automatic wavelength self-calibration module

AR00052 GoLight – flat broadband light source for filter testing

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

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