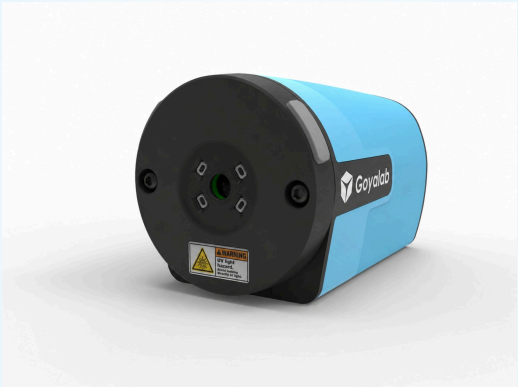
INDIGO HANDHELD RANGE

IndiGo Fluo

Handheld spectrofluorometers · LED and laser excitation

The IndiGo Fluo range turns the IndiGo core into a portable spectrofluorometer. Seven interchangeable excitation heads – UV LEDs from 255 to 365 nm or lasers at 405, 520, 532 and 980 nm – cover fluorescence, laser-induced fluorescence and up-conversion, on solids, powders and liquids, with software-controlled excitation power.



7	255–980 nm	< 1.5 nm	1–100 %	10 h
Excitation heads	Excitation	Resolution (25 µm)	Power control	Battery life

Key features

- LED heads: UV-A 365 nm, + UV-B 295 nm or UV-C 255 nm
- Laser heads: 405, 520, 532 and 980 nm (100 mW, CW)
- Excitation power controlled from SpectroLab
- Integrated clean-up and long-pass filters
- Heads interchangeable on the IndiGo UV/Vis core
- Class 1 laser enclosure with interlock
- Contact, cuvette, vial and powder holders
- Bluetooth 5.0 and USB-C

Detection options

Entrance slits
25 µm (< 1.5 nm), 70 µm (< 5 nm) or 150 µm (< 10 nm).

Sensors
ON Semi MT9M001 or Sony IMX334 monochrome (high sensitivity).

Objectives (laser)
MPLAN 10X as standard, 4X or 60X tool-free swap. Vial, Eppendorf or 10 × 10 mm quartz cuvette holders can be fitted in front of the objective on request.

Typical applications

Security inks & taggants · Gems & diamonds · Up-conversion markers · Food & oils · Biomarkers · Banknotes & documents

COMMON SPECIFICATIONS	
Detection range	380 – 780 nm (532: 532 – 840 nm · 405: 420 – 780 nm)
Resolution (FWHM)	< 1.5 / < 5 / < 10 nm (25 / 70 / 150 µm slit)
Sensors	ON Semi MT9M001 or Sony IMX334 monochrome
LED drive	Pulsed, current 1 – 100 %, sequential for dual heads
LED beam	60° emission cone
Laser power	Adjustable in SpectroLab
Laser safety	Class 1 closed holder with interlock · Class 3B open

POWER, DATA & SOFTWARE	
Battery	Li-polymer 1100 mAh 5C · 10 h operation · 24 h standby
Connectivity	Bluetooth 5.0 Low Energy · USB-C
Software	SpectroLab · Android app · SpectroLink (Python)
Data formats	.txt · .csv · .spc

SAMPLING	
Holders	Direct contact · 10 × 10 mm cuvettes · Ø 10 mm vials · powder cups
Laser heads	Vial, Eppendorf or 10 × 10 mm quartz cuvette holders in front of the objective, on request

MECHANICAL	
Core	76 × 45 × 53 mm, 107 g (without head)

Excitation heads

Model	Excitation	Optical power	Filters
Fluo UVA	4 × LED 365 nm	100 mW total	LP 385 nm (SP 395 nm option)
Fluo UVA-B	4 × 365 nm + 2 × 295 nm LEDs (280/308 on request)	100 mW + 50 mW	LP 385 nm (SP 395 option)
Fluo UVA-C	4 × 365 nm + 2 × 255 nm LEDs	100 mW + 20 mW	LP 385 nm (SP 395 option)
Fluo Laser 405	405 nm single-mode CW	100 mW	Clean-up + LP 405 nm
Fluo Laser 520	520 nm CW, near TEM00	100 mW	Clean-up + long-pass
Fluo Laser 532	532 nm single-mode CW	100 mW	Clean-up + LP 540 nm
Fluo Laser 980	980 nm single-mode CW (300 mW MM option)	100 mW	Clean-up + SP 780 nm · up-conversion

Ordering information

AR00177 IndiGo Fluo UVA (365 nm)
AR00178 IndiGo Fluo UVA-UVB (365 + 295 nm)
AR00179 IndiGo Fluo UVA-UVC (365 + 255 nm)
AR00180 IndiGo Fluo Laser 405 nm
AR00195 IndiGo Fluo Laser 520 nm (near TEM00, 100 mW)
AR00181 IndiGo Fluo Laser 532 nm
AR00182 IndiGo Fluo Laser 980 nm (up-conversion)
AR00164 GoCal – automatic wavelength self-calibration module

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

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