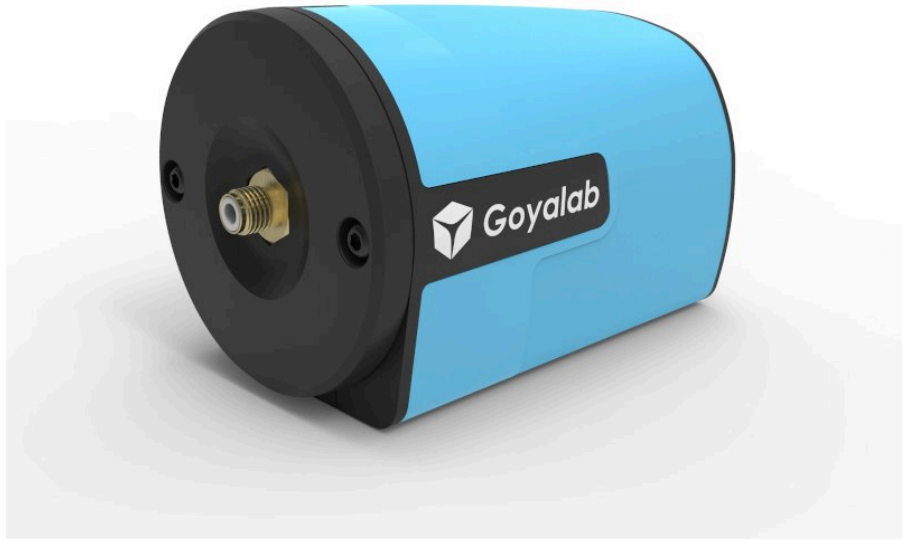
GoyaLab

2026 EDITION

Product Catalogue

Handheld, benchtop and process spectrometers, accessories and software – with full technical specifications and part numbers.



ABOUT GOYALAB

Democratizing spectrometry

Spectrometry is one of the most powerful tools for analysing matter, yet it long stayed confined to laboratories – held back by complexity, size and cost.

Since day one, GoyaLab's ambition has stayed the same: make it accessible to everyone, from the field to the heart of the factory. We design compact, connected and affordable instruments, and we help customers develop their own spectral applications – from feasibility tests to OEM integration.

French manufacturer · Institut d'Optique d'Aquitaine, Talence (Bordeaux)

GoSpectro

A world first: spectroscopy on a smartphone. Prism Award winner, San Francisco.

IndiGo

Modular, connected handheld spectrometers – 107 g core and 10 h of battery life, from UV/Vis to NIR, colour, fluorescence and Raman.

Benchtop Raman & T-Trace

Compact Raman micro-spectrometers and multichannel in-line process spectrometers, 380–1700 nm.

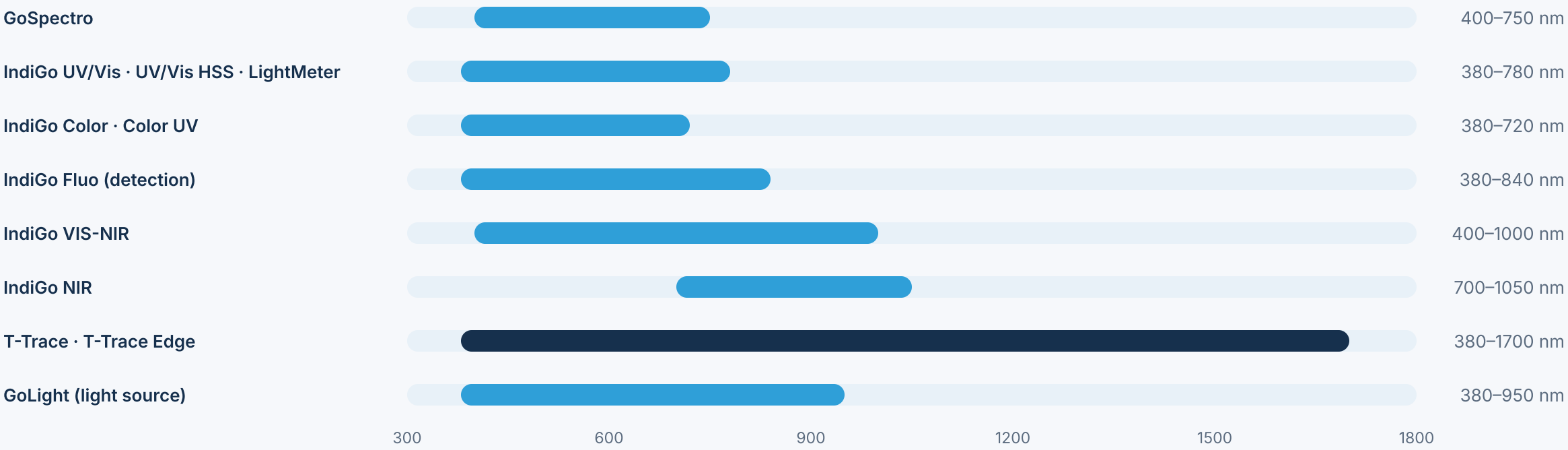
Software

Free SpectroLab, SpectroLight app, SpectroLink Python library and Expert & Capture cloud chemometrics.

GOYALAB AT A GLANCE

One partner from the visible to the SWIR

Detection range of each product family, in nanometres



Plus Raman at 532 nm and 785 nm excitation (handheld IndiGo Raman and Benchtop Raman, 150–4000 cm^{-1}), and IndiGo Fluo excitation heads from 255 nm to 980 nm – including anti-Stokes (up-conversion) emission 400–750 nm under 980 nm laser excitation.

RANGE OVERVIEW

The 2026 range at a glance

Every configuration and its part number – click a part number to open the product page

Ref.	Product
INDIGO UV/VIS	
AR00016	IndiGo UV/Vis
AR00077	IndiGo UV/Vis HSS
AR00170	IndiGo UV/Vis Transmission
AR00169	IndiGo LightMeter
INDIGO COLOR	
AR00174	Color 0°/45° – solids
AR00173	Color Transmission – clear liquids
AR00175	Color Reflectance – dark liquids
AR00176	Color UV – 365 nm
INDIGO FLUO	
AR00177	Fluo UVA
AR00178	Fluo UVA-UVB
AR00179	Fluo UVA-UVC
AR00180	Fluo Laser 405 nm
AR00195	Fluo Laser 520 nm
AR00181	Fluo Laser 532 nm
AR00182	Fluo Laser 980 nm
PROCESS	
AR00187	T-Trace UV/Vis · VIS-NIR · NIR · SWIR (AR00187–190)
AR00191	T-Trace Edge VIS · VIS-NIR · NIR · SWIR (AR00191–194)

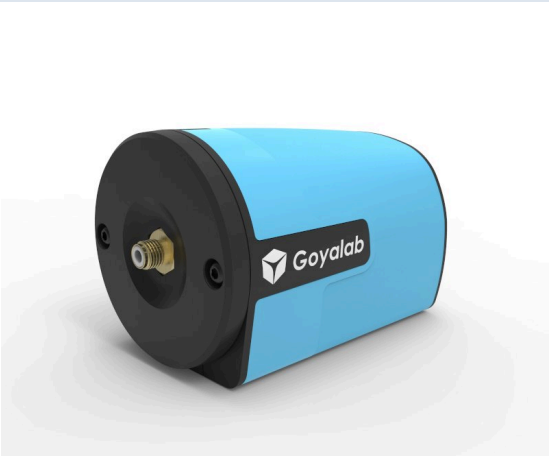
Ref.	Product
INDIGO NIR	
AR00053	IndiGo NIR
AR00166	NIR Transmission
AR00168	NIR Reflection – solids
AR00167	NIR Reflection – dark liquids & powders
INDIGO VIS-NIR	
AR00084	IndiGo VIS-NIR
AR00171	VIS-NIR Clip
AR00172	VIS-NIR Fibre-Optic
RAMAN	
AR00183	IndiGo Raman 532 nm
AR00184	IndiGo Raman 785 nm
AR00185	Benchtop Raman 532 nm (3D-Stand)
AR00186	Benchtop Raman 785 nm (3D-Stand)
ACCESSORIES	
AR00164	GoCal – self-calibration
AR00052	GoLight – broadband source
AR00002	GoSpectro – smartphone spectrometer
AR00004	Optical fibre with adapter (GoSpectro)
AR00010	Optical fibre adapter only

Prices and quotes: contact GoyaLab or your local GoyaLab distributor. Slit 25 µm as standard on IndiGo spectrometers; 70 or 150 µm on request with a suffix (e.g. AR00016-70). SpectroLab and SpectroLight are free; Expert & Capture on request.

INDIGO HANDHELD RANGE · VISIBLE

IndiGo UV/Vis & UV/Vis HSS

Handheld modular visible spectrometers – emission, absorption, transmission, reflection. Same 107 g core and modules, two sensors.



380–780 nm
Spectral range

< 1.5 nm
Resolution (FWHM)

107 g
Weight (core)

10 h
Battery life

	IndiGo UV/Vis	IndiGo UV/Vis HSS
Part number	AR00016	AR00077
Sensor	ON Semi MT9M001 · 1.3 MP mono CMOS · 1280 × 1024 · 5.2 µm	Sony IMX334 · back-illuminated CMOS · 2 µm
Dynamic range · SNR	1000 : 1 · 400 : 1	20 000 : 1 · 1000 : 1
Best for	Emission, absorption, reflection, education	Weak signals: fluorescence, low-power sources, fibre probes

Entrance slit	25 µm × 3 mm · 70 µm (< 5 nm) and 150 µm (< 10 nm) on request (-70 / -150)
Grating · integration	600 l/mm, 500 nm blaze · 1 ms – 24 s (multi-cycle)
Calibration	Factory Hg-Ar + Ne · intensity and GoCal self-calibration optional
Power & data	Li-polymer 1100 mAh 5C · 10 h operation · 24 h standby · BLE 5.0 · USB-C
Mechanical	76 × 45 × 53 mm · SMA-905 optical input · 0–30 °C · CE · TELEC
Software	SpectroLab (Windows) · Android app · SpectroLink Python

IndiGo UV/Vis datasheet → | UV/Vis HSS datasheet → | UV/Vis HSS product page →

INDIGO HANDHELD RANGE · VISIBLE

Ready-to-use UV/Vis configurations

The IndiGo UV/Vis core with a dedicated snap-on module, shipped pre-calibrated

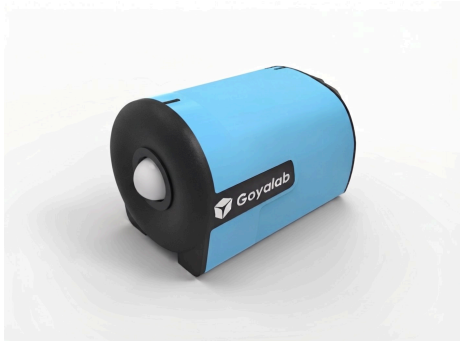


IndiGo UV/Vis Transmission

Ref. AR00170

- 380–780 nm · resolution < 1.5 nm (FWHM)
- 10 mm cuvette holder, white or UV-A LEDs
- Absorbance, transmittance, OD600, Beer-Lambert
- Liquids, dyes, pigments, water quality
- Shipped pre-calibrated in wavelength

Product page →



IndiGo LightMeter

Ref. AR00169

- 400–750 nm, intensity-corrected spectrum
- Cosine corrector, Lambert response up to 70°
- PPFD, ePAR, R/FR (660/730 nm), DLI
- CCT, CRI (Ra & R9), lux, chromaticity
- SpectroLight app (Android) · SpectroLab

Datasheet → Product page →

INDIGO HANDHELD RANGE · SPECTROCOLORIMETERS

IndiGo Color

Portable spectrocolorimeters – CIE L*a*b* in reflection and transmission, computed from the full spectrum





Model · ref.	Geometry · illumination	Spot · weight
0°/45° – solids, graphic arts AR00174	45°/0° contact · D65 hyperspectral LED 500 mW	Ø 3 mm · 125 g
Transmission – clear liquids AR00173	10 mm cuvette · hyperspectral LED 500 mW	Ø 6 mm · 107 g
Reflectance – dark liquids AR00175	Liquid module · hyperspectral LED	—
UV – fluorescent samples AR00176	45°/0° contact · 4 × UV-A LED 365 nm	Ø 4 mm · 150 g

380–720 nm · 0.5 nm sampling · < 3 nm FWHM

300 l/mm grating, 550 nm blaze

ΔE ≤ 0.15 repeatability

ΔE ≤ 0.35 inter-instrument

L*a*b*, XYZ, RGB · ΔE*ab, ΔE00

Illuminants A, B, C, D50, D65, E · 2° / 10°

Closest RAL & Pantone codes in SpectroLab

OIV-MA-AS2-11 (wine)

10 h battery (5C) · BLE 5.0 · USB-C

IndiGo Color datasheet →

Color 0°/45° product page →

INDIGO HANDHELD RANGE · SPECTROCOLORIMETERS

IndiGo Color UV

Colour of fluorescence under 365 nm UV-A excitation · 45°/0° geometry

REF.
AR00176



365 nm
UV-A, 400 mW

400–700 nm
Calibrated range

Ø 4 mm
Measuring spot

ΔE ≤ 0.35
Inter-instrument

UV source	4 × UV-A LEDs, 365 nm, 100 mW each · pulsed (no heating, limited photobleaching)
Filtering	Short-pass on LEDs · 395 nm long-pass on collection
Sensor	Sony IMX334 mono CMOS · 3840 × 2160 · 2 µm
Resolution (FWHM)	5 nm (70 µm slit · 25 µm on request)
Dynamic range · SNR	20 000 : 1 · 1000 : 1
Colorimetry	CIE L*a*b*, XYZ · ΔE*ab, ΔE00 · 2° and 10° · RAL & Pantone in SpectroLab
Repeatability	ΔE ≤ 0.15 (same instrument) · ≤ 0.35 between instruments
Calibration	Absolute radiometric (integrating sphere)
Power & data	Li-polymer 1100 mAh 5C · 10 h operation · 24 h standby · BLE 5.0 · USB-C
Dimensions	131 × 47 × 60 mm · 150 g
Applications	Security inks, banknotes, optical brighteners, diamond fluorescence, gems

Datasheet → Product page →

IndiGo Fluo

Handheld spectrofluorometers – seven interchangeable excitation heads: three UV LED heads and four lasers





Ref.	Head	Excitation	Power	Filters
AR00177	Fluo UVA	4 × LED 365 nm	100 mW	LP 385 nm
AR00178	Fluo UVA-UVB	LEDs 365 + 295 nm	100 + 50 mW	LP 385 nm
AR00179	Fluo UVA-UVC	LEDs 365 + 255 nm	100 + 20 mW	LP 385 nm
AR00180	Fluo Laser 405	405 nm single-mode CW	100 mW	LP 405 nm
AR00195	Fluo Laser 520 new	520 nm CW, near TEM00	100 mW	Long-pass
AR00181	Fluo Laser 532	532 nm single-mode CW	100 mW	LP 540 nm
AR00182	Fluo Laser 980	980 nm CW · up-conversion	100 mW	SP 780 nm

Detection 380–780 nm (405: 420–780 · 532: 532–840 · 980: 400–750 anti-Stokes)

< 1.5 / < 5 / < 10 nm (25 / 70 / 150 µm)

MT9M001 or Sony IMX334 sensor

Power 1–100 % from SpectroLab

Laser clean-up filters · Class 1 interlock

10 h battery (5C) · BLE 5.0 · USB-C

Laser heads: on request, vial, Eppendorf tube or standard 10 × 10 mm quartz cuvette holders can be fitted in front of the microscope objective for powder or liquid analysis.

IndiGo Fluo datasheet →

Fluo Laser 520 nm product page →

INDIGO HANDHELD RANGE · FLUORESCENCE

IndiGo Fluo Laser 980 nm

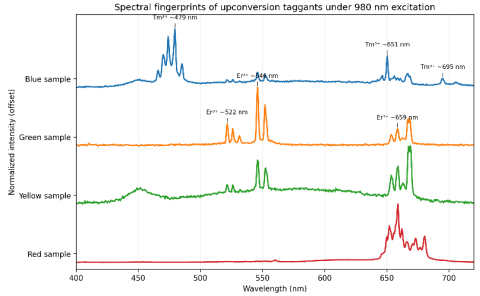
Portable up-conversion spectrofluorometer – anti-Stokes emission 400–750 nm under 980 nm laser excitation

REF.
AR00182



980 nm	400–750 nm	< 1.5 nm	Class 1
Laser · 100 mW	Anti-Stokes emission	Resolution (25 µm)	With interlocked holder

Laser	980 nm single-mode CW, 100 mW (300 mW multimode option) · power adjustable step by step
Filtering	980 nm clean-up + 780 nm short-pass: virtually no autofluorescence background
Objectives	MPLAN 10X as standard · 4X for wider collection · 60X for micrometric spots
Sampling	Direct on documents, labels, polymers · vial, Eppendorf or 10 × 10 mm quartz cuvette holders on request
Analysis	Green / red ratio and band areas computed in SpectroLab
Applications	Anti-Stokes security inks, banknotes, UCNPs, nanothermometry, covert taggants



Fluo Laser 980 datasheet →

Product page →

INDIGO HANDHELD RANGE · NEAR INFRARED

IndiGo NIR

Handheld near-infrared spectrometer, 700–1050 nm – C-H, O-H and N-H overtones





Configuration · ref.	Module	Samples
NIR base · AR00053	SMA-905 fibre input	Remote probes, custom set-ups
NIR Transmission · AR00166	Cuvette holder, IR LEDs	Oils, fuels, clear liquids
NIR Reflection, solids · AR00168	IR LED ring, sapphire window	Plastics, grains, textiles
NIR Reflection, dark liquids & powders · AR00167	Reflection cuvette module	Flours, coffee, APIs

700–1050 nm · < 2 nm FWHM · Sony IMX464 · 4.2 MP colour CMOS · 300 l/mm grating · Slit 25 µm (150 µm on request: -150) · Dynamic range 20 000 : 1 · SNR 1000 : 1 · 76 × 45 × 53 mm · 107 g · 10 h battery (5C) · BLE 5.0 · USB-C · Expert & Capture prediction models

IndiGo NIR datasheet → Product page →

INDIGO HANDHELD RANGE · VIS-NIR

IndiGo VIS-NIR

Handheld broadband spectrometer, 400–1000 nm – colour, pigments and the 970 nm water band in one acquisition





Version · ref.	Illumination	Geometry · weight
Base · AR00084	External source or GoLight	SMA-905 input · 107 g
Clip · AR00171	Hyperspectral white LED up to 300 mW	R & T, Ø 7 mm · 125 g
Fibre-Optic · AR00172	Hyperspectral LED + 365 nm UV-A	Multi-branch probe

400–1000 nm · < 2 nm FWHM

Sony IMX334 · 8 MP · 3840 × 2160

300 l/mm, 550 nm blaze

Slit 15 µm (base) · 25 µm (clip)

Dynamic range 20 000 : 1 · SNR 1000 : 1

Factory Hg-Ar + Ne calibration

10 h battery (5C) · BLE 5.0 · USB-C

Plant stress, gems, forensics, food

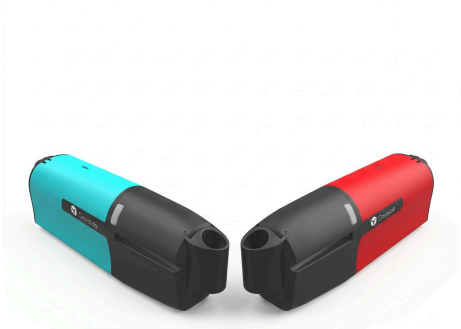
IndiGo VIS-NIR datasheet →

Product page →

INDIGO HANDHELD RANGE · RAMAN

IndiGo Raman 532 & 785

Lab-grade Raman in a 250 g battery-powered instrument – molecular ID in the field





Specification	IndiGo Raman 532	IndiGo Raman 785
Laser	532 nm CW diode · 80 mW	785 nm near TEM00 · 100 mW
Raman shift	150 – 4000 cm^{-1}	150 – 3200 cm^{-1}
Resolution	12 cm^{-1} · slit 15 or 25 µm	12 cm^{-1} · slit 15 µm
Grating	600 l/mm, 580 nm blaze	600 l/mm, 800 nm blaze
Best for	Minerals, gems, inorganics, carbon	Pharma, organics, through packaging
Part number	AR00183	AR00184

Laser linewidth 0.1 nm · Rayleigh cut-off 150 cm^{-1} | CMOS 3840 × 2160 · 20 000 : 1 · SNR 1000 : 1 | Olympus M PLAN 10X (RMS)

150 × 45 × 53 mm · 250 g · 10 h | USB-C · Windows 10 & Android | Library matching (HQI) in SpectroLab

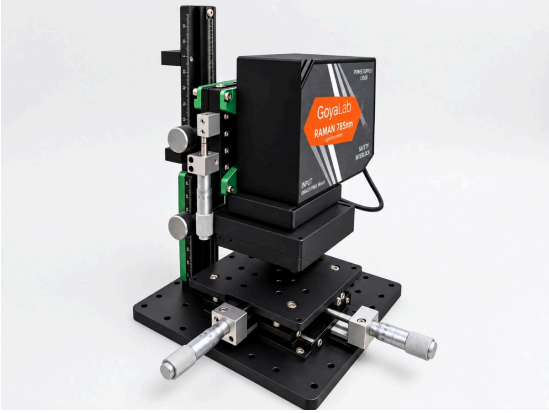
Raman 532 datasheet →

Raman 785 datasheet →

COMPACT BENCHTOP RAMAN

Benchtop Raman 532 & 785

Modular Raman micro-spectrometers in a 1 kg footprint – 3D-Stand included



Specification	Benchtop Raman 532	Benchtop Raman 785
Laser	532 nm single-mode · 80 mW	785 nm stabilised · 100 mW SM or 300 mW MM
Raman shift	150 – 4000 cm^{-1}	150 – 3200 cm^{-1}
Resolution	8 cm^{-1}	10 cm^{-1} (25 µm slit, 15 µm option)
Sensor	Sony IMX676 monochrome	Sony IMX676 colour
Part number	AR00185	AR00186

MPLAN 10X · 40X / 60X · NA 0.2

Laser power 10–100 % in 1 % steps

Class 1 on 3D-Stand or vial holder

3D-Stand: micrometric X-Y · mm & µm Z focus

Optional water-cooled sCMOS · cut-off 20 cm^{-1} option

Beam-splitter slider, optional colour camera

188 × 115 × 55 mm · 1 kg · Windows 11

Benchtop 532 datasheet →

Benchtop 785 datasheet →

PROCESS SPECTROMETERS

T-Trace

High-speed multichannel process spectrometer for in-line and on-line control

REFS.
AR00187 – AR00190







Version · ref.	Range	Sensor	Resolution (25 µm)
T-Trace UV/Vis · AR00187	380 – 780 nm	Sony IMX676 mono CMOS	< 1.5 nm
T-Trace VIS-NIR · AR00188	400 – 1000 nm	Sony IMX676 CMOS	< 2.0 nm
T-Trace NIR · AR00189	700 – 1100 nm	Sony IMX676 CMOS	< 2.0 nm
T-Trace SWIR · AR00190	900 – 1700 nm	Sony IMX993 InGaAs · 640 × 512	5 nm

- 1–8 synchronous channels, no mechanical multiplexing
- Up to 1,800 spectra/s (1 channel)
- 8 channels: 80 acq/s · 640 spectra/s
- USB 3.0 or GigE with PoE
- Hardware trigger · 12-bit
- IP54 · 150 × 40 × 40 mm · 300 g
- T-Light sources via T-Link
- Slit 25 µm (70–200 µm on request)

> Configured to order – each T-Trace is built with its channels, fibres and light sources for your process.

T-Trace datasheet → | **Product page →**

PROCESS SPECTROMETERS

T-Trace Edge

Multichannel process spectrometer with embedded computing – models run next to the line

REFS.
AR00191 – AR00194



1–8
Synchronous channels

1,800 /s
Spectra, 1 channel

24 V
PLC trigger I/O

IP54
Aluminium housing

Versions	VIS · VIS-NIR · NIR · SWIR (380–1700 nm) · AR00191 – AR00194
Embedded PC	Intel N97, 4 cores, up to 3.6 GHz · 8 GB RAM · 250 GB SSD
OS	Windows 10 IoT Enterprise LTSC 64-bit
On-board processing	CIE L*a*b*, ΔE, pre-processing, chemometric models, customer applications
Resolution (VIS)	< 1.5 / < 3 / < 10 nm (25 / 70 / 150 µm slit)
Acquisition	Up to 1,800 spectra/s (1 channel) · 8 channels: 80 acq/s · 640 spectra/s
Network · power	M12 X-coded industrial Ethernet · 24 VDC (M12)
Optical input	SMA-905 (1 ch.) · FC-PC (2–8 ch.) · drives 2 T-Light (M8)
Mechanical	226 × 185 × 58 mm · 1 kg · conduction cooling

T-Trace Edge datasheet → Product page →

SMARTPHONE SPECTROMETER

GoSpectro

Turns your smartphone or tablet into a visible spectrometer

REF.
AR00002



400–750 nm
Spectral range

< 10 nm
Resolution

1 nm
Reproducibility

Prism
Award winner

Measurements	Emission, absorption (transmission) and reflection
Mounting	Clip-on over the main 1× rear camera lens
Calibration	In seconds with a fluorescent (fluocompact) lamp
Smartphones	iPhone 6s → 16 · Galaxy S20 → S25 · Pixel 3 → 9 · Xiaomi, Huawei/Honor, Sony, Motorola, Oppo
Tablets	iPad range · Samsung Galaxy Tab S & A
Camera position	Within 35 mm of the top or side edge
Operating system	iOS 12+ · Android 8.0+, with the GoSpectro app
Fibre option	Optical fibre with adapter · AR00004
Adapter only	Optical fibre adapter · AR00010

GoSpectro datasheet →

Product page →

Smartphone compatibility guide →

ACCESSORIES FOR THE INDIGO RANGE

GoLight & GoCal

A flat broadband source and automatic wavelength self-calibration



GoLight

Ref. AR00052

- Flat, continuous multi-LED spectrum, 380–950 nm
- USB-C powered · integrated cooling
- Magnetic mount on IndiGo · Ø 52 × 50 mm
- Filter kits: SM1, SM2, 0.5", 1" · astro M28.5, M48
- SpectroLab filter module · NIR version on request

Datasheet → | Product page →



GoCal

Ref. AR00164

- Rare-earth fluorescent glass, 365 nm LED
- More than 10 reference peaks, 380–780 nm
- Automatic correction in under 30 s
- Powered and controlled by the IndiGo
- No external calibration lamp needed

Datasheet → | Product page →

SOFTWARE

From raw spectra to decisions

One software ecosystem for every GoyaLab instrument – plus the SpectroLink Python library



SpectroLab

Free software · unlimited licences

- Controls IndiGo, T-Trace, Raman
- BLE, USB, USB 3.0, GigE
- Intensity, T %, R %, absorbance
- Multi-instrument, time series
- Export .txt, .csv, .spc

Learn more →



SpectroLight

Free Android app · IndiGo LightMeter

- Lighting & LED profile
- CCT, CRI (Ra, R9), lux
- Horticulture & PAR profile
- PPFD, ePAR, R/FR, DLI
- Instant PDF reports

Learn more →



Expert & Capture

Cloud SaaS · per user / per instrument

- Expert: build models in the cloud
- PCA, PLS, SNV, derivatives
- Capture: run models on site
- UV/Vis, NIR, fluo, Raman
- Per user · per instrument

Learn more →

CONTACT

Let’s build your spectral application

Quotes, OEM integration, custom modules or technical questions – our engineering team in Talence is here to help.

contact@goyalab.fr
www.goyalab.com

GoyaLab SAS · Institut d’Optique d’Aquitaine
rue François Mitterrand, 33400 Talence, France

For prices and quotes, please contact GoyaLab or your local GoyaLab distributor. Specifications are typical values from the 2026-11 datasheets and may change without notice. Part numbers are for information – please confirm when ordering.

Download the datasheets

- IndiGo UV/Vis ↓
- IndiGo LightMeter ↓
- IndiGo Color UV ↓
- IndiGo Fluo Laser 980 ↓
- IndiGo VIS-NIR ↓
- IndiGo Raman 785 ↓
- Benchtop Raman 785 ↓
- T-Trace Edge ↓
- GoLight ↓
- IndiGo UV/Vis HSS ↓
- IndiGo Color ↓
- IndiGo Fluo ↓
- IndiGo NIR ↓
- IndiGo Raman 532 ↓
- Benchtop Raman 532 ↓
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