INDIGO HANDHELD RANGE

IndiGo Color

Portable spectrocolorimeters · CIELab in reflection and transmission

IndiGo Color brings laboratory-grade colour measurement to the production floor. Based on a visible spectrometer with 0.5 nm sampling and a high-power D65 hyperspectral LED, it computes CIE L*a*b*, XYZ and ΔE values directly from the spectrum, for solids, clear liquids, dark liquids and fluorescent samples under UV excitation.



380–720 nm	0.5 nm	ΔE ≤ 0.35	D65	BLE 5.0
Spectral range	Sampling	Inter-instrument	Hyperspectral LED	+ USB-C

Key features

- CIE L*a*b*, XYZ and RGB coordinates
- Illuminants A, B, C, D50, D65, E · observers 2° and 10°
- ΔE*ab and ΔE00 colour differences
- High-power hyperspectral LED, 500 mW
- Calibrated white reference supplied
- Compliant with OIV-MA-AS2-11 (wine)
- Closest RAL & Pantone codes in SpectroLab
- SpectroLink Python for automated QC

Why a spectrocolorimeter

Full spectrum
Detects metamerism and narrow absorption peaks that tristimulus colorimeters miss.

Standardised
CIE geometries and illuminants for correlation with charts and lab instruments.

OEM ready
Spot size, working distance and mechanics adaptable for in-line integration.

Typical applications

Wine & beverages · Plastics & coatings · Graphic arts & packaging · Textiles · Food browning & oils · Security printing (UV)

SPECTROMETER	
Spectral range	380 – 720 nm
Resolution (FWHM)	< 3 nm (70 µm slit)
Sampling	0.5 nm
Grating	300 l/mm, 550 nm blaze
Integration time	1 ms – 30 s

COLORIMETRY	
Colour spaces	CIE L*a*b*, XYZ, RGB
Colour codes	Closest RAL and Pantone codes (SpectroLab)
Illuminants	A, B, C, D50, D65, E
Observers	2° and 10°
Colour difference	ΔE*ab, ΔE00
Repeatability	ΔE ≤ 0.15 (same instrument)
Inter-instrument agreement	ΔE ≤ 0.35

CALIBRATION	
Wavelength	Factory, Hg-Ar + Ne lamps
Self-calibration	GoCal module (optional)

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

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

Configurations

Model	Geometry	Illumination	Spot	Size / weight
Color 0°/45° – solids	Reflectance 45°/0°, contact	Hyperspectral D65 LED, 500 mW	Ø 3 mm	91 × 45 × 53 mm · 125 g
Color Transmission – clear liquids	Transmittance, 10 mm cuvette	Hyperspectral LED, 500 mW	Ø 6 mm	76 × 45 × 53 mm · 107 g
Color Reflectance – dark liquids	Reflectance, liquid module	Hyperspectral LED	—	—
Color UV – fluorescent samples	45°/0°, contact	4 × UV-A LED 365 nm, 400 mW	Ø 4 mm	Sony IMX334 · 400 – 700 nm · 5 nm

Ordering information

AR00173 IndiGo Color Transmission – clear liquids

AR00174 IndiGo Color Reflectance 0°/45° – solids

AR00175 IndiGo Color Reflectance – dark liquids

AR00176 IndiGo Color UV – 365 nm excitation

AR00164 GoCal – automatic wavelength self-calibration module

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

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