

Nix Spectro 2 - 5mm

Product specifications - v2.5



Form factor

Weight	110g (3.9oz) (Accessories not included in weight)
Dimensions	45mm X 60mm X 60mm (1.77" X 2.36" X 2.36")
Materials	Durable, matte black powder coated aluminum enclosure
Haptics and visuals	Vibration and RGB feedback for charging, connection, and measurement state
Features	Scratch-resistant glass lens Dust and water-resistant Hard point for braided aircraft cable attachment

Performance

Measurement speed	1 reported scan/second
Optical resolution	True 31 channel measurement (diffraction grating with 288 pixel diode array)
Spectral visible range	400 – 700 nm, 10 nm resolution reporting
Repeatability	0.05 ΔE_{00} on white (D65, 10°, to mean of 10 measurements every 3 s on white, at a temperature of 23°C)
Inter-instrument agreement	0.35 ΔE_{00} average, 0.7 ΔE_{00} max. (deviation from Nix Sensor Ltd. standard unit at a temperature of 23°C on 12 CERAM CCS-II tiles (D65, 10°))
Temperature range	10°C – 35°C
Humidity	0% – 80% non-condensing

Optics

Measurement geometry	45°:0° ring illumination optics
Measurement port diameter	16 mm (0.63") diameter
Illumination spot size	6 mm (0.24") diameter
Measurement aperture	5 mm (0.20") diameter
Light source	High CRI, broad spectrum LED light source (white, violet and UV)
Optional Adapters	Liquids, powders, gels, and soft surface adapters available

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Calibration

Each unit individually factory calibrated
Integrated/automatic temperature compensation
In-field normalization: manual on included external ceramic reference

Colorimetry data

Evaluated according to ASTM E308-18
CIEXYZ, CIELAB, LCH(ab), RGB, CMYK, and more
Illuminant: A, C, D50, D55, D65, D75, F2, F7, F11
Observer: 2°, 10°

Note: Particular colorimetry data availability may differ based on application used.

Software development kit

Features device connectivity routines, commands to request measurements, and utilities to perform color conversions. For an up-to-date list of features and supported platforms, visit:
www.nixsensor.com/nix-software-development-kit

Connectivity

Bluetooth Low Energy
Legacy USB CDC Serial

Reflectance measurement

Measurement conditions:
M0 – UV included – ISO 13655:2017
M1 – D50 – ISO 13655:2017
M2 – UV excluded – ISO 13655:2017

Note: Particular reflectance measurement mode availability may differ based on application used.

Battery life + charging

USB C charging of internal lithium polymer battery
90 day (3 month) standby time per charge (device advertising on BLE)
1,000+ scans per charge

Packaging + accessories

Impact-resistant, waterproof carrying case, ideally suited for field operations
USB C charging cable
Ceramic reference tile
Inspection certificate
Nix lanyard
Microfiber carrying pouch
Microfiber cloth

Warranty + expected product lifespan

12 months from date of sale, warranty for manufacturer's defects (does not cover user damage)



For more information on the Nix Spectro 2, visit nixsensor.com or email sales@nixsensor.com