

Nix Spectro 2

Product Specifications - v2.0



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	Vibration feedback, RGB feedback
Features	Tempered glass protective 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, 1.0 ΔE_{00}^* max. (deviation from Nix Sensor Ltd. standard unit at a temperature of 23°C on 12 BCRA tiles (D65, 10°))
Temperature range	10°C– 35°C
Humidity	0% – 80% non-condensing

Optics

Measurement geometry	45°:0° ring illumination optics
Measurement aperture	8 mm (0.31") diameter (adapters available)
Illumination spot size	10 mm+ (0.39") diameter
Light source	High CRI, broad spectrum LED light source (White, Violet and UV)

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Calibration

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

Colorimetry data

CIEXYZ, CIELAB, LCH(ab), RGB, CMYK, and more.
Illuminants: A, C, D50, D55, D65, D75, F2, F7, F11
Observers: 2°, 10°
ASTM E308-18

Software development kit

iOS and Android (BLE)
Bluetooth requirements: Bluetooth 4.0
Android: Android SDK level 21 (Android 5.0 Lollipop) and above. SDK written in Java
iOS: iOS 11.0 and above. SDK written in Objective C
SDK contains Bluetooth connectivity routines, commands to request scan in 10 nm reporting, XYZ, or Lab.

Connectivity

Bluetooth Low Energy
Legacy USB CDC Serial (Windows, Mac, Linux)

Reflectance measurement

Measurement Conditions:
M0 - UV included - ISO 13655:2017
M1 - D50 - ISO 13655:2017

Battery life + charging

USB C charging of internal Lithium Polymer Battery
90 day 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
Cleaning spray

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