



X-Rite i1Pro

Contact spectrophotometer



OVERVIEW

The X-Rite i1Pro is a true spectrophotometer, featuring greater accuracy than tri-stimulus photometers which are based on color filters. A new innovative Swiss-engineered design makes the i1Pro much more affordable than previous generations of spectrophotometers. The i1Pro is a contact spectrophotometer, and includes hardware for holding the sensor against the region of the display being calibrated. The i1Pro connects to your computer over a USB interface, allowing your own software to initiate automated measurements and acquire data. The i1Pro can return CIE Lxy data for photometry measurements, and can also return raw spectral data between 380nm and 730nm at 10nm intervals for radiometry applications. The i1Pro includes a calibration base allowing the photometer to be automatically recalibrated before each use. Software support includes a low-level ANSI C API, and MATLAB/Octave libraries for use under Mac OS X, Microsoft Windows, and Linux.

FEATURES

- SPECTROPHOTOMETER IS MORE ACCURATE THAN COLOR FILTER PHOTOMETERS
- RETURNS CIE Lxy COORDINATES AND RAW SPECTRAL DATA
- INTEGRATION WITH DATAPixx, VIEWPixx, MATLAB, AND VPixx PROGRAM
- USB POWERED
- **LOW COST**



VPixx

www.vpixx.com

X-Rite i1Pro SPECIFICATIONS

SPECTRAL ENGINE

Spectral analyzer: Holographic diffraction grating with 128-pixel diode array
Spectral Range: 380 - 730 nm
Physical sampling interval: 3.5 nm
Optical resolution: 10 nm
Spectral reporting: 380 ... 730 nm in 10 nm steps

OPTICS

Measurement geometry: 45°/0° ring illumination optics, ISO 13655:2009
Measurement aperture: 4.5 mm (0.18") diameter
Illumination Spot Size: 3.5 mm (0.14")
Light source: Gas filled tungsten (illuminant type A) and UV LED

REFLECTANCE MEASUREMENT

Data Format: Spectral Reflectance [dimensionless]
Calibration: Manual on external ceramic white reference
Inter-instrument agreement: 0.4 ΔE_{94}^* average, 1.0 ΔE_{94}^* max.
Short-term repeatability: 0.1 ΔE_{94}^* on white (D50,2°, mean of 10 measurements every 3 seconds on white)

EMISSIVE MEASUREMENT

Data format: Spectral radiance (mW/nm/m² /sr); Luminance Y (cd/m²)
Measurement range: 0.2 - 1200 cd/m² on a typical LCD-Monitor
Short-term repeatability: x,y: +/- 0.002 typical (5000°K, 80 cd/m²)

AMBIENT LIGHT MEASUREMENT

Data Format: spectral irradiance [mW/nm/m²], illuminance [lux]
Type: Cosine-corrected diffuse light measurement head

INTERFACE, DIMENSIONS AND WEIGHT

Interface: USB 1.1
Power supply: Device powered by USB. No additional charger or battery required. USB 1.1 high power device.
i1Pro device: Length 155 mm, width 66 mm, height 67 mm (6.1" x 2.6" x 2.6")
Weight i1Pro device: 245 g (8.6 oz)

ORDERING INFORMATION

DESCRIPTION: X-Rite i1Pro spectrophotometer
P/N: VPX-ACC-8000

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