



X-rite i1Pro

Contact spectrophotometer



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**

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.



X-rite i1Pro SPECIFICATIONS

Spectral measurement device, supported measurement modes:

- Reflectance single measurement
- Reflectance scanning measurement with automatic patch detection
- Emission: radiance measurement (monitor measurement)
- Emission: irradiance measurement (light measurement)

Spectral analyzer: Holographic diffraction grating with 128-pixel diode array

Optical resolution: 10nm

Physical sampling interval: 3.5nm

Spectral data: Range: 380 ... 730 nm in 10nm steps

Measurement aperture: 4.5mm diameter

Interface: USB 1.1

Physical dimensions: Length 151mm, width 66mm, height 67mm (6 x 2.6 x 2.6 inches)

Weight: 185g (6.5oz)

Measurement geometry: 45°/0° ring illumination optics, DIN 5033

Light source: Gas filled tungsten (Type A)

Physical filters: No or UV cut (Filters not exchangeable)

Inter-instrument agreement: Average DE*94 0.4, max. DE*94 1.0 (Deviation from X-Rite manufacturing standard at 23°C for single measurement mode on 12 BCRA tiles (D50,2°)

Short-term repeatability: DE*94 \leq 0.1 (D50,2°), with respect to the mean CIELab value of 10 measurements every 3 seconds on white

Data format: Spectral radiance (mW/nm/m² /sr);

Luminance Y (cd/m²)

Measurement range: 0.2 ... 300 cd/m²

Short-term repeatability: x,y: +/- 0.002 typical

(CRT 5000°K, 80 cd/m²)

Type: Cosine-corrected diffuse light measurement head

Diameter: 6.0 mm

Data format: Spectral irradiance (mw/nm/m²), Illuminance Y (lux)

ORDERING INFORMATION

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

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