

# i1PRO 3

Taking Calibration and Profiling to the Next Level



## Spectral Engine

i1Pro 3: i1® technology (holographic diffraction grating with 128 pixel diode array) with built-in wavelengths check

Spectral Range	380 - 730 nm
Physical Sampling Interval	3.5 nm
Optical Resolution	10 nm
Spectral reporting	380 nm to 730 nm in 10 nm steps
Sampling Rate (Hz)	400 measurements per second

## Optics

Measurement Geometry	45°/0° ring illumination optics, ISO 13655:2017
Measurement Aperture	4.5 mm (0.18") diameter (effective measurement aperture during scanning is depending on the patch size and measurement speed)
Light Source	Full-Spectrum LED Light Source

## Reflectance Measurement

Measurement Condition	M0 - UV included - ISO 13655:2017 M1 - D50 - ISO 13655:2017 M2 - ISO 13655:2017
OBC	Optical Brightener Compensation (OBC) with i1Profiler software
Calibration	Manual on external ceramic white reference
Measurement Background	White, ISO 13655:2017; for measurements on backup board
Minimal Patch Size In Spot Mode	6 x 6 mm (0.24" x 0.24") (Width x Height)
Minimal Patch Size In Scanning Mode	6 x 7 mm (0.24" x 0.28") (Width x Height) with i1i0 7 x 7 mm (0.28" x 0.28") (Width x Height) with sensor ruler 10 x 7 mm (0.40" x 0.28") (Width x Height) without sensor ruler
Maximum Scan Length	260mm (10.24")
Inter-Instrument-Agreement	0.3 dE00 avg, 0.8 dE00 max (deviation from X-Rite manufacturing standard at a temperature of 23°C (73.4°F) on 12 BCRA tiles (D50, 2°))
Short-term Repeatability	0.05 dE00 on white (D50, 2°, mean of 10 measurements every 3 s on white)

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## Emission Measurement

Measurement Range	0.2 - 5000 cd/m2 on a typical LCD-Monitor
Short-term Repeatability	x,y $\pm$ 0.002 typ. (5000 K, 80 cd/m2)

## Ambient Light Measurement

i1Pro 3	Spectral irradiance [mW/nm/m2], illuminance [lux] cosine corrected diffusor light measurement head
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## Interface

USB 1.1

## Power Supply

Device powered by USB. No additional charger or battery required. USB 1.1 high power device.

## Operating Conditions

Temperature	10°C (50°F) – 35°C (95°F)
Humidity	0% – 80% non-condensing

## Storage Conditions

Temperature	0° to 45°C
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## Physical Dimensions

i1Pro 3 Device	Length 162 mm, width 69 mm, height 64 mm (6.4" x 2.7" x 2.5")
i1Pro 3 Ruler	337 mm x 102 mm (13.3" x 4.0")
i1 Pro 3 Backup Board	355 mm x 265 mm (14.0" x 10.4") folded or 355 mm x 400 mm (14.0" x 15.7") unfolded
Weight i1Pro 3 Device	285 g (10.1 oz)

For more information, please visit [xrite.com](http://xrite.com) or contact your local X-Rite sales representative.