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	45º/0º 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 i1iO 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 23ºC (73.4ºF) on 12 BCRA tiles (D50, 2º))
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 ±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

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

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 or contact your local X-Rite sales representative.

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