i1PRO 3 PLUS

Color Profiling Without Limitations.

Spectral Engine

i1Pro 3 Plus: 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
Reporting	380 nm ... 730 nm in 10 nm steps
Measurement Frequency in Scanning Mode	400 measurements per second

Optics

Measurement Geometry	45º:0º ring illumination optics, ISO 13655:2017
Measurement Aperture	8 mm (0.31") diameter (effective measurement aperture during scanning is depending on the patch size and measurement speed)
Illumination Spot Size	12 mm (0.47")
Light Source	i1Pro3 Plus LED Illumination (including UV)

Reflectance Measurement

Measurement Condition	M0 - UV included - ISO 13655:2017 M1 - D50 - ISO 13655:2017 M2 - UV excluded - ISO 13655:2017 M3 - Polarization - UV excluded - 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	14 x 14 mm (0.55" x 0.55") (Width x Height)
Minimal Patch Size In Scanning Mode	16 x 16 mm (0.63" x 0.63") (Width x Height) with i1iO 16 x 16 mm (0.63" x 0.63") (Width x Height) with sensor ruler 20 x 16 mm (0.79" x 0.63") (Width x Height) without sensor ruler 20 x 16 mm (0.79" x 0.63") (Width x Height) with sensor ruler in M3 Mode 22 x 16 mm (0.87" x 0.63") (Width x Height) without sensor ruler in M3 Mode
Maximum Scan Length	515mm (20.28")
Inter-Instrument-Agreement	0.3 ΔE00* average, 0.8 ΔE00* 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 ΔE00 on white (D50,2°, mean of 10 measurements every 3 seconds on white) spectral radiance [mW/nm/m2/sr], luminance [cd/m2]

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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 Plus	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

Physical Dimensions

i1Pro 3 Plus Device	Length 162 mm, width 69 mm, height 64 mm (6.4" x 2.7" x 2.5")
i1Pro 3 Plus Ruler	Length 591mm , width 122 mm (23.3" x 4.8")
i1 Pro 3 Plus Backup Board	Length 670 mm, width 452 mm (26.4" x 17.8")
Weight i1Pro 3 Plus Device	285 g (10.0 oz)

For more information, please visit xrite.com or contact your local X-Rite sales representative.

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