

# 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	45°:0° 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	0.4 $\Delta E_{00}^*$ average, 1.0 $\Delta E_{00}^*$ 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	0.1 $\Delta E_{00}^*$ on white (D50, 2°, mean of 10 measurements every 3 s on white) spectral radiance [mW/nm/m <sup>2</sup> /sr], luminance [cd/m <sup>2</sup> ]

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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 Plus	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

## 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](http://xrite.com) or contact your local X-Rite sales representative.