



X-Rite i1Pro 3 PLUS SPECTROPHOTOMETER

Color Profiling Without Limitations

SMART CHANGE STARTS HERE.

 **CANON SEE IMPOSSIBLE**

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
Optical Brightener Compensation (OBC)	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 iliO 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	515 mm (20.28")
Inter-Instrument-Agreement	0.4 ΔE_{00}^* average, 1.0 ΔE_{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 ΔE_{00}^* on white (D50, 2°, mean of 10 measurements every 3 s on white) spectral radiance [mW/nm/m ² /sr], luminance [cd/m ²]

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Emission Measurement

Measurement Range	0.2 - 5000 cd/m ² on a typical LCD-Monitor
Short-term Repeatability	x,y ±0.002 typ. (5000 K, 80 cd/m ²)

Ambient Light Measurement

iPro 3 Plus	Spectral irradiance [mW/nm/m ²], 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

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

iPro SPECTROPHOTOMETER

Feature comparison of new iPro 3 Plus vs. iPro 2

The new iPro 3 Plus has been enhanced and redesigned to provide elevated versatility, reliability, ergonomics, functionality, and value.



Measurement Illumination Conditions

M0 (ISO 13655-2009) "Tungsten" (No Filter)	•	•	
M1 "D50"	•	•	
M2 "UV cut"	•	•	
M3 "Polarization with UV cut"	•		Polarization reduces chromatic highlights on fabrics & ceramics; provides more defined shadows on photographic papers.
Single Scan M0, M1, M2, and M3	•		Single pass scanning helps to save time and improve accuracy.
OBC X-Rite Optical Brightener Compensation Technology	•	•	

Reflectance Measurement

Size of Collection Spot	8 mm	3.5 mm	Larger aperture is optimized for new industrial materials like textiles, corrugated, grand format prints, specialty fine art photo papers, etc.
Minimal Patch Size: Scan Measurement	16 mm	7 mm	
Minimal Patch Size: Spot Measurement	14 mm	4.5 mm	
Position Detection Sensor	•	•	Enables more robust scanning, even on critical substrates or low resolution prints, removing virtually all user errors, requiring less operator skills.
Automatic Patch Recognition	•	•	This technology also enables the ability to measure M1 and M2 conditions, as well as OBC measurements.
Maximum Scan Length	515 mm	260 mm	
Ruler Length	591 mm	333 mm	Longer rule enables hand scanning of longer samples (grand format, etc.).
Sampling Rate (Hz)	400	200	Higher scanning measurement speed allows for use of smaller patches and/or more data points per patch, resulting in higher profile accuracy and faster measurements.

Emissive Measurement

Maximum supported luminance (cd/m ²)	5,000	1,200	Supports LCD displays with high luminance backlight technology.
Sensor with enhanced temperature drift compensation	•	•	Exceptional performance in display and projector profiling – avoid drift due to temperature change of the device during longer display measurement cycles.
Adaptive integration time based on patch luminance	•	•	Reduces noise to attain better accuracy for measurements on dark patches.
Supports emission hand scanning	•		Enables scanning of transmissive fabrics, films, glass, etc. for backlit applications.
Automated Transmission Profiling with iliO Scanning Table	•		Enables fast and accurate profiling via automation with use of third-party light table.

iPro SPECTROPHOTOMETER

Feature comparison of new iPro 3 Plus vs. iPro 2



Accuracy and Reliability

Full Spectrum LED Light Source	•	•	Improved reliability vs. tungsten bulb.
XRGA compatible for best inter-model-agreement	•	•	XRGA (X-Rite Graphic Arts) is a device standard that removes discrepancies across different measurement technologies and creates efficiencies in color measurement and communication procedures.
Built-in Wavelength Calibration Technology (self-check and correction)	•	•	Instrument can automatically self-diagnose and correct for small shifts as well as identify recalibration needs.
White Calibration Tile Protection	•	•	Larger white tile area ensures measurement accuracy and makes cleaning very easy; protective cover minimizes dust and dirt interference.
Cleanable Optics Protection Glass	•	•	Removable optics protection glass makes it easy for user to clean, minimizing dust and dirt interference.

Usability and Accessories

Extruded aluminum frame with mechanical interface for accessories	•	•	Improved temperature stability – the aluminum frame works as heat sink providing superior performance in display and projector profiling and adds stable connection between instrument and accessories.
Locking Cable Port	•	•	Enables device to be secured, via a standard PC type locking cable.
Polarization Filter (M3)	•	•	Included polarization filter can be used instead of normal glass filter to improve measurements of many materials.
Mountable Calibration Base	•	•	Enables calibration base to be easily secured, with standard screws.
White Backer Board	•	•	Optimized backer board provides ISO compliant white background for more accurate measurements.
User Guidance with Status LED	•	•	Visual indicators guides the user through the measurement process and indicates status of the device.
Support for Automated iliO Scanning Table	•	•	iliO third generation includes new footplate to fit iPro 3 Plus.
Monitor Holder	•	•	For convenient display profiling.
Spot Color Positioning Tool	•	•	New mechanical interface for easy instrument connectivity.
Digital Beamer (projector) Holder	•	•	Beamer holder has removable base plate for direct tripod mount.
Aluminum Ruler with Improved Solvent Ink Resistance	•	•	Removable aluminum ruler makes it easy to measure media wedges.
Ambient Light Head	•	•	Custom calibrated diffuser to each specific iPro device for the most accurate measurements of ambient light.
Carry Case	•	•	Designed to fit new device and accessories, and to keep all components secure and safe. New case is more ergonomic to carry when you want to take your iPro on the road.

iLiO FOR THE iPro 3 PLUS

Automation for Color Perfectionists.

Manually reading test charts for profiling and color validation is time-consuming and leaves room for human error. The iLiO is a robotic, automatic chart reading system designed for photographers, designers, and printers who want to eliminate manual strip reading. This new model has been developed to accommodate iPro 3 Plus, providing a simple way to enhance functionality and versatility, and speed up the measurement process.



Simple. Quick. Versatile.

- Measures reflective test charts on a variety of substrates up to 10 mm thick, including thin polybag material, ceramics, and textiles. The iLiO can measure substrates up to 23 mm thick with the addition of an optional z-axis spacer.
- Automates color patch scanning to quickly create custom profiles.
- Helps to reduce risk of measurement errors and significantly increase productivity in environments that require the reading of multiple charts.
- Enables compliance with ISO standards for M-Series measurement illumination conditions and accommodates a variety of inks and substrates in any viewing condition.
- Offers ultimate flexibility through hands-free automation and ease-of-use.
- Supports transmissive measurements of transparent backlit materials measured on third-party light box.

iIiO FOR THE iIPro 3 PLUS

The iIiO creates a powerful team in conjunction with the iIPro 3 Plus.

The iIPro 3 Plus integrates with the iIiO table for fast, repeatable, and automated production color on a variety of unique print and packaging substrates, including thin films, labels, cardboard, fabric, photo papers, plastics, and transparent materials, providing you with the utmost in profiling capabilities.



Service Support and Warranty

X-Rite's color analysis and measurement solutions are engineered and manufactured to highly rigorous quality standards. These standards are backed by comprehensive global service, superior phone and web support, and preventative maintenance options to optimize your long-term investment. We have developed service support and warranty plans that are unique to your organization's specific products and needs.

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