



# I1PRO 3 SOLUTIONS

15/16 January 2020, X-Rite UK



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  - i1Pro 3 and i1Pro 3 Plus hardware
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- i1Pro 3 Plus Use Cases
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  - Use case for Transmissive Profiling

# INTRODUCING NEW I1PRO 3 SOLUTIONS



- i1Pro 3 and i1Pro 3 Plus Hardware
- i1iO3 3 Hardware
- i1Profiler v3 Software

# Introducing new i1Pro 3 Solutions

- **i1Pro 3 Plus** ‘Large Aperture’
  - New device
  - Large Aperture (8 mm)
  - Polarization Filter (M3)
  - Aimed for measuring challenging substrates...
  - Launched June 2019
- **i1Pro 3** ‘Standard Aperture’
  - Replaces i1Pro 2
  - Small aperture (4,5 mm)
  - Announced Monday, January 13th 2020
  - FCS Wednesday, January 15th 2020
- **i1iO3** measurement automation table
  - For i1Pro 3+ and i1Pro 3
  - Not compatible for i1Pro 2



# X-Rite Visual Branding

*MetaVue*



*i1Display Pro*



*eXact*



*i1Pro2*



*i1Pro 3 Plus*



# i1Pro 2 and i1Pro 3 side by side



Weight is ~270g for all devices



*i1Pro 3 / i1Pro 3+*



*i1Pro2*

# i1Pro 3 Pad Printing



*i1Pro 3*



*i1Pro 3 Plus*

# i1Pro 3 – What's New?

## Both models

- **LED illumination** enables increased reliability
- **Single Scan** for M0, M1, M2... saves time and improves accuracy
- **High brightness** measurement support - up to **5k NITs** (5000 cd/m<sup>2</sup>) for ultra bright displays
- **Kensington Lock port** for increased security

## i1Pro 3 Plus model

- **Large aperture** (8 mm) better supports rough or structured materials and substrates
- **Polarization (M3)** filter for difficult material types:
  - Helps suppress specular highlights on fabrics and ceramics
  - Gives richer blacks and shadow details on rough surfaces like fine art papers
  - Spot and scan measurement mode
- **Emission Scanning** support to profile transmissive materials
- **Longer ruler** to support wider charts for grand format
- **New measurement backboard** with magnetic strips to better fix flexible materials



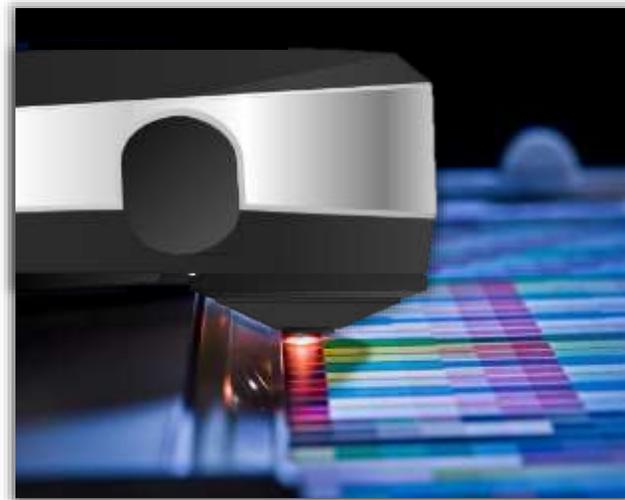
# Key Features Compared



	i1Pro2	i1Pro3	i1Pro3 Plus
Measurement aperture (mm)	4.5	<b>4.5</b>	<b>8</b>
Minimum spot measurement patch size (mm)	7 x 7	<b>6 x 6</b>	<b>14 x 14</b>
Maximum supported luminance (cd/m <sup>2</sup> )	1200	<b>5000</b>	<b>5000</b>
Sampling rate (Hz)	200	<b>400</b>	<b>400</b>
Maximum scan length (mm)	260	<b>260</b>	<b>515</b>
LED light source		<b>Yes</b>	<b>Yes</b>
Single pass scanning		<b>Yes</b>	<b>Yes</b>
Easy clean filter		<b>Yes</b>	<b>Yes</b>
Polarization option (M3)			<b>Yes</b>
Transmission scanning			<b>Yes</b>

# i1Pro 3 – New LED Illumination

- New LED based white light illumination
  - Provides white light with evenly distributed spectral energy close to D50
  - Enables to measure M0, M1 and M2 in a single scan
  - Improves measurement repeatability accuracy
  - Improves light life time
- Ring illumination (45°) used (like in legacy models)



# i1Pro 3 - Included Filters

## Both models

- Standard tubus 'No filter'
  - Anti-reflective clear cover glass
  - For M0, M1, M2 measurements
- Ambient light diffuser
  - To be attached over standard tubus
  - For ambient light measurements

## i1Pro 3 Plus

- Additional tubus 'Polarizing filter'
  - For M3 measurements
  - Quick and easy to change

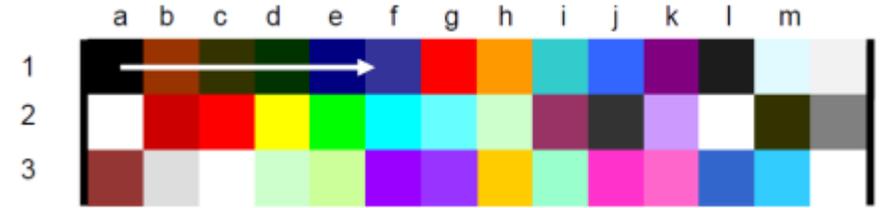




# Measurement Geometry

Device	Aperture size	Spot measurement guide size
i1 Pro2	4.5mm	4.5mm
i1 Pro3	4.5mm	4.5mm
i1Pro3 Plus <i>(with included polarization option)</i>	8mm	12mm

# Patch Geometry



Device	Min. Patch Size Spot Mode (w x h)	Min. Patch Size Scanning w/ Zebra Ruler (w x h)	Min. Patch Size Scanning w/o Zebra Ruler (w x h)	Min. Patch Size Scanning i1iO (w x h)
i1 Pro2	7mm x 7mm	7mm x 8mm	10mm x 8mm	6mm x 8mm (Basic) 7.5mm x 8mm (Position)
i1 Pro3	6mm x 6mm	7mm x 7mm	10mm x 7mm	6mm x 7mm 7.5mm x 8mm (Position)
i1Pro3 Plus <i>(w/o polarization)</i>	14mm x 14mm	16mm x 16mm	20mm x 16mm	16mm x 16mm
i1Pro3 Plus in M3 <i>(with polarization option)</i>	14mm x 14mm	20mm x 16mm	22mm x 16mm	22mm x 16mm

# i1Pro 3 Backboard and Ruler

## i1Pro 3

- White backboard like for i1Pro 2
- ISO 13655 compliant white
- Aluminum ruler with zebra strip (for position detection)
- Ruler length 333 mm, max scan length 260 mm



## i1Pro 3 Plus

- Large white backboard one solid piece
- Length x height 668 x 330 mm
- ISO 13655 compliant white
- Removable magnetic strips on top and sides
- Aluminum ruler with zebra strip (for position detection)
- Ruler length 591 mm, max scan length 515 mm





# Kensington Lock Port



# NEW I1IO 3 TABLE



# Introducing new i1 iO Generation 3

- Measurement automation table for i1Pro 3 devices
  - M0, M1, M2 spot and scan measurements with i1Pro 3
  - M0, M1, M2, M3 spot and scan measurements with i1Pro 3 Plus
- Measure substrates up to 10 mm thickness
- Updated slider to carry i1Pro 3 devices
- Updated interior materials to make it more robust, more accurate and quieter
- Supported devices
  - i1Pro 3
  - i1Pro 3 Plus
  - iO Z Axis Spacer (see next slides)
  - No i1Pro or i1Pro 2 compatibility or upgrade



# Introducing new i1 iO Generation 3

- Ships with two different glider rings (from Jan 2020), one for i1Pro 3 one for i1Pro 3 Plus



For i1Pro3  
(Standard Aperture)

For i1Pro3 Plus  
(Large Aperture)



# New i1 iO Z Axis Spacer

- New optional 'iO Z Axis Spacer' introduced to measure very thick materials
  - Adds additional 23 mm in height
  - Maximum material thickness with one added spacer: 33 mm
  - Even multiple spacers addable
- Enables to measure more materials
  - Potentially put on a lightbox to measure transparent materials\*
  - Industrial materials like textile frames, carpet, ceramics, corrugated,....
- Compatible with all iO versions

*\* planned to be supported in future version of i1Profiler's Transmissive Profiling workflow*



# NEW I1PROFILER V3



# i1Profiler – Version Summary

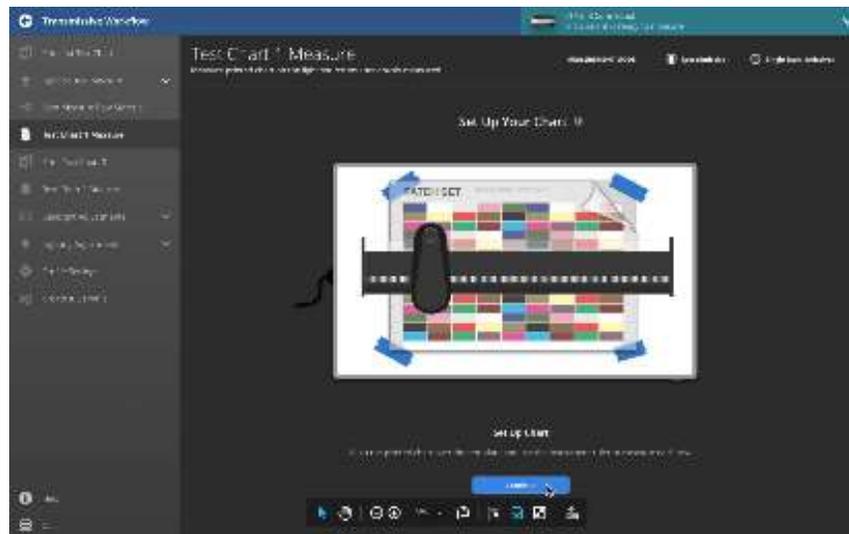


Version	Launch Timing	New Key Features
3.0.0 "i1Pro3"	July 2019 <i>(i1Pro3 Plus)</i>	<ul style="list-style-type: none"> <li>• i1Pro3 Plus (M3, 5k Nits, etc.)</li> <li>• i1iO3 for i1Pro3 Plus</li> <li>• Transmission Profiling (transmission scanning w i1Pro3 Plus)</li> <li>• Extended Color Gamut (ECG) Targets</li> <li>• Launcher Architecture</li> </ul>
3.1.1	October 2019 <i>(i1Display Pro Plus)</i>	<ul style="list-style-type: none"> <li>• i1 Display Pro Plus</li> <li>• MacOS Notarization (New MacOS Support)</li> <li>• Improvements for transmission scanning</li> </ul>
3.2.0	January 2020 <i>(i1Pro3)</i>	<ul style="list-style-type: none"> <li>• i1Pro3 (5k Nits, etc.)</li> <li>• i1iO3 for i1Pro3</li> <li>• Updated/Improved Quality Print Workflow</li> <li>• Drops support for i1Pro 1 (RevA – RevD) and iO1</li> </ul>
3.3.0	<i>Spring 2020</i>	<ul style="list-style-type: none"> <li>• Transmission Scanning for i1Pro3 Plus with i1iO Table</li> </ul>



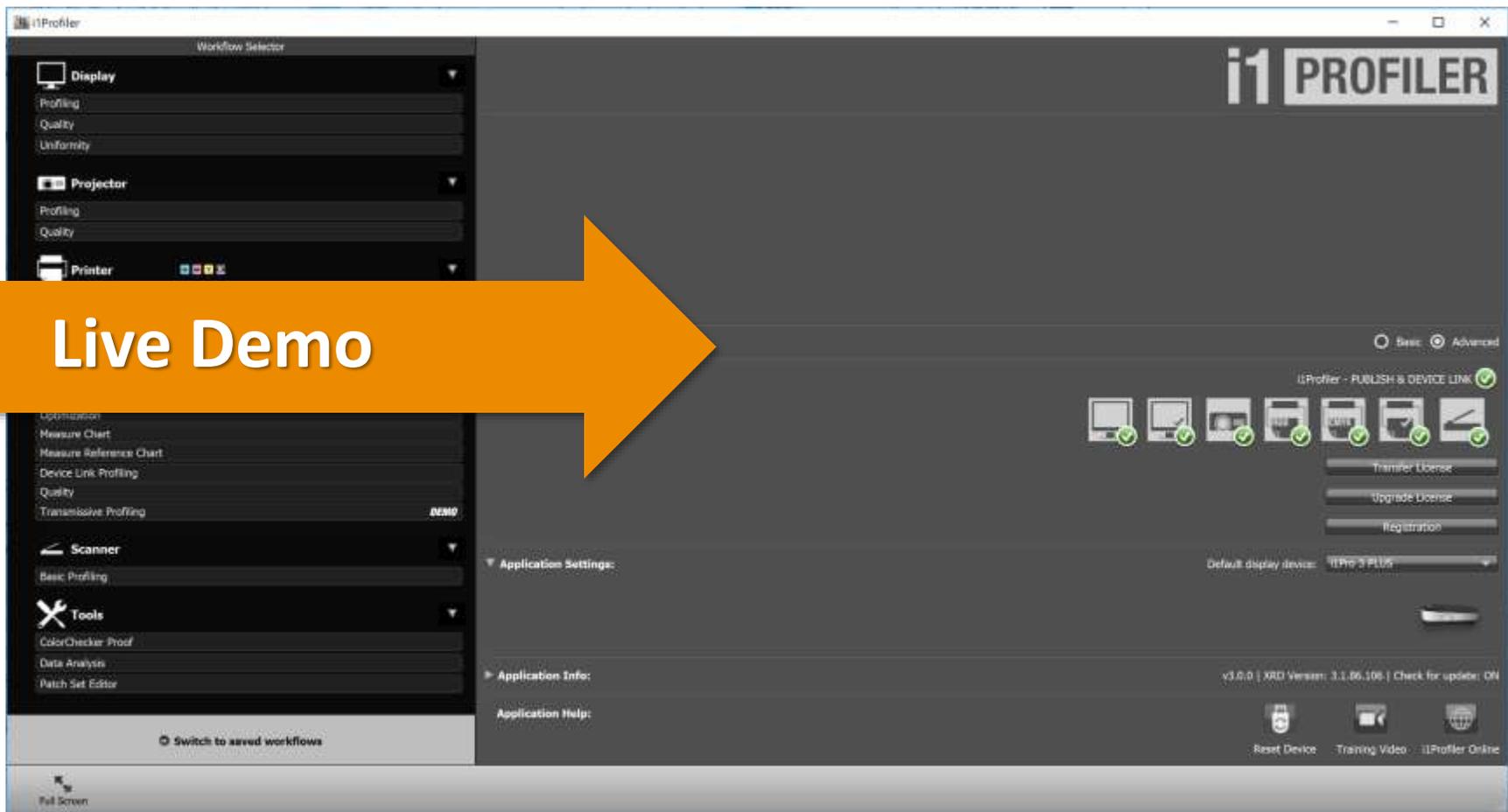
# i1Profiler v3 – Transmissive Profiling

- with i1Pro 3 Plus only
- Transmission measurements in scanning mode
- RGB and CMYK driven printers
- Included by default in RGB and CMYK printer profiling licenses
- iO3 support not yet included, planned for future update



# i1Profiler v3

Live Demo



# I1PRO 3 / I1PRO 3+ PRODUCT CONFIGURATIONS



# i1Pro 3 / i1Pro 3+ Case Content

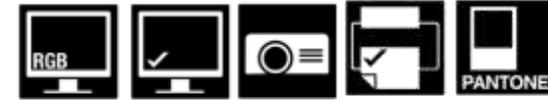
	i1Pro3	i1Pro3 Plus
Device	<b>i1Pro3</b>	<b>i1Pro3 Plus</b>
Calibration Base	Included	Included
Ambient Diffuser	Included with case	Included with case
Polarizing Filter	-	Included with case
Aluminum Ruler	Page Size ( <i>similar to i1Pro2</i> )	XL Size
White Backer	Page Size ( <i>similar to i1Pro2</i> )	XL Size with magnets
Display Holder	Included	Included
Quick Start Guide	Included	Included
Clear Targeting Base	Included	Included
Tripod Holder	Included	Included
Color Checker Classic Mini	In Pub/Pho	In Pub/Pho
Color Checker PROOF	In Pub/Pho	In Pub/Pho
OBC Mask for ColorChecker PROOF	In Pub/Pho	In Pub/Pho
USB Cable	Included	Included
Software Download Sheet	Included	Included
Certificate of Performance	Included	Included
Hard Case	Included	Included



# i1Pro 3 / i1Pro 3+ Product Configurations

## i1Basic Pro 3 / Pro 3+

- i1Pro 3 hardware
- i1Profiler Software...
  - Monitor Profiling and Quality Assurance
  - Projector Profiling
  - Printer Quality Assurance
- PANTONE Color Manager\*



*\*i1Pro 3+ device not yet recognized as measurement device and 'dongle', update is in progress.*

# i1Pro 3 / i1Pro 3+ Product Configurations

## i1Photo Pro 3 / Pro 3+

- i1Pro 3 hardware
- i1Profiler Software...
  - Monitor Profiling and Quality Assurance
  - Projector Profiling
  - Scanner Profiling
  - RGB Printer Profiling; Reflective, Transmissive (i1Pro 3+)
  - Printer Quality Assurance
- ColorChecker Camera Calibration System
- ColorChecker Proof
- PANTONE Color Manager\*

*\*i1Pro 3+ device not yet recognized as measurement device and 'dongle', update is in progress.*



# i1Pro 3 / i1Pro 3+ Product Configurations

## i1Publish Pro 3 / Pro 3+

- i1Pro 3 hardware
- i1Profiler Software...
  - Monitor Profiling and Quality Assurance
  - Projector Profiling
  - Scanner Profiling
  - RGB Printer Profiling; Reflective, Transmissive (i1Pro 3+)
  - CMYK Printer Profiling; Reflective, Transmissive (i1Pro 3+)
  - CMYK+X Printer Profiling
  - DeviceLink Profiling
  - Printer Quality Assurance
- ColorChecker Camera Calibration System
- ColorChecker Proof
- PANTONE Color Manager\*



*\*i1Pro 3+ device not yet recognized as measurement device and 'dongle', update is in progress.*

# i1Pro 3 / i1Pro 3+ Product Configurations

## i1Publish Software

- i1Profiler Software (with USB dongle)...
  - Monitor Profiling and Quality Assurance
  - Projector Profiling
  - Scanner Profiling
  - RGB Printer Profiling
  - CMYK and CMYK+X Printer Profiling
  - DeviceLink Profiling
  - Printer Quality Assurance
- ColorChecker Camera Calibration System
- ColorChecker Proof
- PANTONE Color Manager\*
- For high-end prepress, digital printing, press houses,...  
who want to add software to existing measurement equipment



*\*i1Pro 3+ device not yet recognized as measurement device and 'dongle', update is in progress.*

# i1Pro 3 / i1Pro 3+ Product Configurations



	i1Basic Pro 3 / Pro 3+	i1Photo Pro 3 / Pro 3+	i1Publish Pro 3 / Pro 3+	i1iO for i1Pro 3
i1Pro 3 Spectrophotometer	✓	✓	✓	
Hands Free Automation	With i1iO Table	With i1iO Table	With i1iO Table	Requires i1Pro3 device – not included
Display/QA	✓	✓	✓	
Projector Support	✓	✓	✓	
Scanner/RGB Printer		✓	✓	✓
CMYK/CMYK+ Printer			✓	✓
Printer QA	✓	✓	✓	✓
PANTONE Color Manager	✓	✓	✓	
Color Checker Camera Profiling		✓	✓	
Color Checker Proof/ColorChecker Classic Mini		✓	✓	
Country of origin	Switzerland	Switzerland	Switzerland	Germany

# Planned EOL / EOS Dates

Model	End of Production	Service Target after EOP	Planned End of Service
i1Pro	July 2012	7 years	January 31 <sup>st</sup> 2020
i1iO Gen 1	June 2012	7 years	January 31 <sup>st</sup> 2020
i1iO Gen 2	May 2020 (estimated)	5 years (7 years if possible)	December 2025
i1 Pro2	May 2020 (estimated)	5 years	December 2025





# RIP Partners

- Most RIP / Front End manufacturers have had access to the new SDK since last Winter
- Key partners that have solutions supporting i1Pro3 & i1Pro3 Plus include:

- EFI
- Caldera
- Onyx
- Fuji Film
- CGS
- ColorGate
- Ergosoft
- GMG
- HP
- OCE
- Ergosoft
- InEdit
- KIP
- Screen
- Mimaki
- Shima Seiki
- Dev Studio
- Chromix
- Bable Color
- Robin Myers Imaging

# Product part numbers and pricing

## *i1Pro 3 Packages*

Part No.	Description	Price (£)
EO3BAS	i1Basic Pro 3	1.150
EO3PHO	i1Photo Pro 3	1.500
EO3PUB	i1Publish Pro 3	1.999

## *i1Pro 3+ Packages*

Part No.	Description	Price (£)
EO3PLBAS	i1Basic Pro 3 Plus	1.350
EO3PLPHO	i1Photo Pro 3 Plus	1.750
EO3PLPUB	i1Publish Pro 3 Plus	2.375

## *Upgrade (applicable to i1Pro 3 and i1Pro 3+)*

Part No.	Description	Price (£)
EOPROF-UPGA	i1Pro Upgrade A (Basic to Full RGB+CMYK)	1.100

## *Software only*

Part No.	Description	Price (£)
EOPROF	i1Publish Software (includes USB dongle)	1.100

## *iO3*

Part No.	Description	Price (£)
EO3AST	i1iO3 for i1Pro 3 devices	2.500
EO3-800	i1iO Z-Axis Spacer	400



# i1Pro and i1Pro2 Trade In Program

[www.xritetradein.com](http://www.xritetradein.com)



## Buy

- Purchase a new **i1Pro3** or **i1Pro3 Plus** unit from authorized X-Rite dealer in U.S., Canada, Europe, or Australia.



## Claim

- Register online and complete your claim within 90 days of your new qualifying purchase at [www.xritetradein.com](http://www.xritetradein.com)



## Send

- Ship your trade in device to the Recycler within 60 days of completing your online claim. You will receive full shipping details in your approved claim email.



## Receive Cash Reward

- Receive your cashback via BACS or a physical check, within 14 days

# Qualifying Products, Pricing, Credit

New Product	X-Rite PN	Description
i1Basic Pro 3 i1Basic Pro 3 Plus	EO3BAS EO3PLBAS	i1 <b>Basic</b> Pro 3 (hardware only) without software keys/licenses. Designed to work with 3 <sup>rd</sup> Party Software Applications
i1Photo Pro3 i1Photo Pro3 Plus	EO3PHO EO3PLPHO	i1 <b>Photo</b> Pro 3 (hardware) with software keys/licenses to work it i1Profiler (software) create custom camera, monitor, projector, scanner and <b>RGB</b> printer profiles.
i1Publish Pro 3 i1Publish Pro 3 Plus	EO3PUB EO3PLPUB	i1 <b>Publish</b> Pro 3 (hardware) with software keys/licenses to work it i1Profiler (software) to create custom, high quality profiles for cameras, monitors, projectors, and <b>RGB/CMYK+</b>
i1iO for i1Pro3	E03AST	i1iO automated scanning table for i1Pro3.



Old Trade In Product	Description	USD	Euro	CHF	GBP	CAD
i1 Pro or i1 Pro UV Cut	"Eye One" Revision A through D	\$150	125	150	115	175
i1 Pro 2	"i1Pro 2" Revision E	\$300	250	300	225	350
i1iO Gen1 and Gen2	"i1iO" Rev 1 through 3	\$300	250	300	225	350



# Countries Supported for X-Rite i1 Pro Trade In

Promotion will be open to residents of:

<u>North America</u>	<u>Europe</u>	<u>Europe</u>	<u>Asia</u>
United States	Albania	Macedonia	<i>Asia teams will run locally</i>
Canada	Andorra	Malta	<i>managed trade in programs</i>
	Austria	Moldova	<i>where appropriate</i>
	Belgium	Monaco	
	Bosnia and Herzegovina	Montenegro	
	Bulgaria	Netherlands	
	Croatia	Norway	
	Czech Republic	Poland	
	Denmark	Portugal	
	Estonia	Republic of Ireland	
	Finland	Romania	
	France	San Marino	
	Germany	Serbia	
	Greece	Slovakia	
	Hungary	Slovenia	
	Iceland	Spain	
	Italy	Sweden	
	Latvia	Switzerland	
	Liechtenstein	United Kingdom	
	Lithuania	Vatican City	
	Luxembourg		

# Key Trade In Dates

- i1 Pro Trade In Start February 1, 2020 (or earlier)
- i1 Pro Trade In – End of Program June 30, 2020
- i1 Pro Trade In – Closing Date for last Applications September 30, 2021





## COMPARISON I1PRO 2, I1PRO 3, I1 PRO 3 PLUS

# i1Pro 2, i1Pro 3, i1Pro 3 Plus Comparison



i1Pro 3 Plus      i1Pro 3      i1Pro 2

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 saves time and improves accuracy.
OBC X-Rite Optical Brightener Compensation Technology	●	●	●

# i1Pro 2, i1Pro 3, i1Pro 3 Plus Comparison



i1Pro 3 Plus



i1Pro 3



i1Pro 2

## Reflectance Measurement

Measurement Aperture	8mm	4.5mm	4.5mm	Larger aperture is optimized for new industrial materials like textiles, corrugated, grand format prints, specialty fine art photo papers, etc.
Minimum Patch Width: Scan Measurement	16x16mm	7x7mm	7x8mm	
Minimum Patch Width: Spot Measurement	14x14mm	6x6mm	7x7mm	
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 Optical Brightener Compensation (OBC) measurements.
Maximum Scan Length	515mm	260mm	260mm	
Ruler Length	591	333	333	Longer ruler enables hand scanning of longer samples (grand format, etc.).
Sampling Rate (Hz)	400	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.

# i1Pro 2, i1Pro 3, i1Pro 3 Plus Comparison



i1Pro 3 Plus      i1Pro 3      i1Pro 2

## Emissive Measurement

Maximum supported luminance (cd/m <sup>2</sup> )	5,000	5,000	1,200	Supports LCD displays with high luminance backlight technology.
Sensor with enhanced temperature drift compensation	●	●	●	Best possible 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 transmission hand scanning	●			Enables scanning of transmissive fabrics, films, glass, etc. for backlit applications.

# i1Pro 2, i1Pro 3, i1Pro 3 Plus Comparison



i1Pro 3 Plus      i1Pro 3      i1Pro 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.

# i1Pro 2, i1Pro 3, i1Pro 3 Plus Comparison



## Usability and Accessories

Extruded aluminum frame with mechanical interface for accessories	●	●	●	Improved temperature stability – the aluminum frame works as heat sink providing best possible 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.

# i1Pro 2, i1Pro 3, i1Pro 3 Plus Comparison



## Usability and Accessories

	i1Pro 3 Plus	i1Pro 3	i1Pro 2	
User Guidance with Status LED	●	●	●	Visual indicators guides the user through the measurement process and indicates status of the device.
Support for Automated i1i0 Scanning Table	●	●	●	i1i0 third generation includes new footplate to fit i1Pro 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 i1Pro device for the most accurate measurements of ambient light.
Carry Case	●	●	●	Designed to fit new device and accessories, keeping all components secure and safe. New case is more ergonomic to carry when you want to take your i1Pro on the road.



## I1PRO 3 PLUS USE CASES

# i1Pro 3+ Target Markets

Larger Aperture and Polarization Filter enables measurement of new materials in new growing markets!

*Printed Ceramics – Thick Materials*



*Printed Textiles – Fabric Holding*



*Signage & Packaging*



*Printed Films - Transmission*



# Use Case for Polarization Filter (M3)

**Polarization** enables more accurate profiling for structured or glossy materials



*Much better defined darks on photographic papers (reflection from shiny blacks and wet inks)*



*Filters reflections from synthetic textiles and shiny inks*



*Filters chromatic highlights on fabrics & ceramics (reflections in the whites)*



# Use Case for Polarization Filter (M3)

- Polarization (M3) enables more accurate profiling for challenging materials
- Large aperture enables doing polarized measurements even in scan mode

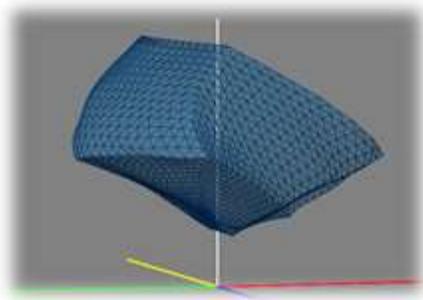
*Comparison – textile material profiled with M0, M1, M2, M3 measurement conditions*

*Printer: Ricoh Inkjet (CMYK)*

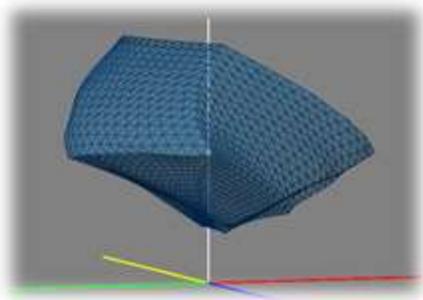
*Substrate: synthetic textile (high OBA)*

*Equipment: i1Profiler v 3.1.1 with i1Pro 3+*

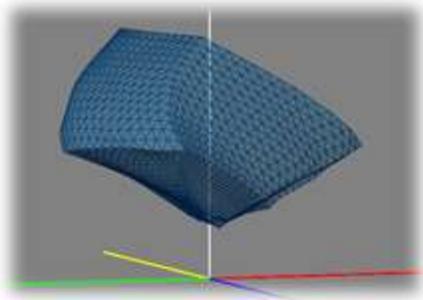
M0



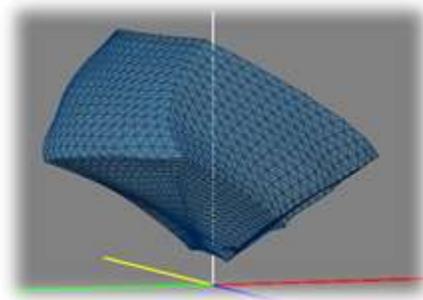
M1



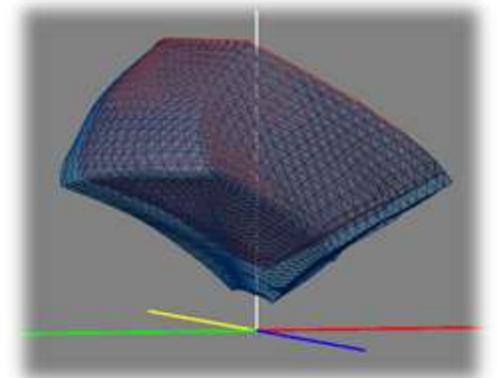
M2



M3



*M2 and M3 compared*



# Use Case for Polarization Filter (M3)

M0



# Use Case for Polarization Filter (M3)



M1

*Gray balance more bluish*

# Use Case for Polarization Filter (M3)



M2  
*Gray balance more neutral*

# Use Case for Polarization Filter (M3)



**M3**  
*More drawing*

# Use Case for Transmissive Profiling

- Create much more accurate profiles for translucent or transparent materials
- Large aperture enables doing transmissive measurements even in scan mode

***Comparison – translucent material profiled once in reflective, once in transmissive mode***

*Printer: Ricoh Pro C9200 Laser Printer (CMYK)*

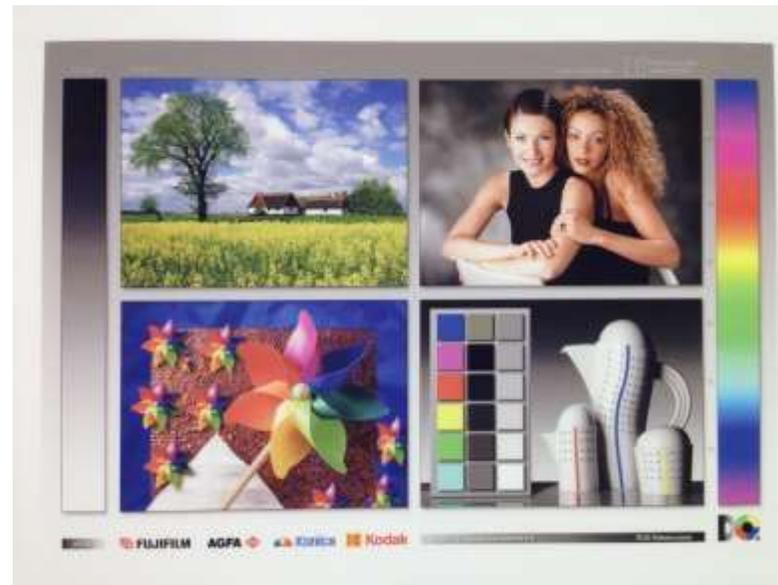
*Substrate: translucent windows sticker material*

*Equipment: i1Profiler v 3.1.1 with i1Pro 3+*

*Profiled in reflective mode*



*Profiled in transmissive mode*



# Use Case for Transmissive Profiling



*Profiled in **reflective** measurement mode.  
Results viewed on **lightbox turned off**.  
Colors seem to be OK.*

# Use Case for Transmissive Profiling



*Profiled in **reflective** measurement mode.  
Results viewed on **lightbox turned on**.  
Colors look washed out.*

# Use Case for Transmissive Profiling



*Profiled in **transmissive** measurement mode.  
Results viewed on **lightbox turned off**.  
Colors seem looking totally wrong.*

*You would never reproduce color manually  
in this direction.*

# Use Case for Transmissive Profiling



*Profiled in **transmissive** measurement mode.  
Results viewed on **lightbox** turned on.  
Colors are accurate and colorful.*

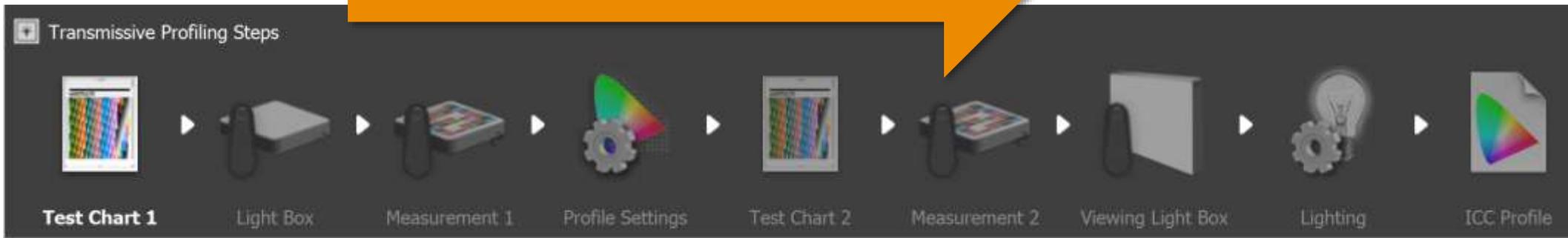
# Transmissive Profiling in i1Profiler v3

- Profile clear transparent or translucent materials like backlite, foils, textiles, ...
- Requires i1Pro 3 Plus (iO3 support not yet implemented)
- Included by default in RGB and CMYK printer profiling licenses
- Use any custom lightbox for chart measurements (see next, why this is possible...)



# Transmissive Profiling in i1Profiler v3 – The Steps

Live Demo



# Transmissive Profiling in i1Profiler v3 – The Steps



- Create and print chart...
  - Lightbox template (to frame measurement area)
  - First test chart with 100 patches



- Measure lightbox
  - Surface properties / light diffusion -> light off and light on
  - Light homogeneity -> scan row by row while light is on



- Measure first chart
  - Translucent or textiles: measure substrate on white background, then full chart on lightbox turned on
  - Clear transparent media: only measure full chart on lightbox turned on



- Define profile settings (CMYK separation)



- Create and print second chart...
  - Another set of 100 patches compiled based on first measurements
  - Print with same conditions like first chart



- Measure second chart



- Optionally measure final viewing light box
  - Color temperature and luminance
  - If no access, select 'same as measuring light box'



- Save ICC profile

# X-RITE SUPPORT CONTACTS





# X-Rite Contacts

## Sales Questions

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## Hardware Service

Request device repair or certification:

<https://www.xrite.com/service-support/services-offered/repair-certification>

## Application Support

First priority (fastest way to get help):

Enter a support ticket via <https://my.xrite.com/login.aspx> -> My Support Cases...

Or enter a support ticket via <https://www.xrite.com/contact-us/contact-us-form?pi=3>

Refer to 'Liane' in your case comments

*Note: attachments can be send via e-mail after our first response to your support ticket*



Questions?

## COLOR AS YOU IMAGINED IT