eXact™ 2

Next generation
portable color measurement

Model		eXact 2	eXact 2 Xp	eXact 2 Plus
Supported Substrates	Recycled White Paper Carton - Flexo	▣		▣
	Recycled Paper Box - Offset	▣		▣
	Thick Premium Box - Flexo	▣		▣
	Brown Paper Carton - Flexo	▣		▣
	White Paper Bag - Flexo	▣		▣
	Clear Label - Flexo		▣	▣
	White Film Label - Flexo		▣	▣
	Clear Film on Clear Plastic Bag - Flexo		▣	▣
	Clear Label - Gravure		▣	▣
	White Film Wrapper - Flexo		▣	▣
	Coated Paper Label - Flexo		▣	▣

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Measurement Functions	Special	Paper Indices (Whiteness & Yellowness)			X
		Metamerism			X
		Absolute & Relative Color Strength			X
		Opacity			X
		Reflectance Graph			X
		ColorCert Workflow Integration	X	X	X
		Digital Loupe	X	X	X
		BestMatch	X	X	X
		Brightener Index	X	X	X
		Printing Plate	X	X	X
		Fogra/Ugra Mediawedge, Idealliance wedge (spot and scan)	X	X	X
		Enhanced QC Functions: Paper QC, Inks QC, Gray Balance QC, BestMatch Table, TVI Table, G7 Gray Balance	X	X	X
		Graphs for all functions: incl. Trend, Reflectance curves, L*a*b* graphs or special graphs	X	X	X
	Colorimetry	CIE XYZ, CIE Yyx			X
		CIE L*a*b*	X	X	X
		CIE L*C*h°	X	X	X
		Density + CIE L*a*b*	X	X	X
		Density + CIE L*C*h°	X	X	X
		Graphs: incl. Trend and/or L*a*b* graphs	X	X	X
	Densitometry	Density	X	X	X
		Tone Value (Dot Area) for M-D and SCTV	X	X	X
		Tone Value Increase (Dot Gain) for M-D and SCTV	X	X	X
		Print Characteristics, Print Curve for M-D and SCTV	X	X	X
		Trapping	X	X	X
		Contrast	X	X	X
		Hue Error & Grayness	X	X	X
		Graphs: incl. Trend or Bar graphs	X	X	X

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Measurement Features	Printing Processes	G7, PSO, ISO, Japan Color	X	X	X
		Custom Job Templates	X	X	X
	Color Libraries	Pantone Formula Guide Coated & Uncoated, Pastels & Neons Guide Coated & Uncoated for M0, M1, M2, M3	X	X	X
		PantoneLIVE	O	O	X[1]
		Custom Color Libraries	X	X	X
	Security	Setting password protection	X	X	X
	NetProfiler	Verify and optimize the instrument anytime onsite	O	O	O
	Others	Scanning integrated	X	X	X
		Spectral data output	X	X	X
		Pass/Fail indication	X	X	X
		Averaging	X	X	X
		Sample storage, incl. image capture	X[2]	X[2]	X[2]
		Custom Job Builder, Custom Color Library Builder	X	X	X
Measurement Parameters	Measurement Conditions	- M0 - UV included - ISO 13655:2017 - M1 (method b) - D50 - ISO 13655:2017 - M2 - UV excluded - ISO 13655:2017 - M3 - Polarization - ISO 13655:2017[3] (not in eXact 2 Xp) All conditions measured with one single measurement (for spot and scan)	X	X[3]	X
	Illuminant / Observer	A, C, D50, D55, D65, D75, F2, F7, F11, and F12 (2° and 10° observer)	X	X	X
	dE Method	dE*76, dE*94, dE*00, dE CMC	X	X	X
	Density Status	ISO Status A, ISO Status E, ISO Status I, ISO Status T, Status G	X	X	X
	Density White Base	Absolute, Paper	X	X	X
	Density Colors	C, M, Y, K and spectral density for spot colors	X	X	X
Data Interface	USB	USB-C port (delivered with adapter to connect to USB-A ports)	X	X	X
	Wifi		X	X	X
Service	X-Rite Link Fleet Management *	Monitor device health, certification status, NetProfiler status, and service records Push instrument firmware updates, configurations, and color libraries from centralized locations	X	X	X
	2 year service care plan	NetProfiler, loaner devices, accidental damage repair, phone & email technical support	O	O	O
Software	eXact 2 Suite	Incl. instrument configurations, color library editor, job template editor and DataCatcher	X	X	X
	ColorCert QA Tools	A press room and ink room quality assurance solution that provides actionable guidance to manage color standards and improve color performance	O	O	O

X: Included
O: Optional
1) 1 year license
2) limited to 20 samples
3) eXact 2 Xp does not support M3

* 2 year license with service care plan

Spectral Engine

Spectral analyzer	DRS spectral engine
Spectral range	400 nm - 700 nm

Optics

Measurement geometry	45°:0°, Circumferential optics, three illuminators, ISO 13655:2017
Measurement aperture	1.5mm, 2mm, 4mm or 6mm
Light source	Full spectrum LED light source

Reflectance Measurement

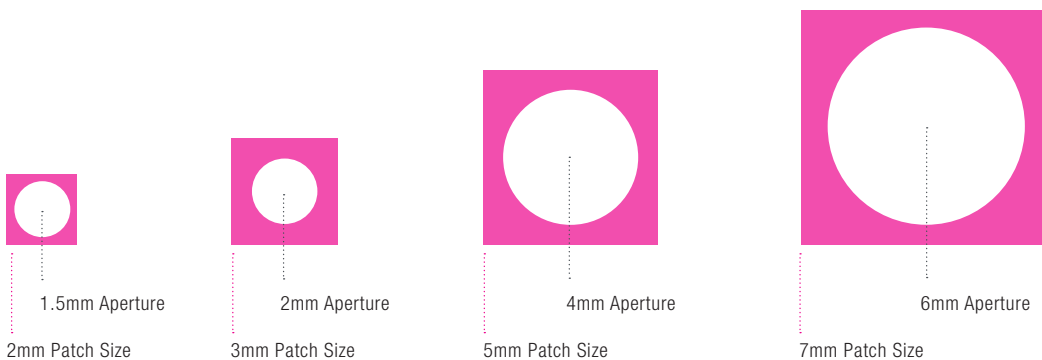|	
Calibration	Automatic on white reference
Inter-instrument agreement	Average: 0.25 dEab, Max: 0.45 dEab (for M3: 0.55 dEab) (Measurements using X-Rite manufacturing standards at a temperature of 23°C +/- 1°C, 40-60% RH for all measurement modes on 12 BCRA color tiles and a white ceramic reference (D50, 2°))
Short term repeatability - White	0.02 dEab (standard deviation) White BCRA (Error compared to mean value of 20 measurements every 5 seconds)
Short term repeatability - Density	+/-0.01 D for CMYK
Scan Length	Max: 1'120mm (44")

Available aperture sizes:

Aperture Size	Measurement area / on-screen reticle size	Recommended patch size	Screening Range
1.5mm	1.5mm	2mm-4mm	175 lines/inch or 69 lines/cm or above
2mm	2mm	3mm- 5mm	133 lines/inch or 52 lines/cm or above
4mm	4mm	5mm-7mm	65 lines/inch or 26 lines/cm or above
6mm	6mm	7mm or larger	

It is always recommended to use the largest aperture size possible.

The illustration below shows how this minimum measurement area appears in relation to the target window opening.
The white circle represents the actual measurement area (which equals the aperture size).
The magenta square represents the minimum suggested patch size.

This can be used as a guide for operators when placing the instrument optics over patches,
which do not completely fill the target window opening.

1.5mm Aperture	2mm Aperture	4mm Aperture	6mm Aperture
2mm Patch Size	3mm Patch Size	5mm Patch Size	7mm Patch Size

Patch Size	Spot Mode	Scan Mode		
	Spot only* (max aperture size)	Strips< 10cm/4" (max aperture size)	Strips 10cm/4" to 75cm/30" (max aperture size)	Strips> 75cm/30" (max aperture size)
2mm	1.5mm	-	-	-
3mm	2mm	1.5mm	-	-
4mm	2mm	2mm	2mm	-
5mm	4mm	2mm	2mm	2mm
6mm	4mm	4mm	4mm	2mm
7mm	6mm	4mm	4mm	4mm
8mm	6mm	6mm	6mm	4mm
>=9mm	6mm	6mm	6mm	6mm

*For spot readings, it is always recommended to use the largest aperture size possible.
If the instrument is used for scanning as well, scan mode will dictate the aperture size.

Accessories

USB-C cable with Adapter for USB-A
Power Supply
Docking/Charging Station
Quick Start Guide
Carrying case
ISO 90001 certificate