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Portable Spectrophotometers

X-Rite Ci6x Series™

Improving Color Management Throughout The Supply Chain

x-rite

The Ci6x Series

A Color Management Advantage That Fits In the Palm Of Your Hand

The Ci6x Series is a complete color management package designed to provide end-users with the perfect complement to a quality assurance, quality control, and process control operation.

1. Switchable apertures (Ci64) provide greater flexibility
2. Status LEDs give real-time visual feedback
3. Embedded NetProfiler monitors instrument and performance
4. Hi-Res color LCD is easy to see and read
5. Bluetooth (available in compliant countries only) allows wireless communication with other system components
6. USB communication with QC or QA systems
7. Remote measurement trigger for convenient measurements
8. Ergonomic overmold design provides smooth, comfortable grip
9. Calibrated UV (Ci64 UV only) enables increased accuracy with OBA samples
10. Embedded transform enabled to optimize agreement with legacy instruments
11. Common SP flip-back shoe that aids in sample presentation and techniques
12. Reliable detent lock

Manage Color and Process Control, Reduce Operating Costs

Color is an area that is often overlooked in manufacturing. Yet proper color measurement offers significant advantages to every industry — from paint and coatings, to textiles, to home furnishings. This happens by improving the color consistency of your products. By improving the color consistency, you exceed customer expectations while reducing waste and downtime, and increase process efficiency and profitability.

Having a sound color program begins with having the right tools to deliver accurate, consistent measurement. X-Rite has those tools. The Ci6x family of handheld spectrophotometers is a performance-driven solution for managing color at any stage of production, and gives manufacturers a whole new level of confidence in their color data, regardless of where or when the measurements are collected.

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A Versatile Package for a Wide Range of Color Applications

The Ci6x Series creates opportunities to develop a consistent color monitoring program, efficiently manage process quality control, and reduce operating costs. The many options within the product family give operations of all sizes the ability to build in a stable measurement system that delivers repeatable performance and increased product yield. This makes the Ci6x Series a reliable solution for a wide range of industries and applications:

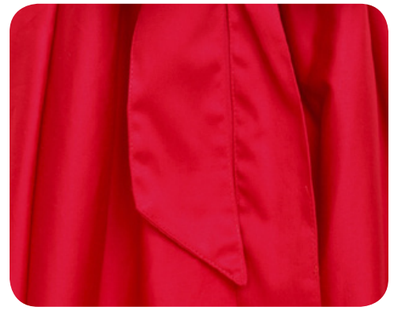
Commercial Coatings. The need to meet specific color codes and regulations requires repeatable color measurement. The Ci6x Series provides the consistency demanded to ensure batch-to-batch color conformity.

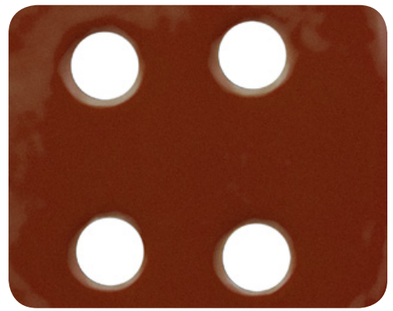
Plastics. Batch consistency—from raw material through finished product—often varies depending on material supplier and process conditions. The Ci6x Series can monitor the color impact of shifts in process variables, while X-Rite application software storing color data that can be shared among the supply network to ensure color accuracy.

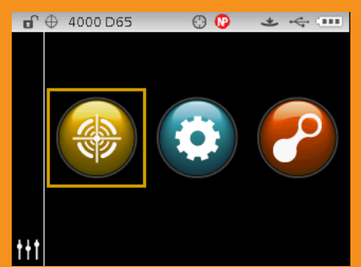
Automotive. Whether OEM interior, aftermarket parts, or second- and third-tier supplier components, color accuracy is an absolute must. The Ci6x system allows manufacturers at every level to achieve consistent readings. The ability to simultaneously measure SCI/SCE further enhances the quality control process.

Textiles. While materials and fabrics may appear similar at first glance, those that contain optical brightening agents (OBA) may result in a much different look under varied lighting conditions. Available calibrated UV enhanced illumination controls the UV/visible balance, enabling long-term, consistent measurement of optically bright samples.

Home Furnishings. Different materials—wood, paint, plastic, metal, fabric—and a wide variety of colors, make repeatable color conformance critical. The Ci6x family is able to read a wide range of materials and provide a benchmark measurement that can be used at each step of the production or assembly process.

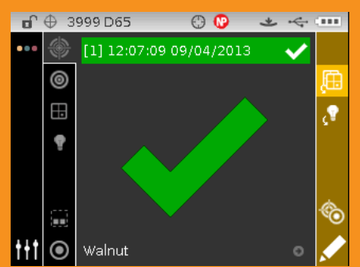




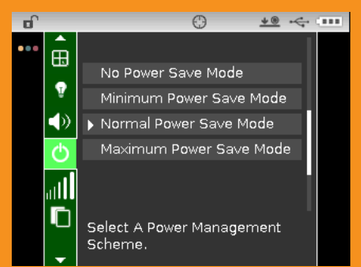


Easy to use – straight forward main menu with model dependent options to measure, to run a predefined job or to calibrate the device (Ci64 Shown)

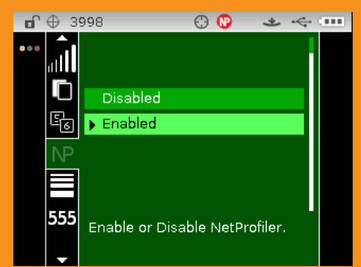
Results at a glance – the instrument could either show detailed color comparison data for the analyst…



… or just simplified and straight forward pass fail indication for the production user.



Easy to configure – quick access navigation columns allow easy and fast configuration of the instrument



NetProfiler on the go – perform more accurate readings when using your device in portable mode

Calibrated UV component – first X-Rite handheld spectrophotometer with adjustable UV component to fully characterize optically brightened materials

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Ci6x Series Specifications

Measuring Geometrics	d/8°, DRS spectral engine fixed aperture Simultaneous SPIN / SPEX
Illuminant Types	A, C, D50, D65, F2, F7,F11 & F12
Data Compatibility	SP series backward compatibility
Standard Observers	2° & 10°
Receiver	Blue-enhanced silicon photodiodes
Spectral Range	400 – 700nm
Spectral Interval	10nm – measured 10nm – output
Storage	1,000 standards with tolerances 4,000 samples
Measurement Range	0 to 200% reflectance
Measuring Time	Approx. 2 seconds
Color Spaces, Indices, Functions	[√/X], Lab, YI1925, WI Taube, Δecmc, Δlab, ΔWI73, L*a*b*, Reflectance, WI98, MI, ΔE00, Δreflectance, ΔWI Berger, L*C*h°, Munsell Notation, WI73, MI6172, ΔE94, ΔYI98, ΔWI Hunter, XYZ, Gray Scale, WI Berger, Gloss, ΔXYZ, ΔYI73, ΔWI Stensby, Yxy, YI98, WI Hunter, ΔL*a*b*, ΔYxy, ΔYI1925, ΔWI Taube, L*u*v*, YI73, WI Stensby, ΔL*C*h°, ΔL*u*v*, ΔWI98, Averging, 555 Shade Sort, Verbal Difference, Power Management

Lamp Life	Approx. 500,000 measurements
Charge Time	Approx. 4 hours – 100% capacity
Battery	Removable (Li-ion) battery pack; 7.4 VDC, 2400 mAh
Transform Support	Embedded
AC Adapter Requirements	X-Rite P/N: SE30-177 100-240VAC 50/60Hz, 12VDC @ 2.5A
Display	3.2 inch backlit Color Graphic LCD
Operating Temperature Range	50° to 104°F (10° to 40°C) 85% relative humidity maximum (non-condensing)
Storage Temperature Range	-4° to 122°F (-20° to 50°C)
Weight	2.34 lbs. (≈1.06 kg)
Dimensions	4.3″H 3.6″W 8.4″L (10.9 cm 9.1 cm 21.3 cm)
Languages	English, German, French, Spanish, Italian, Portuguese, Chinese Simplified, Chinese Traditional, Korean, and Japanese

	Ci60 Specifications	Ci62 Specifications	Ci64 Specifications	Ci64UV Specifications
Optical Aperture	8mm measurement area / 14mm target window	**Choice of Optical Aperture:** 4mm measurement area / 6.5mm target window or 8mm measurement area / 14mm target window	**Choice of Optical Aperture - Switchable Aperture** 4mm measurement area / 6.5mm target window and 8mm measurement area / 14mm target window or Large fixed aperature 14mm measurement area / 20mm target window	**Choice of Optical Aperture - Switchable Aperture** 4mm measurement area / 6.5mm target window and 8mm measurement area / 14mm target window
Light Source	Gas-filled tungsten lamp	Gas-filled tungsten lamp	Gas-filled tungsten lamp	Gas-filled tungsten lamp + UV LEDs Adjustable UV Content
Inter-Instrument Agreement	CIE L*a*b*: Avg. 0.40 ΔE*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.60 ΔE*ab on any tile (specular component included)	CIE L*a*b*: Avg. 0.20 ΔE*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.40 ΔE*ab on any tile (specular component included)	**Inter-Instrument Agreement 8mm/14mm or 14mm/20mm** CIE L*a*b*: Avg. 0.13 ΔE*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.25 ΔE*ab on any tile (specular component included) **4mm/6.5mm** CIE L*a*b*: Avg. 0.2 ΔE*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.40ΔE*ab on any tile (specular component included)	**Inter-Instrument Agreement 8mm/14mm** CIE L*a*b*: Avg. 0.13 ΔE*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.25 ΔE*ab on any tile (specular component included) **4mm/6.5mm** CIE L*a*b*: Avg. 0.2 ΔE*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max. 0.40ΔE*ab on any tile (specular component included)
Short-Term Repeatability	.10 ΔE*ab on white ceramic	.05 ΔE*ab on white ceramic	.04 ΔE*ab on white ceramic	.04 ΔE*ab on white ceramic
Data Interface		USB 2.0, Bluetooth ◊	USB 2.0, Bluetooth ◊	USB 2.0, Bluetooth ◊
Accessories Provided	Calibration standards: Black trap, White standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, UV Calibration standard, Operations manual, AC adapter
Options	Sample presentation fixtures, Spare battery, Dual bay charger	NetProfiler, Sample presentation fixtures, Benchtop stand, Spare battery, Dual bay charger	NetProfiler, Sample presentation fixtures, Benchtop stand, Spare battery, Dual bay charger	NetProfiler, Sample presentation fixtures, Benchtop stand, Spare battery, Dual bay charger
Modes/Functions	QA, Compare, Opacity, Strength	QA, Compare, Opacity, Strength, Projects	QA, Compare, Opacity, Strength, Projects & Jobs	QA, Compare, Opacity, Strength, Projects & Jobs

◊ In compliant countries only; Work with your sales representative to identify if it is an available option in your region.
"Project" function–allows a different group of standards for each project.
"Jobs" function–step by step instructions will allow a programmed sequence of specific steps to assist the operator in the color measurement process.