

Portable Sphere Spectrophotometer



CHECK 3



Trusted. Portable. Color Measurement.

The new Datacolor® CHECK 3 portable spectrophotometer continues the tradition of best-in-class color measurement performance. Improved ease of use features include a new modern user interface, enhanced Bluetooth functionality, and an illuminated sample port. This enables you to rest assured that the CHECK 3 will consistently deliver accurate color data to meet your formulation or quality control needs in paint and coatings, plastics, or textile applications.

Measure With Confidence

Exceptional Measurement Performance

CHECK 3 offers excellent correlation to Datacolor's world-renowned bench-top spectrophotometers and shares the same high-accuracy SP2000 spectrometer as our reference grade Datacolor 600 benchtop instrument. This makes CHECK 3 an instrument you can count on for highly accurate color data from measurement to measurement, and from vendor to customer, throughout your supply chain.

New Instrument Design

The horizontal orientation of the CHECK 3 allows the user to take measurements even in height constrained areas, improving ease of use.

Precise Positioning

An illuminated sample port enables direct view of the sample, through the sphere, to ensure precise positioning for sample measurement.



CHECK 3 TRUSTED. PORTABLE. COLOR MEASUREMENT.



Easy-to-Learn, Easy-to-Use

Extensive Onboard Functionality

Large color LCD screen with a completely redesigned, intuitive user interface makes the instrument easy-to-learn and easy-to-use.

- 1-click continuous sample measurement.
- Live Navigation bar enables easy access to Target, Batch, Tolerance, and other settings.
- Pass/Fail, Auto-Standard, Auto-Naming, Auto-Saving, Indices and more.

Bluetooth® and USB Peripheral Support Allows Easy Measurement Wherever You Are

- Seamlessly transfer standards and measurements back and forth between CHECK 3 and Datacolor TOOLS quality control software via Bluetooth or USB.
- Initiate sample measurement from TOOLS when connected via Bluetooth.
- Easy export of data to a USB flash-drive.
- Support for USB keyboards and bar code scanners.

Service and Support

- All instruments can be serviced in the field or at one of our many service center locations worldwide.

TECHNICAL SPECIFICATIONS	DESCRIPTION
Measuring Geometry	$d/8^\circ$
Sphere Diameter	2 inches
Light Source	Pulsed xenon
Spectral Range	400 nm – 700 nm
Effective Bandwidth	10 nm
Wavelength Resolution	2 nm
Spectrometer Principle	Concave holographic grating
Detector	Proprietary Dual 256 element diode array
Color Repeatability ¹	< 0.03 CIELAB ΔE^* max on white ceramic tile
Color Inter-Instrument Agreement ¹	0.15 CIELAB ΔE^* avg. of 12 BCRA tiles 0.25 CIELAB ΔE^* max on any BCRA tile
Aperture Sizes Avail (all instruments are dual aperture)	LAV - 15mm illuminated, 11mm measured SAV - 10mm illuminated, 6.5 mm measured USAV - 6.6 mm illuminated, 2.5 mm measured
Battery	Rechargeable Li-Ion Battery > 2,000 measures/charge
Operating Environment	5° to 40°C up to 85% RH, non-condensing
Interface	USB, Bluetooth wireless

PHYSICAL SPECIFICATIONS	DESCRIPTION
Color Display	50.54mm x 68.62mm x 3.55mm
Display Resolution	240 x 320
Weight	1.25kg
Dimensions	235mm x 90mm x 99mm

(1) Environmental Conditions:
 Temperature 22.6°C +/- 2°C
 RH 44% +/- 1%

PART NUMBER	PRODUCT VERSION
1030-1608	CHECK 3 LAV/SAV
1030-1609	CHECK 3 LAV/USAV
1030-1610	CHECK 3 SAV/USAV
1030-1611	CHECK 3 LAV/SAV UV Excluded
1030-1612	CHECK 3 LAV/USAV UV Excluded
1030-1613	CHECK 3 SAV/USAV UV Excluded

FUNCTIONAL DATA	DESCRIPTION
Color Systems	CIE L^*, a^*, b^*, C, h coordinates
	Hunter L, a, b coordinates
	Tristimulus X, Y, Z, x, y coordinates
	CIE 2000
Color Difference	$DL^*, Da^*, Db^*, DC^*, Dh^*, DE^*$
	CMC color difference
	FMC II color differences
	Hunter DL, Da, Db, DE differences
Indices	Metamerism Index (CIE and DIN)
	Whiteness (CIE, E313, Hunter, Berger, Stensby)
	Yellowness (D1925 and E313)
	ISO/AATCC Staining
	ISO/AATCC Fastness
	Contrast Ratio
	Optical Density
Illuminants	D50, D55, D65, D75, A, C, U3000, Horizon, F2, F7, F11
Data Storage	>2,000 standards with Tolerance, max 500 batches per standard
Languages	English, French, German, Portuguese, Simplified Chinese and Spanish

For more information, please visit www.datacolor.com/check3