

# Portable Sphere Spectrophotometer



## 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 <sup>1</sup>	< 0.03 CIELAB $\Delta E^*$ max on white ceramic tile
Color Inter-Instrument Agreement <sup>1</sup>	0.15 CIELAB $\Delta E^*$ avg. of 12 BCRA tiles 0.25 CIELAB $\Delta E^*$ 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
Indices	Hunter $DL, Da, Db, DE$ differences
	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](http://www.datacolor.com/check3)