

Portable Spectrophotometer



CHECK® II



Quality Control Software in the Palm of Your Hand

Datacolor Check® II puts the power of a sophisticated desktop color QC system in the palm of your hand. Check II incorporates the indices, tolerance methods, and graphs of Datacolor Tools software with the industry-leading performance of Datacolor's SP2000 spectral analyzer. Check II brings the most powerful color evaluation tools right to the problem, helping you make the correct color decision right on the spot.

The Check II has the best accuracy and inter-instrument agreement of any portable spectrophotometer because it shares the same high-accuracy SP2000 spectral analyzer as the reference grade Datacolor 600 Benchtop. This means you can rely on the Check II for accurate color data from measurement to measurement, and from vendor to customer, throughout the supply chain.

No other manufacturer has the same degree of inter-line agreement with their masters the way Datacolor does with our SP2000-based family of instruments. Profiled instruments can't beat Datacolor's out-of-the-box performance.

HIGH-SPEED WIRELESS OPERATION

The Datacolor Check II's unique high-speed wireless operation enables you to transfer data anywhere you have access, Bluetooth or Wi-Fi, to Datacolor Paint, Datacolor Tools or other PC desktop software. That means quicker data exchanges with less reliance on wires and cables.

MULTI-DIMENSIONAL TOLERANCING

Unlike any other portable color spectrophotometer, the Datacolor Check II allows you to set pass/fail conditions for up to six tolerances simultaneously on

a single standard. This means you can detect metameric issues in real time, catching formulation or rework problems before they become expensive mistakes.

INDUSTRY-LEADING PERFORMANCE

Check II employs the same spectral technology as our benchtop systems like the Datacolor 600, so you not only get the best accuracy and inter-instrument agreement of any portable device, but also unparalleled agreement with the Datacolor reference grade instruments that your colorant labs use. Whether your work requires a single spectrophotometer or 100 instruments, you can rely on Datacolor for unrivaled single unit or fleet accuracy.

EASY-TO-USE INTUITIVE PDA NAVIGATION

The Datacolor Check II's unique PDA interface makes entering standard and sample names as easy as signing your own name. The large touch screen display and simple, straightforward menus make operation easy to learn and easy to use.

CHECK[®] II COLOR QUALITY CONTROL INSTRUMENT



Other Manufacturers use a variety of technologies in their instruments, and depend on questionable profiling techniques to smooth over the inherent differences in their spectral designs. Datacolor instruments are more accurate, with better inter-instrument agreement right out of the box, giving you the best solution for communicating color throughout your supply chain.

UNIQUE INDUSTRY-SPECIFIC FEATURES

The Check II employs three methods of 555 shade sorting (L*a*b*, LCh° and CMC), providing garment manufacturers and upholsterers with powerful sorting tools to determine their best fabric cutting sequence. The Check II is the first instrument with the LRV measurement evaluation for visual contrast as specified by the UK Building Standard 8300:2001-2005. Designers, contractors and inspectors can now use the Check II as the de facto instrument to ensure building standards compliance. No other portable spectrophotometers offer these unique functions.

FEATURES COMPARISON

	DATECOLOR CHECK [®]	DATECOLOR CHECK [®] II PLUS
Instrument Type	Portable	Portable
Geometry	d/B°	d/B°
SCI/SCE	✓	✓
Single Aperture	✓	-
Dual Aperture	-	✓
Motorized Specular Port	✓	✓
Storage Capacity (# Samples)	✓	✓
RS232 Interface	✓	✓
USB Interface	✓	✓
Grouping of Standards	✓	✓
Upload/Download to PC	✓	✓
Diagnostics	✓	✓
Printing Capabilities	✓	✓
Backup Data to Flash Memory	✓	✓
Measurement Averaging	✓	✓
User-Defined Timeouts	✓	✓
UV Excluded (Cutoff) Filter	-	Optional
Search Function	✓	✓

TECHNICAL SPECIFICATIONS	DESCRIPTION
Measuring Principle	Dual beam sphere - automatic specular port
Measuring Geometry	Diffuse illumination 8° viewing in conformance with CIE publication No. 15.2 colorimetry
Light Source	Pulsed xenon
Spectral Range	360 to 700nm (depending on model)
Effective Bandwidth	10 nm
Wavelength Resolution	2 nm
Spectrometer Principle	Concave holographic grating
Detector	Proprietary active pixel dual 256 element diode array
Sphere Diameter	51mm/2 in
Measuring Range	0 to 200% reflectance
Measurement Time	< 2.5 seconds
Aperture Sizes	LAV 15 mm 11 mm SAV 10 mm 6.5 mm USAV 6.5 mm 2.5 mm XUSAV 3.0 mm 2.5 mm Single or dual aperture configurations available
Repeatability	0.03 CIELAB E maximum white tile, 2 flash measurement
Inter-Instrument Agreement	0.15 average CIELAB E, 12 BCRA tiles, 0.25 CIELAB E maximum
Battery	Replaceable lithium ion
Battery Life per Charge	>2,000 measurements
Operating Environment	5° to 40° C up to 85% RH, non-condensing
Interface	RS232 and USB continuous Wi-Fi and Bluetooth upload/download

FUNCTIONAL DATA	DESCRIPTION
Software Features	Color coordinates, color differences, pass/fail tolerancing, plots, indices
Selectable Illuminants	D50, D55, D65, D75, A, C, U3000, Horizon, F2, F7 and F11
Selectable Observers	2° and 10°
Data Storage & Handling	30,000 samples batches, grouping of standards, upload/download of all reference data

PHYSICAL SPECIFICATIONS	DESCRIPTION
Size	9.7 cm x 9.5 cm x 24.6 cm / 3.85 in x 3.75 in x 9.7 in
Display (2.125 in. x 2.125 in.)	High-resolution, 320x480 color screen 5.4 cm x 5.4 cm
Weight	1 Kg/2.2 lbs
PDA	Palm TX [™] Personal Digital Assistant 312MHz Intel processor 128 MB RAM Palm Gamet OS [®] 5.4.9 Virtual keyboard 320 x 480 color screen
Accessories	Soft carry bag containing: power supply and country cord, stapler foot for sample alignment, RS232 and USB cables, white tile, black trap, User Guide, Portables software CD, white tile calibration CD, Palm [™] utilities CD

For more information, please visit www.datacolor.com

STANDALONE SYSTEM REQUIREMENTS

CRT or LCD monitor, Pentium 3 or higher with Serial or USB connection available, CD Reader, Windows[®] 2000 or XP Pro