

# Datacolor® SpectraVision

Objectively Measure and Digitally Communicate the Color of the “Unmeasurables”



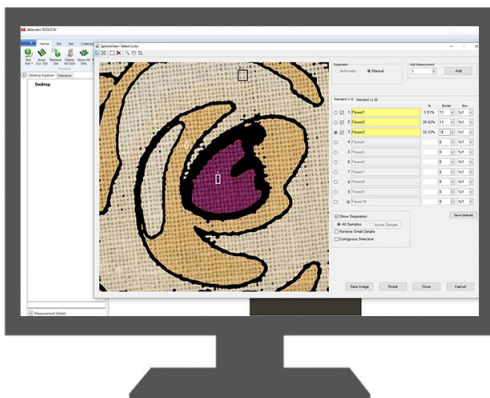
The Datacolor SpectraVision solution enables manufactures to objectively measure and digitally communicate color measurements for the multi-colored, textured, small-sized and irregular-shaped materials.

This solution combines an advanced hyperspectral spectrophotometer with formulation and quality control software to measure, formulate, analyze, report, communicate, and visualize accurate color results.



## Applicable in a wide range of industries and research applications:

- Textile Industry: measuring color in more challenging samples such as lace, yarns, prints, buttons, toggles, zippers and zipper pulls.
- Accessories : measuring the color of unmeasurables such as jewelry, watches, footwear along with leather goods used in handbags.
- Aerospace: modernizing color management for airplane interiors material such as thermal plastic panels
- Building material: measuring textured material such as vinyl flooring, stucco, roof shingles, textured siding, counter tops, engineered stones and more
- Paint and coatings: specialty pigments, coatings and weathering applications
- Specialty material: Hair, dental ceramics, crystals, small plastic pellets

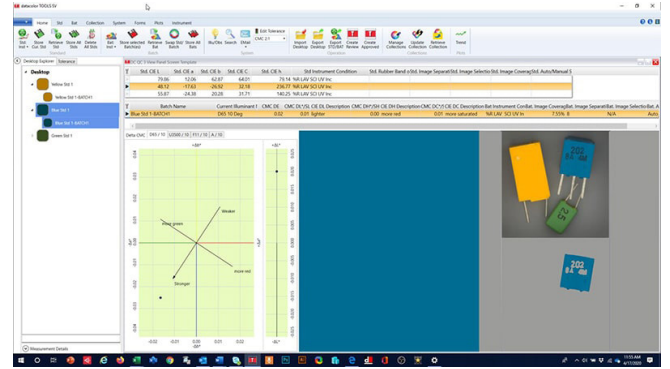


## Enables consistent, repeatable color measurement for the “unmeasurable” material

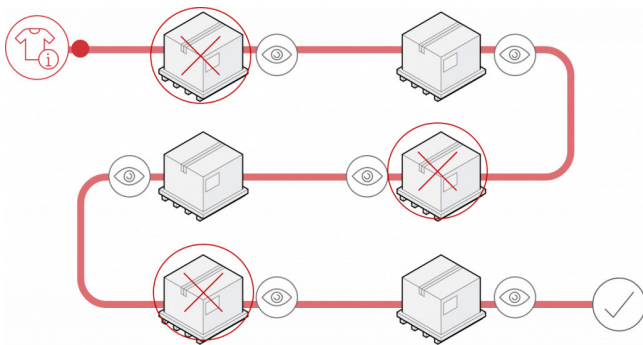
- Improves product quality by removing subjectivity from the color measurement process
- Ensures uniform assessment throughout the production process with high inter instrument agreement
- Allows the use of existing measurement data with backward compatibility to Datacolor benchtop instruments

## Increase efficiency by reducing the steps to match and approve color

- Decreases color approval steps and the number of physical samples required
- Lowers the cost associated with shipment of physical samples and maintenance of color standards with digital data
- Reduces cost and waste with fewer test trials
- Fast and accurate color formulation based on digitally measured data



Onscreen\* color evaluation and communication of colorimetric data and high-resolution sample image improves efficiency and reduces the need to ship physical samples. \*we recommend using a calibrated monitor for onscreen evaluation.



## Eliminates weeks in the development and production processes enabling an agile response to trends and customer needs

- Efficient color management of components in a garment or in coordinating sets
- Expedites decision making with digital communication of colorimetric and image data
- Shortens approval cycle by enabling color evaluation at the point of production

## Technical Specifications

	SpectraVision Horizontal	SpectraVision Vertical
<b>Spectral Analyzer</b>	Hyperspectral imaging assembly with 31 narrow bands covering 400 to 700 nm. The imaging is with a scientific 90 db camera with a sCMOS sensor.	
<b>Measuring Geometry</b>	Diffuse illumination, 8° viewing in conformance with CIE publication No. 15.2 Colorimetry.	
<b>Illumination Source</b>	Pulsed xenon, filtered to provide D65 illumination including UV component.	
<b>Sphere</b>	Diameter 152 mm / 6.0 inches, Barium coated	
<b>Specular Port</b>	Automated specular included or specular excluded	
<b>Wavelength Range</b>	400 – 700 nm	
<b>Photometric Range</b>	0 to 200%	
<b>Reporting Interval</b>	10 nm	
<b>20 Read Repeatability on White Tile Using Two Flashes (CIELAB)</b>	0.03 dE (max)	
<b>Inter-instrument Agreement—Reflectance Measurements* (CIE L*a*b*)</b>	0.25 (max)* 0.15 (avg)*	
<b>Automated, adjustable UV Calibration</b>	Yes	
<b>UV Cutoff Filters</b>	400 nm; 420 nm; 460 nm	
<b>Aperture Configuration</b>	Square. 25 mm illuminated/ 22.7 mm viewed	
<b>Image resolution</b>	821 x 821	
<b>Effective pixel size</b>	27.6 micrometers	
<b>Sample Viewing Camera</b>	Yes	
<b>Vertical Mount</b>	No	Yes
<b>Transmittance</b>	No	
<b>Output</b>	QTX2, Reflectance Hypercube, QTX	
<b>Operating Software</b>	Tools SV	

	SpectraVision Horizontal	SpectraVision Vertical
<b>Operating Environment</b>	<b>Temperature:</b> 10°C to 35°C	
	<p><b>(1) Environmental Conditions:</b>            Temperature 23°C +/- 1°C            RH 50% +/- 1%</p> <p><b>(2) For reliable color measurements, conditions must be within recommended operating conditions</b></p>	
	Indoor Use	
	Do not crush, short circuit, mutilate, reverse polarity, disassemble, or dispose. In fire, might cause burns or release toxic materials.	
<b>Input Power Requirements</b>	Input Voltage: 100-240VAC	
	Frequency: 50/60 Hz	
	150 VA Peak	
<b>Instrument Dimensions</b>	L 19.9" (50.6 cm) front to back L 21.71" (55.14 cm) sample arm to back H 15.17" x W 12.3" (38.54 cm x 31.3 cm)	Instrument body (top section): Depth (front to back) 13.5" (34.29 cm) Width 15" (38.1 cm) Instrument base (stand): Depth (front to back) 19" (48.26 cm) Width 19.5" (49.53 cm) Instrument standing height: Base feet to top of instrument 31.75" (80.64 cm)
<b>Weight</b>	70 lbs (31.75kg)	146 lbs. (66.22 kgs)
Unique design allowing imaging both the reference and sample channels at the same time.		
<b>Instrument Type</b>	Barium coated sphere with xenon flash lamp	
<b>Lens</b>	50 mm, fixed focus	

## System requirements

Component	Recommended
Operating System	Windows 10 and 11 (Pro or Enterprise Only)
Required Framework	Microsoft .NET Framework 4.7.2 or higher
Processor	Dual Core or higher (See Windows Operating System Requirements)
Memory	8 GB or more
Hard drive	500 GB
Display	1920x1080 - size of text only 100% supported
Graphic card	Graphic card supporting OpenGL 2.1
Connections	Serial, USB, Bluetooth or Ethernet (Depending on spectrophotometer model)
Server OS	Windows Server 2016, 2019, 2022
Additional Requirements	SQL Server 2012 to 2019
Internet Connection	Internet access recommended for software updates and license activation

Note: Lower system configurations may limit performance, data capacity and operation of some features. Faster processor, more memory and faster hard drives will significantly enhance performance.

For more information, please visit [www.datacolor.com/spectravision](http://www.datacolor.com/spectravision)