Datacolor® Spectro 1000 Family

Reference-Grade, Precise Color Measurement

Datacolor Spectro 1000 series is a family of close-tolerance benchtop spectrophotometers designed for high efficiency and confidence in color formulation and quality control.

Datacolor Spectro 1000
Standard true close-tolerance color measurement instrument

Datacolor Spectro 1000V
Ideal for measuring unusual sample size or type, as well as operations requiring high throughput

Datacolor Spectro 1050
Flexible measurement in either reflectance or transmittance mode

Ideal for industries that require a spectrophotometer for the highest level of consistency across the supply chain including: retail brands, textile mills, and manufacturers of plastics, paint and coatings, flooring, furniture, cosmetics and more.

Be confident in your measurement performance

- Ensure uniform assessment across different locations and throughout the supply chain with high inter-instrument agreement
- Increase operational confidence with sample temperature measurements
- Positioning Camera and LCD ensure proper sample placement every time

Get more done with high efficiency and reliability

- Increase productivity with fast measurement speed and response times
- Improve efficiency with seamless backward compatibility to Datacolor benchtop instruments
- Boost operational confidence with the included 5-year warranty*

Be prepared for the future

- Internet-connected capabilities will enable remote services and access to data analytics

"The DC1000 is a game changer; no more guessing if a user measured a specimen that had properly cooled to ambient temperature."

Dave Ertle | Advanced R&D Engineer/Solution Center Manager-Black Belt at GEON® Performance Solutions, a global leader in the formulation, development and manufacture of performance polymer solutions.

*Mandatory annual calibration required, and other conditions apply, please contact your sales representative for details.

Feature overview for DC Spectro 1000 / 1000V / 1050 :

	 **Datacolor Spectro 1000**	 **Datacolor Spectro 1000V**	 **Datacolor Spectro 1050**
Part Number	1030-1641	1030-1642	1030-1644
Instrument Type	Dual beam d/8° spectrophotometer		
Illumination Source	Pulsed xenon filtered to approximate D65		
Sphere Diameter	152mm/6in		
Wavelength Range	360 nm -700 nm		
Reporting interval	10 nm		
Photometric range	0-200%		
Spectral Analyzer	SPX Analyzer		
20 read repeatability on white tile using double flash (CIELAB) *	0.01 (max)		
Inter-instrument agreement: reflectance measurements (CIELAB)*	0.08 (avg) 0.15 (max)		
Sample Temperature	LAV aperture		
IR Sensor Accuracy	±0.9°F/ ±0.5°C		
Lens	4 position auto-zoom		
Aperture Plates	3 standard: LAV (30mm illuminated, 26mm measured) SAV (9mm illuminated, 5 mm measured) USAV (6.6 mm illuminated, 2.5 mm measured) 2 optional: MAV (20 mm Illuminated, 16 mm measured) XUSAV (3.0 mm illuminated, 2.5 mm measured)		
Aperture detection	Yes		
Automated, adjustable UV calibration	Yes		
UV cutoff filters	400 nm 420 nm 460 nm		
Remote Measurement Button	Yes		
Sample Positioning Camera	Yes		

Transmittance	No	No	Yes
Inter-instrument agreement – regular transmittance at 550 nm	No	No	±0.20% at 85% T ±0.10% at 32% T
Inter-Instrument agreement -transmission haze measurements	No	No	±0.15% at 10% TH
Transmission sampling aperture size	No	No	22 mm
Operating Environment	Temperature: 5°C to 40°C, Max Relative Humidity 20%-85% non-condensing. Recommended Relative Humidity 50% +/- 15% non-condensing		
Vertical Mount	No	Yes	No
*Environmental Conditions: Temperature 23°C +/- 1°C RH 44% +/- 1%			

Physical Specifications	Description
Color Display	3.5 inch RGB LCD
Display Resolution	320x240 pixel resolution
Weight	44lbs (20.0 kg)
Dimensions	Size: L 16.4” (41.66 cm) front to back, L 18.3” (46.48 cm) sample arm to back, H 15.3” x W 12.3” (38.86 cm x 31.24 cm)

For more information on the Datacolor Spectro 1000 family,
please visit www.datacolor.com/Spectro-1000