

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 1000X

Aperture upward facing instrument, ideal for liquid, paste, powder and granular samples

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
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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
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"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.

Feature overview for Datacolor Spectro 1000 / 1000V / 1000X / 1050 :

	 Datacolor Spectro 1000	 Datacolor Spectro 1000V	 Datacolor Spectro 1000X	 Datacolor Spectro 1050
Part Number	1030-1641	1030-1642	1030-1653	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			

				
	Datacolor Spectro 1000	Datacolor Spectro 1000V	Datacolor Spectro 1000X	Datacolor Spectro 1050
Transmittance	No	No	No	Yes
Inter-instrument agreement – regular transmittance at 550 nm	No	No	No	±0.20% at 85% T ±0.10% at 32% T
Inter-Instrument agreement -transmission haze measurements	No	No	No	±0.15% at 10% TH
Transmission sampling aperture size	No	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	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	44.0 lbs (20 kg)	54.5 lbs (24.7 kg)	50-52 lbs (23 kg)	44.0 lbs (20 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)	Height: 25.0" (63.5 cm) Width: 12.2" (39.9 cm) Depth : 16.3 (41.4 cm)	Height: 18.7" (47.6 cm) Width: 12.2" (39.9 cm) Depth: 16.3" (41.1 cm)	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