

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

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.



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 agree- ment: reflectance mea- surements (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	Datacolor Spectro 1000V	Datacolor Spectro 1000X	Datacolor Spectro 1050	
Transmittance	No	No	No	Yes	
Inter-instrument agree- ment – regular trans- mittance at 550 nm	No	No	No	±0.20% at 85% T ±0.10% at 32% T	
Inter-Instrument agree- ment -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

