Datacolor® 700 Family
Cost-Effective, High-Confidence Color Measurement

Datacolor Spectro 700 series is a family of close-tolerance benchtop spectrophotometers designed for high efficiency and confidence in color formulation and quality control.

Datacolor Spectro 700
Affordable, precision color measurement instrument

Datacolor Spectro 700 UV
Economical, accurate instrument with UV filtering for special applications

Datacolor Spectro 700 V (no) UV
Economic vertical configuration instrument ideal for a variety of samples, available with a UV filtering version

Datacolor Spectro 750
Cost-effective, versatile instrument that can measure in either transmission or reflectance mode

Ideal for meeting the formulation and quality control needs of color professionals in textile, paint & coatings, plastics, and other industries.

Be confident in your measurement performance

- Ensure uniform assessment across different locations and throughout the supply chain with high inter-instrument agreement

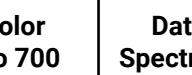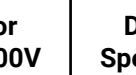- Increase operational confidence with sample temperature measurements

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

- Gain operating confidence with the included 5-year warranty*

Be prepared for the future

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

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

Feature overview for Datacolor Spectro 700 UV / 700 no UV / 750 :

	Datacolor Spectro 700	Datacolor Spectro 700UV	Datacolor Spectro 700V	Datacolor Spectro 700V UV	Datacolor Spectro 750
Part Number	1030-1638	1030-1639	1030-1652	1030-1651	1030-1640
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) *	0.03 (max)				
Inter-instrument agreement: reflectance measurements (CIELAB)*	0.15 (avg) 0.30 (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	No	Yes	No	Yes	Yes
UV cutoff filters	No	400 nm 420 nm 460 nm	No	400 nm 420 nm 460 nm	400 nm 420 nm 460 nm
Remote Measurement Button	Yes				
Sample Positioning Camera	No				

	Datacolor Spectro 700	Datacolor Spectro 700UV	Datacolor Spectro 700V	Datacolor Spectro 700V UV	Datacolor Spectro 750
Transmittance	No	No	No	No	Yes
Inter-instrument agreement – regular transmittance at 550 nm	No	No	No	No	±0.40% at 85% T ±0.20% at 32% T
Inter-Instrument agreement -transmission haze measurements	No	No	No	No	±0.30% at 10% TH
Transmission sampling aperture size	No	No	No	No	22 mm
Operating Environment	Temperature: 5°C to 40°C, *Recommended Temperature: 23°C +/- 1°C, Max Relative Humidity 20%-85% non-condensing. Recommended Relative Humidity 50% +/- 15% non-condensing				
Vertical Mount	No	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 lbs (20.0 kg)	54.5 lbs (24.7 kg)	44 lbs (20.0 kg)
Dimensions	L 16.4" (41.66 cm) front to back L18.3" (46.48 cm) sample arm to back H 15.3" x W 12.3" (38.86 cm x 31.24cm)	Height 25.0" (63.5 cm) Width 12.2" (39.9 cm) Depth 16.3" (41.4 cm)	Depth: 16.4" / 18.3" (41.66 / 46.48 cm) Height: 15.3" (38.86 cm) Width: 12.3" (31.24 cm)

For more information on the Datacolor Spectro 700 family,
please visit www.datacolor.com/spectro-700

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