

# 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
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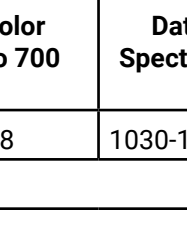

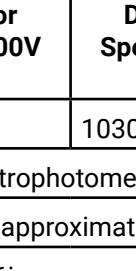

## Get more done with high efficiency and reliability






- Increase productivity with fast measurement speed and response times
  - Improve efficiency with seamless backward compatibility to Datacolor benchtop instruments
  - Gain operating confidence with the included 5-year warranty\*
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## Be prepared for the future

- Internet-connected capabilities will enable remote services and access to data analytics
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Feature overview for Datacolor Spectro 700 UV / 700 no UV / 750 :

	 <b>Datacolor Spectro 700</b>		 <b>Datacolor Spectro 700UV</b>		 <b>Datacolor Spectro 700V</b>		 <b>Datacolor Spectro 700V UV</b>		 <b>Datacolor Spectro 750</b>	
<b>Part Number</b>	1030-1638	1030-1639	1030-1652	1030-1651	1030-1640					
<b>Instrument Type</b>	Dual beam d/8° spectrophotometer									
<b>Illumination Source</b>	Pulsed xenon filtered to approximate D65									
<b>Sphere Diameter</b>	152mm/6in									
<b>Wavelength Range</b>	360 nm -700 nm									
<b>Reporting interval</b>	10 nm									
<b>Photometric range</b>	0-200%									
<b>Spectral Analyzer</b>	SPX Analyzer									
<b>20 read repeatability on white tile using double flash (CIELAB) *</b>	0.03 (max)									
<b>Inter-instrument agreement: reflectance measurements (CIELAB)*</b>	0.15 (avg) 0.30 (max)									
<b>Sample Temperature</b>	LAV aperture									
<b>IR Sensor Accuracy</b>	±0.9°F/ ±0.5°C									
<b>Lens</b>	4 position auto-zoom									
<b>Aperture Plates</b>	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)									
<b>Aperture detection</b>	Yes									
<b>Automated, adjustable UV calibration</b>	No	Yes	No	Yes	Yes					
<b>UV cutoff filters</b>	No	400 nm 420 nm 460 nm	No	400 nm 420 nm 460 nm	400 nm 420 nm 460 nm		400 nm 420 nm 460 nm		400 nm 420 nm 460 nm	
<b>Remote Measurement Button</b>	Yes									
<b>Sample Positioning Camera</b>	No									

					
	<b>Datacolor Spectro 700</b>	<b>Datacolor Spectro 700UV</b>	<b>Datacolor Spectro 700V</b>	<b>Datacolor Spectro 700V UV</b>	<b>Datacolor Spectro 750</b>
<b>Transmittance</b>	No	No	No	No	Yes
<b>Inter-instrument agreement – regular transmittance at 550 nm</b>	No	No	No	No	±0.40% at 85% T ±0.20% at 32% T
<b>Inter-Instrument agreement -transmission haze measurements</b>	No	No	No	No	±0.30% at 10% TH
<b>Transmission sampling aperture size</b>	No	No	No	No	22 mm
<b>Operating Environment</b>	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				
<b>Vertical Mount</b>	No	No	Yes	Yes	No
*Environmental Conditions: Temperature 23°C +/- 1°C RH 44% +/- 1%					

Physical Specifications	Description		
<b>Color Display</b>	3.5 inch RGB LCD		
<b>Display Resolution</b>	320x240 pixel resolution		
<b>Weight</b>	44 lbs (20.0 kg)	54.5 lbs (24.7 kg)	44 lbs (20.0 kg)
<b>Dimensions</b>	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](http://www.datacolor.com/spectro-700)