Cost Effective, Accurate Color Measurement

Datacolor® 500 Family

The Datacolor® 500 Family of Benchtop Spectrophotometers, with its new embedded processor and data storage, provides a platform for increased efficiency and color measurement confidence, while delivering Datacolor's economical, superior performance and fleet compatibility. For decades, Datacolor's instruments have been selected by the world's leading manufacturers and brands to specify, formulate and control critical color for reflectance (DC500/500UV) and transmission (DC550).

Industry proven Measurement Performance

- No profiling required. Superior design enables very close inter-instrument agreement right out-of-the-box.
- Utilizes Datacolor's proprietary SP2000 which captures the true spectral fingerprint of any color. As a result, you can achieve very close agreement among all instruments in your fleet.

Fleet Compatibility

The Datacolor 500 family is a seamless addition or replacement in your current fleet with no need to re-measure standards:

- Fully backward compatible with the existing fleet of Datacolor 400 instruments.

INSTRUMENT SETTINGS

Quantifiable Improvement in Throughput

Significant productivity improvements enable users to measure more samples per day with both standalone and global installations:

- 25% reduction in measurement time.
- Improved response times in Citrix and Terminal Server environments.

Complete Confidence in Measurements

With the new features of the Datacolor 500 family of spectrophotometers you have complete confidence in every measurement.

- The LCD screen prominently displays the calibration status and instrument settings to validate proper set-up.
- The LCD also displays a color coded instrument status bar to highlight potential need for maintenance.
- Diagnostic data is now stored on the instrument and can be extracted and shared with Datacolor Service to enable remote diagnostics and minimize delays in issue resolution.

Datacolor 500 COST EFFECTIVE, ACCURATE COLOR MEASUREMENT

Ultimate Flexibility in Fleet Connectivity

- Instrument fleets can now be configured with serial, USB or Ethernet connectivity.
- One instrument can be easily accessed by multiple users.
- Data can be measured and automatically shared in real-time within a global Citrix or Terminal Server environment.

Service and Support

- Designed for on-site service and repair. All instruments can be serviced in the field by qualified Datacolor technicians or at one of our many service center locations worldwide.

FEATURE	DATACOLOR 500	DATACOLOR 500UV	DATACOLOR 550
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*		
Wavelength resolution	*2 nm*		
Reporting interval	*10 nm*		
Photometric range	*0-200%*		
Spectral Analyzer	*SP2000 analyzer with dual 256 element diode array*		
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)*		
Lens	*4 position auto-zoom*		
Aperture plates	***3 standard:*** *LAV (30mm illuminated, 26mm measured)* *SAV (9mm illuminated, 5 mm measured)* *USAV (6.5 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	✔	✔	✔
Automated, adjustable UV calibration	—	✔	✔
UV cutoff filters	—	*400 nm* *420 nm* *460 nm*	*400 nm* *420 nm* *460 nm*
Remote measurement button	✔	✔	✔
Sample positioning camera	—	—	—
Transmittance	—	—	✔
Inter-instrument agreement – regular transmittance at 550 nm	—	—	±0.40% at 85% T ±0.20% at 32% T
Inter-instrument agreement – transmission haze measurements	—	—	±0.30% at 10% TH
Transmission sampling aperture size	—	—	22 mm
Operating environment	*5° to 40°C up to 85% RH, non-condensing*		

*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	37.5 lbs (16.6 kg)
Dimensions	*12.3" Wide X 13.2" Tall X 16.4" Deep* *(31.24 cm x 33.53 cm x 41.66 cm)*

PART NUMBER	PRODUCT VERSION
1030-1615	*Datacolor 500*
1030-1616	*Datacolor 500UV*
1030-1621	*Datacolor 550*

For more information on the Datacolor 500, Datacolor 500UV and the Datacolor 550 please visit **www.datacolor.com/500-family**

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