

# SPECIFICATIONS

## Vista®

### Measurement

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Measurement Principle:	Dual-beam spectrophotometer
Geometry:	Ti/0° or Td/0° per ASTM
Spectrophotometer:	256 element diode array and high resolution, concave holographic grating
Sphere Diameter:	76 mm (3 in)
Sphere Coating:	Spectralon™
Port Size/Measured Area:	18.5 mm (0.73 in) illuminated/9.8 mm (0.39 in) measured
Spectral Range:	400 nm - 700 nm
Wavelength Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 to 150 %
Photometric Resolution:	0.003 % (0.01 % reported)
Light Source:	Full spectrum LED array
Flashes per Measurement:	4 flashes
Lamp Life:	5 years unlimited use
Measurement Time:	< 2.5 seconds
Measurement Time with Haze:	< 5 seconds
Measurement Interval:	< 3 seconds
Measurement Pathlength:	Up to 100 mm
Transmission Modes:	Total (TTRAN) and Regular (RTRAN) and HAZE
Standards Conformance	
Colorimetric:	CIE 15:2004, ASTM E1164, DIN 5033 Teil 7 and JIS Z 8722 Condition E, G
Haze:	ASTM D1003

### Performance

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Colorimetric Repeatability: (30 readings max)	< 0.02 $\Delta E^*$ on air
Spectral Repeatability:	Standard deviation within 0.1 %
Inter-instrument Agreement:	$\Delta E^*$ (D65/10) < 0.15 (Avg) (Transmission Filter Set) $\Delta E^*$ (D65/10) < 0.25 (Max) (Transmission Filter Set) $\pm 0.30\%$ at 10% TH (HAZE)

## Firmware

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Illuminant:	D65, C, A, D50, D55, D75, F02, F07, F11, TL84, ULT30, ULT35
Observer:	2° and 10°
Color Scales:	CIE L*a*b*, Hunter Lab, CIE LCh, CIE Yxy, CIE XYZ
Color Difference Scales:	$\Delta L^*a^*b^*$ , $\Delta Lab$ , $\Delta L^*C^*h^*$ , $\Delta Yxy$ , $\Delta XYZ$
Color Difference Indices:	$\Delta E^*$ , $\Delta E$ , $\Delta E_{CMC}(l:c)$ , CIE $\Delta E_{2000}$
Indices and Metrics:	APHA/PtCo/Hazen, Saybolt, Gardner, YI E313 Yellowness, YI D1925, ADMI, EBC, CIE Y Transmission, US Pharmacopeia, EU Pharmacopeia, Japanese Pharmacopeia, Chinese Pharmacopeia Haze %, ASBC Turbidity, ASTM D1500, NTU, LOVIBOND® RY, AOCs RY, Iodine, WI E313, Chinese acid wash, ICUMSA
Other:	Spectral Data (%T and Absorbance), Spectral Plot (%T and Absorbance), Trend Plot, EZ View, Color Plot

## Display

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Touch screen, high resolution 1280x800

## Communications I/O

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USB Micro OTG:	Connectivity to printer, keyboard / mouse
Front panel USB:	Connectivity to USB thumb drive for saving and backing up data
Ethernet RJ45:	Save, print and email capability directly from Vista instrument
Wi-Fi:	Wireless

## Physical / Electrical

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Dimensions:	Height: 177.8 mm (7.0 in.) Width: 485.8 mm (19.125 in.) Depth: 228.6 mm (9.0 in.) Weight: 6.35 kg (14.0 lbs)
Transmission Compartment:	Height: 108.0 mm (4.25 in.)* Width: 101.6 mm (4.0 in.) Depth: 187.3 mm (7.375 in.) with cover on* *Removable cover opens compartment on three sides (top, front, back) to accommodate large samples
Base to Measurement Port Distance:	63.5 mm (2.5 in.)
Power Requirements:	100 to 240 VAC, 47 to 63 Hz, 60 W
Operating Environment:	10 to 40° C (50 to 104° F), 10 % to 90 % RH, noncondensing
Storage Environment:	-21 to 66° C (-5 to 150° F), 10 % to 90 % RH, noncondensing
Standard Accessories:	• Didymium diagnostic filter • Certificate of compliance • Power supply • VISTA Quick Start Guide • Stylus • USB Flash Drive • Cleaning Cloth

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For more information, please contact HunterLab at 703-471-6870, [sales@hunterlab.com](mailto:sales@hunterlab.com) or visit [www.hunterlab.com](http://www.hunterlab.com)