

SPECIFICATIONS

D25[®] NC

Measurement

Measurement Principle:	Dual-beam spectrophotometer
Geometry:	0°/ 30° typical
Spectrophotometer:	Sealed optics; 256-element diode array; high resolution concave holographic grating
View Diameter:	25.4 mm (1 in) (at 3.5-inch from sensor window)
Area View:	129 cm ² (20 in ²) per cycle
Specular Component:	Excluded
Spectral Range:	400 nm - 700 nm
Spectral Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 to 150 %
Light Source:	Full spectrum, balanced solid state LED system
Lamp Life:	5 years typical
Minimum Interval between Measurement Cycles:	5 seconds (1 cycle)
Number of Flashes Averaged per Measurement Cycle:	25 flashes (1 cycle)
Displayed Height Resolution:	1 mm or 0.1 in
Working Range:	65 mm - 140 mm (2.5 in. - 5.5 in.) Maximum 75 mm - 100 mm (3 in - 4 in) Optimum

Performance

Inter-Instrument Agreement:	$\Delta E^* < 0.30$ CIE L*a*b* (Avg) on BCRA II Tile Set $\Delta E^* < 0.50$ CIE L*a*b* (Max) on BCRA II Tile Set
Colorimetric Repeatability: (20 Readings)	$\Delta E^* < 0.05$ (Max)/0.03 (Avg) CIE L*a*b* on white tile

Firmware

Data Views:	Color Data, Color Difference Data, Tristimulus Color Plot, Spectral Data, Spectral Difference Data, Spectral Plot, Spectral Difference Plot
Other Features:	Warn/Pass/Fail color indication
Illuminants:	A, C, D50, D55, D65, D75, F2, F7, F11
Observers:	2° and 10°
Color Scales:	CIE L*a*b*, Hunter Lab, CIE L*C*h, CIE Yxy, CIE XYZ
Color Difference Scales:	$\Delta L^*a^*b^*$, ΔLab , ΔL^*C^*H , ΔL^*C^*h , ΔYxy , ΔXYZ
Color Difference Indices:	ΔE^* , ΔE , ΔC^* , ΔC and ΔE CMC
Indices and Metrics:	E313 Whiteness Index, Tint, E313 Yellowness Index, D1925 Yellowness Index, Y Brightness, Z%, 457 nm Brightness, Baking Contrast Units, Colorant Strength (Average and Single Wavelength), Gray Change, Gray Stain, dc^* , dc , Metamerism Index, Shade Number
Data Storage:	As Standard - 250 spectral or tristimulus with Pass/Fail tolerances as Working, Physical, Numeric and Hitch As Sample - 2000 spectral
Languages:	Chinese, English, French, German, Italian, Japanese, Spanish

Physical / Electrical

Sensor Dimensions:	Height: 48 cm (19 in.) Width: 36 cm (14 in.) Depth: 48 cm (19 in.) Weight: 13.6 kg (30 lbs)
Display:	7.1 cm x 5.4 cm (2.8 in. x 2.1 in.) backlit color LCD
Interface:	USB (2.0/3.0)
Power:	100 to 240 VAC, 47 to 63 Hz
Operating Environment:	0° to 50°C (32° to 122° F), 10 % to 90 % RH, noncondensing
Storage Environment:	-20° to 65°C (-5° to 150° F), 10 % to 90 % RH, noncondensing
Standard Accessories:	<ul style="list-style-type: none">• Calibrated instrument white tile• Certificate of Traceability• Black glass• Green diagnostic tile• Calibration Box• 12 in and 6 in sample dishes• Power cord (110/220 V)• D25 NC User guide on CD

For more information, please contact HunterLab at 703-471-6870, sales@hunterlab.com or visit www.hunterlab.com
