SPECIFICATIONS

Aeros®
Patent Pending

MEASUREMENT

Measurement Principle:	Dual-beam Non-contact Reflectance Spectrophotometer
Measurement Method:	Rotating platter @ 12 RPM
Maximum Sample Height:	65 mm - 140 mm (2.5 in. - 5.5 in.)
Measurement Duration:	5 seconds (1 rotation)
Sampling Rate:	Continuous at 7 measurements per second
Measurements per Rotation:	35
Area Measured per Rotation:	177.25 cm^2 (27.5 in^2)

TECHNICAL

Spectral Range:	400 nm - 700 nm
Specular Component:	Excluded
Spectral Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 to 150 %
Light Source:	Full spectrum, balanced LED system array
LED Life:	5 years typical
Spectrophotometer:	Sealed optics; 256-element diode array; high resolution concave holographic grating
Displayed Height Resolution:	0.1 mm

PERFORMANCE

Inter-Instrument Agreement:	ΔE*< 0.30 CIE L*a*b* (Avg) on CCSII (BCRA) Tile Set
Colorimetric Repeatability:	ΔE*< 0.025 CIE L*a*b* (Max) on white tile

ON-BOARD COLOR QUALITY CONTROL SOFTWARE

Data Views:	EZ View, Color Data Table, Spectral Data Table, Spectral Plot, Trend Plot, Color Plot
Other Features:	Pass/Fail color indication
Indices and Metrics:	E313 Whiteness Index, Tint, E313 Yellowness Index, D1925 Yellowness Index, Y Brightness, Z%, 457 nm Brightness, Baking Contrast Units, HCCI, SCCA
Color Scales:	CIE L*a*b*, Hunter Lab, CIE L*C*h, CIE Yxy, CIE XYZ
Color Difference Scales:	ΔL*a*b*, ΔLab, ΔL*C*h, ΔYxy, ΔXYZ
Color Difference Indices:	ΔE*, ΔE, ΔE CMC, and ΔE 2000
Data Storage:	500,000 records max
Illuminants:	A, C, D50, D55, D65, D75, F02, F07, F11, TL84, ULT30, ULT35
Observers:	2° and 10°
Languages:	English

COMMUNICATIONS I/O

USB Front and Rear Panel:	Connectivity to printer, keyboard, mouse, barcode scanner and other peripherals
Ethernet RJ45:	Print directly to standalone or network printers Email directly from the instrument Stream data to LIMS and SPC systems
Remote Access Support:	Enabled

PHYSICAL / ELECTRICAL

Sensor Dimensions:	Height: 56 cm (22 in) Width: 38 cm (15 in) Depth: 51 cm (20 in) Weight: 23 kg (50 lbs)
Display:	Touch screen, high resolution color, 7 in, 1280 x 800
Power:	Input: 100 to 240 VAC, 47 to 63 Hz to universal power supply @ 24 VDC (3.75A 90W)
Operating Environment:	4° to 38°C (40° to 100° F), 10 % to 85 % RH, noncondensing
Storage Environment:	-20° to 65°C (-5° to 150° F), 10 % to 90 % RH, noncondensing
System Components:	• Calibrated white tile (NIST Certificate of Traceability) • Black glass standard • Green diagnostic tile • Standards Box • 15.2 cm (6 in) pan / 2.54 cm (1 in) Depth • 30.5 cm (12 in) pan / 2.54 cm (1 in) Depth • 100V - 240V universal power supply • Aeros Quick Start Guide • Aeros User's guide on CD

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