SPECIFICATIONS



MEASUREMENT

Measurement Principle: Dual-beam Non-contact Reflectance Spectrophotometer

Measurement Method: Port down Non-contact rotating platter

Maximum Sample Height: 140 mm (5.5 in.)

Measurement Duration: User selectable (5,10,15,30 sec)

Sampling Rate: Continuous at 7 measurements per second

Measurements per Rotation: 35

Area Measured per Rotation: 177.25 cm² (27.5 in²)

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 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: $\Delta E^* < 0.30$ (Avg) on CCSII (BCRA) Tile Set

Colorimetric Repeatability: $\Delta E^* < 0.025$ (Max) on white tile



ISO 9001 Certified; **(E**Certified

USER INTERFACE

Data Views: EZ View, Color Data Table, Color Plot, Spectral Data, Spectral Plot, Trend Plot

Other Features: Pass/Fail color indication, time and date stamp, auto-naming, auto-saving, data

backup and recovery

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: 8 GB (> 1 million data records)

Illuminants: A, C, D50, D55, D65, D75, F02, F07, F11, TL84, ULT30, ULT35

Observers: 2° and 10°

Languages: English, Japanese, and Simplified Chinese (German coming soon)

Display: Touch screen, high resolution 1280x800

External PC Software: Compatible with HunterLab EasyMatch QC and EasyMatch QC-Electronic Records

Quality Control Software

COMMUNICATIONS I/O

USB OTG: Connectivity to printer, keyboard, mouse

Front Panel USB: 2.0 bidirectional, data export/import via thumb drive

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 via internet-based support tool

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

 \bullet Green diagnostic tile $\:\bullet\:$ Standards Box $\:\bullet\:$ 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