

SPECIFICATIONS



MEASUREMENT

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| 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

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| 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

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| Inter-Instrument Agreement: | $\Delta E^* < 0.30$ CIE L*a*b* (Avg) on CCSII (BCRA) Tile Set |
| Colorimetric Repeatability: | $\Delta E^* < 0.025$ CIE L*a*b* (Max) on white tile |

ON-BOARD COLOR QUALITY CONTROL SOFTWARE

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| 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, SCAA |
| 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 , 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

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| 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

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| 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: | <ul style="list-style-type: none">• 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