SPECIFICATIONS

ColorFlex® EZ Citrus

Measurement Principle: Port up or Port forward dual-beam spectrophotometer
Geometry: Directional annular 45° illumination / 0° viewing
Spectrophotometer: Sealed optics; 256-element diode array and a high resolution concave holographic grating
Port Diameter/View Diameter: 31.8 mm (1.25 in) illuminated/ 25.4 mm (1 in) measured
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: Pulsed Xenon Lamp
Flashes per Measurement: 1 flash
Lamp Life: > 1 million flashes
Measurement Time: < 1 second from button push to measurement
                      2 seconds from button push to data display
Minimum Interval between Measurements: 3 seconds
Standards Conformance: CIE 15:2004, ISO 7724/1, ASTM E1164, DIN 5033, Teil 7 and JIS Z 8722 Condition C
Standards Traceability: Instrument standard assignment in accordance with National Institute of Standards and Technology (NIST) following practices described in CIE Publication 44 and ASTM E259

Performance

Inter-Instrument Agreement: 
\[ \Delta E^* \leq 0.15 \text{ CIE } L^*a^*b^* \text{ (Avg) on BCRA II Tile Set} \]
\[ \Delta E^* \leq 0.25 \text{ CIE } L^*a^*b^* \text{ (Max) on BCRA II Tile Set} \]

Colorimetric Repeatability: 
\[ \Delta E^* \leq 0.05 \text{ CIE } L^*a^*b^* \text{ on white tile} \] (20 Readings)
Firmware

Data Views: Color Data, Color Difference Data, Tristimulus Color Plot, Spectral Data, Spectral Difference Data, Spectral Plot, Spectral Difference Plot

USB Flash Drive Features: Backup of Setups and Data, Setup Transfer to Multiple Units, Data Export to Excel

Other Features: Pass/Fail, Average Multiple Readings, Search for Closest Standard

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: ΔL*a*b*, ΔLab, ΔL*C*H, ΔL*C*h, ΔYxy, ΔXYZ

Color Difference Indices: ΔE*, ΔE, ΔC*, ΔC and ΔECmc

Indices and Metrics: E313 Whiteness and Tint (C/2° or D65/10°), E313 Yellowness (C/2° or D65/10°), D1925 Yellowness (C/2°), Y Brightness, Z%, 457 nm Brightness, Opacity, Color Strength (Average and Single Wavelength), Gray Change, Gray Stain, Metamerism Index, Shade Number

Citrus Color Model Only: Citrus Number, Citrus Redness, Citrus Yellowness

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

Dimensions: Height: 16 cm (6.3 in.)
Width: 13 cm (5.1 in.)
Depth: 36 cm (14.2 in.)
Weight: 4.5 kg (9.9 lbs)

Display: 7.1 cm x 5.4 cm (2.8 in. x 2.1 in.) backlit color LCD

Interface: 3 USB 2.0 ports

Power: 100 to 240 VAC 47 to 63 Hz

Operating Environment: 10° to 40°C (50° to 104° F), 10 % to 90 % RH, noncondensing

Storage Environment: -20° to 65°C (-5° to 150° F), 10 % to 90 % RH, noncondensing

Standard Accessories: • Calibrated instrument white tile • Certificate of traceability • Black glass • Green diagnostic tile • OJ4 Citrus Standard • Universal AC adaptor • Computer interface cable • USB flash drive • ColorFlex EZ Citrus User guide

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

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Specifications subject to change without notice

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