SPECIFICATIONS

LabScan® XE

Measurement

Measurement Principle:	Dual-beam spectrophotometer
Geometry:	Directional 0° illumination / 45° circumferential viewing with 15-station fiber optic ring
Spectrophotometer:	256 element diode array and high resolution, concave holographic grating
Orientation:	Measurement port up or port forward; port down with optional stand
Viewing Apertures	
Large Area View Model:	44 mm (1.75 in.) illuminated; 50 mm (2 in.) measured
Variable Sample Illumination (VSI) Model:	44 mm (1.75 in.), 25 mm (1.00 in), 13 mm (0.50 in), 6 mm (0.25 in) and 3 mm (0.13 in) illuminated; 50 mm (2 in.), 30 mm (1.20 in), 17 mm (0.70 in), 10 mm (0.40 in), and 5 mm (0.20 in) measured
Lens Zoom for VSI Option:	Automatic
Port Sensing for VSI Option:	Automatic sensing of port plate size
Specular Component:	Excluded
Spectral Range:	400 nm - 700 nm
Wavelength Resolution:	< 3 nm
Effective Bandwidth:	10 nm equivalent triangular
Reporting Interval:	10 nm
Photometric Range:	0 % -150 %
Photometric Resolution:	0.003 % (0.01 % reported)
Light Source:	Pulsed Xenon lamp, filtered to approximate D65 daylight
Lamp Life:	1 billion flashes
Measurement Time:	< 3 seconds (except 3 mm area <10 seconds)
Minimum Interval between Measurements:	3 seconds

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Reference Standardization:	Automatic to internal reference standard
Automatic UV Control Option:	420 nm cutoff filter for UV control and UV exclusion
Standards Conformance:	CIE No.15:2004, ISO7724/1, ASTM E1164, DIN 5033 Teil 7 and JIS Z 8722 Condition C
Standards Traceability:	Instrument standard calibration traceable to the National Institute of Standards and Technology (NIST).

Performance

Colorimetric Repeatability: (20 readings, Max)	For white tile: ΔE*< 0.09 for 44 mm (1.75 in.) For blue denim tile: ΔE*< 0.07 for 44 mm (1.75 in.)
Inter-Instrument Agreement:	ΔE*< 0.15 (Avg) for 44 mm (1.75 in.) ΔE*< 0.36 (Max) for 44 mm (1.75 in.)

Physical / Electrical

Dimensions:	Height: 30.5 cm (12 in.) Width: 19.1 cm (7.5 in.) Depth: 36.9 cm (14.5 in.) Weight: 10.4 kg (23 lbs)
Power:	100 to 240 VAC, 47 to 63 Hz 90 watts passive, 180 watts continuous use
Interface:	RS-232C, 9,600 baud, D9 (female) terminal
Operating Environment:	10° - 40° C (50° - 104° F), 10 % - 90 % RH, noncondensing
Storage Environment:	-21° - 66° C (-5° - 150° F), 10 % - 90 % RH, noncondensing
Standard Accessories:	• Calibrated instrument white tile • Certificate of traceability • Black glass • Green diagnostic tile • White backing tile • LAV port plate • RS-232C cable • USB-to-Serial adapter • Power cord • EasyMatch QC software • EasyMatch QC Basic manual

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