962/964

SPECTROPHOTOMETER

Operator's Manual

x-rite

Appendices

Instrument Specifications

Measurement Geometrics	0/45°, DRS spectral engine, choice of optical aperture: 4mm, 8mm, and 16mm
Light Source	Gas-filled tungsten lamp
Illuminant Types	A, C, D50, D65, D75, F2, F7, F11, & F12
Standard Observers	2° & 10°
Receiver	Blue-enhanced silicon photodiodes
Spectral Range	400 nm – 700 nm
Spectral Interval	10 nm – measured, 10 nm – output
Storage	1,024 standards with tolerances, 2,000 samples
Measurement Range	0 to 200% reflectance
Measuring Time	Approx. 2 seconds
Inter-Instrument Agreement (962)	0.20 ΔE^*_{ab}, based on avg. of 12 BCRA series II tiles 0.40 ΔE^*_{ab} max. on any tile
Short-Term Repeatability (962)	0.1 ΔE^*_{ab} max. on white ceramic, standard deviation
Inter-Instrument Agreement (964)	0.15 ΔE^*_{ab}, based on avg. of 12 BCRA series II tiles 0.30 ΔE^*_{ab} max. on any tile
Short-Term Repeatability (964)	0.05 ΔE^*_{ab} max. on white ceramic, standard deviation
Lamp Life	Approx. 500,000 measurements
Power Supply	Removable (Ni-metal hydride) battery pack; 7.2 VDC rated @ 1450 mAh.
AC Adapter Requirements	90-130 VAC, 50-60 Hz, 15 W max
Charge Time	Approx. 4 hours – 100% capacity
Measurements Per Charge	1,000 measurements typical
Data Interface	Patented bi-directional RS-232, 300-57,600 baud
Display	128 x 256 pixel graphical LCD
Operating Temperature Range	50° to 104°F (10° to 40°C) 85% relative humidity maximum (non-condensing)
Storage Temperature Range	-4° to 122°F (-20° to 50°C)
Dimensions	4.3"H (10.9 cm) 3.3"W (8.4 cm) 7.7"L (19.6 cm)
Weight	2.4 lbs. (1.1 kg)
Accessories Provided	Calibration Standard, Manual, AC Adapter, Carrying Case
Usage	Indoor only
Altitude	2000 m
Pollution Degree	2
Overvoltage	Category II

X-Rite reference standards are traceable to the National Institute of Standards and Technology through Munsell Color Science Laboratory RIT.
Specifications and design subject to change without notice.