CM-2500c

PRODUCT SPECS:

What are the specs for the product?

Model	Spectrophotometer CM-2500c
Illumination/observation system	45/0 method (45° ring-shaped illumination, vertical viewing)
Light-receiving element	Silicon photodiodearray (dual 40 elements)
Spectral separation device	Diffraction grating
Wavelength range	360 nm to 740 nm
Wavelength pitch	10 nm
Half bandwidth	Approx. 10 nm
Reflectance range	0 to 175%, resolution: 0.01%
Light source	2 pulsed xenon lamps
Measurement time	Approx. 1.5 seconds
Minimum interval between measurements	4 seconds
Battery performance	Alkaline manganese: Approx. 1000 measurements, (at 23°C)
Measurement/illumination area	Φ7 mm/Φ11 mm
Repeatability	Colorimetric Value: Standard deviation within ΔE*ab 0.05 (Measurement conditions: White calibration plate measured 30 times at 10-second intervals after white calibration was performed)

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Inter instrument agreement	Within ΔE*ab 0.25 (Average for 12 BCRA Series II color tiles compared to values measured with master body; at 23°C)
Measurement mode	Single measurement/automatic averaging of multiple measurements (auto mode: 3, 5, 8 times/manual mode)
Interface	RS-232C standard
Observer	2/10 degrees (CIE 1931/2°, CIE 1964/10°)
Illuminant	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12 (simultaneous evaluation is possible using two light sources)
Display data	Spectral value/graph, colorimetric value, color difference value/graph, PASS/FAIL result, ASSESSMENTS (Except for Japanese mode)
Color space/colorimetric data	L*a*b*, L*C*h, CMC(1:1), CMC(2:1), CIE94, Hunter Lab, Yxy, Munsell, XYZ, MI, WI (ASTM E313), WI (CIE), YI (ASTM E313/ASTM D1925), ISO Brightness (ISO 2470), Density status A/T, WI/Tint (CIE), CIE 00
Data memory	700
Pass/Fail judgment	Tolerance for color difference (Both box and elliptical tolerances can be set)
Power source	4 AA-size batteries or AC adapter
Size	(W × H × D) 69 × 96 × 193 mm
Weight	Approx. 670 g (without batteries)
Operating temperature/humidity range	5°C to 40°C, relative humidity 80% or less (at 35°C) with no condensation
Storage temperature/humidity range	0°C to 45°C, relative humidity 80% or less (at 35°C) with no condensation