

CM-2500d

PRODUCT SPECS:

What are the specs for the product?

Model	CM-2600d	CM-2500d
Illumination / observation system	d/8 (diffuse illumination, 8-degree viewing), equipped with simultaneous measurement of SCI (specular component included)/SCE (specular component excluded) Conforms to CIE No.15,ISO 7724/1,ASTM E1164,DIN 5033 Teil7 and JIS Z8722 Condition C standard.	
Sphere Size	Φ52mm	
Light-receiving element	Silicon photodiode array (dual 40 elements)	
Spectral separation device	Diffraction grating	
Wavelength range	360nm to 740nm	
Wavelength pitch	10nm	
Half bandwidth	Approx. 10nm	
Reflectance range	0 to 175%, resolution: 0.01%	
Light source	3 pulsed xenon lamps	2 pulsed xenon lamps
Measurement time	Approx. 1.5 seconds (approx. 2 seconds for fluorescent measurement)	Approx. 1.5 seconds
Minimum interval between measurements	3 seconds for SCI/SCE (4 seconds for fluorescent measurement)	3 seconds for SCI/SCE
Battery performance	Alkaline manganese:approx. 1000 measurements	
Measurement/illumination area	MAV : Φ8mm/Φ11mm SAV : Φ3mm/6mm (Selectable between MAV and SAV)	MAV : Φ8mm/Φ11mm

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	between MAV and SAV)	
Repeatability	Spectral Reflectance: Standard deviation within 0.1% (360 to 380nm within 0.2%) Colorimetric Value : Standard deviation within ΔE^*ab 0.04 (Measurement conditions: White calibration plate measured 30 times at 10-second intervals after white calibration was performed)	
Inter instrument agreement	within ΔE^*ab 0.2 (MAV/SCI) Average for 12BCRA Series II color tiles compared to values measured with master body.	
UV adjustment	Instantaneous numerical adjustment (no mechanical adjustment required) With UV400nm cut filter	No UV adjustment
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	
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), YI (ASTM E313/ASTM D1925), ISO Brightness (ISO 2470), Density status A / T, WI/Tint (CIE/Ganz), CIE00	
Data memory	1700 pieces of data (as SCI/SCE 1 data) * 700 pieces of data in the "defined in COND." mode. * Total of the sample data for the COND and TASK modes and color difference target data	
Tolerance judgment	Tolerance for color difference (both box and elliptical tolerances can be set)	
Power source	4 AA-size battery or AC adapter	
Size (W×H×D)	69 × 96 × 193mm	
Weight	Approx. 670g (without batteries)	
Operating temperature / humidity range (*1)	5 to 40°C, relative humidity 80% or less (at 35°C) with no condensation	

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Storage temperature/humidity range	0 to 45°C, relative humidity 80% or (at 35°C) with no condensation
Standard accessories	White calibration plate, Target mask Φ 8mm, Target mask Φ 3mm , RS-232C cable, AC adapter, AA-size battery (\times 4)
Optional Accessories	Hard case, Dust cover set, Dust cover, SpectraMagic™NX (software), Zero calibration box

***1** Operating temperature/humidity range of products for North America : 5 to 40°C, relative humidity 80% or less (at 31°C) with no condensation