

CM-3700d

PRODUCT SPECS:

What are the specs for the product?

Illuminating/viewing system	d/8 (diffused illumination; 8° viewing angle); SCI (specular component included)/SCE (specular component excluded) switchable; meets ISO and DIN standards for d/8 geometry; also meets CIE and ASTM standards for d/0 geometry. Transmittance: d/0 (diffuse illumination/0° viewing angle)
Detector	Silicon photodiode array with flat holographic grating
Wavelength range	360nm to 740nm
Wavelength pitch	10nm
Half bandwidth	Approximately 14nm average
Photometric range	0 to 200%; Resolution: 0.001%
Light source	Pulsed xenon arc lamp
Measurement time	0.6 to 0.8 sec. (to start of data output)
Illumination/measurement areas	Reflectance: Changeable between LAV, MAV, and SAV LAV: Φ 28mm illumination/ Φ 25.4mm measurement MAV: Φ 11mm illumination/ Φ 8mm measurement SAV: 5 × 7mm illumination/3 × 5mm measurement Transmittance: Approx. Φ 20mm
Repeatability	When white calibration plate is measured 30 times at 10-sec. intervals after white calibration has been performed: ; Spectral reflectance: Standard deviation within 0.05% Chromaticity: Standard deviation within ΔE^*_{ab} 0.005 When black tile (BCRA Series II; reflectance: 1%) is measured 30 times at 10-sec. intervals after white calibration has been performed: Spectral reflectance: 380 to 740nm: Standard deviation within 0.02% 360 and 370nm: Standard deviation within 0.04% Chromaticity: Standard deviation within ΔE^*_{ab} 0.05
Inter-instrument agreement (LAV)	Mean ΔE^*_{ab} 0.08 (typical) Average for 12 BCRA Series II color tiles. Max ΔE^*_{ab} 0.3 (corresponds to ΔE_{cmc} 0.2) for any of 12 BCRA Series II color tiles compared to values measured with master body

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Temperature drift	Spectral reflectance: Within $\pm 0.10\%/^{\circ}\text{C}$ Color difference: Within ΔE^*_{ab} 0.05/ $^{\circ}\text{C}$
UV adjustment	Computer controlled; continuously variable
Specimen conditions for transmittance measurements	Sheet, plate, or liquid form up to a maximum thickness of approximately 50mm
Interface	RS-232C standard; baud rates: 12,00, 2400, 4800, or 9600
Power	AC 100V/120V/230V 50/60Hz (using included AC adapter)
Operating temperature/humidity range	13 to 33°C, relative humidity 80% or less with no condensation
Storage temperature/humidity range	0 to 40°C, relative humidity 80% or less with no condensation
Dimensions (W × H × D)	271 × 259 × 500mm (10-11/16 × 10-3/16 × 19-11/16 in.)
Weight	18kg (39.7 lb.)
Standard accessories	White Calibration Plate; Target Mask (3 × 5mm); Target Mask (Φ8mm); Target Mask (Φ25.4mm); Zero Calibration Box; AC Adapter; RS-232C Cable (2m/6.6 ft., 9-pin, for IBM PC); Accessory Case CM-66
Optional accessories	Color Data Software SpectraMagic NX; Transmittance Specimen Holder; Glass Cells (2mm, 10mm, 20mm); Plastic Cells (2mm, 10mm, 20mm); Transmittance Zero Calibration Plate; Color Tiles; RS-232C Cable (for IBM PC)
Specifications are subject to change without notice.	