

# CM-3610d

## PRODUCT SPECS:

### What are the specs for the product?

<b>Illuminating/viewing system</b>	Reflectance: d/8 (diffuse illumination/8° viewing angle), capable of simultaneous SCI (specular component included)/SCE (specular component excluded) measurement. Conforms to CIE No. 15, ISO 7724/1, ASTM E-1164, DIN 5033 Teil 7, and JIS Z8722 Condition C standards. Transmittance: d/0 (diffuse illumination/0° viewing angle). Conforms to CIE No. 15, ASTM E-1164, DIN 5033 Teil 7 standards
<b>Detector</b>	Dual 40-element silicon photodiode arrays
<b>Spectral separation device</b>	Diffraction grating
<b>Wavelength range</b>	360 to 740nm
<b>Wavelength pitch</b>	10nm
<b>Half bandwidth</b>	Approx. 10nm
<b>Photometric range</b>	0 to 200%; Display resolution: 0.01%
<b>Sphere size</b>	Φ152mm
<b>Light source</b>	Four pulsed xenon lamps
<b>Measurement time</b>	Approximately 1.5s (until data output)
<b>Minimum interval between measurements</b>	Approx. 4 seconds when SCI/SCE measured
<b>Measurement/illumination areas</b>	Reflectance: Changeable between LAV, MAV, and SAV LAV: Φ25.4mm/Φ30m MAV: Φ8mm/Φ11m SAV: Φ4mm/Φ7mm Transmittance: Approx. 17mm
<b>Repeatability</b>	Spectral reflectance: Standard deviation within 0.1% Colorimetric values: Standard deviation within ΔE*ab 0.02

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<b>Inter instrument agreement</b>	Mean $\Delta E^*ab$ 0.15 (LAV/SCI) Average for 12 BCRA Series II color tiles compared to values measured with master body
<b>Temperature dependence</b>	Spectral reflectance: Within $\pm 0.10\%/^{\circ}C$ Color difference: Within $\Delta E^*ab$ 0.05/ $^{\circ}C$
<b>UV adjustment</b>	Instantaneous numerical adjustment
<b>UV cut filters</b>	400nm cutoff and 420nm cutoff
<b>Transmittance chamber</b>	Width: 133mm, Depth: Approx. 50mm; Measurement diameter: Approx. 17mm Transmission sample holder (optional accessory): Sample holder; for both plate-shaped and liquid samples (removable)
<b>Interface</b>	RS-232C, D-sub 9-pin (female) terminal
<b>Power</b>	AC 120V/230V 50/60Hz (using included AC adapter)
<b>Operating temperature/humidity range</b>	13 to 33°C, relative humidity 80% or less (at 33°C) with no condensation
<b>Storage temperature/humidity range</b>	0 to 40°C, relative humidity 80% or less (at 33°C) with no condensation
<b>Dimensions (W × H × D)</b>	CM-3600d: 244 × 208 × 378mm CM-3610d: 300 × 597 × 315mm
<b>Weight</b>	CM-3600d: 12kg CM-3610d: 16.5kg
<b>Standard accessories</b>	White Calibration Plate, Target Mask (Φ4mm), Target Mask (Φ8mm), Target Mask (Φ25.4mm), Zero Calibration Box, AC Adapter, Dust Cover, Accessory Case, Unit Driver, RS-232C Cable (9-pin, 2m)
<b>Optional accessories</b>	Color Data Software SpectraMagic™ NX, Transmittance Specimen Holder, Cell (2mm)/(10mm)/(20mm), Transmittance Zero Calibration Plate, RS-232C Cable (IBM PC/AT; 5m)/(IBM PS/2; 2m)/(IBM PS/2; 5m)
Specifications are subject to change without notice.	