

# CM-3600A

## PRODUCT SPECS:

What are the specs for the product?

<b>Illumination/observation system</b>	Reflectance; di:8°, de:8° (diffused illumination, 8-degree viewing), equipped with simultaneous measurement of SCI (specular component included) / SCE (specular component excluded); Conforms to CIE No.15, ISO7724/1, ASTM E-1164, DIN 5033 Teil7 and JIS Z8722 condition C standard. Transmittance : di:0°, de:0° (diffused illumination, 0-degree viewing); Conforms to CIE No.15, ASTM E-1164 and DIN 5033 Teil7 standard.
<b>Light-receiving element</b>	Silicon photodiode array (dual 40 elements)
<b>Spectral separation device</b>	Diffraction grating
<b>Wavelength range</b>	360 to 740 nm
<b>Wavelength pitch</b>	10 nm
<b>Half bandwidth</b>	Approx. 10 nm
<b>Reflectance range</b>	0 to 200%; Resolution: 0.01%
<b>Sphere size</b>	Ø152 mm
<b>Light source</b>	Four pulsed xenon lamps
<b>Minimum interval between measurements</b>	Normal SCI/ SCE measurement: 4 sec. UV-cut / UV-adjusted measurement: 5 sec. Transmittance measurement: 3 sec.
<b>Measurement/illumination areas</b>	Reflectance: Changeable between LAV, MAV, and SAV LAV: Ø25.4 mm / Ø30 mm MAV: Ø8 mm / Ø11 mm SAV: Ø4 mm / Ø7 mm Transmittance: Approx. Ø17 mm
<b>Repeatability</b>	When white calibration plate is measured 30 times at 10-sec. intervals after white calibration has been performed: Spectral reflectance: Standard deviation within 0.1% Colorimetric values: Standard deviation within ΔE*ab 0.02

# CM-3600A

	Colorimetric values: Standard deviation within $\Delta E^*_{ab}$ 0.02
<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>UV adjustment</b>	Instantaneous numerical adjustment
<b>UV cut filters</b>	400 nm cutoff and 420 nm cutoff
<b>Transmittance chamber</b>	Width: 133 mm, Depth: Approx. 50 mm; Measurement diameter: Approx. 17 mm Transmission sample holder (optional accessory): Sample holder for both plate-shaped and liquid samples (removable); Liquid samples not measurable with CM-3610A.
<b>Interface</b>	USB 1.1
<b>Power</b>	AC 100 to 240V 50/60Hz (using included AC adapter)
<b>Operating temperature/humidity range</b>	13 to 33°C, relative humidity 80% or less (at 35°C) with no condensation
<b>Storage temperature/humidity range</b>	0 to 40°C, relative humidity 80% or less (at 35°C) with no condensation
<b>Size (W × H × D)</b>	CM-3600A: 244 × 205 × 378 mm CM-3610A: 300 × 597 × 315 mm
<b>Weight</b>	CM-3600A: 11.5 kg CM-3610A: 16.5 kg
<b>Standard accessories</b>	CM-3600A: White Calibration Plate, Target Mask (Ø4 mm), Target Mask (Ø8 mm), Target Mask (Ø25.4 mm), Zero Calibration Box, AC Adapter, Dust Cover, Accessory Case, USB Cable (3 m)  CM-3610A: White Calibration Plate, Target Mask (Ø4 mm), Target Mask (Ø8 mm), Target Mask (Ø25.4 mm), Zero Calibration Box, AC Adapter, Dust Cover, Accessory Case, USB Cable (3 m)
<b>Optional accessories</b>	CM-3600A: Color Data Software SpectraMagic™ NX, Transmittance Specimen Holder, Cell (2mm)/(10mm)/(20mm), Plastic Cell (2mm)/(10mm)/(20mm), Transmittance Zero Calibration Plate, USB Cable (5 m)

# CM-3600A

	Transmittance Zero Calibration Plate, USB Cable (5 m)
	CM-3610A: Color Data Software SpectraMagic™ NX, Transmittance Specimen Holder, Transmittance Zero Calibration Plate, Opacity Jig, USB Cable (5m)

Specifications are subject to change without notice.