



KONICA MINOLTA

# SPECTROPHOTOMETER CM-2600d

Portable, Compact, Easy to Use  
Performs Like a Desktop Spectrophotometer

World's first portable spectrophotometer equipped with automatic  
UV adjustment function.

Advanced Numerical UV Control dramatically reduces evaluation time.

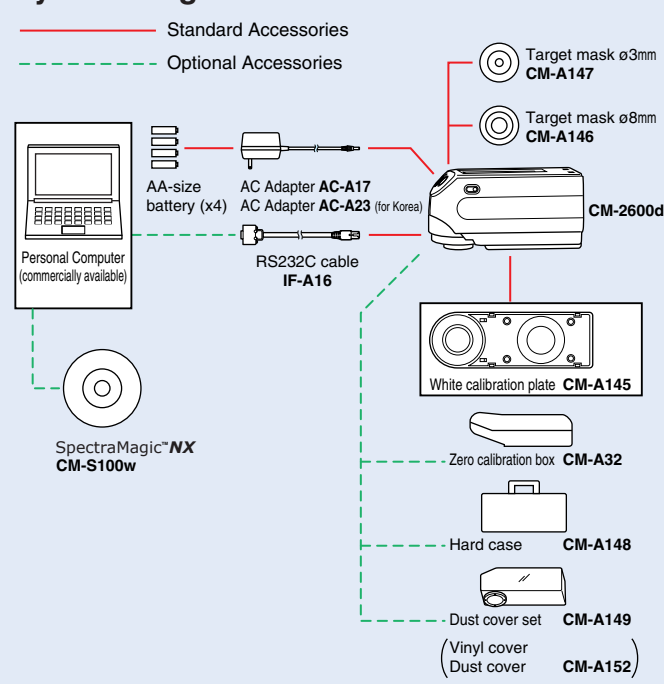


The essentials of imaging

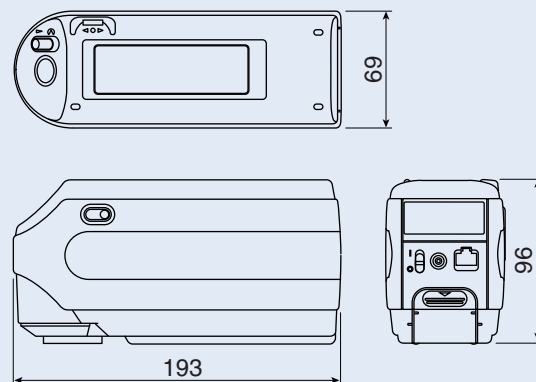


Specifications	
<b>Illumination/observation system</b>	d/8 (diffuse illumination, 8-degree viewing), equipped with simultaneous measurement of SCI (specular component included)/SCE (specular component excluded) Conforms to CIE No.15, ISO 7724/1, ASTM E1164, DIN 5033 Teil7 and JIS Z8722 Condition C standard.
<b>Sphere Size</b>	ø52mm
<b>Light-receiving element</b>	Silicon photodiode array (dual 40 elements)
<b>Spectral separation device</b>	Diffraction grating
<b>Wavelength range</b>	360nm to 740nm
<b>Wavelength pitch</b>	10nm
<b>Half bandwidth</b>	Approx. 10nm
<b>Reflectance range</b>	0 to 175%, resolution: 0.01%
<b>Light source</b>	3 pulsed xenon lamps
<b>Measurement time</b>	Approx. 1.5 seconds (approx. 2 seconds for fluorescent measurement)
<b>Minimum interval between measurements</b>	3 seconds for SCI/SCE (4 seconds for fluorescent measurement)
<b>Battery performance</b>	Alkaline manganese: approx. 1000 measurements
<b>Measurement/illumination area</b>	MAV: ø8mm/ø11mm SAV: ø3mm/6mm (Selectable between MAV and SAV)
<b>Repeatability</b>	Spectral Reflectance: Standard deviation within 0.1% (360 to 380nm within 0.2%) Colorimetric Value: Standard deviation within $\Delta E^*ab$ 0.04 (Measurement conditions: White calibration plate measured 30 times at 10-second intervals after white calibration was performed)
<b>Inter instrument agreement</b>	within $\Delta E^*ab$ 0.2 (MAV/SCI) Average for 12BCRA Series II color tiles compared to values measured with master body.
<b>UV adjustment</b>	Instantaneous numerical adjustment (no mechanical adjustment required) With UV400nm cut filter
<b>Measurement mode</b>	Single measurement/automatic averaging of multiple measurements (auto mode: 3, 5, 8 times/manual mode)
<b>Interface</b>	RS-232C standard
<b>Observer</b>	2/10 degrees (CIE 1931/2°, CIE 1964/10°)
<b>Illuminant</b>	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12 (simultaneous evaluation is possible using two light sources)
<b>Display data</b>	Spectral value/graph, colorimetric value, color difference value/graph, PASS/FAIL result
<b>Color space/colorimetric data</b>	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, W/Tint (CIE/Ganz), CIE00
<b>Data memory</b>	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
<b>Tolerance judgment</b>	Tolerance for color difference (both box and elliptical tolerances can be set)
<b>Power source</b>	4 AA-size battery or AC adapter
<b>Size (WxHxD)</b>	69 x 96 x 193mm
<b>Weight</b>	Approx. 670g (without batteries)
<b>Operating temperature/humidity range (*1)</b>	5 to 40°C, relative humidity 80% or less (at 35°C) with no condensation
<b>Storage temperature/humidity range</b>	0 to 45°C, relative humidity 80% or less (at 35°C) with no condensation
<b>Standard accessories</b>	White calibration plate, Target mask ø8mm, Target mask ø3mm, RS-232C cable, AC adapter, AA-size battery (x4)
<b>Optional Accessories</b>	Hard case, Dust cover set, Dust cover, SpectraMagic <sup>™</sup> NX (software), Zero calibration box

## System Diagram



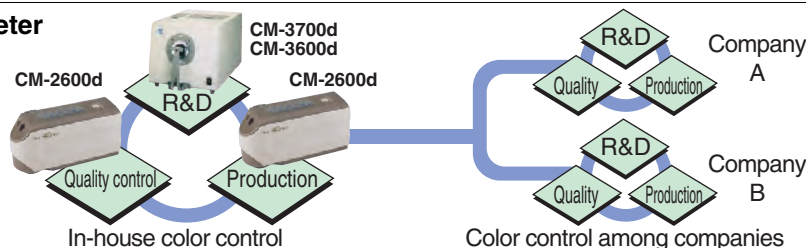
## Dimensions (Units:mm) CM-2600d



\*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

## Color control network by spectrophotometer

High inter-instrument agreement between the portable CM-2600d spectrophotometer and the desk top CM-3000 series make it easy to build a total color control network.



## SAFETY PRECAUTIONS

For correct use and for your safety, be sure to read the instruction manual before using the instrument.



- Always connect the instrument to the specified power supply voltage. Improper connection may cause a fire or electric shock.
- Be sure to use the specified batteries. Using improper batteries may cause a fire or electric shock.



Certificate No : YKA 0937154  
Registration Date : March 3, 1995



Certificate No : JQA-E-80027  
Registration Date : March 12, 1997

\* The specifications and drawings given here are subject to change without prior notice.

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