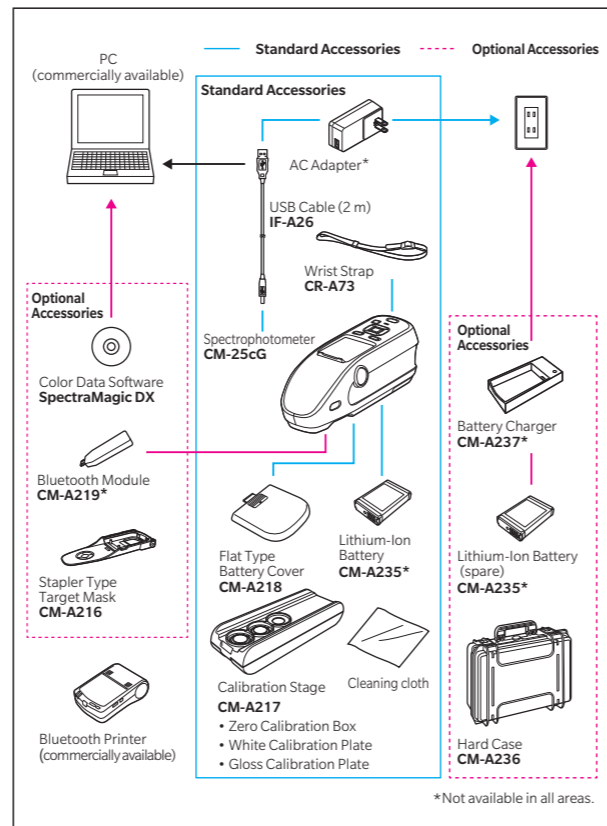


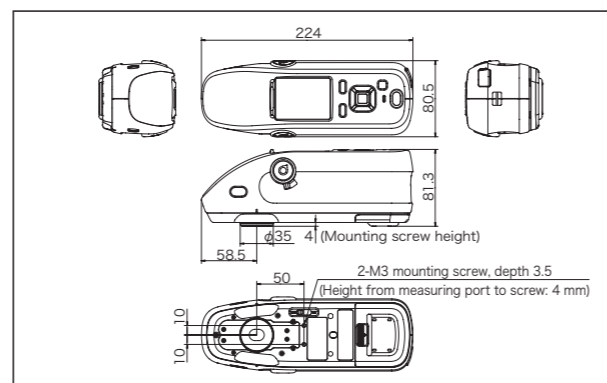
## Main Specifications

Model	Spectrophotometer CM-25cG
Illumination/viewing system	45°c:0°
Detector	Dual 40-element silicon photodiode arrays
Spectral separation device	Planar diffraction grating
Wavelength range	360-740 nm
Wavelength pitch	10 nm
Half bandwidth	Approx. 10 nm
Measurement range	0-175 %; Output/display resolution: 0.01 %
Light source	Pulsed xenon lamp
Measurement/illumination area	MAV: Ø8 mm/12×16 mm, SAV: Ø3 mm/12×16 mm
Repeatability	Chromaticity value: Standard deviation within $\Delta E^*ab$ 0.04 (When a white calibration plate is measured 30 times at 10-second intervals after white calibration)
Color	<p>Within <math>\Delta E^*ab</math> 0.15 (MAV) (Average for 12 BCRA Series II color tiles compared to values measured with a master body under Konica Minolta standard measurement conditions)</p> <p>Observer: 2° or 10° Standard Observer</p> <p>Illuminant: A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12, ID50, ID65, User illuminant (simultaneous evaluation with two illuminants possible)</p> <p>Displayed data: Spectral values/graph, colorimetric values/graph, color-difference values/graph, pass/fail judgement, pseudocolor</p> <p>Colorimetric data: L*a*b*, L*C*h, Hunter Lab, Yxy, XYZ, and color differences in these spaces; Munsell</p> <p>Indexes: MI, WI (ASTM E313), YI (ASTM E313, ASTM D1925), ISO Brightness (ISO2470), WI/Tint (CIE)</p> <p>Color-difference formula: <math>\Delta E^*ab</math> (CIE 1976), <math>\Delta E^*94</math> (CIE 1994), <math>\Delta E00</math> (CIE DE2000), CMC (l:c), <math>\Delta E</math> (Hunter)</p> <p>Standard compliance: CIE No. 15, ISO 7724/1, ASTM E179, DIN 5033 part7, JIS Z8722</p>
Inter-instrument agreement	Within $\Delta E^*ab$ 0.15 (MAV)
Observer	2° or 10° Standard Observer
Illuminant	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12, ID50, ID65, User illuminant (simultaneous evaluation with two illuminants possible)
Displayed data	Spectral values/graph, colorimetric values/graph, color-difference values/graph, pass/fail judgement, pseudocolor
Colorimetric data	L*a*b*, L*C*h, Hunter Lab, Yxy, XYZ, and color differences in these spaces; Munsell
Indexes	MI, WI (ASTM E313), YI (ASTM E313, ASTM D1925), ISO Brightness (ISO2470), WI/Tint (CIE)
Color-difference formula	$\Delta E^*ab$ (CIE 1976), $\Delta E^*94$ (CIE 1994), $\Delta E00$ (CIE DE2000), CMC (l:c), $\Delta E$ (Hunter)
Standard compliance	CIE No. 15, ISO 7724/1, ASTM E179, DIN 5033 part7, JIS Z8722
Measurement geometry	60°
Light source	LED
Detector	Silicon photo diode
Measurement range	0-200 GU; Output/display resolution: 0.01 GU
Measurement area	MAV: Ø10 mm, SAV: Ø3 mm
Gloss	<p>Repeatability: 0-10 GU : 0.1 GU, 10-100 GU: 0.2 GU, &gt;100 GU : 0.2 % of displayed value (Standard deviation. Under Konica Minolta standard measurement conditions)</p> <p>Inter-instrument agreement: 0-10 GU : ±0.2 GU, 10-100 GU: ±0.5 GU (MAV. Compared to values measured with a master body under Konica Minolta standard measurement conditions)</p> <p>Standard compliance: JIS Z8741, JIS K5600, ISO 2813, ISO 7668, ASTM D523-08, ASTM D2457-13, DIN 67530</p>
Measurement time	Approx. 1 seconds (to data display/output)
Minimum measurement interval	Approx. 2 seconds
Battery performance	Approx. 3,000 measurements/charge (Stand-alone measurement at 10-second intervals at 23 °C) Approx. 1,000 measurements/charge (When using Bluetooth® communication)
Displayed languages	Japanese, English, German, French, Italian, Spanish, Chinese (Simplified), Portuguese, Russian, Turkish, Polish
Display	2.7-inch TFT color LCD
Interfaces	USB2.0, Bluetooth (Option)
Data memory	Target data: 2,500 measurements; Sample data: 7,500 measurements
Power	Rechargeable lithium-ion battery, USB bus power
Charging time	Approx. 6 hours when no charge remains
Operation temperature/humidity range	5-40 °C, relative humidity is 80% or less (at 35°C) with no condensation
Storage temperature/humidity range	0-45 °C, relative humidity is 80% or less (at 35°C) with no condensation
Size (L×W×H)	224 x 81 x 81 mm
Weight	Approx. 600 g (Including battery)

## System Diagram



## Dimensions (Units : mm)



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- Bluetooth® is a registered trademark of Bluetooth SIG, Inc. and is used under license agreement.
- Displays shown are for illustration purpose only.
- The specifications and appearance shown herein are subject to change without notice.



# NEW Spectrophotometer CM-25cG

## New standard model for color and gloss measurement!

The two-in-one model that can simultaneously measure both color and gloss!

High inter-instrument-agreement!

Form and functions suitable for measurement of automotive interior trim and materials!



### 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.: LRQ 0960094/A  
Registration Date: March 3, 1995



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

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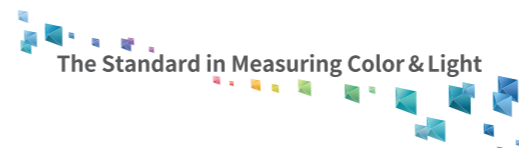
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<http://konicaminolta.com/instruments/network>

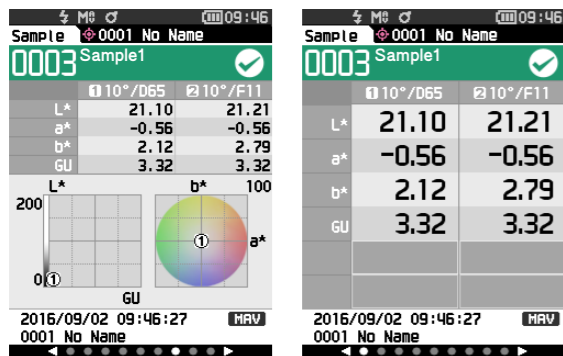
9242-4879-70 BGLPK Printed in Japan



Giving Shape to Ideas

## The spectrophotometer CM-25cG is a two-in-one model for simultaneous color and gloss measurement.

### Display examples



The 2.7-inch TFT color LCD makes measurements easy to read, and the easy-to-understand GUI provides high usability.



**Form and functions designed specifically for quality control of color and gloss of automotive interior trim. The industry's next standard model.**

### Ideal form and functions for measuring automotive interiors



The CM-25cG's sleek, compact, lightweight body is easy to hold, and can measure even in narrow, deep-set spaces. Additionally, changeable apertures allow measurements of subjects which are small or curved.

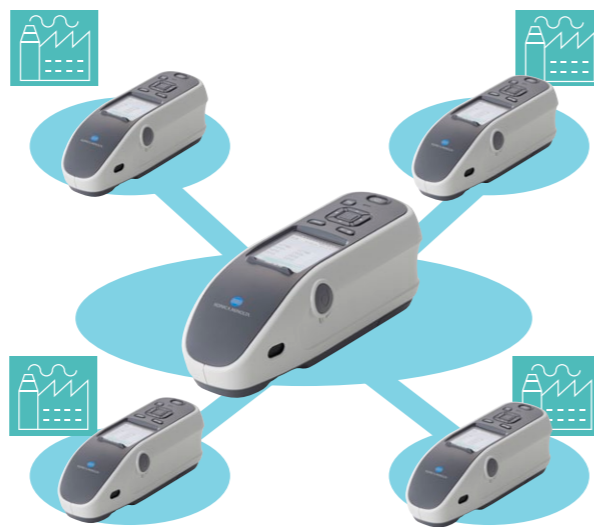
Color :  $\varnothing 8$  mm/ $\varnothing 3$  mm  
Gloss :  $\varnothing 10$  mm/ $\varnothing 3$  mm

### A two-in-one model for color and gloss



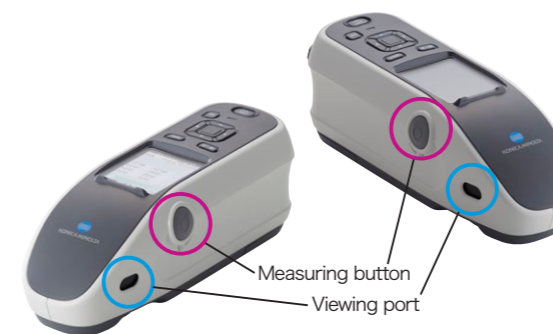
The CM-25cG greatly improves work efficiency by eliminating the need to switch between two instruments — one for color, one for gloss — for each measurement, thus reducing takt time, and providing color and gloss data from exactly the same measurement point for more accurate quality control.

### High inter-instrument agreement



The CM-25cG offers high inter-instrument agreement of within  $\Delta E^* 0.15$  (typical) (MAV) for color and  $\pm 0.2$  GU for gloss measurements of 1 to 10 GU. This high inter-instrument agreement enables digital data management for more efficient quality control among your factories or between your company and your partners.

### High repeatability and user friendliness

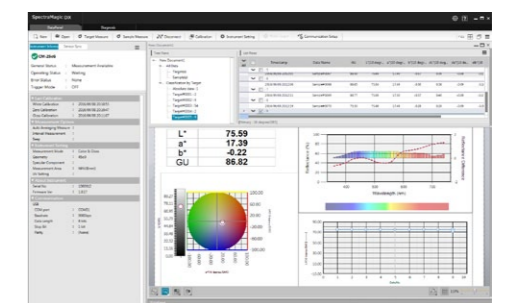


By using a 45°c:0° illumination/viewing system with ring-shaped illumination having light sources radially located at certain intervals, the CM-25cG provides stable data while minimizing instrument rotational effects. The system also provides data with high accuracy and repeatability even if there is a small gap between the measurement aperture and the subject.

Other features include high-speed measurement, cable-free operation, and viewing ports and measuring buttons on both the right and left sides of the instrument body for easy operation and high measurement stability in any situation.

\* Level of subject visibility through viewing port depends on measurement subject.

### Color Data Software SpectraMagic DX (Option) Professional Edition (Version. 1.0) Lite Edition



The new Color Data Software SpectraMagic DX enables easy management of data measured with the CM-25cG, and offers a new Instrument Diagnosis function to help ensure continued high instrument performance.

OS : Windows® 7 Pro 32-bit / 64-bit, Windows® 8.1 Pro 32-bit / 64-bit, Windows® 10 Pro 32-bit / 64-bit  
CPU : Intel® Core i5 2.7GHz or higher (recommended)  
Memory : At least 2 GB (4 GB or more recommended)  
Hard disk : 20 GB of available hard disk space  
At least 10 GB of available disk space is required on the system drive (drive where the OS is installed) for database.  
Display : Display hardware capable of displaying 1,280 x 768 pixels/16-bit color or better  
Other : USB port required for protection key if used. Not necessary for electronic license.  
USB or serial port required for connection to instrument.  
Compatible Instruments : CM-25cG, CM-M6, CM-2500c

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