



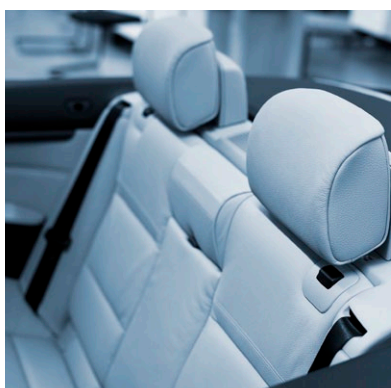
KONICA MINOLTA

NEW

Spectrophotometer **CM-25cG**

5

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 !



High
repeatability
and user
friendliness!



The Standard in Measuring Color & Light

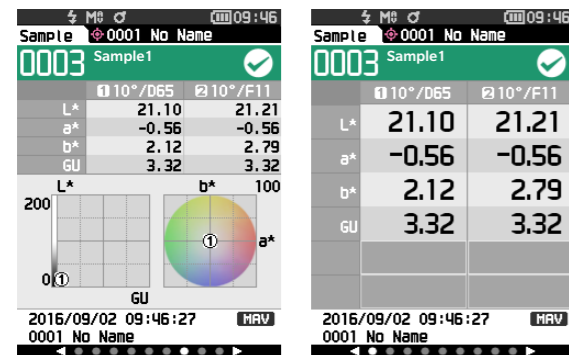
Giving Shape to Ideas

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

New! (from December, 2017)

DIN 99o has been added as a new color-difference formula commonly used in automotive industry.

Display examples



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

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

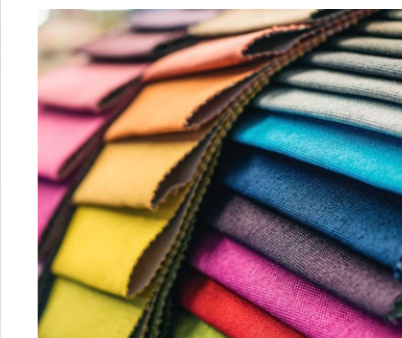


The CM-25cG offers high inter-instrument agreement of within $\Delta E^* 0.15$ (typical) (MAV) for color and ± 0.2 GU for gloss measurements of 1 to 10 GU. This high inter-instrument agreement enables digital data management for more efficient quality control among your factories or between your company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

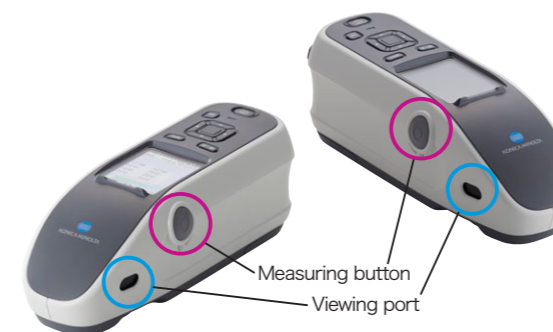
Changeable apertures allow easy measurements of small objects.

Color: Ø8 mm/ Ø3 mm

Gloss: Ø10 mm/ Ø3 mm



High repeatability and user friendliness

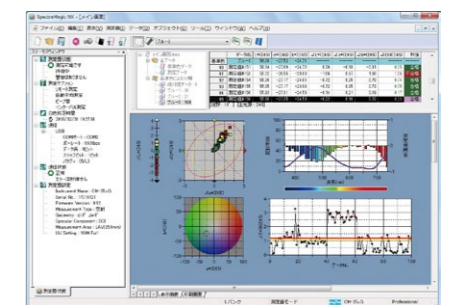


By using a 45°c:0° illumination/viewing system with ring-shaped illumination having light sources radially located at certain intervals, the CM-25cG provides stable data while minimizing instrument rotational effects. The system also provides data with high accuracy and repeatability even if there is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

SpectraMagic NX (Option) Ver.2.8 or later



- OS : Windows® 7 Professional 32 bit, 64 bit; Windows® 8.1 Pro 32 bit, 64 bit; Windows® 10 Pro 32 bit, 64 bit
- The hardware of the computer system to be used must meet or exceed the greater of the recommended system requirements for the compatible OS being used or the following specifications.
- CPU : Pentium® III 600 MHz equivalent or faster
- Memory : 128 MB or more (256 MB or more recommended)
- Hard disk : 450 MB or more of free space for installation
- Display : Resolution: 1,024 x 768 dots or more/ 16-bit colors or more
- Other : DVD-ROM drive (required for installation); one free USB port for protection key; one free port (serial port or additional USB port) for connection to instrument when connecting via cable (or USB port for USB Bluetooth® adapter when using a USB Bluetooth® adapter for performing communication with CM-25cG via Bluetooth®); Internet Explorer Version. 5.01 or later.
- Windows® is a trademark or registered trademark of Microsoft Corporation in the USA and other countries.
 - Pentium® is a trademark of Intel Corporation in the USA and other countries.
 - The specifications given here are subject to change without prior notice.
 - Bluetooth® is a registered trademark of Bluetooth SIG, Inc. and is used under license agreement.

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 ΔE^*ab 0.04 (When a white calibration plate is measured 30 times at 10-second intervals after white calibration)
Inter-instrument agreement	Within ΔE^*ab 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)
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	ΔE^*ab (CIE 1976), ΔE^*94 (CIE 1994), ΔE_{00} (CIE DE2000), CMC (l:c), ΔE (Hunter), ΔE_{990} (DIN 990)
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
Repeatability	0-10 GU : 0.1 GU 10-100 GU : 0.2 GU >100 GU : 0.2 % of displayed value (Standard deviation. Under Konica Minolta standard measurement conditions)
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)
Standard compliance	JIS Z8741, JIS K5600, ISO 2813, ISO 7668, ASTM D523-08, ASTM D2457-13, DIN 67530
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	USB 2.0; Bluetooth (SPP compatible. Using optional Bluetooth Module)
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 (W x H x D)	Approx. 81 x 81 x 224 mm
Weight	Approx. 600 g (Including battery)



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.

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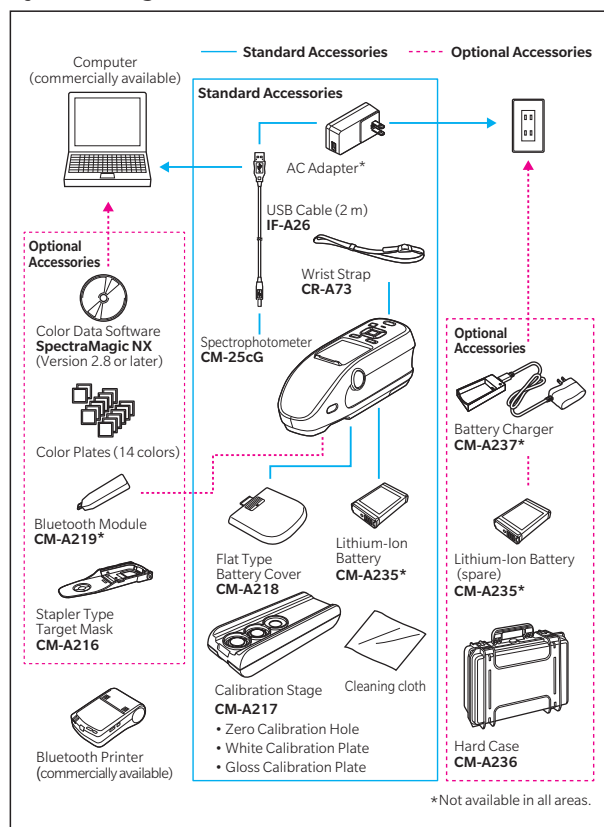
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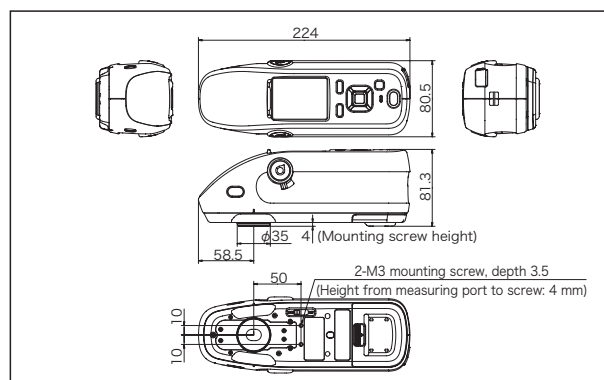
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System Diagram



Dimensions (Units : mm)



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Certificate No.: JQA-QMA15888
Registration Date: October 26, 2018
KONICA MINOLTA, Inc., Sakai Site
Product design, manufacture/manufacturing management, calibration, and service



Certificate No.: JQA-E-80027
Registration Date: March 12, 1997
KONICA MINOLTA, Inc., Sakai Site

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9242-4879-70 BIMPCK Printed in Japan