KONICA MINOLTA

extralab®
BRASIL

NEW Spectrophotometer

CM-26dG
CM-26d
CM-25d

KONICA MINOLTA

Advanced performance
for the times.
Ease of use
forfront-line use.

The Standard in Measuring Color & Light

Giving Shape to Ideas

„ 2-in-1 instrument for measuring color and gloss

The CM-26dG performs the job of two instruments by simultaneously measuring color and gloss. Because color and gloss measurements can be done with a single device, separate spectrophotometers and glossmeters do not need to be prepared and switched in and out, which instantly improves work efficiency especially when measuring a large quantity of samples.

Light for measuring color
Light reflected by sample for color measurement

Light for measuring gloss
Light reflected by sample for gloss measurement

„ Incomparable speed

The CM-26dG measures color in about half the time required of previous models, at approx. 0.7 sec (SCI or SCE). Moreover, it takes about 1 sec to measure both color and gloss (SCI or SCE + Gloss). The faster measuring speed translates into higher work efficiency.

Measurement time comparison

| Previous model (CM-2600d) | SCI or SCE (Color) | Approx. 1.5 seconds |

| CM-26dG | | Gloss | Approx. 1 second |

SCI or SCE (Color) measured in about half the time (0.7 sec)

Highest level of repeatability with high inter-instrument agreement, incomparable speed, and high usability.

The CM-26dG Series from Konica Minolta offers three variations of advanced portable spectrophotometers.

The high-end CM-26dG and CM-26d models bring the industry's highest level of accuracy, with the CM-26dG capable of simultaneously measuring color and gloss, and the CM-26d specifically for measuring color.
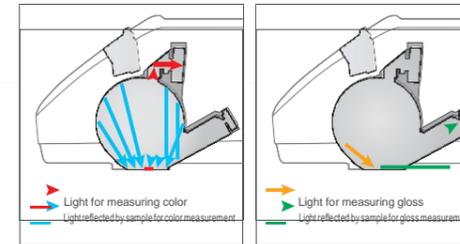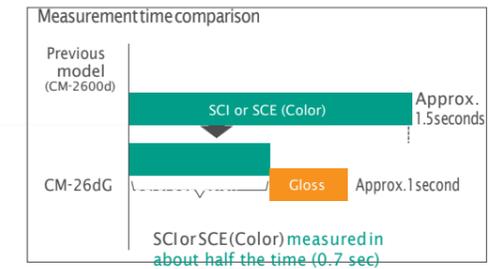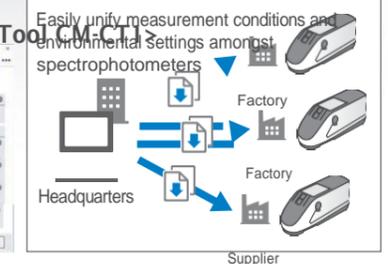
The lineup is rounded out with the high cost-performance model, the CM-25d.

(Actual size)

NEW Spectrophotometer
CM-26dG │ CM-26d │ CM-25d

„ Highest levels of repeatability and inter-instrument agreement amongst portable spectrophotometers

Because of the way supply chains are constantly being built and modified, data needs to be shared amongst increasingly more sites. This has made high repeatability and high inter-instrument agreement prerequisites for portable spectrophotometers. The CM-26dG and CM-26d realize the highest level of inter-instrument agreement amongst currently available portable spectrophotometers, at ΔE*ab 0.12 (BCRA average amongst 12 colors). And when measuring gloss, inter-instrument agreement of the CM-26dG is within ±0.2 GU (0-10 GU) or ±0.5 GU (10-100 GU). Moreover, repeatability is half that of predecessor models, at $_1$ΔE*ab 0.02. The contribution to digital color data management that this level of performance offers will help manufacturers enhance quality management between their factories and suppliers.

<Quick and easy-to-use Spectrophotometer Configuration Tool CM-CT1>

The CM-CT1 gives manufacturers the means for easily and quickly setting up their CM-26dG Series spectrophotometers. Moreover, when multiple devices are used or when the same conditions need to be set amongst multiple factories or suppliers, settings can be compiled into a file and shared.

Easily unify measurement conditions and environmental settings amongst spectrophotometers

Headquarters

Factory

Factory

Supplier

Spectrophotometer Configuration Tool CM-CT1 zOS: Windows®7 32bit, 64 bit / Windows®8.1 32bit, 64 bit / Windows®10 32bit, 64 bit zCPU: 2 GHz equivalent or faster zMemory: 2 GB or more zHard disk: 10 GB or more of free space for installation zDisplay: Resolution: 1,024 x 720 dots or more / 16-bit colors or more zOther: USB port (For connecting to spectrophotometers)

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JT B USBEFNBSL PS SFHJTUFSFE USBEFNBSL P⬚ ⬚JDSPTP⬚ $PSQPSBUJPO JO UIF 64" BOE P⬚IFS DPVOUSJFT.

Highest level of repeatability with high inter-instrument agreement, incomparable speed, and high usability.

The CM-26dG Series from Konica Minolta offers three variations of advanced portable spectrophotometers.

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The lineup is rounded out with the high cost-performance model, the CM-25d.

NEW Spectrophotometer

CM-26dG | CM-26d | CM-25d

„ Viewfinder

The viewfinder brightly illuminates the measurement point with an LED to make target alignment faster, easier and more precise. It also incorporates a pointer that makes it even easier to identify the measurement area. Moreover, because it allows the user to look down from above the spectrophotometer, the viewfinder is perfect for setting measurement points on patterns and prints.

„ Compact, lightweight streamlined body

Designed to work in hard-to-reach places, the CM-26dG Series spectrophotometers allow users to take measurements where previous models could not.
The nose is angled downward and rounded at the corners to get into cramped spots like dashboards at a point near the windshield.
Moreover, the plastic target mask lessens the risks of scratching the sample.
And there is a trigger button on both sides so that measurements can be taken stress-free in any sort of situation, no matter which hand you use.

JOB function execution screen   (Actual size)

„ High usability and functional versatility
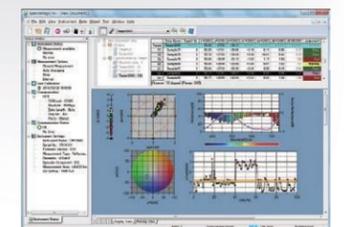
<JOB Function>
Instructions (including photos) for often-used workflows can be registered using SpectraMagic NX (Ver. 2.9 or later, sold separately).

<Bluetooth® ready>
Data can be wirelessly transmitted to computers or other paired devices over a Bluetooth connection.
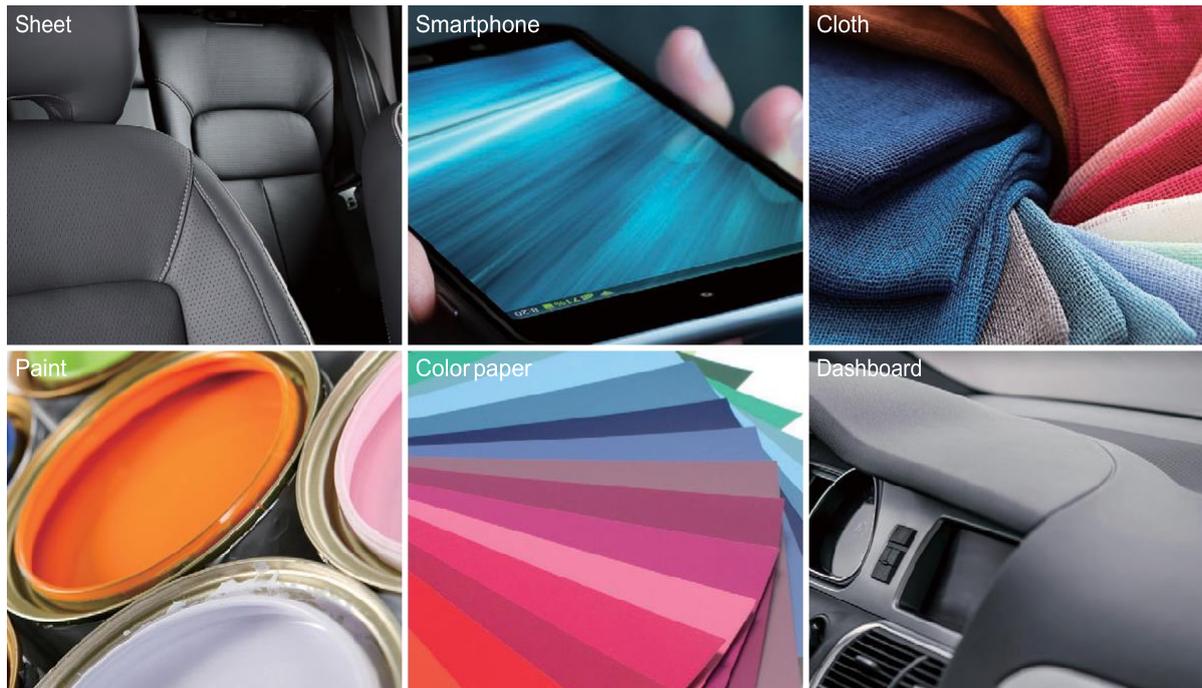
Color Data Software SpectraMagic NX
SpectraMagic NX is color management software that gives users a plethora of functions for viewing, operating and controlling their spectrophotometers from a computer. Users can create their own windows by arranging and editing spectral graphs, color difference graphs (2D, 3D), OK/NG indications and other objects to suit their needs.

„ CM-26dG Series spectrophotometers can be used in a wide range of fields.

Automotive interiors, ICT products, Home appliances, Paint, Ceramics, Plastics, Solar panels, Glass, etc.
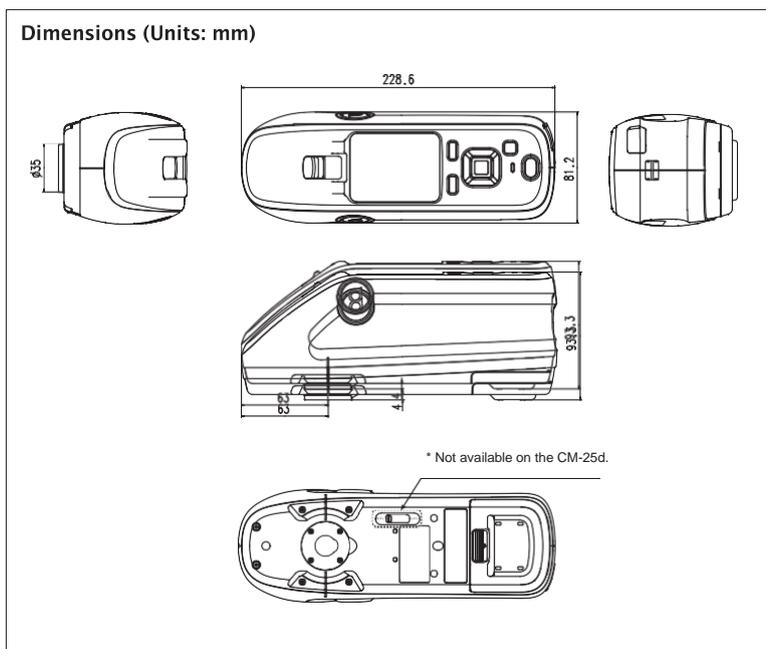
Sheet

Smartphone

Cloth

Paint

Color paper

Dashboard

„ Performance by model

	CM-26dG	CM-26d	CM-25d
SCI	z	z	z
SCE	z	z	z
60˚ gloss	z	—	—
MAV	z	z	z
SAV	z	z	—
UV 0% / 100%	z	z	—
Inter-instrument agreement (Color)	<0.12	<0.12	<0.20
Repeatability (lvΔE*ab)	<0.02	<0.02	<0.04
Wavelength range	360 - 740 mm	360 - 740 mm	400 - 700 mm

Stapler Type Target Mask CM-A268
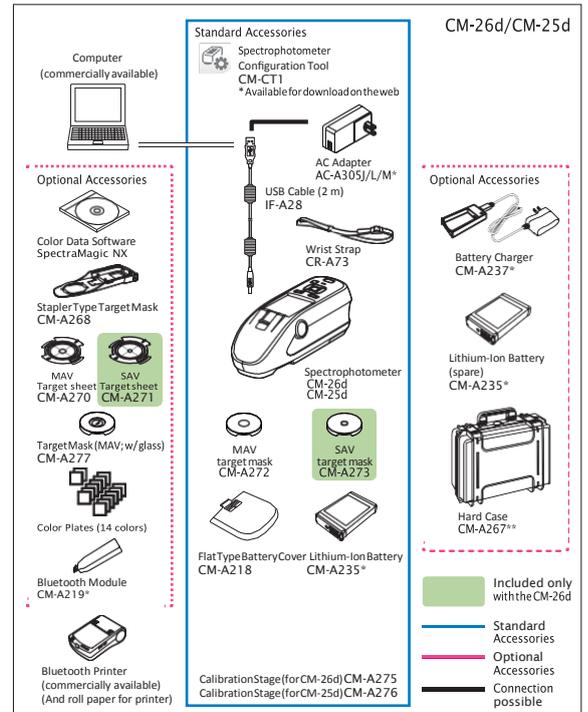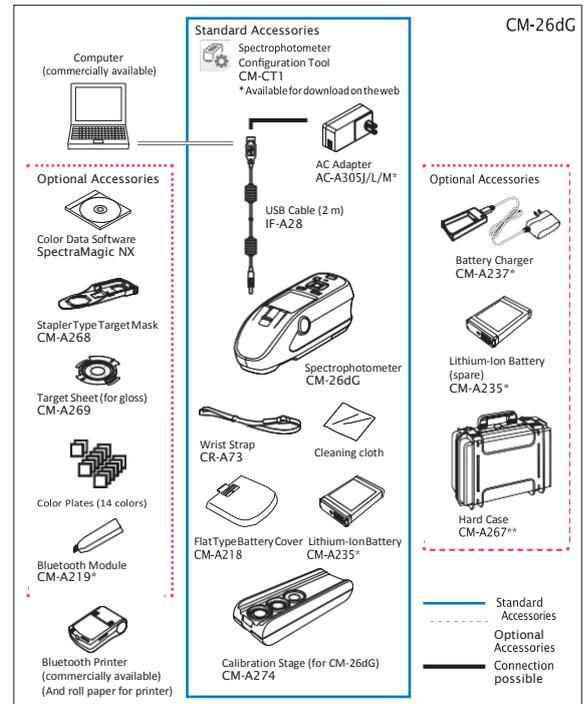
Target Mask (MAV; w/ glass) CM-A277

Dimensions (Units: mm)

228.6

ϕ35

81.2

93.3

63

* Not available on the CM-25d.

Specifications

Model	CM-26dG	CM-26d	CM-25d
Illumination/viewing system	di: 8°, de: 8° (diffuse illumination: 8° viewing) SCI (specular component included) / SCE (specular component excluded) switchable		
Integrating sphere	Ø54 mm		
Light source	Pulsed xenon lamp ×2		Pulsed xenon lamp ×1
Detector	Dual 40-element silicon photodiode arrays		Dual 32-element silicon photodiode arrays
Spectral separation device	Planar diffraction grating		
Measurement wavelength range	360 to 740 nm		400 to 700 nm
Measurement wavelength pitch	10 nm		
Half bandwidth	Approx. 10 nm		
Reflectance measurement range	0 to 175%; Display resolution: 0.01		
Color — Illumination area	12 × 12.5 mm (circle + ellipse)	MAV:Ø12mm SAV:Ø6mm	MAV : Ø12 mm
Color — Measurement area	MAV: Ø8 mm, SAV: Ø3 mm		MAV : Ø8 mm
Color — Repeatability	Standard deviation within ΔE*ab 0.02		Standard deviation within ΔE*ab 0.04
	(When a white calibration plate is measured 30 times at 5-second intervals after white calibration)		
Color — Inter-instrument agreement	Within ΔE*ab 0.12		Within ΔE*ab 0.20
	(Based on average for 12 BCRA Series II color tiles; MAV SCI; compared to values measured with a master body under KONICA MINOLTA standard measurement conditions)		
Color — UV adjustment	UV 100% / UV 0%		—
Color — Observer	2° observer angle, 10° observer angle		
Color — Illuminant	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12, ID50, ID65, User-defined illuminant*[1] (Simultaneous evaluation with two light sources possible)		
Color — Display items	Colorimetric values/graph, color difference values/graph, spectral graph, pass/fail judgment, pseudocolor		
Color — Colorimetric values	L*a*b*, L*C*h, Hunter Lab, Yxy, XYZ, and color difference in these spaces; Munsell (C)		
Color — Indexes	MI, WI (ASTM E313-73), YI (ASTM E313-73, ASTM D1925), ISO brightness (ISO 2470), WI/Tint (CIE), Strength, Opacity, Grey scale, User index *[1]	MI, WI (ASTM E313-73), YI (ASTM E313-73, ASTM D1925), ISO brightness (ISO 2470), WI/Tint (CIE), Strength, Opacity, Grey scale, 8° gloss value, User index *[1]	
Color — Color difference equations	ΔE*ab (CIE1976) / ΔE94 (CIE1994) / ΔE00 (CIE2000) / CMC (l:c) / Hunter ΔE / DIN99o		
Color — Applicable standards	DIN 5033 Teil 7, JIS Z 8722 Condition "c", ISO 7724/1, CIE No.15		
Gloss — Measurement angle	60°	—	
Gloss — Light source	White LED	—	
Gloss — Detector	Silicon photodiode	—	
Gloss — Measurement range	0 to 200 GU; Display resolution: 0.01 GU	—	
Gloss — Measurement area	MAV : 10 x 7 mm, SAV : Ø3 mm	—	
Gloss — Repeatability	Standard deviation 0 to 9.99 GU: Within 0.1 GU 10 to 99.99 GU: Within 0.2 GU 100 to 200 GU: Within 0.2% of indicated value (When measured 30 times at 5-second intervals after calibration)	—	
Gloss — Inter-instrument agreement	0 to 9.99 GU: Within ±0.2 GU 10 to 99.99 GU: Within ≤0.5 GU (MAV; compared to values measured with a master body under KONICA MINOLTA standard measurement conditions)	—	
Gloss — Applicable standards	JIS Z8741 (MAV only), JIS K5600, ISO2813, ISO7668 (MAV only), ASTM D523-08, ASTM D2457-13, DIN 67530	—	
Measurement time	Approx. 1 sec. (Measurement mode: SCI+Gloss or SCE+Gloss)	Approx. 0.7 sec. (Measurement mode: SCI or SCE)	
	(From pressing trigger button to measurement completion)		
Minimum measurement interval	Approx. 2 sec. (Measurement mode: SCI+gloss or SCE+gloss)	Approx. 1.5 sec. (Measurement mode: SCI or SCE)	
Data memory	1,000 target data + 5,100 sample data		
Battery performance	Measurement mode: SCI + Gloss or SCE + Gloss	Measurement mode: SCI or SCE	
	Approx. 3,000 measurements (approx. 1,000 measurements when using Bluetooth) when measurements are taken at 10-second intervals at 23°C with the dedicated lithium battery		
Viewfinder function	Available (with white LED illumination)		
Display	2.7" color TFT-LCD with reversible portrait viewing mode		
Display language	English, Japanese, German, French, Italian, Spanish, Simplified Chinese, Portuguese, Russian, Turkish, Polish		
Interface	USB 2.0; Bluetooth (SPP-compatible. Optional Bluetooth module required)		
Power	Dedicated lithium-ion battery (removable), USB bus power (with lithium-ion battery installed), Dedicated AC adapter (with lithium-ion battery installed)		
Charging time	Approx. 6 h		
Operating temperature/humidity range	Temperature: 5 to 40°C, Relative humidity: 80% or less (at 35°C) with no condensation		
Storage temperature/humidity range	Temperature: 0 to 45°C, Relative humidity: 80% or less (at 35°C) with no condensation		
Size	Approx. 81 (W) × 93 (H) × 229 (D) mm		
Weight	Approx. 660 g	Approx. 630 g	Approx. 620 g

*1 Optional Color Management Software SpectraMagic NX is required for setting user-configured illuminants or user indexes.

System Diagram

CM-26dG

Standard Accessories
Computer (commercially available)
Spectrophotometer Configuration Tool CM-CT1 * Available for download on the web
AC Adapter AC-A305J/L/M*
USB Cable (2 m) IF-A28
Spectrophotometer CM-26dG

Optional Accessories
Color Data Software SpectraMagic NX
Stapler Type Target Mask CM-A268
Target Sheet (for gloss) CM-A269
Wrist Strap CR-A73
Cleaning cloth
Color Plates (14 colors)
Flat Type Battery Cover CM-A218
Lithium-Ion Battery CM-A235*
Bluetooth Module CM-A219*
Bluetooth Printer (commercially available) (And roll paper for printer)
Calibration Stage (for CM-26dG) CM-A274

Optional Accessories
Battery Charger CM-A237*
Lithium-Ion Battery (spare) CM-A235*
Hard Case CM-A267**

— Standard Accessories
--- Optional Accessories
— Connection possible

CM-26d/CM-25d

Standard Accessories
Computer (commercially available)
Spectrophotometer Configuration Tool CM-CT1 * Available for download on the web
AC Adapter AC-A305J/L/M*
USB Cable (2 m) IF-A28
Wrist Strap CR-A73
Spectrophotometer CM-26d CM-25d

Optional Accessories
Color Data Software SpectraMagic NX
Stapler Type Target Mask CM-A268
MAV Target sheet CM-A270
SAV Target sheet CM-A271
Target Mask (MAV; w/ glass) CM-A277
MAV target mask CM-A272
SAV target mask CM-A273
Color Plates (14 colors)
Flat Type Battery Cover CM-A218
Lithium-Ion Battery CM-A235*
Bluetooth Module CM-A219*
Bluetooth Printer (commercially available) (And roll paper for printer)
Calibration Stage (for CM-26d) CM-A275
Calibration Stage (for CM-25d) CM-A276

Optional Accessories
Battery Charger CM-A237*
Lithium-Ion Battery (spare) CM-A235*
Hard Case CM-A267**

Included only with the CM-26d
— Standard Accessories
--- Optional Accessories
— Connection possible

* Depending on the location, some accessories may not be available.
** May be included as a standard accessory in some regions.

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.

Addresses and telephone/fax numbers are subject to change without notice. For the latest contact information, please refer to the KONICA MINOLTA Worldwide Offices web page :

https://konicaminolta.com/instruments/network