NEW Spectrophotometer

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

Advanced performance for the times.
Color Management for global supply chains.
Highest level of repeatability with high inter-instrument agreement, speed and 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 CM-25d is a single aperture model.

**NEW Spectrophotometer**

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

### Viewfinder

The viewfinder brightly illuminates the measurement point with an LED to make target alignment easier and more precise. The viewfinder of the CM-26dG also includes a target ring that makes it even easier to identify the measurement area. Using the viewfinder greatly reduces measurement errors when 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. The measurement button is accessible from both sides of the unit, improving usability for left handed operators or in otherwise difficult to reach areas.

### High usability and functional versatility

**<JOB Function>**

Measurement instructions (including photographs) for routine tasks can be uploaded to the instrument using SpectraMagic NX (Ver. 2.0 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 data and for operating and configuring their spectrophotometers from a computer. Users can customize templates and reports by arranging and editing spectral graphs, color difference graphs (2D, 3D), PASS/FAIL indications and other objects to suit their needs.

**Notes:**

- **Windows®** is a trademark or registered trademark of Microsoft Corporation in the USA and other countries.
- **Pentium®** is a trademark or registered trademark of Intel Corporation in the USA and other countries.
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The CM-25d is a single aperture model.

2-in-1 instrument for measuring color and gloss

- The CM-26dG performs the job of two instruments by simultaneously measuring color and gloss. The integrated gloss sensor will significantly improve the speed of the inspection process & remove the need for a separate gloss device.

- The CM-26dG measures color in about half the time of previous models, at approx. 0.7 second (SCI or SCE). Measurements of both color and gloss (SCI or SCE + Gloss) can be made in around 1 second. The faster measuring speed directly improves efficiency.

- Supply chains are constantly being built and modified, and data needs to be seamlessly shared amongst both internal and external partners. High repeatability and high inter-instrument agreement are increasingly prerequisites for portable spectrophotometers to expedite specification, supply and quality control. The CM-26dG and CM-26d realizes the highest level of inter-instrument agreement amongst currently available portable spectrophotometers, at ΔE*ab 0.12 (BCRA average amongst 12 colors), this is around half that of their predecessor the CM-2600d. When measuring gloss, the inter-instrument agreement of the CM-26dG is within ±0.2 GU (0-10 GU) or ±0.5 GU (10-100 GU). The improved accuracy of the CM-26dG will allow supply chains to operate at closer tolerances and facilitate digital color management, cutting reliance on physical standards, greatly improving timelines and associated costs.

- 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.

- Improved measurement speed

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- Measurement time comparison

- Previous model (CM-2600d)

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

- CM-26dG

  - SCI or SCE (Color)

  - Gloss

  - SCI or SCE (Color) + Gloss measured in about half the time (0.7 s)

- Spectrophotometer Configuration Tool CM-CT1

  - OS: Windows® 7 32 bit, 64 bit / Windows® 8.1 32 bit, 64 bit / Windows® 10 32 bit, 64 bit

  - CPU: 2 GHz equivalent or faster

  - Memory: 2 GB or more

  - Hard disk: 10 GB or more of free space for installation

  - Display: Resolution: 1,024 x 768 pixels or more / 16-bit color or more

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CM-26dG Series spectrophotometers can be used in a wide range of industries. Automotive interiors, ICT products, Home appliances, Paint, Ceramics, Plastics, Solar panels, Glass, etc.

Performance by model

<table>
<thead>
<tr>
<th></th>
<th>CM-26dG</th>
<th>CM-26d</th>
<th>CM-25d</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCI</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SCE</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>60° gloss</td>
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<td>—</td>
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<tr>
<td>MAV (Ø8 mm)</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>SAV (Ø3 mm)</td>
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<td>●</td>
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<td>UV setting</td>
<td>100% / 0% / Adjusted</td>
<td>100% / 0% / Adjusted</td>
<td>0% only</td>
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<tr>
<td>Inter-instrument agreement (Color)</td>
<td>&lt;0.12</td>
<td>&lt;0.12</td>
<td>&lt;0.20</td>
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<tr>
<td>Repeatability (ΔE*ab)</td>
<td>&lt;0.02</td>
<td>&lt;0.02</td>
<td>&lt;0.04</td>
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<tr>
<td>Wavelength range</td>
<td>360 - 740 nm</td>
<td>360 - 740 nm</td>
<td>400 - 700 nm</td>
</tr>
</tbody>
</table>

Stapler Type Target Mask CM-A268

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

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Specifications

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

Illumination/viewing system
- *d* 8°, *D* 8° (diffuse illumination, *d* viewing)
- SCI (specular component included)/SCE (specular component excluded) switchable

Light source
- Pulsed xenon lamp 2
- Pulsed xenon lamp 3 (with UV cut filter)

Detector
- Dual 40-element silicon photodiode arrays
- Dual 32-element silicon photodiode arrays

Spectral separation device
- Plane diffraction grating

Measurement range
- 350 to 740 nm
- 400 to 1000 nm

Measurement wavelength
- 10 nm

Field of view
- Approx. 10 mm

Reflectance measurement range
- 0 to 15°, Display resolution: 0.01°

Illumination area
- 12 × 12.5 mm (circle + ellipse; MAV: Ø12 mm, SAV: Ø6 mm)

Measurement area
- MAV: Ø12 mm, SAV: Ø6 mm

Repeatability
- Standard deviation without ΔE*ab 0.2
- Standard deviation within ΔE*ab 0.2

UV setting
- 100% / 0% / Adjusted (transmittance numerical adjustment of UV with no mechanical filter movement required) / 0% - 400 nm UV cutoff filter

Observer
- 2° observer angle, 10° observer angle

Illuminant
- A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12, ID50, ID65, User-defined illuminant*1

1,000 target data + 5,100 sample data

Measurement angle
- 60°

Light source
- White LED

Color difference equations
- ΔE*ab (CIE 1976), ε*ab (ISO 105-A05), ε*ab (ASTM E313-73), ε*ab (ASTM D1925), ε*ab (ASTM E313-73, ASTM D1925), ε*ab (ASTM E313-73, ASTM D1925)

Colorimetric values
- L*a*b*, L*C*h, Hunter Lab, Yxy, XYZ, and color difference in these spaces
- Munsell (C)

Available target data
- Dual 32-element silicon photodiode arrays
- Dual 40-element silicon photodiode arrays

Measurement time
- Measurement mode: SCI or SCE

Battery performance
- Approx. 2.5 hours (Approx. 100 measurements when using Bluetooth; when measurement are taken at 10-second intervals at 23°C with the dedicated lithium battery)

Waterproof 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, Hungarian, Dutch

Interface
- USB 2.0, USB C® (USB-SE compatible), Optional Bluetooth module required

Power
- Dedicated lithium-ion battery (rechargeable);
- USB bus power (with lithium-ion battery installed);
- Dedicated AC adapter (with lithium-ion battery included)

Charging time
- Approx. 2.5 hours

Storage temperature/humidity range
- Temperature: -10°C to 40°C, Relative humidity: 30% or less (at 31°C) with no condensation

Storage temperature/humidity range
- Temperature: 0°C to 40°C, Relative humidity: 60% or less (at 31°C) with no condensation

Weight
- Approx. 1.3 kg (W) + 93 g (target sheet) / 229 g (spare)

*1 Firmware version 1.10 or later and optional Color Management Software SpectraMagic NX (Ver. 3.0 or later) is required to use UV-Adjusted setting.

*2 Optional Color Management Software SpectraMagic NX (Ver. 2.9 or later) is required for setting user-defined illuminants or user indexes.

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.

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