



## Spectrophotometer CM-M6

# High precision, multi-angle model for measuring from 6 angles!











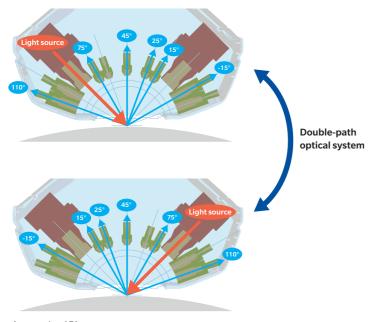
## **Display examples**



The CM-M6 has a built-in 3.5-inch color LCD that can display measured values both numerically and on colored graphs, for easier visualization of results.

The CM-M6 is a compact, lightweight, multi-angle spectrophotometer. Incorporating a new patented 'double-path optical system', it exhibits outstanding versatility in various measuring applications.

## Multi-angle measurements (1 light source, 6 viewing angles)



Illumination angle: 45°

Aspecular viewing angles: -15°, 15°, 25°, 45°, 75°, 110°

\* These 6 viewing angles make it possible to detect metallic and pearl colors with higher accuracy than previous spectrophotometers.

### **Double-path optical system**

The CM-M6 has duplicate illumination/viewing systems symmetrical about its center axis. This system ensures high measuring stability even when the instrument is slightly tilted and makes it possible to stably measure R300 curved surfaces like side mirrors.



## **Compact, lightweight, vertical format**



The compact body (with hand strap) can be stably held with one or two hands. Moreover, it is loaded with features ideal for measuring vehicle exteriors such as a rubber cover around the measurement aperture to safeguard measurement subjects against scratching and Bluetooth® support (option) for sending measurement data to remote devices over wireless connections.

## **Ø6 mm diameter viewing beam for measuring small surfaces**

The viewing beam is 6 mm in diameter, so small surfaces that were hard to measure with earlier models can be stably measured.







## (Option) Color Data Software SpectraMagic DX (Version. 1.2) **Professional Edition Lite Edition**



The new Color Data Software SpectraMagic DX enables easy management of data measured with the CM-M6, and offers a new Instrument

 $\begin{array}{ll} \mbox{Diagnosis function to help ensure continued high instrument performance.} \\ \mbox{OS} & : & \mbox{Windows® 7 Pro 32-bit/64-bit (Windows®7 SP-1 or later)} \\ \mbox{Windows® 8.1Pro} & \mbox{32-bit/64-bit,} \end{array}$ 

Windows® 10 Pro 32-bit / 64-bit Intel® Core i5 2.7GHz or higher (reco

At least 2 GB (4 GB or more recommended) 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

Display hardware capable of displaying 1,280 x 768 pixels/16-bit color or better Two USB ports required for protection key if used. Not necessary for electronic license

USB or serial port required for connection to instrument.

CM-M6, CM-25cG, CM-2500c, CM-700d, CM-600d, CM-2500d, CM-2600d, CM-3700A, CM-3700A-U,

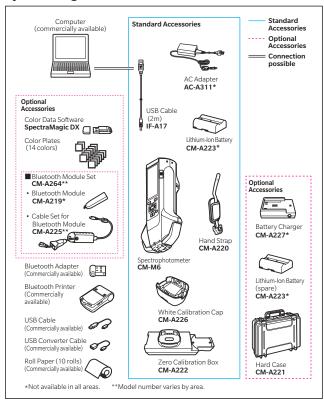
CM-3700d, CM-3600A, CM-3610A, CM-5, CR-5

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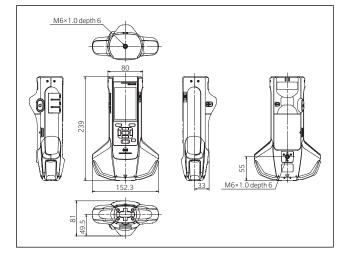
#### **Main Specifications**

Model	Spectrophotometer CM-M6
Illumination/viewing system	45° illumination : -15°/15°/25°/45°/75°/110° aspecular viewing angles with double-path technology
Detector	Dual 40-element silicon photodiode arrays
Spectral separation device	Linear variable filter
Wavelength range	400-700 nm
Wavelength pitch	10 nm
Measurement range	6 angles: 0-600%; Output/display resolution: 0.01 %
Light source	High-CRI white LED
Measurement time	Approx. 4.5 seconds
Minimum measurement interval	Approx. 5 seconds
Battery performance	Approx. 1,500 measurements/charge (at 10-second intervals at $23^{\circ}$ C)
Measurement/ illumination area	Ø6 mm/Ø12 mm
Repeatability	Chromaticity value :Standard deviation within $\Delta$ E*ab 0.05 (When a white calibration plate is measured 30 times at 10-second intervals after white calibration)
Inter-instrument agreement	Within $\Delta E^*$ ab 0.2 (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 User illuminant (simultaneous evaluation with two illuminants possible)
Displayed data	Colorimetric values, color-difference values/graph, line graph (colorimetric/color-difference values), pass/fail judgement
Colorimetric data	L*a*b*, L*C*h
Indexes	MI, FF value (Flop value)
Color-difference formula	ΔΕ*ab (CIE 1976), Δ(L*a*b*), Δ(L*C*H*), CMC (I:c), ΔΕ*94 (CIE 1994), ΔΕ00 (CIE DE2000), ΔΕ(DIN 6175), ΔΕ99ο(DIN 99ο), ΔΕ(Audi 2000)
Data memory	Target data: 200 measurements; Sample data: 800 measurements
Pass/Fail judgement	Tolerances can be set for color-difference values
Displayed languages	Japanese, English, German, French, Italian, Spanish, Chinese (Simplified), Portuguese, Russian, Turkish, Polish
Display	3.5-inch TFT color LCD
Interfaces	USB2.0, Bluetooth (Option)
Power	Rechargeable lithium-ion battery (removable), dedicated AC adapter
Charging time	Approx. 5 hours when no charge remains
Operation temperature/ humidity range	0-40 °C, relative humidity is 85% or less (at 35 °C) with no condensation
Storage temperature/ humidity range	-20-45 °C, relative humidity is 85% or less (at 35 °C) with no condensation
<u> </u>	
Size (W×H×D)	Approx. 152 × 239 × 81 mm

#### **System Diagram**



#### Dimensions (Units: mm)



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Osaka, Japan

- The specifications and appearance shown herein are subject to change without notice



#### **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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