Main Specifications

- **Model**: Spectrophotometer CM-M6
- **System Diagram**

**Weight**: Approx. 1.1 kg (Including battery)

**Size (W×H×D)**: Approx. 152 × 239 × 81 mm

**Humidity range**: 20-90% RH (at 35°C) with no condensation

**Storage temperature/humidity range**: 0-40°C, relative humidity is 80% or less (at 35°C) with no condensation

**Charging time**: Approx. 5 hours when no charge remains

**Power**: Rechargeable lithium-ion battery (removable), dedicated AC adapter

**Interfaces**: USB2.0, Bluetooth (Option)

**Displayed languages**: Japanese, English, German, French, Italian, Spanish, Chinese (Simplified), Portuguese, Russian, Turkish, Polish

**Pass/Fail judgement**: Tolerances can be set for color-difference values, pass/fail judgement

**Data memory**: Target data: 200 measurements; Sample data: 800

**Color-difference indexes**: MI, FF value (Flop value)

**Colorimetric data**: L*a*b*, L*C*H*

**Displayed data**: Colorimetric values, color-difference values/graph, line graph

**Illuminant**: A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12

**Observer**: 2° or 10° Standard Observer

**Agreement**: Inter-instrument agreement.

**Repeatability**: Chromaticity value: Standard deviation within ΔE*ab 0.05 when a white calibration plate is measured 30 times at 10-second intervals after white calibration

**Measurement/illumination area**: Ø6 mm/Ø12 mm

**Measurement range**: 0-600%; Output/display resolution: 0.01%

**Wavelength pitch**: 10 nm

**Wavelength range**: 400-700 nm

**Device**: Linear variable filter

**Detector**: Dual 40-element silicon photodiode arrays

**Light source**: High-CRI white LED

**Measurement time**: Approx. 4.5 seconds

**Measurement range/area**: Ø6 mm/Ø12 mm

**Minimum measurement time**: Approx. 5 seconds

**Measurement conditions**:

- 23°C ± 5°C
- 75% RH or less

**Battery performance**: Approx. 1,500 measurements/charge (at 10-second intervals)

**Minimum measurement time**:
- 10 seconds

**Lighting/viewing system**: 45° illumination: -15°/15°/25°/45°/75°/110° aspecular

**Dimensions (Units mm)**:

- **Width**: 331
- **Height**: 152
- **Depth**: 49.5

**Accuracy**:

- 2° observers: ±(ΔE*ab 0.05)

**Accessories**:

- **Optional**
  - Bluetooth Printer
  - Bluetooth Adapter
  - Bluetooth Module
  - Cable Set for Bluetooth Module

- **Color Data Software**
  - SpectraMagic DX

- **Roll Paper**: (10 rolls)

- **USB Converter Cable**: (Commercially available)

- **USB Converter for Bluetooth Module**: (Commercially available)

- **White Calibration Cap**: (Commercially available)

- **Hand Strap**: CM-A230

- **Battery Charger**: CM-A227*

- **Lithium-Ion Battery**: CM-A223*

- **AC Adapter**: AC-A311*

- **USB Cable**: IF-A17 (2m)

- **USB Converter Cable**: CM-A225

- **CM-M6×1.0 depth 63mm**

**SAFETY PRECAUTIONS**

- For your safety and the safety of others, be sure to read the instruction manual before using the instrument.
- Please connect the instrument to the specified power supply voltage. Improper connection may cause a fire or electric shock.
- Do not use the specified batteries. Using improper batteries may cause a fire or electric shock.

*Not available in all areas.

**High precision, multi-angle model for measuring automotive exteriors from 6 angles!**

**Innovative “double-path optical system” enables stable measuring even on curved surfaces!**

**Compact, lightweight vertical format designed for measuring vehicle exteriors!**

**60 mm diameter viewing beam for measuring small surfaces!”**
The CM-M6 is a compact, lightweight, multi-angle spectrophotometer. Incorporating a new patented 'double-path optical system', it exhibits outstanding versatility in measuring automotive exteriors.

**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.

**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.

**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 colorimeter is slightly tilted and makes it possible to stably measure R300 curved surfaces like side mirrors.

**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.

**Color Data Software SpectraMagic DX (Option)**

Professional Edition (Version 1.0)

The new Color Data Software SpectraMagic DX enables easy management of data measured with the CM-M6, and offers a new Instrument Diagnosis function to help ensure continued high instrument performance.

**OS**
Windows® 7 Professional 32-bit / 64-bit,
Windows® 8.1 Professional 32-bit / 64-bit,
Windows® 10 Professional 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**
At least 10 GB of available hard disk space is required on the system drive to run the software installation for databases.

**Display**
Display hardware capable of displaying 1,280 x 768 pixels/16-bit color or better

**Other**
Two USB ports required for protection key if used. USB or serial port required for connection to instrument.

**Compatible Instruments**
CM-25cG, CM-M6, CM-2500c

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*Windows® is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.*

*Intel® Core is a trademark or registered trademark of Intel Corporation in the United States and other countries.*
Main Specifications

System Diagram

Dimensions (Units : mm)

SAFETY PRECAUTIONS

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