



KONICA MINOLTA



Spectrophotometer CM-M6

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



Display examples

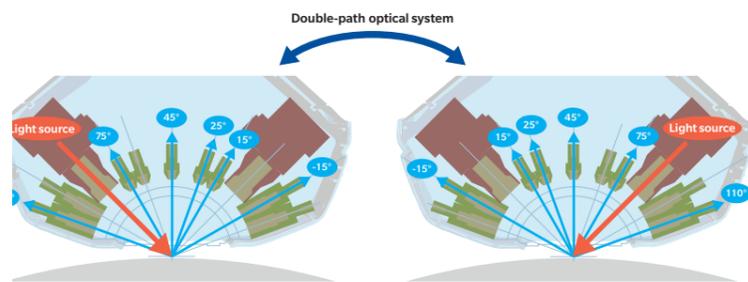


The CM-M6 has a built-in 3.5-inch color LCD that can display measured values both numerically and on colored graphs, for easier visualization of results.

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 differences in 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.

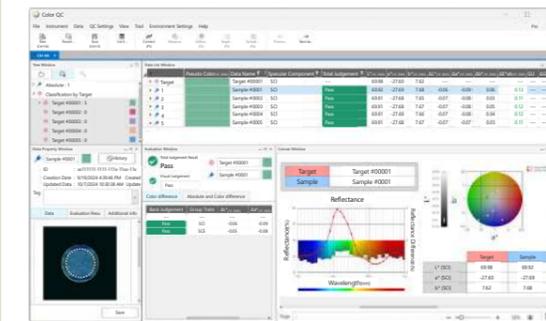
Ø6 mm diameter viewing beam for measuring small surfaces

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



(Option) Color Data Software SpectraMagic NX2

SpectraMagic NX2 is color management software that gives users a customizable screen display and a wide range of functions for operating and configuring their spectrophotometers or Chroma Meter from a computer. Users can display data lists and create color difference graphs and spectral graphs to assist in color management that requires judgment based on numerous values and indicators.



You can see the details in the catalog from the following 2D code. ↓

[SpectraMagic NX2 web Site](#)

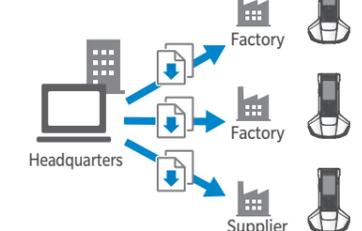


Spectrophotometer Configuration Tool CM-CT1 Ver.1.5 or later

The CM-CT1 gives manufacturers the means for easily and quickly setting up their CM-M6 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



Spectrophotometer Configuration Tool CM-CT1

- OS: Windows® 11 Pro ● CPU: Intel® Core i5 2.7 GHz or higher processor (recommended)
- Memory: 2 GB or more (4 GB or more recommended) ● Storage: 10 GB or more
- Other: USB port (For connecting to spectrophotometers and SpectraMagic NX2 dongle)

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

Main Specifications

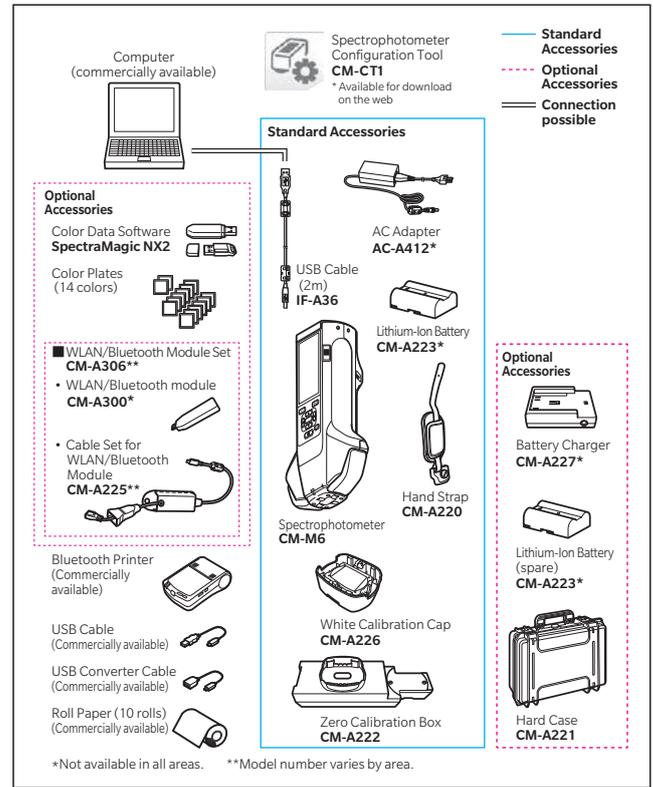
Model	Spectrophotometer CM-M6
Illumination/ viewing system	45° illumination : -15°/15°/25°/45°/75°/110° aspecular viewing angles with double-path technology
Detector	Dual 40-element silicon photodiode arrays
Spectral separation device	Linear variable filter
Wavelength range	400 nm to 700 nm
Measurement wavelength pitch	10 nm
Reflectance range	6 angles: 0-600%; Output/display resolution: 0.01%
Light source	High-CRI white LED
Measurement time	Approx. 4.5 s
Minimum measurement interval	Approx. 5 s
Battery performance	Approx. 1,500 measurements/charge (at 10-second intervals at 23°C)
Measurement area/illumination area	Ø6 mm/ Ø12 mm
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)
Inter-instrument agreement	Within ΔE^*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)
Display	3.5-inch TFT color LCD
Interface	USB 2.0; WLAN (IEEE 802.11 b/g/n)/Bluetooth (Ver.4.1, SPP-compatible)*1 *2
Observer	2° Standard Observer, 10° Standard Observer
Illuminant	A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12, D50, D65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2, User-configured illuminant *3 (Max. 3 types) (simultaneous evaluation with two illuminants possible)
Display items	Colorimetric values, color-difference values/graph, line graph (colorimetric/color-difference values), pass/fail judgement
Color spaces	L*a*b*, L*C*h
Indices	M1, FF value (Flop value)
Color difference equations	ΔE^*ab (CIE1976)/ ΔE^*94 (CIE1994)/ ΔE_{00} (CIE DE2000)/ CMC (l:c)/ $\Delta(L^*a^*b^*)$ / $\Delta(L^*C^*H^*)$ / ΔE (DIN 6175)/ ΔE_{99a} (DIN99a)/ ΔE (Audi2000)
Display languages	English/ German/ French/ Italian/ Spanish/ Chinese (Simplified)/ Portuguese/ Russian/ Turkish/ Polish/ Japanese
Data memory	200 target data + 800 sample data
Pass/Fail judgement	Tolerances can be set for color-difference values
Power	AC power supply Dedicated AC adapter(with lithium-ion battery installed)
	Battery Dedicated Lithium-ion battery (removable)
Charging time	Approx. 5 h
Size	Approx. 152(W) × 239(H) × 81(D) mm
Weight	Approx. 1.1 kg (with lithium-ion battery installed)
Operation temperature/humidity range	Temperature: 0 to 40°C; Relative humidity is 85% or less (at 35°C) with no condensation
Storage temperature/humidity range	Temperature: -20 to 45°C; Relative humidity is 85% or less (at 35°C) with no condensation

*1 Requires optional accessory WLAN/Bluetooth module (CM-A300).

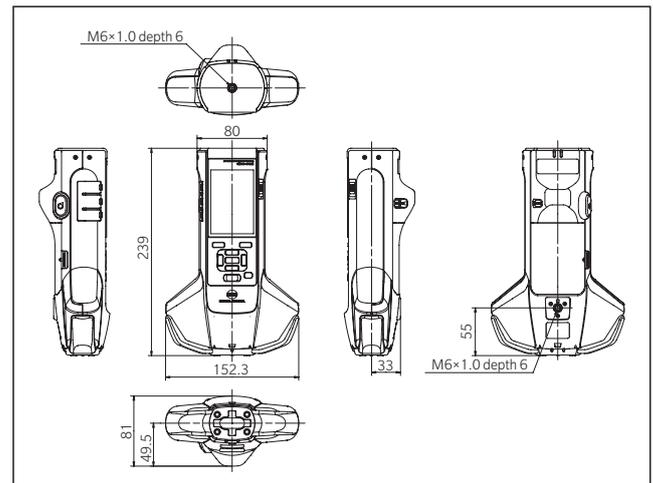
*2 WLAN security supports WPA2-PSK (WPA2-Personal) and WPA-PSK (WPA-Personal) for the AdHoc method, and WPA3-PSK (WPA3-Personal), WPA2-PSK (WPA2-Personal) and WPA-PSK (WPA-Personal) for the Infrastructure method.

*3 Optional Color Data Software SpectraMagic NX2 Pro (Ver.1.3 or later) is required for setting user-configured illuminants.

System Diagram



Dimensions (Units : mm)



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- Bluetooth® is a registered trademark of Bluetooth SIG, Inc. and is used under license agreement.
- Displays shown are for illustration purpose only.
- 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.

ISO Certifications of KONICA MINOLTA, Inc., Sakai Site

JQA-QMA15888
Design, development, manufacture/
manufacturing management, calibration, and
service of measuring instruments

JQA-E-80027
Design, development, manufacture, and sales
of measuring instruments

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