KONICA MINOLTA

DESIGN AWARD 2018

GERMAN DESIGN AWARD 2019

Spectrophotometer CM-M6

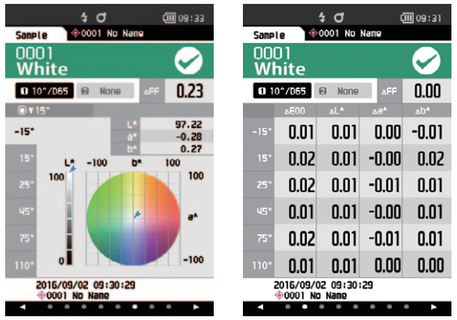
4

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

The Standard in Measuring Color & Light

Giving Shape to Ideas

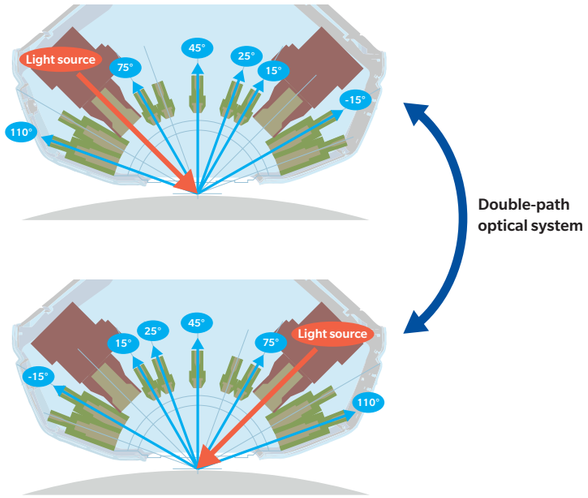
Display examples



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.

New! (from December, 2017)

DIN 99o and Audi 2000 have been added as new color-difference formulas commonly used in automotive industry.

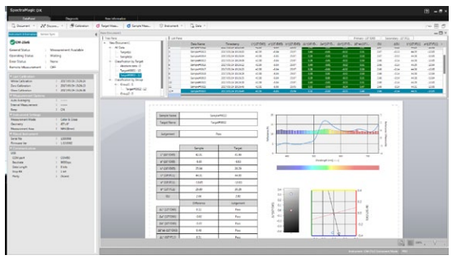
Compact, lightweight, vertical format

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 Diagnosis function to help ensure continued high instrument performance.

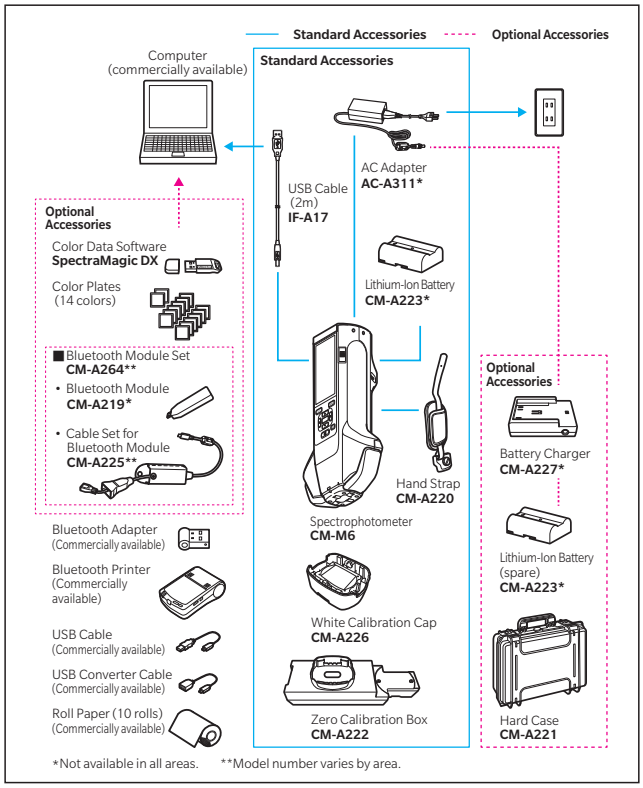
OS	:	Windows® 7 Pro 32-bit / 64-bit (Windows®7 SP-1 or later) Windows® 8.1Pro 32-bit / 64-bit, Windows® 10 Pro 32-bit / 64-bit
CPU	:	Intel® Core i5 2.7GHz or higher (recommended)
Memory	:	At least 2 GB (4 GB or more recommended)
Hard disk	:	20 GB of available hard disk space At least 10 GB of available disk space is required on the system drive (drive where the OS is installed) for database.
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. Not necessary for electronic license. USB or serial port required for connection to instrument.
Compatible Instruments	:	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

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

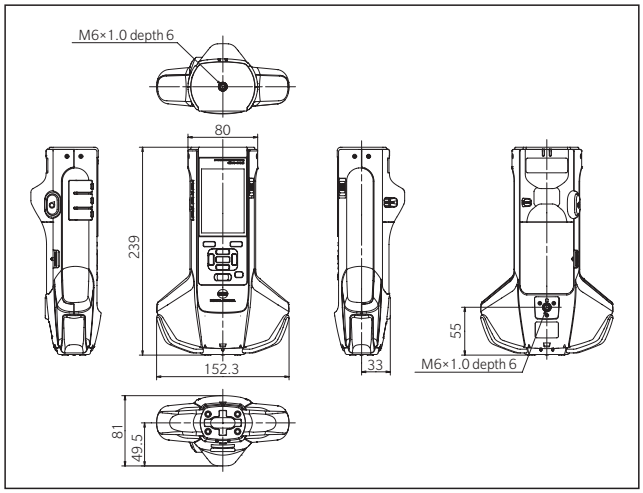
Main Specifications

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	400-700 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°C)
Measurement/ 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)
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	ΔE*ab (CIE 1976), Δ(L*a*b*), Δ(L*C*H*), CMC (l:c), ΔE*94 (CIE 1994), ΔE00 (CIE DE2000), ΔE(DIN 6175), ΔE99o(DIN 99o), ΔE(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
Size (W×H×D)	Approx. 152 × 239 × 81 mm
Weight	Approx. 1.1 kg (Including battery)

System Diagram



Dimensions (Units : mm)



- KONICA MINOLTA, the Konica Minolta logo and symbol mark, "Giving Shape to Ideas" and SpectraMagic are registered trademarks or trademarks of Konica Minolta, Inc.
- 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 9001
Certificate No.: JQA-QMA15888
Registration Date : October 26, 2018
KONICA MINOLTA, Inc., Sakai Site
Product design, manufacture/manufacturing management, calibration, and service

ISO 14001
Certificate No : JQA-E-80027
Registration Date : March 12, 1997
KONICA MINOLTA, Inc., Sakai Site

KONICA MINOLTA, INC.	Osaka, Japan			
Konica Minolta Sensing Americas, Inc.	New Jersey, U.S.A.	**Phone :** 888-473-2656 (in USA), 201-236-4300 (outside USA)		**Fax :** 201-785-2482
Konica Minolta Sensing Europe B.V.	European Headquarter /BENELUX	Nieuwegein, Netherlands	**Phone :** +31 (0) 30 248-1193	**Fax :** +31 (0) 30 24 81 211
	German Office	München, Germany	**Phone :** +49 (0) 89 4357 156 0	**Fax :** +49 (0) 89 4357 156 99
	French Office	Roissy CDG, France	**Phone :** +33 (0) 1 80 11 10 70	**Fax :** +33 (0) 1 80 11 10 82
	UK Office	Warrington, United Kingdom	**Phone :** +44 (0) 1925 467300	**Fax :** +44 (0) 1925 711143
	Italian Office	Cinisello Balsamo, Italy	**Phone :** +39 02849488.00	**Fax :** +39 02849488.30
	Swiss Office	Dietikon, Switzerland	**Phone :** +41 (0) 43 322-9800	**Fax :** +41 (0) 43 322-9809
	Nordic Office	Västra Frölunda, Sweden	**Phone :** +46 (0) 31 7099464	
	Polish Office	Wroclaw, Poland	**Phone :** +48 (0) 71 73452-11	**Fax :** +48 (0)71 734 52 10
	Turkish Office	Istanbul, Turkey	**Phone :** +90 (0) 216-528 56 56	**Fax :** +90 (0) 212-253 49 69
Konica Minolta (CHINA) Investment Ltd.	SE Sales Division	Shanghai, China	**Phone :** +86- (0)21-5489 0202	**Fax :** +86- (0)21-5489 0005
	Beijing Office	Beijing, China	**Phone :** +86- (0)10-8522 1551	**Fax :** +86- (0)10-8522 1241
	Guangzhou Office	Guangdong, China	**Phone :** +86- (0)20-3826 4220	**Fax :** +86- (0)20-3826 4223
	Chongqing Office	Chongqing, China	**Phone :** +86- (0)23-6773 4988	**Fax :** +86- (0)23-6773 4799
	Qingdao Office	Shandong, China	**Phone :** +86- (0)532-8079 1871	**Fax :** +86- (0)532-8079 1873
	Wuhan Office	Hubei, China	**Phone :** +86- (0)27-8544 9942	**Fax :** +86- (0)27-8544 9991
Konica Minolta Sensing Singapore Pte Ltd.		Singapore	**Phone :** +65 6563-5533	**Fax :** +65 6560-9721
Konica Minolta Sensing Korea Co., Ltd.		Goyang-si, Korea	**Phone :** +82 (0) 2-523-9726	**Fax :** +82 (0) 31-995-6511

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

9242-4843-20 BIMPK Printed in Japan