



KONICA MINOLTA

NEW

Spectrophotometer CM-700d/600d

Compact portable spectrophotometer with wireless communication and color LCD screen

Experience impressive color measurement!

A compact and lightweight instrument that allows fast measurement of samples which were previously difficult to control. With the CM-700d, measurements of shaped and round samples will finally be become easy and repeatedly controllable. Bluetooth® wireless data communication with a PC or a printer as well as the easy-to-read color LCD screen display brings color measurement to levels never experienced before!

Perfect design to fit in your hand

- Ergonomic, compact and lightweight
- Vertical alignment for easy positioning



Measure anywhere!

The tapered measuring head allows easy checking of the measurement position. Even concave surfaces can be measured with ease. The measuring aperture is selectable between 8 mm and 3 mm to perfectly fit to the sample size (CM-700d only)

Bluetooth® compatible!

Data can be sent to a PC or a mobile printer via Bluetooth® wireless communication. (USB communication is also possible.)

Easy-to-read color LCD screen!

The bright 2.36-inch TFT display shows color data and graphics in more detail and thus greatly improves operability.

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The essentials of imaging

Main specifications

Model	CM-700d	CM-600d
Illumination/viewing system	di: 8°, de: 8° (diffused illumination, 8-degree viewing angle), SCI (specular component included)/SCE (specular component excluded) selectable (Conforms to CIE No. 15, ISO 7724/1, DIN5033 Teil7, ASTM E 1164, and JIS Z 8722)	
Size of integrating sphere	Ø 40 mm	
Detector	Silicon photodiode array (dual 36-element)	
Spectral separation device	Diffraction grating	
Wavelength range	400 nm to 700 nm	
Wavelength pitch	10 nm	
Half bandwidth	Approx. 10 nm	
Light source	Pulsed xenon lamp (with UV cut filter)	
Measurement time	Approx. 1 second	
Battery performance	With alkaline dry batteries: Approx. 2,000 measurements With nickel-metal-hydride rechargeable batteries (2300 mAh): Approx. 2,000 measurements with full charge * Measured at 10-second intervals at 23°C; measurement fixed at SCI or SCE	
Measurement/illumination area	MAV: Ø 8 mm/ Ø 11 mm SAV: Ø 3 mm/ Ø 6 mm *Changeable by replacing target mask and selecting lens position	MAV: Ø 8 mm/ Ø 11 mm only
Repeatability	Spectral reflectance: Standard deviation within 0.1%, Chromaticity value: Standard deviation within ΔE^*_{ab} 0.04 * When a white calibration plate is measured 30 times at 10-second intervals after white calibration	
Inter-instrument agreement	Within ΔE^*_{ab} 0.2 (MAV/SCI) * Based on 12 BCRA Series II color tiles compared to values measured with a master body at 23°C	
Display	2.36-inch TFT color LCD	
Interfaces	USB1.1; Bluetooth® standard version 1.2*	
Displayed data	Spectral values/graph, colorimetric values, color difference values/graph, PASS/FAIL result, color patch, color assessment	
Color spaces	L*a*b*, L*C*h, Hunter Lab, Yxy, XYZ, Munsell, and color difference in these spaces (except for Munsell)	
Colorimetric data	MI, WI (ASTM E313), YI (ASTM E313-73/ASTM D1925), ISO Brightness, 8° gloss value	
Color difference formulas	ΔE^*_{ab} (CIE1976), ΔE^*_{94} (CIE1994), ΔE_{00} (CIE 2000), CMC (l:c)	
Storable data sets	Measurement data: 4,000 sets/Target color difference data: 1,000 sets	
Power	4 AA-size alkaline dry batteries or nickel-metal-hydride rechargeable batteries; , Special AC adapter	
Size	73 (W) x 211.5 (H) x 107 (D) mm	
Weight	Approx. 550 g (without white calibration cap and batteries)	
Operating temperature/ humidity range	5 to 35°C; relative humidity 80% or less with no condensation	
Storage temperature/ humidity range	0 to 45°C; relative humidity 80% or less with no condensation	

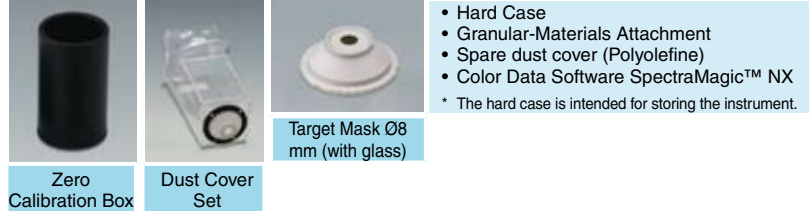
- * Applicable Bluetooth® profile: Serial Port Profile, Output: Bluetooth® Power Class 1
The communication distance may vary depending on the obstacles and radio wave conditions between the devices.
Successful wireless communication is not guaranteed with all Bluetooth®-ready equipment.
- Bluetooth® is a registered trademark of Bluetooth SIG, Inc. and is used under license agreement.

Standard accessories



[The package of the CM-700d includes two types of Ø8 mm and Ø3 mm target masks respectively.
The package of the CM-600d includes two types of Ø8 mm target masks.]

Optional accessories



Maintenance contract

Konica Minolta offers maintenance contract service in order to ensure long-term, reliable use of your instrument.

- The specifications and appearance shown here 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.

The specifications and drawings given here are subject to change without prior notice.
- If you have any questions about specifications, please contact your Konica Minolta representative.



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<http://konicaminolta.com/about/se/contact.html>