



Advanced functions for today's needs
Data consistency with past models





CM-36dG | CM-36dGV | CM-36d

Three models to choose from:

CM-36dG: Horizontal format model offering simultaneous color and gloss measurements, UV adjustment function.

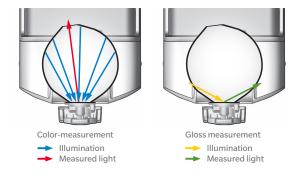
CM-36dGV: Vertical format model with same functions as CM-36dG for textile or paper measurements.

CM-36d: Basic model for spectral reflectance color measurements.



■ Two-in-one instruments for simultaneous color and gloss measurements

The CM-36dG and CM-36dGV are two-in-one spectrophotometers that can measure both color and gloss simultaneously. Simultaneous measurement of color and gloss increases work efficiency and can be used for advanced quality control or colormatching calculations.



■ Wavelength Analysis & Adjustment for high stability (Option*)

WAA (Wavelength Analysis & Adjustment; available with license purchase) provides worry-free, higher-reliability measurements and minimizes system problems by suppressing shifts in measurement values due to sudden temperature changes, etc. The data required for performing analysis and adjustment are obtained during white calibration, so no extra work is necessary.

* Option; License required. Please contact your local Konica Minolta distributor for more information.

■ High inter-instrument agreement and data consistency with previous models

The CM-36dG and CM-36dGV offer high inter-instrument agreement to allow higher work efficiency when using multiple units or units at multiple locations. Colorimetric inter-instrument agreement is within ΔE^* ab 0.12 (LAV/SCI), a 20% improvement compared to previous models, and gloss inter-instrument agreement is also the same or better than the performance of gloss-only instruments.

Inter-model agreement with the previous CM-3600A Series is also high, so the same target data can continue to be used, reducing the work required for switching to the CM-36dG Series (for SCI measurements).

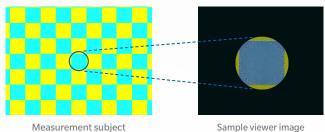


Contributes to digital quality control in the supply chain by providing high-precision simultaneous measurements of color and gloss.



■ High usability for improved productivity

- ✓ Status panel displays measurement status and condition settings to reduce operator mistakes.
- ✓ Measurements can be performed using the measuring button on the instrument, improving operability when taking a series of measurements.



Sample viewer image

- ✓ Sample viewer function* allows software to show the view from inside the instrument, making sample positioning easier.
 - * SpectraMagic NX or other software required.

■ Color Data Software SpectraMagic NX

SpectraMagic NX is color management software that gives users a plethora of functions for viewing data and for operating and configuring their spectrophotometers from a computer. Users can customise templates and reports by arranging and editing spectral graphs, color difference graphs (2D, 3D), PASS/FAIL indications and other objects to suit their needs.

SpectraMagic NX Ver. 3.2 or later ● OS: Windows® 8.1 Pro 32 bit, 64 bit / Windows® 10 Pro 32 bit, 64 bit

* The computer must be running one of the above OS and meet or exceed the below specifications.

CPU: Pentium® III 600 MHz $equivalent\ or\ faster\ \bullet\ Memory: 128\ MB\ or\ more\ (256\ MB\ or\ more\ recommended)\ \bullet\ Hard\ disk: 450\ MB\ or\ more\ of\ free\ space\ for\ installation$ ● Display: Resolution: 1,024 x 768 pixels or more/ 16-bit colors or more ● Other: DVD-ROM drive (for software installation), USB port (for entering the protection key), USB or serial port (for connecting to spectrophotometers) and Internet Explorer Ver. 5.01 or later installed $OW indows @is\ a\ trademark\ or\ registered\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium@is\ a\ trademark\ of\ Microsoft\ Corporation\ in\ the\ USA\ and\ other\ countries.\ OPen tium\ open\ open\$ or registered trademark of Intel Corporation in the USA and other countries.



■ Handles a wide variety of measurement subjects

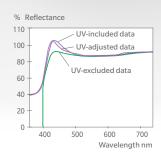
- ✓ Target masks for 4 measurement areas can be selected according to the sample size.
- ✓ Transmittance chamber opens widely to allow measurement of even large samples. Sheets, etc. can be set in position from the side without having to cut them.





■ UV adjustment for accurate measurements of fluorescent materials

Accurate measurement of materials such as paper or cloth treated with fluorescent whitening agents (FWA) requires precise control of the UV component and its effects. The Numerical UV Control method used by the CM-36dG and CM-36dGV provides such control by combining results from flashes of two xenon lamps (one with full UV energy, the other with UV energy removed by a 400 nm or 420 nm UVcutoff filter) using proprietary calculations. This method eliminates the need for mechanical filter positioning, and enables UV adjustment by Whiteness Index, Tint, Brightness, or UV profile.



■ CM-36dGV

CM-36dGV provides the same functions as the CM-36dG in a vertical format for textile or paper measurements.



Multipurpose

■ CM-36dG Series spectrophotometers can be used in a wide range of industries.

Paint, plastics, textile, glass, film, etc.



■ Performance by model

		CM-36dG	CM-36dGV	CM-36d	
	Reflectance (SCI/SCE)	•	•	•	
	Transmittance	•	•	_	
Color	Measurement area	LAV, LMAV	LAV, MAV, SAV		
	UV condition setting	100%, 0%	100%		
	Repeatability	≤0.02 ≤0.02		≤0.03	
	Inter-instrument agreement (LAV, SCI)	≤0.12	≤0.12	≤0.15	
Gloss	60° gloss measurements	•	•	_	
	Measurement area	MAV	-		
Instrument format		Horizontal	Vertical	Horizontal	

-				CM-36dG	_		CM-36dG	V		CM-36d		
	Illumination/	Reflectance		3°, de: 8° (diffused illur			CI (specular com	ponent included)/SCI	 E (specular componen IS Z 8722 Condition c	t excluded) switchab	le	
	viewing system	Transmittance	di:0°, de:0° (diffused illumination, 0° viewing) Conforms to CIE No.15 (2004), ASTM E1164, DIN 5033 Teil7, JIS Z 8722 Condition g standard									
	Size of integrating	sphere	Ø152 mm (6 inches)									
	Detector		Dual 40-element silicon photodiode arrays									
	Spectral											
	separation device		Diffraction grating									
	Wavelength range		360 to 740 nm					740 nm				
	Wavelength pitch		10 nm									
	Half bandwidth		Approx. 10 nm									
	Reflectance range		0 to 200%; Resolution: 0.01%									
Color	Light source			Pulsed xenon lamps × 3 (2 with UV cut filters)					Pulsed xenon lamp × 1			
			LAV	LMAV	MA	/	SAV	Transmittance	LAV	MAV	SAV	
	Illumination area		Ø30 mm	Ø20 mm	Ø11 n	nm	Ø7 mm	Ø24 mm	Ø30 mm	Ø11 mm	Ø7 mm	
	Measurement area		Ø25.4 mm	Ø16 mm	Ø8 m	m	Ø4 mm	Ø17 mm	Ø25.4 mm	Ø8 mm	Ø4 mm	
	Repeatability		Colorimetric values : Standard deviation within ∆E*ab 0.02 Spectral reflectance : Standard deviation within 0.1% (When a white calibration plate is measured 30 times at 10-second intervals after white calibration)				Colorimetric values : Standard deviation within △E*ab 0.0 Spectral reflectance : Standard deviation within 0.1% (When a white calibration plate is measured 30 times at 10-second intervals after white calibration)					
	Inter-instrument agreement	t	$Within \Delta E^{+}ab 0.12 \\ (Based on average for 12 BCRA Series II color tiles; LAV/SCI. Compared to values measured with a master body under Konica Minolta standard measurement conditions)$					Within △E*ab 0.15 (Based on average for 12 BCRA Series II color tiles; LAV/ SCI. Compared to values measured with a master body under Konica Minolta standard measurement conditions				
	UV setting		100% / 0% / Adjusted (Instantaneous numerical adjustment of UV with no mechanical filter movement required)"; 400 nm and 420 nm UV cutoff filters					No adjustment function (UV100%)				
	Measurement ar	ngle	60°				_					
Gloss	Light source		White LED				_					
	Detector			Silicon photodiode					_			
	Measurement ra	inge	0-200 GU; Resolution: 0.01 GU				-					
	Measurement ar	rea	MAV (LAV/LMAV/MAV color measurement area): 10×8 mm ellipse SAV (SAV color measurement area): Ø3 mm				_					
	Repeatability		Standard deviation within 0 to 10 GU: 0.1 GU 10 to 100 GU: 0.2 GU 100 to 200 GU: 0.2% (When measured 30 times at 10-second intervals)					-				
	Inter-instrumen	t agreement	(MAV. Compared to	0 to 10 GU: ±0.2 GU 10 to 100 GU: ±0.5 GU (MAV. Compared to values measured with a master body under Konica Minolta standard conditions)					_			
	Geometry		JIS Z 8741 (MAV), JIS K 5600, ISO 2813, ISO7668 (MAV), ASTM D523-08, ASTM D2457-13, DIN 67530					_				
Measurement time		Approx. 3.5 second (SCI+SCE measurement) Approx. 4 second (SCI+SCE+GLOSS measurement)					_					
Minimum interval between measurements		Approx. 4. second (SCH-SCE measurement) Approx. 4.5 second (SCH-SCE+GLOSS measurement)					Approx. 4 second (SCI+SCE measurement)					
Sample	viewer function			•			Using inter	nal camera. ware such as Spectral	Magic NX Ver. 3.2 or la	ter		
Interna	l Performance Che	eck*2		nag	,		• .	& Adjustment) Techr		· ·		
Interfac						.,	,	32.0	3,			
	mask auto detection	on						es				
Power			Dedicated AC adapter									
	ing temperature /	humidity range		Ten	mperature:	13 to 33°C. R			with no condensation	1		
-	e temperature / hu				•		-		with no condensation			
Size (W×H×D)		Approx. 248×250×498 mm				_						
Weight			prox. 8.4 kg			Approx.14.0			Approx.8.3 kg			
Standard Accessories		White Calibration LMAV, MAV, SAV); Calibration Box; US	n Plate; Target Masks (Gloss Calibration Plate SB Cable (2 m); AC Ada ssory Case; Cleaning (e; Zero apter;	LMAV, MAV Calibration	ibration Plate; Ta , SAV); Gloss Cali Box; USB Cable (irget Masks (LAV, ibration Plate; Zero (2 m); AC Adapter; se; Cleaning Cloth	White Calibration Plate; Target Mask SAV); Zero Calibration Box; USB C AC Adapter; Dust Cover; Access		able (2 m);		
Optional Accessories		Color Data Software SpectraMagic NX; Transmittance Specimen Holder; Cells (Glass; 2 mm, 10 mm, 20 mm); Plastic Cells (2 mm, 10 mm, 20 mm); Transmittance Zero Calibration Plate; Color Plates			Color Data Software SpectraMagic NX; Transmittance Zero Calibration Plate; Opacity Jig; Color Plates			Color Data Software SpectraMagic NX; Color Plates				

- *1 Numerical adjustment of UV requires UV Adjustment Software (included with optional SpectraMagic NX Pro Ver. 3.2 or later)
- *2 WAA license purchase required.
- Windows® is a trademark or registered trademark of Microsoft Corporation in the USA and other countries.
 KONICA MINOLTA, the Konica Minolta logo and symbol mark, "Giving Shape to Ideas" and SpectraMagic™ are registered trademarks or trademarks of KONICA MINOLTA, INC.
 Displays shown are for illustration purposes 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. Osaka, Japan



The latest catalog can be found

Catalog appendix (accessories, dimensions, etc.):







KONICA MINOLTA, INC. Konica Minolta Sensing Americas, Inc. Konica Minolta Sensing Europe B.V.

Konica Minolta (CHINA) Investment Ltd.

New Jersey, U.S.A. European Headquarter /BENELUX German Office French Office UK Office Italian Office Swiss Office Nordic Office Polish Office Turkish Office SE Sales Division Beijing Office Guangzhou Office Chongqing Office Qingdao Office Wuhan Office Konica Minolta Sensing Singapore Pte Ltd.

München, Germany Roissy CDG, France Warrington, United Kingdom Cinisello Balsamo, Italy Dietikon, Switzerland Västra Frölunda, Sweden Wroclaw, Poland Istanbul, Turkey Shanghai, China Beijing, China Guangdong, China Chongqing, China Shandong, China Hubei, China Singapore Goyang-si, Korea

Phone : 888-473-2656 (in USA), 201-236-4300 (outside USA) Nieuwegein, Netherlands **Phone :** +31(0)30 248-1193 Phone: +49(0)89 4357 156 0 Phone: +33(0)1 80 11 10 70 Phone: +44(0)1925 467300 Phone: +39 02849488.00 Phone: +41(0)43 322-9800 Phone: +46(0)31 7099464 Phone: +48(0)71 73452-11 Phone: +90 (0) 216-528 56 56 Phone: +86-(0)21-5489 0202 Phone: +86-(0)10-8522 1551 Phone: +86-(0)20-3826 4220 Phone: +86-(0)23-6773 4988 Phone: +86-(0)532-8079 1871 Phone: +86-(0)27-8544 9942 Phone: +65 6563-5533 Phone: +82(0)2-523-9726

Fax: 201-785-2482 Fax: +31(0)30 24 81 211 Fax: +49(0)89 4357 156 99 Fax: +33(0)1 80 11 10 82 Fax: +44(0)1925 711143 Fax: +39 02849488.30 Fax: +41 (0) 43 322-9809 Fax: +48 (0)71 734 52 10

Fax: +90 (0) 212-253 49 69 Fax: +86- (0)21-5489 0005 Fax: +86-(0)10-8522 1241 Fax: +86-(0)20-3826 4223 Fax: +86-(0)23-6773 4799 Fax: +86-(0)532-8079 1873 Fax: +86-(0)27-8544 9991 Fax: +65 6560-9721 Fax: +82(0)31-995-6511

Konica Minolta Sensing Korea Co., Ltd. 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