



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.

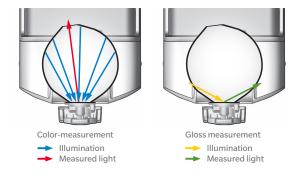
CM-36dGV: Vertical format model with same functions as CM-36dG for textile or paper measurements.

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).

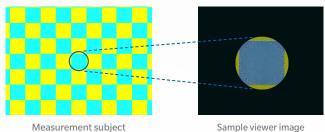


Contributes to digital quality control in the supply chain by providing high-precision simultaneous measurements of color and gloss.



■ 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

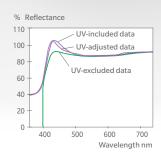
- ✓ Target masks for 4 measurement areas can be selected according to the sample size.
- ✓ Transmittance chamber opens widely to allow measurement of even large samples. Sheets, etc. can be set in position from the side without having to cut them.





■ 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	•	•	-
	Measurement area	LAV, LMAV	LAV, MAV, SAV	
Color	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, SAV		-
li	nstrument format	Horizontal	Vertical	Horizontal

				C14 2C4C		Ch4 2C-46	21		cu aca		
			d	CM-36dG li: 8° de: 8° (diffused illun	nination 8°	CM-36d0 viewing), SCI (specular con		F (specular compor	CM-36d nent excluded) switchabl	e	
	Illumination/ viewing system	Reflectance	Ĭ	Conforms to	CIE No.15 (2004), ISO7724/1, ASTM E ination, 0° viewing)					
		Transmittance	Conforms to			5033 Teil7, JIS Z 8722 Cond	ition g standard		_		
	Size of integrating s	sphere	Ø152 mm (6 inches)								
	Detector					Dual 40-element sili	con photodiode array	5			
	Spectral separation device					Diffracti	on grating				
	Wavelength range					360 to	740 nm				
	Wavelength pitch					10) nm				
	Half bandwidth				Approx. 10 nm						
	Reflectance range		0 to 200%; Resolution: 0.01%								
Color	Light source	Light source				with UV cut filters)			Pulsed xenon lamp × 1		
			LAV	LMAV	MAV	SAV	Transmittance	LAV	MAV	SAV	
	Illumination area		Ø30 mm	Ø20 mm	Ø11 mr		Ø24 mm	Ø30 mm	Ø11 mm	Ø7 mm	
	Measurement area		Ø25.4 mm	Ø16 mm	Ø8 mn	n Ø4 mm	Ø17 mm	Ø25.4 mm	Ø8 mm	Ø4 mm	
	Repeatability		(When a white c	Colorimetric values: Standard deviation within ΔE^* 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 AE*ab 0.03 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 ∆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 AE*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°				_				
	Light source		White LED				-				
	Detector		Silicon photodiode					_			
	Measurement ra	nge	0 to 200 GU; Resolution: 0.01 GU					_			
	Measurement ar	ea	MAV (LAV/LMAV/MAV color measurement area): 10 × 8 mm ellipse SAV (SAV color measurement area): Ø3 mm					_			
Gloss	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 inter			0.1 GU 0.2 GU 0.2%		-			
	Inter-instrument	t agreement	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, ISO 7668 (MAV), ASTM D523-08, ASTM D2457-13, DIN 67530					-			
Measurement time		SCI+SCE: Approx. 3.5 s SCI+SCE+GLOSS: Approx. 4 s Transmittance: Approx. 2.5 s UV-cut/UV-adjusted; SCI or SCE: Approx. 3 s					SCI+SCE: Approx. 3.5 s				
Minimum interval between measurements		SCH-SCE: Approx. 4 s SCH-SCE+GLOSS: Approx. 4.5 s Transmittance: Approx. 3 s UV-cut/UV-adjusted; SCI or SCE: Approx. 4 s					SCI+SCE: Approx.4s				
Sample	viewer function			lpan or	e viewabla /	Using inte copiable using optional soft	rnal camera.	Magic NIV Vor 2 2	later		
	l Performance Che	ck' ²		irnage	e viewabie/			_	iatel		
Interna		·un	WAA (Wavelength Analysis & Adjustment) Technology USB2.0								
Target mask auto detection		Ves									
Power		Dedicated AC adapter									
Operating temperature / humidity range		Temperature: 13 to 33°C, Relative humidity: 80% or less (at 33°C) with no condensation									
Storage temperature / humidity range		Temperature: 0 to 40°C, Relative humidity: 80% or less (at 35°C) with no condensation									
Size (W×H×D)		Approx	к. 248×250×498 mm		Approx. 300×677		Approx. 248×250×498 mm				
Weight			Approx. 8.4 kg		Approx.14.			Approx.8.3 kg			
Standard Accessories		White Calibrati LMAV, MAV, SAV Calibration Box; Dust Cover; Acc	e Calibration Plate; Target Masks (LAV, MAV, SAV); Gloss Calibration Plate; Zero tion Box; USB Cable (2 m); AC Adapter; Cover; Accessory Case; Cleaning Cloth		White Calibration Plate; Target Masks (LAV, LMAV, MAV, SAV); Gloss Calibration Plate; Zero Calibration Box; USB Cable (2 m); AC Adapter; Dust Cover; Accessory Case; Cleaning Cloth		White Calibration Plate; Target Masks (LAV, MAV, SAV); Zero Calibration Box; USB Cable (2 m); AC Adapter; Dust Cover; Accessory Case				
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		ls Cells ce	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.

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 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

 ${\sf ISO\ Certifications\ of\ KONICA\ MINOLTA,\ Inc.,\ Sakai\ Site}$

The latest catalog can be found



Catalog appendix



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