



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



Spectrophotometer

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.

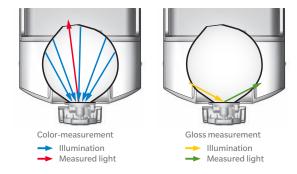
CM-36dGV: Vertical format model with same functions as CM-36dG for textile or paper measurements.

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).

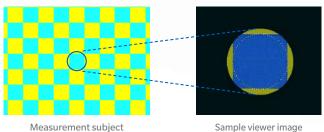


Contributes to digital quality control in the supply chain by providing high-precision simultaneous measurements of color and gloss.



■ 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.

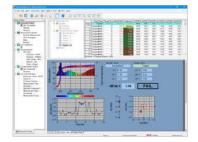
■ Color Data Software SpectraMagic NX

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

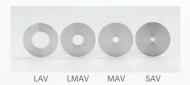
* The computer must be running one of the above OS and meet or exceed the below specifications.

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.
- ✓ The orientation of CM-36dG/CM-36d can be changed according to the measurement object.

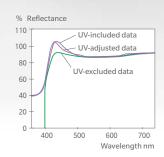






■ UV adjustment for accurate measurements of fluorescent materials

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		≤0.02	≤0.03
	Inter-instrument agreement (LAV, SCI)	≤0.12	≤0.12	≤0.15
	60° gloss measurements	•	•	_
Gloss	Measurement area	MAV, SAV		-
li	nstrument format	Horizontal	Vertical	Horizontal

				CM-36dG		CM-36dG	iV		CM-36d		
	Illumination/	Reflectance	di	i: 8°, de: 8° (diffused illumir		ving), SCI (specular com	ponent included)/SC		ent excluded) switchab	le	
	viewing system	Transmittance	G	di:0°, de:0° (diffu	used illuminat	ion, 0° viewing)		JIS Z 8722 Condition c standard			
	Size of integrating	enhoro	Conforms to	CIE No.15 (2004), ASTM E1	1 164, DIN 503	-	n (6 inches)				
	Detector	spriere					con photodiode arrays				
	Spectral							•			
	separation device						on grating				
	Wavelength range					360 to	740 nm				
	Wavelength pitch						nm				
	Half bandwidth		Approx. 10 nm								
	Reflectance range		0 to 200%; Resolution: 0.01% Pulsed xenon lamps × 3 (2 with UV cut filters) Pulsed xenon lamp × 1								
Color	Light source						-	1.007	Pulsed xenon lamp × 1	0.01/	
			LAV	LMAV	MAV	SAV	Transmittance	LAV	MAV	SAV	
	Illumination area		Ø30 mm	Ø20 mm	Ø11 mm	Ø7 mm	Ø24 mm	Ø30 mm	Ø11 mm	Ø7 mm	
	Measurement area		Ø25.4 mm	Ø16 mm	Ø8 mm	Ø4 mm	Ø17 mm	Ø25.4 mm	Ø8 mm	Ø4 mm	
	Repeatability		(When a white ca	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 ΔE*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				_			
Gloss	Measurement ra	inge	0 to 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-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		SCI+SCE: Approx. 4.s SCI+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 ann i	iouablo/cas		rnal camera.	Magic NV Vor 2 2 av	lator		
	l Performance Che	ock' ²		imagë v		able using optional soft A (Wavelength Analysi		_	iatel		
Interna		-un			VV		B2.0	lology			
		on					/es				
Target mask auto detection 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	. 248×250×498 mm		Approx. 300×677	•		Approx. 248×250×498 mm			
Weight			Approx. 8.4 kg		Approx.14.0		Approx.8.3 kg				
Standard Accessories		White Calibration LMAV, MAV, SAV, Calibration Box;	on Plate; Target Masks (LA\); Gloss Calibration Plate; Z USB Cable (2 m); AC Adapt cessory Case; Cleaning Clo	ero LMA ter; Cali	hite Calibration Plate; Ta AV, MAV, SAV); Gloss Ca bration Box; USB Cable st Cover; Accessory Ca	arget Masks (LAV, libration Plate; Zero (2 m); AC Adapter;	White Calibration Plate; Target Masks (LAV, SAV); Zero Calibration Box; USB Cable (2 AC Adapter; Dust Cover; Accessory Ca		able (2 m);		
Optional Accessories		Transmittance Sp mm, 10 mm, 20 m 20 mm); Transmi Calibration Gla	oftware SpectraMagic NX; pecimen Holder; Cells (Glass nm); Plastic Cells (2 mm, 10 r titance Zero Calibration Plat ss (for Petri Dish); Petri Dish for Petri Dish); Color Plates	mm, te; ı;	Color Data Software Sp Transmittance Speci Transmittance Zero Plate; Opacity Jig; C	men Holder; Calibration	Color Data Software SpectraMagic I Calibration Glass (for Petri Dish); Petri Dish; Target Mask (for Petri Dish); Co		ish);		

- $^{\star 1}\ \ Numerical\ adjustment\ of\ UV\ requires\ UV\ Adjustment\ Software\ (included\ with\ optional\ SpectraMagic\ NX\ Pro\ Ver.\ 3.2\ or\ later)$ $^{\star 2}\ \ WAA\ license\ purchase\ required.$

- Windows® is a trademark or registered trademark of Microsoft Corporation in the USA and other countries.
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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 cause a fire or electric shock. ISO Certifications of KONICA MINOLTA, Inc., Sakai Site

The latest catalog can be found

Catalog appendix (accessories, dimensions, etc.):



KONICA MINOLTA, INC.	Osaka, Japan				
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