KONICA MINOLTA

ColorCo.
GLOBAL

The world's first Benchtop Spectrophotometer capable of measuring Color and Luminance with unmatched levels of compatibility

COLOR SUITE

Color Match Prediction & QC Software

NEW Spektrofotometer

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

Three models to choose from:
CM-36dG Horizontal format model with simultaneous color and gloss measurements, UV adjustment function CM-36dGV Vertical format model with the same functions as CM-36dG for textile or paper measurements CM-36d Basic model for spectral reflectance color measurements

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TECHNICAL DETAILS

			CM-36dG	CM-36dGV	CM-36d
Color	Illumination / viewing system	Reflectance	di: 8°, de: 8° (diffused illumination, 8° viewing), SCI (specular component included)/SCE (specular component excluded) switchable Conforms to CIE No.15 (2004), ISO7724/1, ASTM E1164, DIN 5033 Teil7, JIS Z 8722 Condition c standard		
		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		
	Wavelength pitch		10 nm		
	Half bandwidth		Approx. 10 nm		
	Reflectance range		0 to 200%; Resolution: 0.01%		
	Light source		Pulsed xenon lamps × 3 (2 with UV cut filters)		Pulsed xenon lamp × 1
			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		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		Within ΔE*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 ΔE*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)*1; 400 nm and 420 nm UV cutoff filters		No adjustment function (UV100%)
Gloss	Measurement angle		60°		—
	Light source		White LED		—
	Detector		Silicon photodiode		—
	Measurement range		0-200 GU; Resolution: 0.01 GU		—
	Measurement area		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 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, 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 (SCI+SCE measurement) Approx. 4.5 second (SCI+SCE+GLOSS measurement)		Approx. 4 second (SCI+SCE measurement)
Sample viewer function			Using internal camera. Image viewable/copiable using optional software such as SpectraMagic NX Ver. 3.2 or later		
Internal Performance Check*2			WAA (Wavelength Analysis & Adjustment) Technology		
Interface			USB2.0		
Target mask auto detection			Yes		
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. 300×677×315 mm	—
Weight			Approx. 8.4 kg	Approx.14.0 kg	Approx.8.3 kg
Standard Accessories			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, 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 ColorSuite	Color Data Software ColorSuite;	Color Data Software ColorSuite

*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.

• Displays shown are for illustration purposes only.

• The specifications and appearance shown herein are subject to change without notice.

COLOR SUITE

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WHAT IS THE COLOR SUITE

WE PROVIDE EVERY FEATURE RELATED TO COLOR MEASUREMENT

ColorSuite is quality control, recipe calculation and archiving software.

It is widely used in laboratories and dyehouses. It also has the feature of being used in all spectrophotometers.

We offer quality control, recipe calculation and archiving in a single program in color applications.

QUALITY CONTROL

Calculating Color Differences

SMART RECIPE

Automatic Recipe Calculation

ARCHIVE

Ability to Scan Color and Recipe from the Archive

QUALITY CONTROL

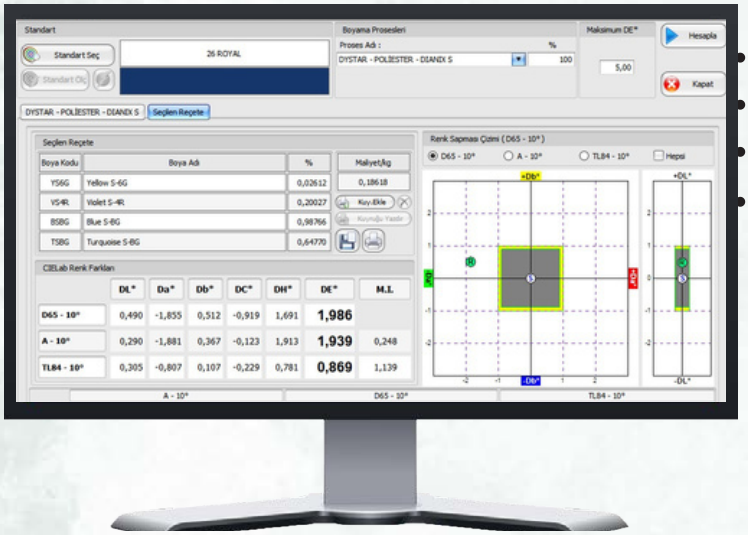
Single and Multi Color Comparison

Metamerism

Color Strength

Whiteness, Yellowness Analysis

Multifiber and Rubbing Staining Evaluation



"Quality control criteria are analyzed by entering pass/fail limits for DL-DA-DB and DE separately in all color spaces. In addition, it has the ability to see the attraction and strength differences of the same shades of 2 different paint companies."

Ability to look at opacity separately on black and white backgrounds and the ability to perform tests after rubbing and washing fastness

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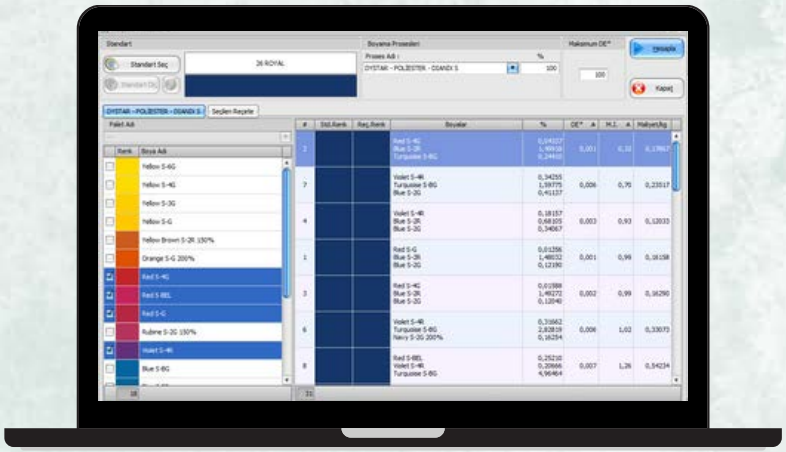
RECIPE CALCULATION



Automatic Recipe Calculation

Correction Prescription for Laboratory

Addition/Repair Recipe for Business

Manual Recipe Editing

Smart Recipe Feature

"It allows you to develop recipe solutions for dyehouse and laboratories. It speeds up your testing processes and provides you to see optimum results in prescriptions."

After easily adding the dyes given by the dye companies you work with to the system, using these dyes helps you to get recipes with the lowest error value.

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TECHNICAL DETAILS

- It provides the ability to encrypt user files by defining an unlimited number of users.
- Ability to impose usage restrictions on files and all functions.
- **Light Sources:** A, A_M&S, C, CWF, D50, D55, D65, D65_M&S, D65_SPL, D75, D75_SPL, F02, F07, F11, Hor_SPL, TL83, TL84, TL84_M&S, TL85, U30, U35, LED_U30, LEDT8G
- **Color Spaces:** CIELab, CIELch, CIE94 (1:1:1), CIE94 (2:1:1), CIE2000, CMC(1:1), CMC(2:1), HunterLab
- Import and export of color and paint files with QTX, DAT, EXP and MDB extensions
- Gray scale **ISO105-A04** Spotting and **ISO105-A05** Color Change
- Measuring yellowness under the indices: ASTM **D1925-70** and ASTM **E313-73**
- Ability to look at Whiteness / Optics under indices: CIE W.I. , ASTM E313 W.I. , GANZ W.I. , Berger W.I. , HARRISSON W.I. , STENSBY W.I. , STEPHANSES W.I. , TAUBE W.I.
- With its automatic backup feature, it keeps the files in the database.

WHAT IS THE COLORSUITE DIFFERENCE ?

We provide 10 years of free service support for the software

Special update option for you on the program

We define a lifetime (unlimited) license for you

Ability to work with all spectrophotometers

Ease of translating the software into different languages

We offer quality control, recipe calculation and archiving in a single program in color applications.

SPECTROPHOTOMETER MODELS CURRENTLY WORKİNG WİTH OUR PROGRAM

Datacolor 400
Minolta 3600d
Minolta 36dG
Datacolor DF 100

Datacolor 800
Minolta 3600a
Minolta 36dGV

Datacolor SF 600
Minolta 3700d
X-Rite Color i5

Datacolor 500-UV
Minolta 36 D
X-Rite Color i7

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