

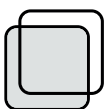


Color Matching Software

SpectraMagic™ CMS

Precision. Efficiency. Confidence in Color.

Full Edition
Standard Edition



Matching



Correction



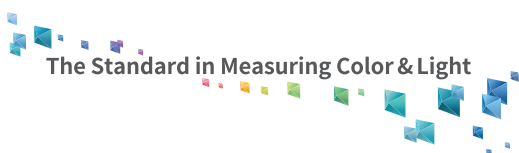
Database



Search



Waste
Handling



The Standard in Measuring Color & Light

Giving Shape to Ideas

Why Color Matching Software is Essential for Solving Color-Related Issues?

If color matching relies on manual adjustments and expert experience, it typically results in repeated trial-and-error, inconsistent results, and increased material waste.

With Color Matching software, you can:

- Achieve higher first-shot accuracy
- Reduce formulation cycles and rework
- Improve batch-to-batch consistency
- Optimize raw material usage
- Increase overall productivity

SpectraMagic™ CMS supports your color experts, making their work faster and more reliable while maintaining the essential role of visual evaluation.

Unified Color Control

Konica Minolta provides solutions and support on all aspects of color. By combining SpectraMagic™ CMS with our Quality Control software SpectraMagic™ NX2, professional color management can be achieved through a seamless workflow across connected applications. Our familiar design and straightforward instrument connection will make it easy for you to get started. If you have any questions about our instruments and software, our global support network will gladly assist you.



Color Control Solutions

SpectraMagic™ CMS
Color Matching Software



SpectraMagic™ NX2
Quality Control Software



Konica Minolta
Spectrophotometer



Improve Productivity. Reduce Costs. Achieve Perfect Color.

Our Solution: SpectraMagic™ CMS by Konica Minolta

SpectraMagic™ CMS integrates formulation and batch correction into a single powerful software platform.

Designed for plastics, paints and coatings, and other color-critical industries, SpectraMagic™ CMS delivers:

Advanced Features

- Powerful algorithm for opaque and translucent color matching
 - Local Delta E function for enhanced precision in challenging matches
 - Simultaneous calculation of color and opacity
 - Intelligent batch correction based on real pigment performance data
 - Continuous improvement through learning from laboratory and production samples
 - Simple workflow enabled by a user-friendly GUI
- Enables accurate and efficient color formulation across a wide range of materials while reducing trial-and-error and improving first-shot accuracy.

Konica Minolta Hardware Integration

- Seamless integration with Konica Minolta portable and benchtop spectrophotometers
 - Reliable and consistent measurement data transfer
- Ensures reliable data transfer and consistent measurement results, reducing errors and enabling stable color management across devices.

Total Support

- Dedicated Color Help Desk staffed by industry experts
 - Support for laboratory and production-related formulation challenges
 - Decades of color application experience
 - Practical, industry-specific expertise
- Provides expert support for complex color challenges, helping users reduce troubleshooting time and achieve reliable results faster.

Integrated Color Management Solution

- Pass/fail results at a glance
 - Easy organization of large volumes of data
 - Custom report creation capabilities
- Enables a seamless workflow from measurement and quality control to formulation, ensuring consistent data use across separate applications



Key Features



Simultaneous calculation of color and opacity



Flexible and adaptive software



Inclusion of the binder's intrinsic color in formulation



Improve the match result by adding laboratory and production samples



Convenient template function



Convenient additional binder calibration



Formulation possible on different substrates



Reduced formulation costs



Easily exclude restricted pigment combinations



Database function

Technical Specifications SpectraMagic™ CMS

Features Comparison

	SpectraMagic Full	SpectraMagic Standard
Formulation of opaque and translucent colors	●	●
Correction	●	●
Material leftover management	●	●
QC	NX2 Pro/Lite	NX2 Pro/Lite
History-based data utilization	●	●
Colorant definition	●	–
Database function	●	●
User Management	●	–

- Standard option available with core formulation features, for multi-client installations
- SpectraMagic™ CMS provides comprehensive formulation and color calculation capabilities designed for accurate and efficient color matching across various applications.

Main Features

Observer		2°, 10°
Color system color space		L*a*b*, L*C*h
Index		Metamerism Index, Contrast Ratio, GU
Color difference formula		ΔE*ab (CIE1976), ΔE00 (CIE DE2000), ΔE*94 (CIE 1994), CMC
Illuminant		A, C, D50, D65, F2, F11, D55, D75, F6, F7, F8, F10, F12, U50, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2
Features	Measurement	Reflectance measurement, SCI, SCE, simultaneous SCI/SCE measurement, Gloss measurement Viewfinder (CM-3700A Plus, CM-36d series, CM-17d), Manual averaging measurement
	Calculation modes	Color only, Simultaneous calculation of color and hiding power Formulation calculation for complete hiding, semi-transparent, and transparent finishes with thickness taken into account Formulation calculation utilizing leftover materials
	Data Set creation *Full Version Only	Calculation of the absorption coefficient and scattering coefficient for each material Material Priority Settings* Undesirable Material Combination Settings*
	Formulation calculation	Template creation Priority-based formulation calculation Formulation calculation considering undesirable material combinations Scoring and sorting High-accuracy matching through a hybrid of theoretical models and measured data Automatic base selection
	Correction calculation	Batch correction, new correction Formulation history management
	Data	Connection to a database
	Others	Report output (PDF), Data export (CxF)
Display languages		Japanese, English, German, French, Spanish, Italian, Portuguese, Chinese (Simplified and Traditional), Turkish, Russian, Polish, Korean

System Requirements^{*2}

OS	OS: Windows® 11 Pro
CPU	CPU: Intel® Core i5 2.7 GHz or higher processor (recommended)
Memory	Memory: 8 GB or more (16 GB or more recommended)
Storage	Storage: 20 GB or more of free space
Display resolution	Display: 1920×1080 or higher resolution recommended
Other	USB port: Required for dongle version Connection to external network: Required for activation Database: PostgreSQL 15 or later. For PostgreSQL system requirements, refer to the official PostgreSQL website.

^{*2}: The hardware of the computer system must meet or exceed the greater of the recommended system requirements for the compatible OS being used or the above specifications

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Product design, manufacture/manufacturing management, calibration and service



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