



KONICA MINOLTA

Colour Data Software

SpectraMagic NX2

Pro version

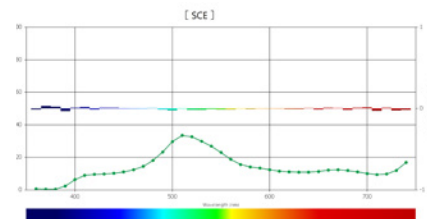
Lite version



Digital colour data management of measured colours

Graphs and data can be output to file

Target Name	Target #00001				
Sample Name	Sample #00001				
Specular Component	SCE				
L* (SCE)	36.06	ΔL* (SCE)	0.00		
a* (SCE)	27.44	Δa* (SCE)	0.02		
b* (SCE)	-56.14	Δb* (SCE)	0.00		
		ΔE*ab (SCE)	0.02		
Total Judgement	Pass				



Enhance reporting with additional data

▼ Example position and lot number

Tag: 20230718 × Lot1102 ×

Data		Evaluation Result	
User Defined Information			
Name	Value	Image	
lot	1102		
bumper	right		
color	RED		
Add		Delete	
Comment			
Measured under headlight (right)		Set image	Clear image

Classification by Target

- lot2 : 1
 - Target #01 : 4
 - Sample #02
 - Sample #03
 - Sample #04
 - Sample #05
 - Target #02 : 3
 - Sample #06

User friendly quality evaluation results

Evaluation Window

Total Judgement Result: **Pass** (Target #00001)

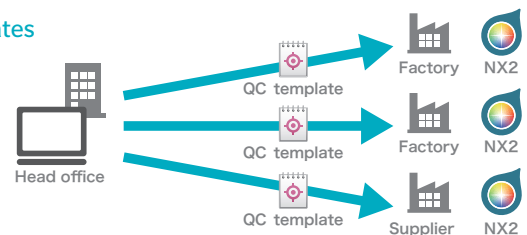
Visual Judgement: Sample #00001

Color difference: Absolute and Color difference

Bank Judgement	Group Traits	ΔL*(10/2,0/0)	Δa*(10/2,0/0)	Δb*(10/2,0/0)	ΔE*ab(10/2,0/0)
OK	SCE	0.00	0.00	0.00	0.00
OK	SCE	0.00	-0.01	0.00	0.01

Enables consistent colour management across sites & suppliers

* Using QC templates



Digital Colour Data Software

A New Solution for Specification, Approval and Quality Control

SpectraMagic™ NX2 is a modern software solution for digital colour data, developed to allow users a streamlined system for operating Konica Minolta colour measuring instruments, capturing, comparing and communicating colour data within the business and between supply chain partners. SpectraMagic™ NX2 offers users a far smoother experience than its predecessor SpectraMagic™ NX, with greatly improved performance for larger data sets.

Colour Measurement Data Should Relate Back to the Eyes of the Customer

SpectraMagic™ NX2 features integration of the visual judgement of the observer, customisable to business needs and processes. The importance of the visual judgement can be weighted in order to control its impact on QC assessments and colour difference data.



An Evolution of Colour Standards

Colour Targets/Standards generated in SpectraMagic™ NX2 using the new QC Template feature include measurement settings, allowing data owners or administrators to reduce the instance of data errors caused by operator errors or mis-configuration of measuring devices. This provides Brand owners with a greater degree of control built into the standards that they supply their supply chain.

Instrument Check App for Traceable Instrument Health

The Instrument Check App is a new feature to facilitate the short and medium term performance checking of measurement devices. It provides an additional level of certainty and accuracy for your measurement data in your daily operations. At any time you can now check and document the repeatability, reproducibility and light source output of your devices. This simplifies your work on ensuring traceability for internal controls and supply chain reporting. A regular check of your measurement devices between annual maintenance, provides you with the highest agreement of colour data across sites, partners and measuring instruments. The Instrument Check App is available with the premium licence of SpectraMagic™ NX2.

Colour in Context

For products that are commonly viewed in environments with custom lighting or effect lighting, the ability to use custom illuminant data provides organisations with colour data that incorporates this context in the measurement data. SpectraMagic™ NX2 can utilise any number of user illuminants, either measured with a spectroradiometer or imported from common formats e.g. Lr5 files.

Improve the Utility and Value of Colour Data

Improved Template System

SpectraMagic™ NX2 is built around a versatile canvas window which allows the organisation to customise what is displayed on the screen and the content of printed reports.

Deeper Integration and Customisation

Integration of user data within SpectraMagic™ NX2 allows the operator to create custom fields to track business specific information to templates and measurements, for example, including the dates that the standard must be re-approved, the name of the operator who made the visual judgement, the contact details of the customer, contact or project owner and much more.

User Equation Integration

A customisable user equation editor allows organisations to further improve the depth and utility of the reports that operators can generate by adding company or industry specific calculations.

User Management Implementation

Administrators can establish different user profiles and rules that disable functions or features in the software, preventing unauthorised users from making changes, accessing privileged information or reconfiguring devices.

Tag Data in Order to Track, Find and Sort Colour Data

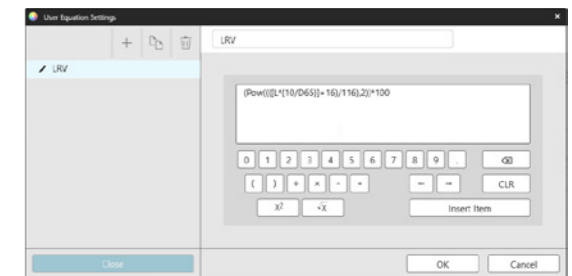
User generated data tags can assist operators with grouping and differentiation of products, samples, products, brands or projects within the system.

Export Data to .csv or Connect to Other Systems/Software

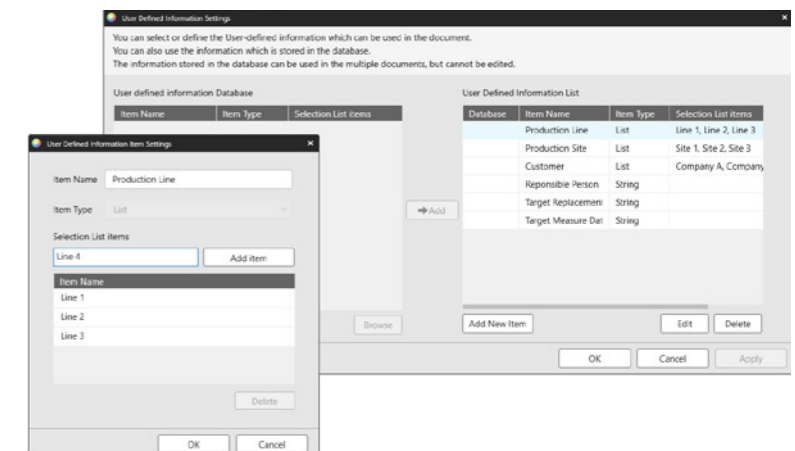
SpectraMagic™ NX2 provides straight forward simultaneous or batch data export to csv files and enhanced connectivity to additional software or systems including LIMS, stock systems, other analytical platforms and more.

Colour Help Desk: Our Team, Your Contact

Our Technical Support Team can help setup and configure the software plus troubleshoot any issues you may have. Contact them on colorhelpdesk@seu.konicaminolta.eu



The user equation editor can add custom or industry equations.



User defined information system can provide plant, organisation or sample specific data that is integrated to the reports to improve function and value.

For demonstrations and feature tutorials follow the QR code to SpectraMagic™ NX2 on YouTube



Compatible Instruments

Measuring instruments	Spectrophotometer CM-3700A Plus/CM-3700A-U Plus, CM-3700A ⁹ , CM-36dG/CM-36d/CM-36dGV, CM-3600A ⁹ /CM-3610A ⁹ , CF-300 ¹ , CM-5 ⁹ , CM-M6, CM-17d/CM-16d, CM-26dG/CM-26d/CM-25d/CM-23d ¹ , CM-25cG, CM-700d ⁹ /CM-600d ⁹ , CM-2500c ⁹ , CM-512m3A ⁹ , CM-2600d ⁹ /CM-2500d ⁹ Chroma Meter CR-5 ¹¹⁹ , CR-400 ⁹ /CR-410 ⁹ /DP-400 ⁹
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Main features

Observer		2°, 10°
Colour system colour space	Pro, Lite	L*a*b*, L*C*h, Lab99, LCh99, Lab99o, LCh99o, Hunter Lab, and their colour differences; Munsell (C, D ₆₅)
	Pro only	XYZ, Yxy, u*v', u*v*, and their colour differences
Index	Pro, Lite	Ml; GU and difference (CM-25cG, CM-26dG, CM-36dG/CM-36dGV); Opacity (ISO 2471, TAPPI T425 89% white plate) ^{*2} CM-5/CR-5 only: Gardner, Iodine Colour Number, Hazen/APHA, European Pharmacopoeia, US Pharmacopoeia
	Pro only	WI (CIE1982, ASTM E313-73, Hunter, ASTM E313-98, BERGER, TAUBE, STENSBY, Ganz); YI (ASTM D1925-70, ASTM E313-73, ASTM E313-98, DIN 6167); B (ASTM E313-73); Tint (CIE 1982, ASTM E313-98, Ganz); Standard Depth (ISO 105.A06); Brightness (TAPPI T452, ISO 2470); Density (Status A, Status T); Dominant Wavelength; Excitation Purity; 555; RxRyRz; Grey Scale/Grey Scale Rating (ISO 105.A05); K/S Strength (Apparent, ΔE^*_{ab} , ΔL^* , ΔC^* , ΔH^* , Δa^* , Δb^* , Maximum absorption, Total wavelength, User wavelength); Strength; Pseudo strength; Staining degree/degree grade (ISO 105.A04E); NC#; NC#Grade; Ns; Ns Grade; Signal colour index; 8° gloss (for simultaneous SCI/SCE measurements only); FF(CM-M6); User equation; Haze (ASTM D1003-97) ^{*2} , Blackness(My) (ISO18314-3/DIN55979), Jetness(Mc) (ISO18314-3), Undertone(dM) (ISO18314-3) and their differences.
Colour difference formula	Pro, Lite	ΔE^*_{ab} (CIE1976); ΔE_{00} (CIE DE2000) and each component of lightness; saturation and hue; ΔE_{99} (DIN99), ΔE (Hunter); ΔE^*_{94} (CIE 1994) and each component of lightness; saturation and hue; CMC and each component of lightness; saturation and hue; ΔE_{99o} and each component of lightness; saturation and hue
	Pro only	ΔE^*_{94} (Special) ^{*3} and each component of lightness; saturation and hue; ΔE_c (degree)(DIN 6175); ΔE_p (degree)(DIN 6175; FMC-2; NBS 100; NBS 200; Audi2000
Illuminant	Pro, Lite	A, C, D ₅₀ , D ₆₅ , F ₂ , F ₁₁
	Pro only	D ₅₅ , D ₇₅ , F ₆ , F ₇ , F ₈ , F ₁₀ , F ₁₂ , U ₅₀ , ID ₅₀ , ID ₆₅ , LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2, User illuminant (100 maximum)
Graph and canvas objects ^{*4}	Pro, Lite	Spectral reflectance (transmittance) and its difference; L*a*b* absolute colour distribution; Hunter Lab absolute colour distribution; $\Delta L^*a^*b^*$ colour difference distribution; Hunter ΔLab ; xy chromaticity diagram; Trend graph; Histogram; Multichannel graph; 2D user-specified axis graph Text labels, Numerical labels, Images, Data lists, Statistics, Pseudo-colour patches
	Pro only	K/S and its difference; Absorbance and its difference
Features	Pro, Lite	<Measurement> Viewfinder (CM-3700A Plus/CM-3700A-U Plus, CM-17d, CM-36d series, CF-300 ⁵); Manual averaging measurement; Trigger measurement (excluding CF-300, CM-3700A, CM-3600A and CM-3610A) <Data> Categorize by tags; Attaching images/comments; Evaluation results-pass/fail judgment; Import/export; Stored data reading/target data writing (excluding CM-3700A Plus/CM-3700A-U Plus, CM-3700A, CM-3600A, CM-3610A, CM-36d series and CF-300), Target data protection <Other> Shortcut key settings; Display template creation / output / application; Report printing; Printing to serial printer; Sound (on measurement, pass judgment, fail judgment); Job settings (CM-26d/CM-25d/CM-26dG, CM-16d/CM-17d, CM-25cG); Remote colour difference display ^{*6}
	Pro only	<Calibration> User calibration, UV adjustment <Measurement> Interval measurement <Security> User management/operation restrictions <Data> Data search under specified conditions; User illuminant source registration (manual input, from file, from CL-500A); Automatic selection of standards; Auto tolerance; Classification by user defined information <Other> QC template creation/editing/output; Macro function; External software startup
Number of files and data		Number of files that can be opened simultaneously: 10 Number of data that can be stored in a file: 10,000 (total of target data and measurement data)
Supported file formats		NX2 (.mesx2, .mtpx2), NX (.mtp, .mes, .mea; reading only ⁷); CM-5/CR-5 (.bdt;reading only); Other (.csv (output only), .cxf); SpectraMagic DX files (.mesx) need to be converted to .mes with a conversion tool NX2 QC template *.qctp (PRO: create/edit/save, LITE: read only)
Display languages		Japanese, English, German, French, Spanish, Italian, Portuguese, Chinese (Simplified and Traditional), Turkish, Russian, Polish, Korean


Minimum Computing Requirements^{*8}

OS: Windows® 11 Pro
CPU: Intel® Core i5 2.7 GHz or higher processor (recommended)
Memory: 2 GB or more (4 GB or more recommended)
Storage: 10 GB or more
USB port: Required for dongle version
Connection to external network: Required for activation

- Windows® is a trademark or registered trademark of Microsoft Corporation in the USA and other countries.
- Intel® is a trademark or registered trademark of Intel 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.
- The specifications given here are subject to change without prior notice.
- Displays shown are for illustration purposes only.
- Bluetooth® is a registered trademark of Bluetooth SIG, Inc. and is used under license agreement.

- *1: Not available in some countries.
- *2: For opacity (ISO 2471, TAPPI T425 89% white plate) and haze (ASTM D1003-97) measurements, software measurement procedure and calculations follow the corresponding standard. Whether the geometric requirements of the corresponding standard are met depends on the instrument used.
- *3: When comparing two colours, please use ΔE^*_{94} (Special) if you do not want to set one as the standard.
- *4: Canvas window can show up to 10 tabs (Pro edition)/2 tabs (Lite edition). However, when a file with more than 2 tabs created in Pro edition is used in Lite edition, all tabs can be viewed but only the first 2 tabs can be edited.
- *5: Requires optional accessories.
- *6: Available only when using CM-17d/16d Ver.1.20 or later, CM-26dG/26d/25d Ver.1.50 or later, CM-25cG Ver.1.40 or later and CM-M6 Ver.1.20 or later.
- *7: The file version that can be loaded is ver.2.00.0000 or later.
- *8: 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.
- *9: Instruments with new firmware versions only. Instruments with old firmware versions may not be supported. Click here for firmware versions of compatible instruments.
<https://www.konicaminolta.com/instruments/download/software/color/smnx2/index.html>

SAFETY PRECAUTIONS



For correct use and for your safety, be sure to read the instruction manual before using the instrument.

ISO Certifications of KONICA MINOLTA, Inc., Sakai Site



ISO 9001

JQA-QMA15888
Design, development, manufacture/
manufacturing management, calibration, and
service of measuring instruments



ISO 14001

JQA-E-80027
Design, development, manufacture, service and sales
of measuring instruments

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