



KONICA MINOLTA

NEW Color Data Software

# SpectraMagic NX2

Pro version

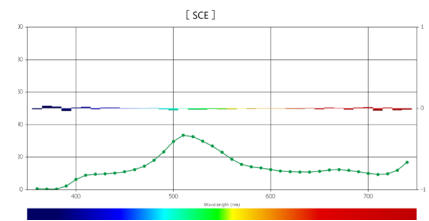
Lite version



## Data management of measured colors

Graphs and data can be output to file

Target Name	Target #00001				
Sample Name	Sample #00001				
Specular Component	SCE				
L* (SCE)	36.06	$\Delta L^*$ (SCE)	0.00		
a* (SCE)	27.44	$\Delta a^*$ (SCE)	0.02		
b* (SCE)	-56.14	$\Delta b^*$ (SCE)	0.00		
		$\Delta E^*_{ab}$ (SCE)	0.02		
Total Judgement	Pass				



## Enhanced data classification by adding information

▼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

## Easy to understand quality evaluation results

Evaluation Window

Total Judgement Result: **Pass**

Visual Judgement: **Pass**

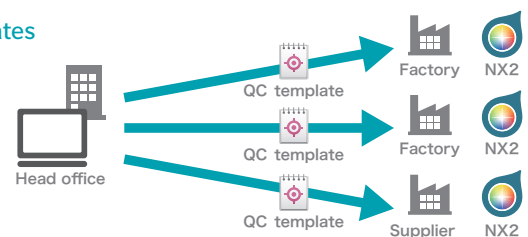
Target #00001

Sample #00001

Bank Judgement	Group Traits	$\Delta L^*_{(10/68)}$	$\Delta a^*_{(10/68)}$	$\Delta b^*_{(10/68)}$	$\Delta E^*_{ab(10/68)}$
OK	SCE	0.00	0.00	0.00	0.00
OK	SCE	0.00	-0.01	0.00	0.01

## Enables consistent color management across factories

\* Using QC templates



## Compatible Instruments

Measuring instruments	CM-3700A <sup>*1</sup> , CM-36d/CM-36dG/CM-36dGV, CM-3600A <sup>*1</sup> /CM-3610A <sup>*1</sup> , CM-5 <sup>*1</sup> /CR-5 <sup>*1</sup> , CM-M6, CM-26d/CM-25d/CM-26dG, CM-25cG, CM-700d <sup>*1</sup> /CM-600d <sup>*1</sup> , CM-2500c <sup>*1</sup> , CM-512m3A <sup>*1</sup> , CM-2600d <sup>*1</sup> /CM-2500d <sup>*1</sup> , CR-400 <sup>*1</sup> /CR-410 <sup>*1</sup> /DP-400 <sup>*1</sup>
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## Main features

Observer	2°, 10°	
Color system color space	Pro, Lite	L*a*b*, L*C*h, Lab99, LCh99, Lab99o, LCh99o, Hunter Lab, and their color differences; Munsell (C, D <sub>65</sub> )
	Pro only	XYZ, Yxy, u*v', u*v*, and their color differences
Index	Pro, Lite	MI; GU and difference (CM-25cG, CM-26dG, CM-36dG/CM-36dGV); Opacity (ISO 2471, TAPPI T425 89% white plate) <sup>*2</sup> CM-5/CR-5 only: Gardner, Iodine Color 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, $\Delta E^*_{ab}$ , $\Delta L^*$ , $\Delta C^*$ , $\Delta H^*$ , $\Delta a^*$ , $\Delta b^*$ , Maximum absorption, Total wavelength, User wavelength); Strength; Pseudo strength; Staining degree/degree grade (ISO 105.A04E); NC#; NC#Grade; Ns; Ns Grade; Signal color index; 8° gloss/8° gloss difference (for simultaneous SCI/SCE measurements only); FF/FF difference (CM-M6); User equation; Haze (ASTM D1003-97) <sup>*2</sup>
Color difference formula	Pro, Lite	$\Delta E^*_{ab}$ (CIE1976); $\Delta E_{00}$ (CIE DE2000) and each component of lightness; saturation and hue; $\Delta E_{99}$ (DIN99), $\Delta E$ (Hunter); $\Delta E^*_{94}$ (CIE 1994) and each component of lightness; saturation and hue; CMC and each component of lightness; saturation and hue; $\Delta E_{99o}$ and each component of lightness; saturation and hue
	Pro only	$\Delta E^*_{94}$ (Special) and each component of lightness; saturation and hue; $\Delta E_c$ (degree) (DIN 6175-2); $\Delta E_p$ (degree) (DIN 6175-2); FMC-2; NBS 100; NBS 200; Audi2000
Illuminant	Pro, Lite	A, C, D <sub>50</sub> , D <sub>65</sub> , F <sub>2</sub> , F <sub>11</sub>
	Pro only	D <sub>55</sub> , D <sub>75</sub> , F <sub>6</sub> , F <sub>7</sub> , F <sub>8</sub> , F <sub>10</sub> , F <sub>12</sub> , U <sub>50</sub> , ID <sub>50</sub> , ID <sub>65</sub> , 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	Pro, Lite	Spectral reflectance (transmittance) and its difference; L*a*b* absolute color distribution; Hunter Lab absolute color distribution; $\Delta L^*a^*b^*$ color difference distribution; Hunter $\Delta Lab$ ; xy chromaticity diagram; Trend graph; Histogram; Multichannel graph; 2D user-specified axis graph Text labels, Numerical labels, Images, Data lists, Statistics, Pseudo-color patches
	Pro only	K/S and its difference; Absorbance and its difference
Features	Pro, Lite	<Measurement> Viewfinder (CM-36d series); Manual averaging measurement; Trigger measurement (excluding 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, CM-3600A, CM-3610A and CM-36d series) <Other> Shortcut key settings; Display template creation / output / application; Report printing; Printing to serial printer; Sound (on measurement, pass judgment, fail judgment)
	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-500); Automatic selection of standards; Auto tolerance; Classification by user defined information <Other> QC template creation/editing/output; Macro function; External software startup; Job settings (CM-26d/CM-25d/CM-26dG, CM-25cG)
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); Other (.csv (output only), .cxf); SpectraMagic DX files (.mesx) need to be converted to .mes with a conversion tool NX2 QC template (.qctq; Lite: application only)	
Display languages	Japanese, English, German, French, Spanish, Italian, Portuguese, Chinese (Simplified and Traditional), Turkish, Russian, Polish, Korean	


## Minimum Computing Requirements<sup>\*3</sup>

OS: Windows® 10 Pro 64 bit Version 1803 or higher/ 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

- \*1: Instruments with new firmware versions only. Instruments with old firmware versions may not be supported.
- \*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: 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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- Displays shown are for illustration purposes only.

**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



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and service of measuring instruments



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