



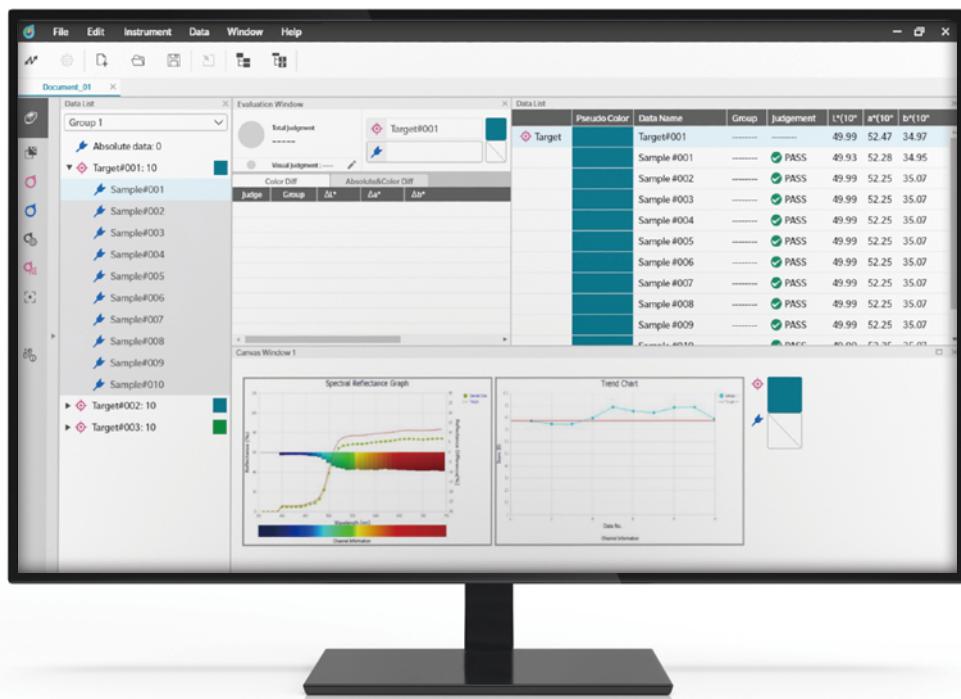
KONICA MINOLTA

# Color Data Software

# SpectraMagic NX2

Pro version

Lite version



Color QC App



Configuration Tool



Instrument Check App

Easy to use / Streamlines workflow / QC software used in fields around the world



Giving Shape to Ideas



# Color Data Software SpectraMagic NX2

Redesigned user interface

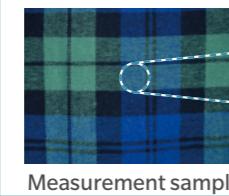
Long-awaited software with enhanced QC functions

## Color QC App

The software's main function, "Color QC App" can display various screens such as pass/fail judgement, color analysis, and process management by connecting spectrophotometers or colorimeters to the computer and measuring sample data.

### ▼ Electronic viewfinder function

Check the measured value on the PC screen  
\*When a compatible model is connected



### Easy-to-understand quality evaluation results

Evaluation Window					
Total Judgement Result	Pass				
Visual Judgement	Target #00001				
Color difference	Sample #0001				
Absolute and Color difference	...				
Bank Judgement	Group Traits	$\Delta L^*$ (10'/D65)	$\Delta a^*$ (10'/D65)	$\Delta b^*$ (10'/D65)	$\Delta E^*ab$ (10'/D65)
...	...	...	...	...	...
Pass	SCI	0.00	0.00	0.00	0.00
Pass	SCE	0.00	-0.01	0.00	0.01

### Improved operability of detailed settings

It is possible to set measurement conditions for standards and samples all at once.

Measurement Condition	
Condition 1	Condition 2
Condition 3	Condition 4
Condition 5	Condition 6
Condition 7	Condition 8
Condition 9	Condition 10
Condition 11	Condition 12
Condition 13	Condition 14
Condition 15	Condition 16
Condition 17	Condition 18
Condition 19	Condition 20
Condition 21	Condition 22
Condition 23	Condition 24
Condition 25	Condition 26
Condition 27	Condition 28
Condition 29	Condition 30
Condition 31	Condition 32
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Condition 37	Condition 38
Condition 39	Condition 40
Condition 41	Condition 42
Condition 43	Condition 44
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Condition 47	Condition 48
Condition 49	Condition 50
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Condition 65	Condition 66
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Condition 551	Condition 552
Condition	



# Configuration Tool CM-CT1

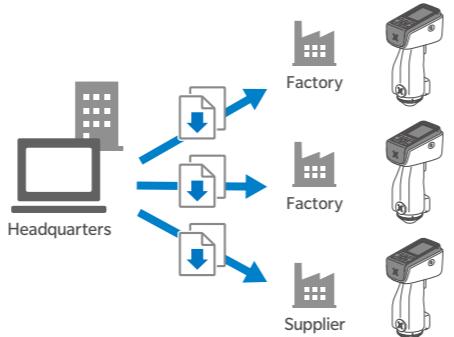
The CM-CT1 gives manufacturers the means for easily and quickly setting up their spectrophotometers. Moreover, when multiple devices are used or when the same conditions need to be set amongst multiple factories or suppliers, settings can be compiled into a file and shared.

Setting of User Index\*1 has been added.

\*1: Settings can be made when CM-17d/16d, CM-26dG/26d/25d, CM-25cG or CM-5/CR-5 is connected.

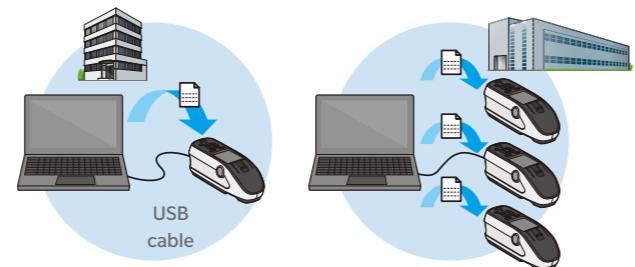
The feature is only available when SpectraMagic NX2 dongle is plugged into the PC or a dongleless license is activated.

Convenient setting software is integrated into this package



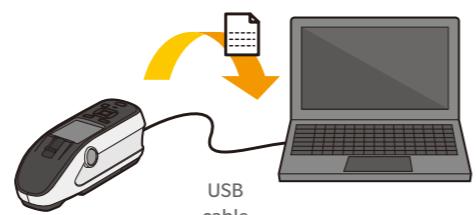
## Instrument Settings

CM-CT1 allows various instrument settings, such as measurement conditions, instrument display contents, user-based instrument operation restrictions, WLAN/Bluetooth® settings, etc. to be set using a computer. The software also allows setting contents to be exported to a file which can then be applied to multiple spectrophotometers.



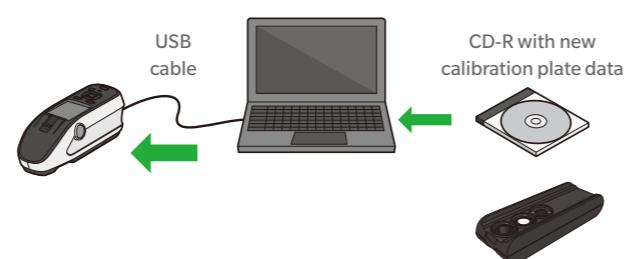
## Export Data

Data saved to a spectrophotometer (spectral reflectance data, plus gloss data for CM-26dG or CM-25cG) can be saved to a CSV file.



## Calibration Data Settings

When purchasing a new white calibration plate or gloss calibration plate, the calibration plate data must be set in the instrument before measurement can be performed.



## Remote Control

While displaying the LCD screen of the spectrophotometer\* on a computer in real time, CM-CT1 enables control equivalent to key operations on the actual instrument (except for control by power switch and measurement area switch).

In addition, by accessing (via remote desktop, etc. over a network) a computer connected to the spectrophotometer, control of the spectrophotometer is possible even from remote locations.

\* CM-26dG series, CM-25cG, CM-17d series, or CM-M6 devices only.



## SpectraMagic NX2 continues to evolve to meet customer needs

Greatly improved usability  
compared to previous NX  
Added LED light sources  
Added connection for new  
products "CM-17d/16d"

Ver. 1.4  
Added Instrument  
Check App

Ver. 1.5  
Added connection for new  
products "CM-3700A Plus"

### What is Premium License?

SpectraMagic NX2 is also available as a term-based premium license (paid) which allows you to experience special value in addition to regular use.

By signing up this license, you can use the Instrument Check App that allows you to check the status of your instrument, as well as additional functions that come with version upgrades.

When you purchase this software, a **one-year free premium license** is included.

## Main Specifications

### Configuration Tool CM-CT1

#### <Compatible Instruments>

Measuring instruments	CM-17d/CM-16d, CM-26dG/CM-26d/CM-25d/CM-23d*10, CM-25cG*10, CM-M6, CM-700d/CM-600d, CM-5/CR-5*10
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#### <Main features>

Features*2	Connect / Disconnect instrument, Display instrument information, Setting of instrument settings (System, measurement conditions, Display*3, Default tolerance, Target filter*4, User Index*5), File import / export, Data output, Setting of calibration data, Remote control of instrument*, WLAN connection settings*7*10
Supported file formats*8	Input/output instrument settings file: *.cm17d, *.cm16d, *.cm26dg, *.cm26d, *.cm25d, *.cm23d, *.cm25cg, *.cmmm6, *.cm700d, *.cm600d, *.cnd Output data file: *.csv Input calibration data file: *.cwl, *.cwm, *.cws, *.cw6, *.gum, *.gus Input/output WLAN connection settings file: *.wcsf
Display languages	English, Japanese

#### <Minimum Computing Requirements\*9>

OS	: Windows® 11 Pro
CPU	: Intel® Core i5 2.7GHz or higher processor (recommended)
Memory	: 2GB or more (4GB or more recommended)
Storage	: 10GB or more
USB port	: Required for connection with measuring instrument, Required for SpectraMagic NX2 dongle

\*1: Not available in some countries.

\*2: The functions that can be displayed, set, and executed differ depending on the connected instrument.

\*3: Available only when using CM-17d/16d, CM-26dG/26d/25d/23d, CM-25cG, CM-M6 or CM-5/CR-5.

\*4: Available only when using CM-17d/16d, CM-26dG/26d/25d/23d or CM-25cG.

\*5: Available only when using CM-17d/16d, CM-26dG/26d/25d/23d, CM-25cG or CM-5/CR-5 and only with SpectraMagic NX2 license.

\*6: Available only when using CM-17d/16d, CM-26dG/26d/25d/23d, CM-25cG or CM-M6.

\*7: WLAN settings possible when optional WLAN/Bluetooth® Module is installed.

\*8: The file that can be input/output differs depending on the connected instrument.

\*9: 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.

\*10: 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/cmct/index.html>



### Instrument Check App\*

#### <Compatible Instruments>

Measuring instruments	CM-3700A Plus/CM-3700A-U Plus, CM-3700A*2, CM-36dG/CM-36d/CM-36dGV, CF-300*3, CM-17d/CM-16d, CM-26dG/CM-26d/CM-25d/CM-23d*3, CM-25cG, CM-700d*2/CM-600d*2
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#### <Main features>

Check items*4	Repeatability, Reproducibility, Light Source output, Repeatability (Gloss), Reproducibility (Gloss)
Features	[Measurement] Checking of instruments condition [Data] Exporting results of check to instruments [Graphs] Check results shown on trend graphs, lists, and calendar [Others] Saving/printing of check report
External I/O	Importing/exporting of data files in original format Exporting report files in PDF format
Display languages	English, German, French, Italian, Spanish, Chinese (Simplified and Traditional), Portuguese, Russian, Turkish, Polish, Korean, Japanese

\*1: Available only when a premium license of SpectraMagic NX2 is active.

\*2: Instruments with new firmware versions only. Instruments with old firmware versions may not be supported. Firmware version of compatible instruments conform to Color QC App.

\*3: Not available in some countries.

\*4: Items available depend on the instrument model.

(Gloss) items available only for CM-36dG, CM-36dGV, CM-26dG, and CM-25cG.



## Color QC App

In addition to the "PRO version" with enhanced, further developed basic functions, there is also a "Lite version" with limited functions.

### <Compatible Instruments>

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

### <Main features>

Observer	2°, 10°	
Color system/ color space	Pro, Lite	L* <sup>a</sup> b*, L* <sup>C</sup> h, Lab99, LCh99, Lab99o, LCh99o, Hunter Lab, and their color differences; Munsell (C, D65)
	Pro only	XYZ, XyY, u'v', u"v", and their color differences
	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, (ΔE <sup>ab</sup> , ΔL <sup>*</sup> , ΔC <sup>*</sup> , ΔH <sup>*</sup> , Δa <sup>*</sup> , Δb <sup>*</sup> ), 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 (for simultaneous SCI/SCE measurements only); FF (CM-M6); User equation; Haze (ASTM D1003-97)* <sup>2</sup> ; Blackness (My) (ISO18314-3/DIN55979); Jetness (Mc) (ISO18314-3); Undertone (dM) (ISO18314-3), and their differences
Color difference formula	Pro, Lite	ΔE* <sup>ab</sup> (CIE1976); ΔE <sub>00</sub> (CIE DE2000) and each component of lightness, saturation and hue; ΔE99 (DIN99), ΔE(Hunter); ΔE* <sup>94</sup> (CIE 1994) and each component of lightness, saturation and hue; CMC and each component of lightness, saturation and hue; ΔE99o and each component of lightness, saturation and hue
	Pro only	ΔE* <sup>94</sup> (Special)* <sup>3</sup> and each component of lightness, saturation and hue; ΔEc (degree) (DIN 6175); ΔEp (degree) (DIN 6175); 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* <sup>4</sup>	Pro, Lite	Spectral reflectance (transmittance) and its difference; L* <sup>a</sup> b* absolute color distribution; Hunter Lab absolute color distribution; ΔL* <sup>a</sup> b* color 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-color 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* <sup>5</sup> ); 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-17d/CM-16d, CM-26dG/CM-26d/CM-25d, CM-25cG), Remote color difference display* <sup>6</sup>
		[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; reading only)* <sup>7</sup> , 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 (.qcpt; Lite: application only)	
Display languages	English, German, French, Italian, Spanish, Chinese (Simplified and Traditional), Portuguese, Russian, Turkish, Polish, Korean, Japanese	

### <Minimum Computing Requirements\*<sup>8</sup>>

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

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- The specifications given here are subject to change without prior notice.
- Displays shown are for illustration purposes only.

\*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 colors, please use ΔE\*<sup>94</sup> (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/smmx2/index.html>



#### 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



JOA-QMA1588  
Design, development, manufacture/  
manufacturing management, calibration,  
and service of measuring instruments



JOA-B8027  
Design, development,  
manufacture, service and sales  
of measuring instruments

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<b>Konica Minolta Sensing Americas, Inc.</b>	New Jersey, U.S.A.
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