

Color, Melanin Index and Hb Index

Customizable List Display Screen

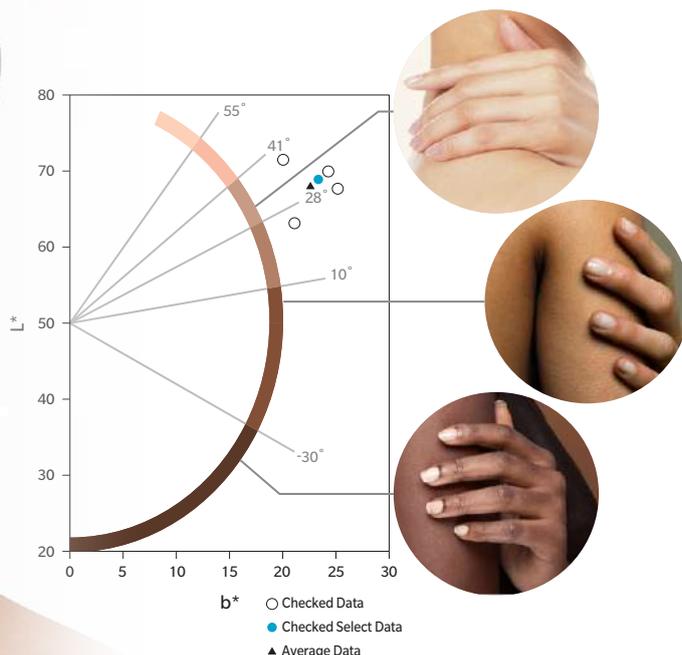
Items such as ITA° and measurement conditions can be easily added or removed, allowing you to organize them into a clear list based on the measurement items. Additionally, the measurement results can be output in CSV text format to be utilized for further analysis or data management using Excel® or other spreadsheet applications.

(Image of the list display screen)

☑	Data Name	Melanin Index	Hb Index	Hb SO2 Index(%)	Hue	Value	Chroma	L*	a*	b*	C*	h	ITA°	ITA° classifica	Observer/Illuminant	
☑	Average	---	1.036	1.653	67.1	---	6.53	4.20	66.92	10.89	21.28	23.95	63.25	39.1	Intermediate	---
	Std. Dev.	---	0.110	0.295	7.2	---	0.11	0.59	1.05	2.56	2.03	2.87	3.78	---	---	---
☑	1	Data #0001	1.032	1.907	73.8	4YR	6.50	4.54	66.64	12.94	21.60	25.17	59.07	38.0	Intermediate	2°/C
☑	2	Data #0002	0.862	1.308	54.5	6.6YR	6.69	3.30	68.51	7.46	17.89	19.39	67.37	46.5	Light	2°/C
☑	3	Data #0003	1.067	1.595	71.1	5.5YR	6.54	4.28	66.98	10.77	22.07	24.56	63.98	38.0	Intermediate	2°/C
☑	4	Data #0004	1.079	1.613	70.0	5.5YR	6.47	4.28	66.28	10.79	22.09	24.59	63.97	36.8	Intermediate	2°/C
☑	5	Data #0005	0.815	1.355	56.1	6.7YR	6.73	3.30	68.86	7.35	18.07	19.51	67.88	46.8	Light	2°/C
☑	6	Data #0006	1.061	1.641	71.2	5.4YR	6.51	4.31	66.69	10.95	22.13	24.69	63.67	37.4	Intermediate	2°/C
☑	7	Data #0007	0.964	1.237	52.5	6.8YR	6.66	3.41	68.17	7.54	18.70	20.16	68.04	44.7	Light	2°/C
☑	8	Data #0008	1.090	1.691	72.4	5.1YR	6.51	4.45	66.72	11.56	22.52	25.32	62.83	37.0	Intermediate	2°/C
☑	9	Data #0009	1.185	1.806	74.3	4.6YR	6.57	4.90	67.26	13.24	24.34	27.71	61.46	35.7	Intermediate	2°/C

ITA° Graph for Confirming Skin Color Type

The ITA° (Individual Typology Angle) graph, used for evaluating skin tone and color, can be displayed. The measured data is plotted on the graph, allowing you to easily identify which group it belongs to at a glance.



For applications in the R&D divisions of cosmetics and pharmaceutical companies, skin-related testing organizations, and research institutions such as universities



< Compatible spectrophotometers >

Model ^{(*)1}	CM-17d/CM-16d, CM-700d/CM-600d, CM-2600d/CM-2500d
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< Major specifications >

Skin data display	Melanin Index Hb Index [Total hemoglobin (oxidized + reduced) index] HbSO ₂ Index (%) [Hemoglobin oxygen saturation index (%)] ITA° [Individual Typology Angle] ^{(*)2} , ITA° Classification
Colorimetric value display	L*, a*, b*, C*, h, Munsell value (Hue, Value, Chroma) ^{(*)3}
Graph display	Hue-Value graph, Hb Index-Melanin Index graph, ITA° graph, 2D user-specified axis graph ^{(*)4}
Observer ^{(*)5}	2°, 10°
illuminant ^{(*)5}	C, D65
Data Handling	Saving / reading data in CM-SA2 original format Saving data in text (CSV) format [Melanin Index, Hb Index, Hb SO ₂ Index (%), L*, a*, b*, C*, h, Munsell value (Hue, Value, Chroma), ITA°, Spectral reflectance (400-700 nm) ^{(*)6}]
Display languages	Japanese, English, Chinese (Simplified and Traditional), Korean
Other	Save and display viewfinder images CM-17d ^{(*)7}

< 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 connection to instrument
Connection to external network: Required for activation

Spectrophotometer must be connected to the CM-SA2 software in order to collect and process data at the time of measurement.

It is not possible to upload measurement data into CM-SA2 software for processing after being collected by the instrument if it was not connected to CM-SA2 software during measurement.

- *1: 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/cmsa2/index.html>
- *2: ITA° values are calculated for a 2° observer and Standard Illuminant D65.
- *3: Munsell data are calculated for 2° observer and Standard Illuminant C.
- *4: Colorimetric values for each axis can be selected from L*, a*, b*, C*, and h.
- *5: Illuminant / Observer can be selected from one of the four conditions. (2°/C, 2°/D65, 10°/C, 10°/D65)
- *6: The spectral reflectance data that are output are the reflectance obtained in SCI (Specular component included) mode.
- *7: CM-17d viewfinder images will be saved only when measurements are taken with Save Viewfinder Image enabled. Saved images are linked with measurement data for later display.
- *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.

- Please do not use this software to assist in cosmetics sales at retail stores.
- This software and the spectrophotometer that can be connected to this software are not medical devices.
The results output by this software cannot be used for diagnosis, treatment, or any other medical purposes.
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- The specifications given here are subject to change without prior notice.
- Displays shown are for illustration purposes only.

CM-17d

Ergonomically designed to be easy to grip. It can be used in a wide range of measurement scenarios, including one-handed work, vertical orientation, and measurement of small objects and curved surfaces. Stress-free hardware design includes easy positioning with the camera viewfinder, improved visibility with a slight tilt of the operation screen, and a comfortable workspace with wireless connectivity.*

* Wireless LAN/ Bluetooth module (option) is required.



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

JQA-QMA15888
Design, development, manufacture/
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service of measuring instruments

JQA-E-80027
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