



KONICA MINOLTA

News Release

Konica Minolta to Launch the CM-SA2 Skin Analysis Software for Quantitatively Evaluating and Analyzing Skin Color as Well as Melanin and Hemoglobin

Enabling Accurate Skin Analysis at Cosmetics and Pharmaceutical Manufacturers and Research Institutes, Including Universities

Tokyo (January 23, 2025) - Konica Minolta, Inc. (Konica Minolta) today announced that the Company will launch the CM-SA2 skin analysis software.

In quality control in various industrial fields, color management using measuring instruments has become an important factor. Due to their superb reliability and multifunctionality, Konica Minolta's colorimeters are widely used for quality control, production, and R&D in industries where color measurement and management are required, such as automobiles, electrical equipment, smartphones, cosmetics, paints, plastics, construction materials, and textiles.

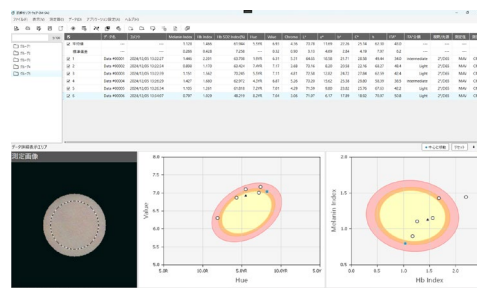
The CM-SA2 is the successor to the CM-SA, a software product which is highly evaluated by cosmetics manufacturers and research institutes globally. Used with Konica Minolta's spectrophotometer, the CM-SA2 enables concurrent measurement of skin color as well as the Melanin Index and Hb (Hemoglobin) Index, which are used in research on the measures against sunburn and dark spots in the cosmetics, functional food, and pharmaceutical markets. The CM-SA2 features a graph display function to check multiple indices at a glance. Connection with the CM-17d spectrophotometer enables easy positioning and image saving of measurement points via an electronic viewfinder. The software also has a function to display in Chinese (Traditional and Simplified Chinese) and Korean in addition to Japanese and English to meet the needs of the growing cosmetics market in Asia. The CM-SA2 will contribute to higher quality advanced research by the product development divisions of cosmetics manufacturers and pharmaceutical companies, skin-related testing companies, and research institutes, including universities, in the global market.

Values Provided by the CM-SA2 Skin Analysis Software

1. Highly accurate measurement and graphs of various indices

Used with Konica Minolta's portable spectrophotometer, the CM-SA2 enables accurate measurement of skin color simultaneously with a numerical display of the Melanin and Hb Index. There is also a new function to display ITA^{o,*} which is a skin color index.

* Abbreviation for Individual Typology Angle, an index to classify skin color into seven levels.



2. Positioning and image saving of measurement points via an camera viewfinder

By using the CM-17d, the measurement point can be checked and moles can be avoided in measurement, further enhancing the measurement data. In addition, the CM-SA2 makes it possible to link images, which are stored during measurement, with data, enabling measurement positions to be checked on images later.

3. Support for Japanese, English, Chinese, Korean for global deployment

The CM-SA2 supports Chinese (Traditional and Simplified Chinese) and Korean in addition to Japanese and English which are supported by the CM-SA, so that it can be used in the Asian region where there is strong demand for brightening and measures against sunburn and dark spots.

CM-17d Spectrophotometer

The CM-17d is a portable spectrophotometer used in various industries, including automobiles, electrical equipment, smartphones, cosmetics, paints, plastics, construction materials, and textiles, for quality control, production, and R&D. It excels at measuring small samples and those with curved surfaces, and enables data to be managed remotely through a wireless connection. Thus, it can be used in various environments.



Main Specifications

The descriptions, specifications, and appearance are subject to change without notice.

System requirement (OS)	Windows® 10 Pro 64-bit Version 1903 or later/Windows® 11 Pro
Compatible spectrophotometers	CM-17d/CM-16d, CM-700d/CM-600d, CM-2600d/CM-2500d
Display languages	Japanese, English, Chinese (Traditional and Simplified), and Korean
Skin data display	Melanin Index Hb Index [total hemoglobin (oxidized + reduced) index] Hb SO ₂ Index (%) [hemoglobin oxygen saturation (%) index] ITA° [Individual Typology Angle] * ¹ , ITA° classification
Colorimetric value display	L*, a*, b* , C*, h, Munsell value (Hue, Value, Chroma) * ²
Graph display	Hue-Value graph, Hb Index–Melanin Index graph, ITA° graph, 2-axis graph * ³
Data handling	Saving/reading data in original format Saving data in text (CSV) [Melanin Index, Hb Index, Hb SO ₂ Index (%), L*, a*, b*, C*, h, Munsell value (Hue, Value, Chroma), ITA°, ITA° classification, field of view/light source, measurement diameter, measuring instrument name, spectral reflectance (400–700 nm) * ⁴]

*1: ITA° is calculated for 2° observer and D65 illuminant.

*2: Munsell data is calculated for 2° observer and C illuminant.

3: Colorimetric values for each axis can be selected from L, a*, b*, C*, and h.

*4: The spectral reflectance data that are output are the reflectance obtained in SCI (Specular Component Included) mode.

About Konica Minolta's Sensing Business

Konica Minolta's Sensing Business offers various products and solutions in the fields of light source color measurement and object color measurement based on the optical technologies developed in its former camera business and continually refined thereafter. The products and solutions offered by Konica Minolta contribute to ensuring quality and improving productivity at customers' manufacturing sites, and many products are used as de facto standard color measurement instruments. Notably, Konica Minolta has more than a 50% share in the global market for display image quality measurement and inspection (estimated by Konica Minolta), and has a solid presence as the market leader.

Konica Minolta has actively promoted investments to strengthen its competitiveness. In 2012, the Company acquired Instrument Systems GmbH (Germany) which develops high-end optical measuring instruments and has an outstanding track record in the high-performance measurement of displays and LED lighting devices. In 2015, the Company acquired Radiant Vision Systems, LLC (U.S.) which excels at high-resolution 2D measurement instruments for displays, image processing software, and automatic appearance inspection systems. In 2019, the Company acquired Eines Systems (Spain), a market leader in the field of visual inspection of automobiles. In 2020, the Company acquired Specim, Spectral Imaging Ltd. (Finland), a leading company in the field of hyperspectral imaging (HSI*).

In the Industry Business, including the sensing business, Konica Minolta's development, manufacturing, and customer support have come together to co-create value by building strong relationships with customers with core technology as its strength. The Company has set the fields it will focus on in the future as "display," "mobility," and "semiconductor manufacturing," strategically invest mainly in the strengthening businesses of sensing, performance materials, IJ components, and optical components (industrial applications), and promote business development that is more closely linked to the customer's manufacturing value chain.

* HSI is a method that uses a camera with narrow bandwidth over a wide spectral range from the visible to mid-infrared wavelength region to identify substances in an area. It is expected to be used for applications such as recycling, material/resource identification, food analysis, environmental safety, product surface condition analysis, etc.

* The product names and other names indicated in this news release are registered trademarks or trademarks of each company.

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