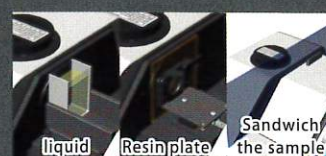
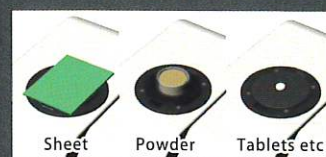




On SD card
Save each data

All-in-one type model
equipped with the latest
type of white LED, large
color liquid crystal
display and very
convenient operation
buttons



Enabling color measurement of versatile samples like solid, powder, liquid, paste, pellet and film by one unit

The attached standard white plate is traceable to the standard of National Institute of Advanced Industrial Science and Technology in Japan.

COLOR METER

NE 5500

Enabling color measurement of versatile samples like solid, powder, liquid, paste, pellet and film by one unit

Related standards

JIS Z8722, JIS Z8781-4, JIS 8781-6, JIS Z8715,
ASTM E308, ASTM E313, ASTM D1925 etc.

FEATURES

- **The latest type of white LED is used as the light source lamp.**
You can avoid stressful exchange of a lamp and your running cost is reduced.
- **Large open-type sliding door**
You can set a solid sample up to the size of 75 x 125 mm and an absorption cell up to the size of 100mm.
- **Easily visible screens on the large color LCD display, with simple operability**
You can view satisfying measurement values, various types of graphs, approximate colors, etc. on the 5.7" large color liquid crystal display.
- **Data saving in an SD card**
You can save measurement data and various graph screens into an SD card when it is connected to the main unit.
- **Most suitable for color measurement of petroleum products** Option
Hazen color number (APHA) and Gardner color number can be measured.
- **A wide range of attachments for measuring various types of samples** Option
Exclusive attachments are available for measuring such samples as small area, small amount or translucent. Various types of disposable cells and test tubes can be also used.
- **Exclusive software for PC** Option
Color management software "ColorMate Pro2" and data reception software "QuickGet 2" are also available for your use.

Food

Cosmetics

Painting material Petroleum products



Exclusive printer

Option



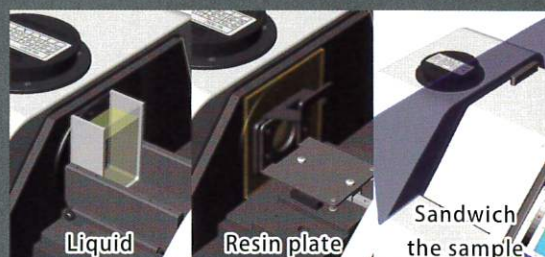
Dot type

Measurement example

Reflection measurement example



Permeation measurement example



Specifications

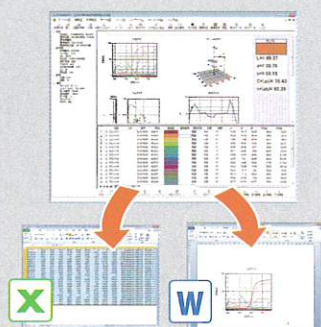
Illumination/ Light receiving condition	Reflection/ 8° : de (8° illumination: diffuse light receiving) Transmission/ 0° : de (0° illumination: diffuse light receiving)
Measuring method	Double beam system, Back end spectroscopy method
Spectroscopic means	Diffraction grating
Photodetector	CMOS linear image sensor
Measuring wavelength	400nm to 700nm, at 10nm intervals
Light source lamp	White LED (estimated timing for exchange: 20,000h)
Measuring time	Approx. 6.5 sec.
Measuring aperture/ Sample stage's opening diameter	(Reflection) LAV: Φ22mm (Φ28mm): standard * MAV: Φ6mm (Φ10mm) * SAV: Φ4mm (Φ6mm) (Transmission): Φ12mm
Chamber for transmission measurement	Large open-type sliding door is used (door's opening width: approx. 110mm) * Detachable spring type sliding sample holder (enabling to easily pinch a resin plate, film or an absorption cell up to the width of 25mm) * Exclusive cell holder (settable up to max. 100mm) * Measurement using a disposable cell or a test tube is also possible.
Display panel	5.7 inch TFT color LCD
Display on the screen	Various color values, Color difference values, Target values, Metamerism, Yxy graph, Lab graph, CDA graph, List screen, Approximate color (Color system and measurement items on each screen are arbitrarily changeable.)
Operation switches	Membrane switches and touch panel
Illumination for observation	A, C, D65, F6, F8, F10
Observation condition	Possible to simultaneously display the L*a*b* value under 2 types of illumination
Color system	XYZ, xyy, L*a*b*, L*C*h*, Lab, LCh, Various color differences, HVC

Index	YI (ASTM E313-05), YI (ASTM D1925), W (CIE), TW (CIE), W (ASTM E313-5), TW (ASTM E313-5), W (*Lab), W (Lab), WB, MI
Index (option)	* Hazen color number (APHA), Gardner color number
Color difference formula	ΔE*ab, ΔE, ΔE*94, ΔE00, ΔE (CMC)
Judgment function	Settable by ΔL*a*b* or ΔE*ab for the acceptable range
Averaging	2 to 99 times, Settable arbitrarily
Internal memory	(Target data) 100 data items (Measurement data) 2,000 data items
SD card (File system: FAT32)	Saving of measurement data and internal memory data in CSV files Saving of measurement screens and graph images Saving of measurement data (using the exclusive software, ColorMate Pro2) Saving and reading of user settings Reading of standard plate's value data Reading of working curve data
Interface	USB port (for communication with PC) SD card memory (file system: FAT32) Parallel port (for exclusive printer)
Data calibration function	Possible to multiply any arbitrary coefficient to measurement data
Environment for use	Temperature: 15°C to 35°C, Humidity: 80% R.H or less, No condensation
Power supply/ Power consumption	100V to 240V AC, 50/60Hz Max. 25VA or less (20VA or less at standby)
Dimensions/Weight	425(W) × 350(D) × 188(H) mm, Approx. 8kg
Option	Exclusive printer (dot type), Exclusive printer (thermal paper type) Color management software: ColorMate Pro2, Data reception software: QuickGet 2 Various types of absorption cells (for reflection measurement or transmission measurement) Various jigs and attachments for measurement, etc.

[Note] The items marked with * are available in option.

Data management software

Using Data management software, analysis of measurement data and various graph are possible on the display of your personal computer. By copying each screen, you can paste it to a spreadsheet software and word processing software.



Specification

Environment for operation	O.S. : Windows10, Windows8.1, Windows8, Windows7 PC : CPU (Pentium 2GHz or faster), Memory (2GB or more), HDD (100MB or more vacant memory), Optical drive (CD-ROM), Display (1366 × 768 pixels of more/full colors recommended), Interface: (USB port)
Display/Print	Data list, Spectral curve graph, 3D Lab graph, etc.
Measuring items	XYZ, Yxy, L*a*b*, L*C*h*, Lab, LCh, HVC, Haze, Total light transmittance, Diffuse transmittance, Parallel transmittance, Turbidity Hazen color number (APHA), Gardner Color number, ASTM color, Saybolt color YI (ASTM E313-05), YI (ASTM D1925), MI, ΔE*ab, ΔE, ΔE*94, ΔE00, CMC, etc.

*Windows, Excel and Word are the trade marks of Microsoft Corporation in U.S.A.

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