SA-5500

NIPPON Advanced Technology in Color and Brightness. DENSHOKU

Measurable in the wavelength range of 380nm to 780nm at 5nm intervals



Related Standards

JIS 78722 JIS Z8781-4, JIS P8730. ASTM E308, ASTM E313.Other

Option



Features

- Both of reflectance and transmittance measurement are possible by this one unit. Using this model, you can make color measurements of various shaped samples like solid, liquid, powder, pellet and film.
- Illumination /Light Reception Conditions of Reflectance is 0°-45c. You can clean up easily, if you spill the sample.
- Large5.7"Color LCD has been adopted. You can enjoy easily viewable various graph and measuring value.



- You can connect a USB memory stick to the measuring unit, by which measurement data and conditions (CSVfiles) can be saved to or read in.
- Hazen color number (APHA) and Gardner color number can be measured(option)
- An optical fiber can be connected, and when doing so, it is most appropriate to measure such samples as dental material, skin, and the ones with difficult sampling or complicated shapes.(option)
- Optional Attachments allow measurement of samples with variety of shapes.





Specifications

Transmission: 0°:0° (JIS Z8722, Geometrical condition e) Double beam system, All wavelength simultaneous reference, Back end spectroscopy method CMOS linear image sensor
CMOS linear image sensor
380nm to 780nm
5nm
Halogen lamp, 12V 20W
LAV: Φ22mm (Φ28mm)
MAV: Φ6mm (Φ10mm)
SAV: Φ 4mm (Φ 6mm)
Transmission: Φ15mm
5.7 inch TFT color LCD
Touch panel, Membrane switch
A, C, D65, F6, F8, F10
2° observer, 10° observer
XYZ, xyz, L*a*b*, L*C*h*, Lab, LCh, HVC, W(CIE), TW (CIE), W(ASTM E313-05), TW (ASTM E313-05), W(*Lab), W(Lab),
WB, YI(ASTM E313-05), YI(ASTM D1925), ΔΧΥΖ, ΔΧΥΖ, ΔL*a*b*E*,
ΔL*C*H*, ΔLabE, ΔLCH, ΔW(CIE), ΔTW(CIE), ΔW(ASTME313-05)
ΔTW(ASTM E313-05), ΔW(*Lab), ΔW(Lab), ΔWB,
ΔΥΙ(ASTM E313-05), ΔΥΙ(ASTM D1925), ΔΕ(CMC), ΔΕ*94,
ΔΕ00, MI, Spectral values (refrectance or transmittance, absorbance), Hazen (APHA), GARDNER

Display on the screen	Various color values, Color difference values, Target values, Metamerism, Spectral values, Spectral graphs, Lab graphs, CDA
3010011	(color difference analysis) graphs
Averaging	2 to 99 time, Settable arbitrarily.
Interface	USB port (for communication with PC) USB memory (file system: FAT32) Parallel port (for printer)
Data for USB memory	Saving of measurement data (CSV)
Power supply	AC 100 to 240V, 50/60Hz
Power consumption	Max. 50VA or less (20VA or less at standby)
Dimensions	398 (W) × 310 (D) × 172 (H) mm
Weight	Approx. 7.8kg
Environment for use	Temperature: 15°C to 35°C, Humidity: 80% R.H or less, No condensation
Option	Color Manegement software(Color Mate Pro) Thermal printer Optical fiber, etc

% The above specifications are subject to change without pre-notice in the future due to technical improvement.



Optical fiber, Model OF

By applying a pen type head to your samples, it will become possible to measure even the ones with complicated shapes, measurement of which has been difficult before.







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Color management software "Color Mate Pro"

Using the color management software, analysis of measurement data and various graph is possible on the display of your personal computer.

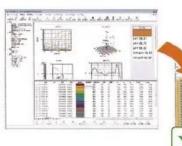


Specification of Color management Software

Display/Print	Data list, Spectral curve graph, Lab graph, Yxy graph, Color deviation criterion chart, Transition graph, Value data, Text, Picture, 3D Lab graph
Management items	Name, Memo, Measured date, Measured time, False color, Measuring method, Regular reflection processing, Measuring instrument, Geometry, Measuring aperture, Judgment, Average, Reference number, Data attribute
Measuring items	XYZ, ΔXYZ, L*a*b*, ΔL*a*b*E*, L*C*h, ΔL*C*H*, L*u*v*, ΔL*u*v*E*, Hunter Lab, Hunter ΔLabE, LCh, ΔLCH, xyz, u*v*, Δu*v*, W, WI, WB, Tw, Tint, ISO brightness, YI, ΔΕ00, ΔΕ94, ΔΕCMC, ΔΕΡΜC2, ΔΕΑΝ, MI, Munsell HV/C, Hazen color number (APHA), Gardner color number, Saybolt, ASTM, Iodine number, RGB, CMYK density, Spectral data (reflectance, absorbency, K/S), Dominant wavelength, Stimulus purity, Discoloration (Teranushi method), Contamination color (Teranushi method), Discoloration (JIS L0809), Contamination color (JIS L0809), etc.
Illuminant/observer	A, B, C, D50, D55, D65, D75, F2, F6, F7, F8, F10, F11 and F12
Observation condition	2° and 10° field of view for each illuminant/observer
Available functions	Screen layout, Automatic measurement, Various display modes, Decision to pass or fail, Data input, Searching, Sorting, Automatic naming, Text reading-in, Text writing-out, Copy (copy & paste to external software)
Data saving	Reference: 500 data pieces, Sample: 500 data pieces, Layout: 1 data piece
Environment for operation	O.S.: Windows 10, Windows 8.1, Windows 8, Windows 7 (32bit version), Windows Vista (32bit version), Windows XP (Professional & Home versions) PC: CPU (Pentium 2GHz or faster), Memory (1GB or more), HDO (100MB or more)

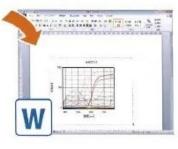
vacant memory), Optical drive (CD-ROM), Display (1280 x 800 pixels or more/full

colors recommended), Interface (RS-232C serial port built-in)



By copying each screen, you can paste it to a spreadsheet software and word processing software.





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HEAD SALES DEPT. / SENGOKU HASEGAWA BLDG., 4-45-17 SENGOKU, BUNKYO-KU, TOKYO 112-0011 JAPAN PHONE: 81-3-3946-4392 (MAIN LINE) FAX: 81-3-3946-1690

E-mail: kaigai@nippondenshoku.co.jp



URL: http://www.nippondenshoku.co.jp

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