

COLOR METER



NIPPON
Advanced Technology in Color and Brightness.
DENSHOKU



COLOR METER

NE 4000

*For long time use and high accuracy measurements
Flicker photometric system*

Features

- Both of reflectance and transmittance measurements are possible by this one unit. Its is in fact all-in-one type measuring instrument enabling color measurements of various shaped samples such as solid, liquid, powder, pellet and film, etc.
- Thanks to its flicker photometric system, measuring stability for a long time and data acquisition in high accuracy have been made possible.
- Munsell color system (HVC) can be selected from one of the C/2° and D65/2 conditions.
- Measuring diameter for reflectance can be selected from 6mm ϕ , 10mm ϕ or 30mm ϕ , with a possibility to measure even small samples. (The diameter as small as 3 mm is also available on your special order, which will be most appropriate for measurement of tablet pharmaceuticals.)
- This model is equipped with a large bright and easy-to-read display.
- Color data management is available on your personal computer using the RS-232C interface.
- This model is equipped with a foot switch as one of the standard accessories, which allows you to make measurements even while you are holding a sample by both hands.



ISO9001 certificate: Obtained in 2000

Specifications

Illumination and light receiving conditions	Reflectance : Condition d (n-d) Transmittance : Condition e (n-d) Both based on JIS Z-8722	Printer	Thermal line dot printing system, thermal printer
Measuring method	Double beam (flicker photometric system)	Print items	Sample No., light source/field of view, data/time, L*a*b*, Δ L*a*b*, Δ E*, Lab, Δ Lab, Δ E, XYZ, Yxy, YI(E313), YI(D1925), W(CIE), W(Lab), WB, HVC, L*C*h*, Δ L*C*h*, Δ E94, Δ ECMC(1:1), Δ ECMC(2:1), LCh, Δ LCh, OD, color deviation criterion chart, Option (APHA and GARDNER) Any of the above items can be arbitrarily selected for printing.
Measuring area	Reflectance : 30mm ϕ , 10mm ϕ , and 6mm ϕ (Small diameter is available in option.) Transmittance : 30mm ϕ	Averaging	Max. 99 times
Light source	Halogen lamp, 12V 50W	Reference value	Max. 50 pieces of reference data can be registered
Light receiving element	Silicon photocell quick response type	External output	RS-232C
Measuring accuracy	Repeatability using a standard white plate: • Δ E* - Standard deviation within 0.02 At the conditions of 30 measurements at intervals of 10 seconds, 15 minutes after turning on the power	Environment for use	15 to 40° C, 30 to 80% R.H., No condensation
Light source	Selectable from C/2, D65/2, and D65/10	Power supply	100 to 240 VAC, 50/60Hz
Display	Number of dots : 256 $\times$ 64 dots Display area : 166.25mm $\times$ 41.45mm	Power consumption	100VA
Display items	L*a*b*, Δ L*a*b*, Δ E*, Lab, Δ Lab, Δ E, XYZ, Yxy, YI(E313), YI(D1925), W(CIE), W(Lab), WB, HVC, L*C*h*, Δ L*C*h*, Δ E94, Δ ECMC(1:1), Δ ECMC(2:1), LCh, Δ LCh, OD, color deviation criterion chart, Option (APHA and GARDNER) Any of the above color systems can be arbitrarily selected to display on the screen.	Dimensions & weight	425W $\times$ 415D $\times$ 189H mm, 13kg
		Related standards	JIS Z-8722, ASTM E 308, ASTM E 313, ASTM D 1925
		Option	Color management software for Windows, various attachments and cells for exclusive use

※Specifications are subject to change without notice due to technical improvement.



© NIPPON DENSHOKU INDUSTRIES CO., LTD.

HEAD SALES DEPT.

SENGOKU HASEGAWA BLDG., 4-45-17 SENGOKU, BUNKYO-KU, TOKYO 112-0011 JAPAN

PHONE : 81-3-3946-4392 = FAX : 81-3-3946-1690

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

0810-10810