



NIPPON
Advanced Technology In Color and Brightness.
DENSHOKU

SPECTROPHOTOMETER NEW MODEL

SD 5000

*Accomplished
Excellent Stability and
High Correlation
with Human Eyes.*



5nm Spectral Measurement

The smallest wavelength intervals at 5nm, regulated on ISO, ASTM and JIS, is accomplished by high precision spectral separation unit and 256 elements image sensor.

Space Saving Design

As combined display and keyboard, unit itself can operate the measurement procedure.

SCI / SCE Measurement

SCI (Specular Component Included)
SCE (Specular Component Excluded)
Suitable to measure metallic color.

Excel in Stability

Accomplished excellent stability by adopting high illuminant halogen lamp which is balanced spectral characteristics.

2 Types of Door for Transmittance Chamber (Option)

Prepared 2 types of door for transmittance chamber to correspond to big and small specimens. Save the operating time and allowed to measure the big plate without cutting the pieces.

Color Management Software (Option)

Color management software excellent in analyzing color data.



ISO9001 : 2000 CERTIFIED

**Measure the Object of
Spectral Reflectance and
Spectral Transmittance**

5nm Intervals

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Features

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Specifications

For Reflectance measurement	<ul style="list-style-type: none"> ◆ Diffuse illumination/8° light receiving (d/8, D/8 switch over) ◆ Possible to switch SCI (Include regular reflectance) and SCI (Exclude regular reflectance).
Transmittance measurement	Diffuse illumination / 0° light receiving (D-O)
Illumination/Light receiving condition	Integrating sphere (150mmφ) Reflectance rate: Diffuse illumination/8° light receiving (d/8, D/8 switch over) Transmittance rate: Diffuse illumination/0° light receiving (D/O) SCI (Include regular reflectance) / SCE (Exclude regular reflectance) Automatic switch over function Spectral measurement (Post-spectrum photometry)
Photometric method	Double-beam method (Measurement beam, Reference beam)
Measurement diameters	Reflectance 6mmφ, 10mmφ, 28mmφ, Transmittance 25mmφ
Measurement range	380nm~780nm
Measurement intervals	5nm
Light receiving element	Image sensor
Spectral separation unit	Diffraction grating
Light Source	Halogen lamp 12V50W
Display unit	Fluorescent display tube 128dots×64dots
Standard light	D65, C, A, F6, F8, F10, Visual angle 2° and 10°
Display items	L*a*b*, ΔL*a*b*, ΔE*, Lab, ΔLab, ΔE, XYZ, Yxy, Yl, W, WB, L*C*H*, ΔL*C*H*, ΔE*, CMC(2:1), CMC(1:1), ΔE94, LCH, ΔLCH, ΔE, HVC, APHA, Gardner, Spectral reflection rate, Spectral curve, Polarized color criterion chart.
Standard data setting	XYZ, L*a*b*, Spectral reflection rate
Data memory function	50 data memories
Print out items	L*a*b*, ΔL*a*b*, ΔE*, Lab, ΔLab, ΔE, XYZ, Yxy, Yl, W, WB, L*C*H*, ΔL*C*H*, ΔE*, CMC(2:1), CMC(1:1), ΔE94, LCH, ΔLCH, ΔE, HVC, APHA, Gardner, Spectral reflection rate.
Interface	Printer/ Parallel port (D-sub 25 pin) PC/Serial port (D-sub 9 pin)
Dimensions	340mm(W)×440mm(D)×255mm(H)
Weight	17kg
Power supply	AC power supply
Power consumption	200VA
Standards	Complies with JIS Z 8722, ISO 7724, DIN 5033 ASTM D 2244, ASTM E 308, ASTM E 313
Printer	(Option) PRINTY 2

※As part of ongoing policy of product improvement, these specifications are subject to change without prior notice.