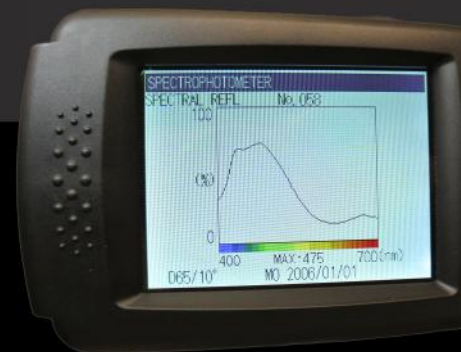


SPECTROPHOTOMETER

ihara-us.com

S300



IHARA

S300

SPECTROPHOTOMETER

UNPARALLELED PERFORMANCE

Built to exacting standards with excellent accuracy, repeatability, and inter-instrument agreement.

EASY OPERATION

Intuitive menu-based user interface
Built-in help functions

OPTICS, MEASURING RANGE

45°/0° Geometry
400nm-700nm range with 5nm interval

MEASUREMENT DIAMETER

φ 3mm or
φ 10mm

HIGH PRECISION

$\Delta E^*ab \leq 0.05$

VARIETY OF FUNCTIONS

Spectral reflectance
Chromaticity ($L^*a^*b^*$, $L^*u^*v^*$, Hunter Lab, etc.)
Color difference equations
(ΔE^*ab , ΔE_{cmc} , ΔE^*_{94} , etc.)
Full densitometric functions

GRAPHIC DISPLAY

Large 320 x 240 color graphic LCD

COMMUNICATION PORT

USB, RS232C

SOFTWARE SUPPORT

Includes PC data communication software.
Third party quality control software supported.

INDUSTRY STANDARDS

JIS Z 8722, ISO 7724, DIN 5033.5036.6174,
ASTM D 2244. E 308. E1164, JIS K 7654, ISO 5/4,
ANSI PH 2.17, DIN 16536



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S300 SPECTROPHOTOMETER SPECIFICATIONS

- **DIMENSIONS**
204mm(L) x 80mm(D) x 80mm(H)
- **WEIGHT**
Approximately 650g (including battery)
- **APERTURE DIAMETER**
φ 3mm or φ 10mm
- **LIGHT SOURCE**
LED
- **MEASUREMENT GEOMETRY**
45°/0° ring illumination
- **SPECTRAL RANGE**
400nm-700nm with 5nm spectral interval
- **MEASUREMENT RANGE**
0 to 200% reflectance
- **ILLUMINANT TYPE**
A, C, D50, D65, F2, F6, F7, F8, F10, F11, F12
- **STANDARD OBSERVERS**
2°, 10°
- **FILTER RESPONSE**
ISO: STATUS-T, E, A, I
DIN: Wide, Narrow
- **MEASURING TIME**
Approx. 1 second
- **DISPLAY**
320 x 240 Color Graphic LCD
- **OPERATING TEMPERATURE RANGE**
5°~40° C
- **INTERFACE**
USB, RS-232C
- **MEASUREMENTS PER CHARGE**
Approx. 1,500
- **POWER SOURCE**
Li-Ion 3.7V-3,240mAh
- **MEASUREMENT FUNCTIONS COLOR VALUES**
Spectral Data (Values/Graphs), XYZ, Yxy, $L^*a^*b^*$, $L^*C^*h^*$, $L^*u^*v^*$, Hunter Lab, Whiteness (CIE, Tw, E313), YI (D1925, E313), M factor (ISO-13655) M0, M1, M2
Density, Pass/Fail Function, sRGB, ΔXYZ , ΔYxy , $\Delta L^*a^*b^*$, $\Delta L^*C^*H^*$, $\Delta L^*u^*v^*$, Δ Hunter Lab, ΔWI (CIE, Tw, E313), ΔYI (D1925, E313), Δ Density
- **COLOR DIFFERENCE**
 ΔE^*ab , ΔE_{cmc} , ΔE^*_{94} , ΔE^*_{uv} , ΔE Hunter, ΔE_{fmc-2} , ΔE_{00} , ΔE^*_{99} , Δ CMYK
- **DENSITOMETER FUNCTIONS**
CMYK Density, Density Difference, Dot Area, Dot Gain, Ink Trap
- **REPEATABILITY**
 $\Delta E^*ab < 0.05$ (φ 10mm, standard deviation for average value source 20 times measurement of white board)
- **DATA STORAGE**
400 Data
- **REFERENCE COLORS**
40 Data (direct key entry or from stored data)
- **AC ADAPTER**
DC 5V-2A 100-240V
- **RECHARGE TIME**
Approx. 3 hours
- **LANGUAGE OPTIONS**
English, Spanish, French, Japanese
- **STANDARD ACCESSORIES**
Calibration Board, Zero Cap, AC Adapter, CD Manual, USB Cable, Carrying Case

Specifications subject to change without notice. Printed in USA

