

SPECTROPHOTOMETER

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IHARA

S900 SPECTRO PHOTOMETER

PORTABLE TYPE

Small and light weight spectrophotometer.

EASY OPERATION

- Menu-based operation screens
- Assistance function
- Online help key

OPTICS, MEASURING WAVELENGTH AND OUTPUT INTERVAL

- 0/45°
- 400nm-700nm
- 10nm

MEASUREMENT DIAMETER

- ϕ 10mm (standard)
- ϕ 3mm
- ϕ 2mm

HIGH PRECISION (REPEATABILITY)

$\Delta E^*ab \leq 0.05$

VARIETY OF FUNCTIONS

- Spectral reflectance
- Chromaticity (X•Y•Z, L*a*b*, etc.)
- Color difference equations (ΔE^*ab , ΔE_{CMC} , ΔE^*94 , etc.)
- Densitometer functions (C•M•Y•K Display)

GRAPHIC DISPLAY

Large-sized graphic LCD (enables display of the spectral reflectance graph)

USER FRIENDLY

- Selectable language
- Left or right hand display option
- Sound control

EXTERNAL COMMUNICATION FUNCTION

In addition to RS232C, an infrared communication port (IrDA) is provided for wireless communication with a computer.

VARIETY OF SOFTWARE EQUIPMENT (OPTIONAL)

S900 SPECTROPHOTOMETER SPECIFICATIONS

- **DIMENSIONS**
212mm(L) x 77mm(D) x 84mm(D)
- **WEIGHT**
Approximately 770g (including battery)
- **POWER SOURCE**
Ni-Cd (4.8V-800mAh)
- **LIGHT SOURCE**
Halogen Lamp (Approx. 2856° K)
- **OPTICS**
0-45°, Double Beam Optical Fiber System
- **SPECTRAL DEVICE**
Interference filter (Bandwidth 14nm)
- **RECEIVER**
Photodiode
- **SPECTRAL RANGE**
400nm-700nm
- **SPECTRAL INTERVAL**
Measurement: 20nm
Output: 10nm
- **APERTURE DIAMETER**
 ϕ 10mm (standard), ϕ 3mm, ϕ 2mm
- **ILLUMINANT TYPES**
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
- **MEASUREMENT RANGE**
0 to 200% reflectance
- **REPEATABILITY**
 $\Delta E^*ab \leq 0.05$ (ϕ 10mm, standard deviation for average value source 20 times measurement of white board)
- **MEASURING TIME**
Approx. 2 seconds
- **INTERFACE**
RS-232C Serial interface for printer (9,600bps, 8 Data bits, No Parity, 1 Stop bit)
- **MEASUREMENT FUNCTIONS COLOR VALUES**
Spectral Data (Values/Graphs), XYZ, Yxy, L*a*b*, L*C*h*, L*u*v*, Hunter Lab, Whiteness (3 varieties), YI (2 varieties), MI, Density, Pass/Fail Function, sRGB, ΔXYZ , ΔYxy , $\Delta L^*a^*b^*$, $\Delta L^*C^*H^*$, $\Delta L^*u^*v^*$, Δ Hunter Lab, Δ Whiteness (3 varieties), Δ YI (2 varieties), Δ Density
- **COLOR DIFFERENCES**
 ΔE^*ab , ΔE_{CMC} , ΔE^*94 , ΔE^*UV , ΔE Hunter, ΔE_{EMC} 2
- **DENSITOMETER FUNCTIONS**
CMYK Density, Density Difference, Dot Area, Dot Gain, Print Contrast, Ink Trap, Hue Error, Grayness, Saturation, Cast, Brightness, Auto Function, Dot Analysis, Plate Dot Area
- **MEASUREMENT AVERAGING**
Possible
- **DATA STORAGE**
400 Data
- **REFERENCE COLORS**
40 Data (direct key entry or from stored data)
- **DISPLAY**
128x64 Dot Graphic LCD
- **RIGHT OR LEFT HANDED VIEW**
Possible to adjust the viewing direction of the LCD
- **LCD CONTRAST ADJUSTMENT**
Installed
- **OPERATIONAL KEY**
6 Seat Keys (Including 3 Function Keys)
- **AC ADAPTER**
DC 9V-500mA Center-negative
- **RECHARGE TIME**
Approx. 1.5 hours
- **MEASUREMENTS PER CHARGE**
Approx. 1,000 (Internal Testing)
- **BATTERY STATUS INDICATOR**
Displayed on the LCD
- **SOUND CONTROL**
Possible
- **WARM UP TIME**
None
- **AUTO POWER OFF TIMER**
4 Selections (Including Disability)
- **OPERATING TEMPERATURE RANGE**
5-40° C
- **INTELLIGENCE FUNCTION**
Infrared Communication, RS-232C output (It is possible to transfer the data into MS-Excel 97 worksheets directly using the optional software.)
- **TEMPERATURE SENSOR**
Installed* (Re-calibration message is displayed when temperature shifts.)
- **STANDARD ACCESSORIES**
Calibration Board, Zero Cap, AC Adapter, Operation Manual, Carrying Case
- **OPTIONS**
PR-95 Printer, Serial Interface Cable, Software

Specifications and appearance subject to change without notice. Printed in USA

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