

IHARA

NEW!

PORTABLE SPECTROPHOTOMETER

MODEL S900



DIMENSIONS: 212mm(L)x77mm(D)x84mm(H)
WEIGHT: Approx. 770g (Including battery)

FEATURES

PORTABLE TYPE

Small and light weight

OPTICS, MEASURING WAVELENGTH, OUTPUT INTERVAL

0/45°, 400nm-700nm, 10 nm

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.), and Densitometer functions (C•M•Y•K Display).

EXTERNAL COMMUNICATION FUNCTIONS

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

VARIETY OF SOFTWARE EQUIPMENT (OPTIONAL)

This small, light weight portable spectrophotometer is designed for easy operation and high precision for a variety of functions.

MODEL S900

PORTABLE SPECTROPHOTOMETER

FEATURES

PORTABLE TYPE

Small and light weight spectrophotometer

EASY OPERATION

Menu-based operation screens, Assistance function, On-line help key

OPTICS, MEASURING WAVELENGTH, and OUTPUT INTERVAL

0/45°, 400nm-700nm, 10 nm

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.), and Densitometer functions (C•M•Y•K Display)

GRAPHIC LCD

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)

SPECIFICATIONS

Model	Spectrophotometer S900	Measurement Averaging	Possible
Dimensions	212mm(L)x77mm(D)x84mm(H)	Data Storage	400 Data
Weight	Approx. 770g (Including Battery)	Reference Colors	40 Data (direct key entry or from stored data.)
Light Source	Halogen Lamp (Approx. 2856° K)	Display	128x64 Dot Graphic LCD
Optics	0-45°, Double Beam Optical Fiber System	Right or Left Handed View	Possible to adjust the viewing direction of the LCD.
Spectral Device	Interference filter (Bandwidth 14nm)	LCD Contrast Adjustment	Installed
Receiver	Photodiode	Operational Key	6 Seat Keys (Including 3 Function Keys)
Spectral Range	400nm-700nm	Power Supply	Ni-Cd (4.8V), 800mAh
Spectral Interval	Measurement: 20nm, Output: 10nm	AC Adapter	DC 9V-500mA Center-negative
Aperture Diameter	φ 10mm (Standard), φ 3mm, φ 2mm	Recharge Time	Approx. 1.5 hours
Illuminant Types	A,C,D ₅₀ ,D ₆₅ , F2, F6, F7, F8, F10, F11, F12	Measurements per Charge	Approx. 1,000 (Internal Testing)
Standard Observers	2°,10°...	Battery Status Indicator	Displayed on the LCD
Filter Response	ISO:STATUS-T, E, A, I DIN: Wide, Narrow	Sound Control	Possible
Measurement Range	0 to 200% reflectance	Warm up Time	None
Repeatability	$\Delta E^*_{\leq 0.05}$ (φ 10mm, standard deviation for average value source 20 times measurement of white board)	Auto Power Off Timer	4 Selections (Including Disability)
Measuring Time	Approx. 2 Seconds	Operating Temperature Range	5-40° C
Measurement Functions	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, ΔL*a*b, ΔL*C*H*, ΔL*u*v*, ΔHunter Lab, ΔWhiteness (3 varieties), ΔYI (2 varieties), ΔDensity	Intelligence Function	Infrared Communication, RS-232C output (It is possible to transfer the data into MS-Excel 97 worksheets directly using the optional software.)
Color Values		Temperature Sensor	Installed*(Re-calibration message is displayed when temperature shifts.)
Color Differences	ΔE^*_{ab} , ΔE_{CMC} , ΔE^*_{94} , ΔE^*_{UV} , ΔE Hunter, $\Delta E_{EMC 2}$	Standard Accessories	Calibration Board, Zero Cap, AC Adapter, Operation Manual, Carrying Case
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	Options	PR-95 Printer, Serial Interface Cable, Software

* Design and specifications subject to change without notice.

(Asia and Oceania)	(North and South America, Europe & all other global sales))
Ihara Electronic Industries Co., Ltd.	Ihara U.S., Inc.
2077 Kamitaraga-cho, Kasugai, Aichi 486-0801, Japan Ph. +81 (568) 81-6824 Fax. +81 (568) 81-6040 E-mail: color-sales@ihara-group.com	25030 Avenue Tibbitts, Building K, Valencia, CA 91355, USA Ph. +1 (661) 257-5772 Fax. +1 (661) 257-5880 E-mail: ihara@ihara-us.com Web Site:www.ihara-us.com
	