

# S1100 Series Visible Spectrophotometers



S1100 Series is designed for use with ½" (13mm) round tubes or 10mm square cuvettes. Tube holders available for COD, ¾" and 1" tubes. An adapter is supplied for 10mm square cuvettes.

High quality silicon photodiode detector and 1200 lines/mm grating assures high performance. Auto zero function, press-button blanking and built-in filters for easy operation. Large digital display for easy readout. A tool-free and alignment-free lamp change reduces the need for instrument service.

The Model S1100RS features optional Windows® based software for easy data collection and application expansion to Standard Curve and Kinetics. Data can be easily exported to Microsoft Excel® for further processing and analysis.

Model S1100 has Absorbance, Transmittance with Analog output. Model S1100RS has RS-232C output and additional Concentration and Factor modes.



S1100



S1100RS

## Specifications

Model	S1100	S1100RS
Wavelength Range	335nm – 1000nm	335nm – 1000nm
Bandwidth	20nm	10nm
Optical System	Single beam, grating system 1200lines/mm	Single beam, grating system 1200lines/mm
Wavelength Accuracy	±2nm	±2nm
Wavelength Repeatability	±1nm	±1nm
Photometric Range	0-125%T, 0-2.0A	0-125%T, 0-2.0A, 1-999C (0-1999F)
Photometric Accuracy	±2%T	±1%T
Stray Light	<0.5%T at 340nm & 400nm	<0.5%T at 340nm & 400nm
Output	Analog Port	RS-232C Interface
Sample compartment	Accommodates 1 inch round tube with optional holder	
Light Source	Tungsten Halogen Lamp	Tungsten Halogen Lamp
Power Requirements	115V/230V switchable	115V/230V switchable
Instrument Dimensions	408mm x 308mm x 180mm 16" (W) x 12" (D) x 7" (H)	408mm x 308mm x 180mm 16" (W) x 12" (D) x 7" (H)
Instrument Weight	6kg (13 lbs)	6kg (13 lbs)

## Ordering Information

- S1100** Model S1100 Spectrophotometer – 20nm bandwidth, Analog output port. Complete with 10mm test tube holder, 10mm test tube (box of 12), square cuvette adapter, dust cover, and operator's manual. Voltage preset at 110V.
- S1100E** Same as S1100 but voltage preset at 220V.
- S1100RS** Model S1100RS Spectrophotometer – 10nm bandwidth, RS-232C port. Complete with 10mm test tube holder, 10mm test tube (box of 12), square cuvette adapter, dust cover, and operator's manual. Voltage preset at 110V.
- S1100RSE** Same as S1100RS but voltage preset at 220V.
- S1100-401** Application Windows®-based software for PC. Programs include Standard Curve, Abs/%T/Conc., Abs. vs Time. Includes RS-232C serial cable (#S1100-226).
- S1100-101** Experimental/operators manual for UNICO 1100 and 1200 series. Experiments include Beer-Lambert, Absorption spectrum, Ksp of PbI<sub>2</sub>, Chlorophyll, Protein (Biuret test), and more. Includes teacher's guides, illustration, and answers to questions (160 pages).
- S1100-102** Test tube holder for 13mm diameter (10mm pathlength) test tube (included with instrument).
- S1100-103** Square cuvette adapter for 10mm square cuvettes (included with instrument).
- S1100-113** Test tube holder for ¾ inch test tubes.
- S1100-114** Test tube holder for 1 inch test tubes.
- S1100-115** COD vial holder.
- S1100-505** Replacement Tungsten Halogen Lamp.
- S1100-521** Allen Wrench (for sample holder installation).



The Reliable and Simple Visible Spectrophotometers