S1205 Visible Spectrophotometers

UNICO S1205 is a new, advanced design, expanding on the capabilities of its analog cousin, the S1200.   The S1205 is an all digital, fully programmable spectrophotometer with 5nm accuracy and push button, digital key pad wavelength change. This versatile instrument features a wide sample compartment and can accept cuvets up to 50 mm path-length and a variety of accessories. The wide path length and optional accessories make this unit ideal for water testing, environmental and petroleum industry testing.

The S1205 has a high quality silicon photodiode detector and 1200 lines/mm grating assures high performance. Easy to read four (4) line digital display and built-in filters make your tests a snap. Features quick and easy automatic blanking with the push of a button.

Turn your S1205 into a very cost effective scanning spectrophotometer with the optional Windows based software package. The S1205 is capable of storing and recalling up to 200 standard curves and 500 test data results in its integrated memory. The S1205's feature both a USB and RS232 ports for interfacing with a computer. The S1205 features optional Windows® based application software for easy data collection and application expansion ranging from wavelength scanning; to standard curve, kinetics, Abs. and %T. Data can be easily exported to Microsoft Excel® for further processing, analysis and storage. Software is designed for Windows 2000, ME and XP.

With a variety of optional accessories, the easy-to-use S1205 is ideal for any standard spectrophotometer applications, while staying within a conservative budget. Model S1205 comes standard with a 4-cell square 10 mm path length cuvet changer, set of two optical glass square cuvets, manual and dust cover.
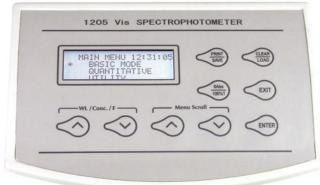
Wavelength Scanning Software:

Use the optional software to do a complete wavelength scan, or set the range of scan that best fits your application.

1. Automatically record peaks and valleys

2. Re-scaling axes, curves

CE approved

Close-up view of S1205 instrument panel with four-line digital display.

USB and RS-232 ports.

Item No.	Description
S1205	Model S1205 with 4 position cell holder, 5nm, 110V
S1205E	Model S1205E with 4 position cell holder, 5nm, 220V
S1205-401	UNICO Application Software for PC's
S90-301	Round Optical Glass Cuvets, 10 mm, Box/12
S90-304G	Square Optical Glass Cuvets, 10 mm, Pk/2

Contact UNICO for pricing, additional parts and accessories

S1205 Features and Specifications:

• Self-Calibration Feature: Instrument can perform an automated system check and calibration covering: Bulb, filter positioning, and wavelength check
• Utility Folder: From the List, the user can select Recalibrate System, Check Dark Current for diagnostic purposes, re-set time, and more
• Programmability:
  1. Can pre-pre-program up to 200 test methods, and store 500 results
  2. Program Test and Workflow Management: Can create list(s) from the "RUN TEST LIST Menu", of favorite tests, or most commonly used tests, or for a specific sequence of tests you plan to run, etc.
• USB port for data transfer and software upgrades (upgrades are no charge).
• Memorize the settings of last test, wavelength, settings, filter, etc.
• With the S-1205 Windows based software, has a scanning feature of the full wavelength range. User can define the scanning range, starting and ending wavelength, or do a full visible wavelength range scan from 325-1000 nm

S1205	
Wavelength Range	325 - 1000 nm Visible Wavelength
Slit Width	5 nm
Optical System	Single Beam, Grating System 1200 lines/mm
Wavelength Accuracy	± 2nm
Wavelength Repeatability	± 1nm
Wavelength Resolution (display)	1nm
Photometric Accuracy	±0.004 A at 0.5 A
Photometric Range	0% T to 125% T
	-0.3 to 2.5 A
	-9999 to 9999
Photometric Repeatability	±0.003 A at 0.5 A
Stray Light	Less than or equal to 0.3% T at 340 nm
Stability	±0.002 A/hr at 500 nm after 1 hr. warm-up
Baseline flatness	±0.010 A with software
Display	LCD (4 line x 20 characters)
Light Source	Tungsten Halogen Lamp
Control Buttons	9 buttons
Printer Port	RS-232
PC Communication Port	USB
Cuvet Capacity	Up to 50 mm pathlength (with longpath cell holder, optional)
Cell Holder	Single or 4 cell, manual
Abs / %T Mode	Display: Abs and % T
Quantitative Mode	Standard curve: 1st through zero, 1st, Factor
Memory Capability	Up to 200 standard curves
Utility	Dark current, system self calibration
Power Requirements	100-240 VAC, 100W
Instrument Dimensions	20"W x 17"D x 8"H
	420mm x 340mm x 180mm
Instrument Weight	19 lbs (8.5 kg)
Warranty	One year

Accessories for Models S1200 and S1205

S1200-101 with cell

Universal Test Tube Holder (Cat. No. S1200-101)

Universal test tube holder with base for 8 to 25mm diameter test tubes including COD.

Single Cell Holder (Cat. No. S1200-102)

Single cell holder with base for 10mm square cuvets.

S1200-102

Four-Position Cell Holder (Cat. No. S1200-103)

Four-position cell holder for 10mm square cuvets.

S1200-103 with cells

Longpath Cell Holder (Cat. No. S1200-104)

Longpath four-position cell holder for up to 50mm rectangular cuvets.

S1200-104

Water-jacketed Cell Holder (Cat. No. S1200-105)

Water-jacketed 10mm single cell holder with base and panel for temperature control applications (requires water bath).

S1200-105

Two-in-One Cell Holder (Cat. No. S1200-108)

Holds either a 100mm square or a 10mm round cuvet.

S1200-108