



# Spectro 23 & 23RS



**Spectro 23 & 23RS** are traditional analytical instruments used in conventional laboratories with advanced technology of built-in interface RS-232C on Spectro 23RS. The interface enables this spectrophotometer to communicate with any IBM compatible computer and printer. With the RS-232C, port, and the UV-VIS software enables this instrument to be linked to a computer and a printer to display the photometric and spectral data on the PC monitor. The superior machinery of Spectro 23 & 23RS analyzes, stores, records, and prints test results swiftly and consistently. This spectrophotometer can work in the Visible, Near-Ultraviolet, and Near Infrared Spectral Range and it perfectly suited for quantitative and qualitative analysis. This spectrophotometer **delivers enhanced ease-of-use, precision and accuracy resulting in time and cost savings**. This new generation instrument is equipped with a microprocessor to automatically adjust 100 % T and Zero ABS, Factor and Concentration. This economical four cell visible spectrophotometer is ideal for small laboratories, biochemical labs, clinical labs, and educational institutions. This spectrophotometer uses soft key pad and delivers enhanced ease-of-use, precision and accuracy resulting in time and cost savings, as well as unprecedented confidence in test results. It has a continuous **wavelength ranging from 330 nm to 1100 nm**.

Spectro 23 RS is able to analyze and record four sample results immediately. Furthermore, Spectro 23 RS may save the reagents and samples by using the optional semi-micro cuvette of 1.5 ml or less to help reduce waste. Spectros 23 & 23RS are **rugged, reliable, low cost, and maintenance free**. This instrument simplifies analysis and increases measurement capabilities for routine applications in various fields such as chemistry, biochemistry, agricultural, petrochemistry, environmental protection, science classes, educational laboratories and general analytical industry. This Spectro can use 13x100mm test tubes.

Labomed, Inc. is certified by ISO-9001-2000, has CE Conformity and is FDA Licensed.

## Features

- *A very durable instrument.*
- *Can use Test Tube and large cell 20-30-40-50mm.*
- *Wide, continuous wavelength ranges for test flexibility.*
- *Automatic absorption, transmission and concentration by microprocessor*
- *High photometric and wavelength accuracy for the best results by having a 6 nm bandwidth.*
- *Low stray radiant energy and noise for unequivocal readings, even at high absorbencies.*
- *Excellent stability characteristics for reliable test results.*
- *Auto zero/Auto calibration.*
- *Carefully designed. Easy operation and maintenance.*
- *High absolute reading accuracy, outstanding stability and reproducibility with distinct digital display.*
- *F.D.A. Licensed.*
- *Very competitive price.*
- *Can be applied for constant temperature & kinetic test by optional parts.*
- *2 testing filters free of charge for testing calibration.*
- *Small printer is available for date printout as an option, (No computer or software required)*
- *Optional flow cuvette - Temperature.*

## Accessories

4 square cells 10mm.  
1 operation manual CD  
1 dust cover.

2 filters with holder for accuracy test.  
1 multiple cell holder for 4 cells.  
1 cable.

Optional: Large Cell holder  
Optional: Large Cell holder 20-30-40-50mm.  
Optional: Test tube 13x100mm.

## Technical Specifications

Optical System:	Single Beam	Absorption Range:	0-1999 (A)
Wavelength Range:	330-1100nm	Concentration Range:	0-2000
Light Source:	Tungsten-Halogen Lamp	Photometric Accuracy:	+0.5% (T) +0.004A
Detector:	Silicon Photodiode	Transmittance Reproducibility:	0-100%T. 0.5% (T)
Wavelength Accuracy:	2nm	Monochromator:	Grating Mirror 1200 Lines/nm
Wavelength Reproducibility:	0.5nm	Multi Cell Holder:	4 Cuvettes
Spectral Band Pass:	6nm	Power Supply :	230V. 50Hz/110V 60Hz
Stray Light:	<0.5%T. at 360nm	Dimensions:	22"(W) x 14" (D) x 11½" (H)
Transmittance Range:	0-100% (T)	Net Weight :	35 Lbs.