



Spectro 23 and Spectro 23 RS Digital Spectrophotometer



Spectro 23 and Spectro 23 RS

The **Spectro 23** is a low cost, durable, easy to use, **6nm spectral bandwidth** spectrophotometer which can work in the range of 330 to 1000nm for quantitative and qualitative analysis. The Spectro 23's new generation technology uses a microprocessor for **automatic adjustment of 100% T/Zero absorption**, Factor and Concentration. Most knobs have been eliminated and replaced by soft keys making the Spectro 23 much **easier to use**. The **4 position multiple cell holder** of the Spectro 23 allows you to manually test four samples at once. Furthermore, the Spectro 23 saves reagents and samples and reduces waste by allowing you to use **optional semi-micro cuvettes** and

sample volumes of less than 1.5 ml. The **Spectro 23 RS** is the same as the Spectro 23 except that it also has a built-in **RS232C interface**. When used with the RS-232C interface and PC software, the 4 position multiple manually operated cell holder allows you to communicate with any IBM compatible computer and printer to test, store, and print test results. The Spectro 23 and the Spectro 23 RS have **hundreds of applications** in fields such as water analysis, municipal and industrial wastewater testing, environmental testing, agricultural research, biochemistry research, clinical chemistry, science teaching, and general industrial quality control.

Features

- Designed for easy operation and maintenance
- Distinct digital display
- Automatic 100%T/Zero A/Zero concentration setting
- High photometric and wavelength accuracy
- Low stray radiant energy and noise for accurate readings, even at high absorbance
- Excellent stability characteristics
- Wide, continuous visible wavelength range for test flexibility: 330 – 1000nm
- Available options for constant temperature & semi-automated testing
- Very competitive price
- F.D.A licensed
- Optional cell holders for test tube and rectangular cuvettes of various path lengths

Accessories

- Two performance testing filters included
- 4 square cells (optical glass), 10mm path length, included
- Instruction book
- Dust cover
- **Optional:** Cell holder for 10-15-20-25 mm diameter test tube cuvettes
- **Optional:** Holder for rectangular cells with path lengths of 20-30-40-50 mm
- **Optional:** Constant temperature system for kinetic testing
- **Optional:** Flow through system
- **Optional:** PC software for Spectro 23 RS
- **Optional:** External printer for Spectro 23 RS (Does not require PC)

Technical Specifications

Optical System:	Single Beam Spectrophotometer	Absorption Range:	0-1999 (A)
Wavelength Range:	320-1100nm.	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 11 _ (H) Inches
Transmittance Range:	0-100% (T)	Net Weight :	35 Lbs.