

TRUE DOUBLE BEAM ATOMIC ABSORPTION SPECTROPHOTOMETER SL 243

SL

SALIENT FEATURES AND BENEFITS

- 7" High Resolution Touch Screen LCD Color Graphical Display
- SUPPORTS USB PEN DRIVE TO STORE / RETRIEVE MASS SPECTRAL DATA
- BUILT-IN PC Control with Advanced capability for Data Processing, Processing, Storage, Retrieval, Interpretation, etc.
- Background correction with D₂ lamp source
- Auto Burner Height Optimization, and maximum ABS adjustment of burner through membrane keyboard
- Auto Flame control
- Integral Microcontroller based auto gas box with all safety features
- Supports USB Printing with PCL Class Printers



**BUILT-IN
WINDOWS BASED PC**



APPLICATIONS

- **For analysis of various metallic constituents in**

Soil

Fertilizer

Micro Nutrients

Plants

Pesticides

Foods

Water

Biological Matter

Metallurgy

Plating

Coal

Petrochemicals

Glass

Cement

Steel

Others

SPECIFICATIONS

PARAMETER

SPECTRAL	
Range	185 to 900 nm
Bandwidth	Auto select in 8 steps from 0.1 to 2.5 nm
PHOTOMETRIC	
Range	0 to 2 Abs
LIGHT SOURCE	
	Hollow cathode lamp (HCL)
BACK GROUND CORRECTION	
	Deuterium Lamp (D ₂) - Optional
BURNER	
	Titanium construction, Premix, laminar flow, 100 mm burner for Air – Acetylene (C ₂ H ₂)
FUEL	
	Acetylene (C ₂ H ₂)
OXIDANT	
	Air/Nitrous Oxide (N ₂ O)
FLOW CONTROL	
	Optional: Integral auto gas control system and panel flow meters, Automatic flame change over
SAFETY FEATURES	
	Full safety interlock including pressure sensors, power failure, Protection, auto ignition, flame failure detection & burner recognition
NEBULIZER	
Sample feed rate	Pneumatic, with 90% platinum and 10% iridium alloy capillary 3 to 8 ml/min (adjustable)
DATA PROCESSING	
Built-In Advanced Capability	1. Absorbance, 2. Concentration (standard addition and calibration), 3. Curve fit (Quadratic and Least Squares), 4. Energy Profile, 5. Emission, 6. Printing MS Office Tools
MONOCHROMATOR	
	Czerney Turner 1/3 m with 1800 lines/mm holographic diffraction grating and hard coated optics with full temperature compensation. Reciprocal, linear, dispersion is 1.5 to 2.0 nm/mm
DETECTOR	
	Wide range Photo Multiplier Tube (PMT)
SYSTEM UPGRADATION	
	Instrument can be upgraded to hydride and cold vapor generator