



KLABS KAAS-241 Double Beam Atomic Absorption Spectrophotometer



Product Description

The KLABS KAAS-241 Double Beam Atomic Absorption Spectrophotometer is a high-performance computer-controlled analytical instrument designed for precise elemental analysis. It features true double beam optics, automatic gas control, an 8-lamp turret, and user-friendly software for reliable laboratory performance.

Features

- Automatic gas control
- Highly stable and accurate
- True Double Beam Optics
- 8 lamp turret
- Range 185–930 nm
- 1800 lines grating (USA)
- Variable bandwidth 0.1 to 2 nm
- User-friendly software



PC
CONNECTIVITY



SOFTWARE
CONTROL SWS



AUTOMATIC
GAS CONTROL



EASY
OPERATION



USB
CONNECTIVITY

Technical Specifications

Parameter	Specification
Product Name	Double Beam Atomic Absorption Spectrophotometer
Model Number	KAAS-241
Parameter	Computer controlled, high performance, optically double beam Atomic Absorption Spectrometer
Optics	Real-time double beam with Deuterium background
Monochromator	CZ design with 330 mm focal length, 1800 line/mm grating and 185–930 nm wavelength range. Automatic emission wavelength selection and peaking. Continuously variable slits with 0.2 to 2 nm spectral bandwidth. Automatic wavelength scanning. Selected wide range
Detector	High-performance multi-alkali Photomultiplier tube R928
Motorized Lamp Turret	Eight lamp motorized turret with automatic lamp selection and individual lamp peaking, automatically warmed up. Compatible with standard & coded hollow cathode lamps
Background Correction	Deuterium arc radiation ULTRA FAST-PULSE 1024 Hz background corrector. Wavelength correction range 185–425 nm. Corrects up to 2.5 total absorbances
Automatic Flame Control Unit	Programmable gas controller with digital display of flow. Full safety interlock including built-in pressure regulator on both lines, power failure protection, auto shut down flame, burner drain, door interlock and electronic flame igniter & real-time status sensing, fitted bung and pressure relief bung
Nebulizer	Fully inert nebulizer
Spray Chamber	PTFE spray chamber and adjustable impact bead aerosol
Burner	Titanium burners for $C_2H_2-N_2O$ & C_2H_2 -Air
Sensitivity	Greater than 0.7 abs for 5 mg/L copper solution with an RSD of less than 0.5%. Characteristic concentration of copper 0.030 µg/ml
Output Port	USB connectivity for PC
Software	Windows 10 based user-friendly software
Dimension	100 × 55 × 58 cm (L×H×W)
Weight	65 kg, unpacked
Electrical Requirements	220/240 V AC, 50/60 Hz, 800 VA
Hollow Cathode Lamps	67 Element high-intensity single element available

Application/Uses

- Environmental laboratories
- Pharmaceutical laboratories
- Chemical laboratories
- Food testing laboratories
- Metallurgical laboratories
- Academic & research laboratories
- Trace metal analysis
- Quality control applications

Standard Accessories

- Cathode lamp – 3 Nos
- Acetylene cylinder
- Acetylene cylinder regulator
- Compressor
- Moisture filter
- Software
- USB cable
- Instruction manual

Optional Accessories

- Nitrous Oxide cylinder
- Argon cylinder
- Fume hood
- VGA (Vapour Generation Accessories)