Model :

XMAS-A20

Atomic Absorption Spectrophotometer

XenoMech
Analytical Instruments
The Science Behind Precision

Atomic Absorption Spectrophotometer

FEATURES:

˅ Automatic wavelength alignment
˅ Adjustable spectral bandwidth
˅ Deuterium background correction
˅ Dual flame-hydride methods
˅ Explosion-proof atomizing chamber
˅ Titanium combustion head
˅ USB computer interface
˅ Software-based auto ignition

Overview

Atomic Absorption Spectrophotometer XMAS-A20 supports a wavelength range from 190 to 900 nm. It ensures wavelength accuracy of ±0.15 nm, with automatic turret for ≤6 lamps alignment. An adjustable spectral bandwidth of 0.1 to 2.0 nm enhances element-specific absorbance measurements. Automatic gas path protection and acetylene leakage alarms ensure operational safety during analysis. Ideal for metal element detection in environmental, food, pharmaceutical, and metallurgical laboratories

SPECIFICATIONS:

Model	XMAS-A20
Wavelength Range	190 to 900 nm
Spectral Bandwidth	0.1, 0.2, 0.4, 1.0, 2.0 nm (automatically adjustable)
Wavelength Accuracy	±0.15 nm
Wavelength Repeatability	±0.1 nm
Grating	1800 lines/mm
Baseline Stability	±0.002A (static); ±0.005A (dynamic) per 30 minutes
Light Source	6-lamp auto turret, automatic alignment

Detection Limits (Cu)	0.002 µg/mL
Characteristic Concentration (Cu)	0.015 µg/mL/1%
Precision	RSD ≤ 0.5%
Measurement Methods	Flame method, hydride method
Background Correction	Deuterium background correction
Nebulizer	Efficient glass atomizer (customizable)
Atomization Chamber	Polymer explosion-proof spray chamber
Burner Head	Full titanium, 50 mm or 100 mm combustion head
Ignition Type	Auto ignition
Gas Control	Automatic system
Control System	PC control, auto alignment
Data Processing	Curve, addition, averaging
Output Format	WORD, EXCEL, data/graphic print
Communication Interface	USB, software-based control
Environment Temperature	+15°C to +35°C
Relative Humidity	20% to 80%
Power Requirement	220V (+5% to -10%), 50/60 Hz, 5000 VA
Product Dimension	990 × 430 × 500 mm

Packaging Dimension	1210 × 590 × 680 mm
Net Weight	75 kg
Gross Weight	94 kg

Applications :

Our Atomic absorption spectrophotometer XMAS-A20 is widely used for elemental analysis in scientific research, environmental studies, metallurgy, agriculture, and chemical industries. It ensures precise detection of metals in food, pharmaceuticals, mining, and petrochemical sectors.

Standard Accessories :

Accessory Name	Quantity
Desktop Computer	1PCS
Printer	1PCS
Oil-less Air Compressor	1PCS
Hollow Cathode Lamp	3PCS
Atomizer	2PCS
Main Unit Dust Cover	1PCS
3A Fuse Wire	1PCS
1.5A Fuse Wire	1PCS
Three Core Power Line	1PCS

Main Unit Signal Line	1PCS
Plastic Pipe (φ6mm, φ10mm)	2PCS
Screwdriver	1PCS
Acetylene Hose Clip	3PCS
Acetylene Gas Pipe (3 meter)	1PCS

Optional Accessories :

Accessory Name	Quantity
Hydride Generator	1PCS
Flame Autosampler	1PCS
Hollow Cathode Lamp – Standard Elements (Ca, Mg, Al, Na, Fe, Cu, Ti, Cr, Ni, K, Co, Mn, Sn, Pb)	1PCS
Hollow Cathode Lamp – Silicon (Si)	1PCS
Hollow Cathode Lamp – Zirconium (Zr)	1PCS
Hollow Cathode Lamp – Hafnium	1PCS
Specially Coated Graphite Tubes	1box (10 pcs)