

AAS500 Atomic Absorption Spectrophotometer

Quotation



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Angstrom Advanced Inc.

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Quote Valid Period: 4 months from issue date

1 Description

Features:

- Completely controlled by PC, can flexibly select the flame and graphite furnace atomizer (optional).
- Integrated floated optical platform design improves the optical system shock resistance stable.
- Eight light stands can be changed automatically and preheat the eight lights meantime as well as optimize the working condition of the hollow cathode lamp.
- Position adjusting: the flame burner can be set on the best position automatically.
- Fully automated wavelength scanning and peak searching.
- Complete safety chains protection equipment: warning and automatic safety protection for the wrong burner connection, leakage of the gas, under voltage of air and the abnormal flameout.
- Deuterium lamp and self-absorption background calibration.
- Measuring method: flame absorption method and emission method.
- Result printing: parameter, data result and diagram.
- Data processing: more than 500 data self-storage and cut-off storage, the analyzed result is stored in EXCEL format.

2 Specifications

Technical Parameters:

Model	AAS500
Wavelength Range	190 – 900nm
Wavelength Accuracy	±0.15nm
Wavelength Receptivity	≤0.04nm
Base Line Stability	≤0.002A/30min (Cu)
Characteristic Concentration	0.02µg/ml/1% (Cu)
Detection Limit	0.004µg/ml (Cu)
Measurement Repeatability	≤0.5%
Grating	1800 lines/mm
Inflamer	All-metal titanium burner
Atomizer	Efficient glass atomizer
Lamp stand	8
D2 background Calibration	When the background is 1 A, the background ability should be deducted not less than 50 times; self-absorption background deduction method
Power Supply	110/220V, 50/60Hz
Packing Size (mm)	850*700 *750 (Main instrument) 950*620*1020 (Accessories)
Gross Weight (kg)	105Kg (Main instrument) 100Kg (Accessories)
Standard Accessories	Oil free Air compressor Acetylene regulator Cu Hollow cathode lamp

Optional Accessories	Graphite Furnace Hollow cathode lamp (Ag, Au, Ba, Ca, Cd, Cr, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Pb, Zn, Sb, etc)
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Flame System:

Acetylene Air Burner	100mm
Ignition Dynamic Baseline Drift	≤0.006A/30min
Characteristic Concentration	≤0.025μg/ml/1%(Cu)
Related Standard Deviation of the Accuracy	≤0.5%(Cu, absorbance > 0.8A) (detection limit Cu≤0.008μg/ml)
Safety system	Can automatically cut off the gas when the pressure is not enough, the power is off, flameout and unconformity of the burner.

Graphite Furnace (Optional):

Max. temperature	3000°C
Max Heating Speed	≥2000°C/S
Characteristic Quantity	Cd≤0.5×10 ⁻¹² g Cu≤0.5×10 ⁻¹¹ g
Accuracy	Cu≤3% Cd≤3%
Safety system	Over current protection; Low air pressure alarm/ protection; Low cooling water flow alarm/protection
Power Supply	110/220V, 60/50Hz
Consumption	7000W
Packing Size(mm)	550*450*300
Gross Weight(kg)	65

3 Quotation

Our prices are quoted in US Dollars.

Our prices do not include any taxes (VAT), duty or other costs liable on importation into the country of the customer.

Item	Description	QTY	Unit Price	Total Cost
1	AAS500 Atomic Absorption Spectrophotometer <ul style="list-style-type: none"> 190-900nm wavelength 	1	\$29,800.00	
2	Lamps <ul style="list-style-type: none"> Need 1 lamp for each element to be detected 	TBD	\$190.00	

Optional Items				
3	Graphite Furnace	TBD	\$13,950.00	
4	Furnace Tubes	TBD	\$70.00	
5	Hydride Vapor Generator	TBD	\$4,900.00	
6	Auto-sampler	TBD	\$9,800.00	
				Total
Notes: 1. Mercury Vaporizer Unit: we suggest customers use the Hydride Vapor Generator for this function as well				

Terms & Conditions

- a) Time of Delivery**
8-12 weeks after receipt of order
- b) Ex Works**
Stoughton, MA
- c) Payment Term**
T/T Advance
- d) Period of Warranty**
12 Months from date of delivery

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