

ATOMIC ABSORPTION SPECTROMETER (STANDARD TYPE)

PART No. AAS-D506-U

LIQUID ANALYSIS



- Widely used in metallurgy, petrochemical industry, geology, medicine, environmental protection, scientific research, agriculture, disease control, food industry, materials science, commodity inspection, etc.
- It can analyse more than 70 elements, enabling trace and sub-trace elemental component analysis
- The design of optical system suspension effectively nullifies the impact of vibrations and environmental variations on the optical system
- The flame atomizer, graphite furnace and graphite furnace power supply are ingeniously integrated
- It takes only 2 seconds to automatically switching between flame and graphite furnace
- Overcurrent protection for hollow cathode lamps, low pressure or gas leakage alarm for fuel gas/protection gas, overheating protection for graphite furnace, abnormal flame condition protection



Cu hollow cathode lamp (included)



circulating water chiller (included)



hydride generator (optional)



flame auto-sampler (optional)



graphite furnace auto-sampler (optional)



flame /graphite furnace auto-sampler (optional)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc
Air generator	1 pc
Circulating water chiller	1 pc
Cu hollow cathode lamp (AAS-D506-CU)	1 pc
Standard sample (AAS-D506-BY)	1 pc
Tool	1 set

OPTIONAL DELIVERY

Flame auto-sampler	AAS-D506-FG10
Graphite furnace auto-sampler	AAS-D506-GF20
Flame /graphite furnace auto-sampler	AAS-D506-FGF600
Hydride generator	AAS-D506-HG15-U
Hollow cathode lamp	AAS-D506-□□*

*□□ is analysis element, for example, code AAS-R304-ZN stands for the hollow cathode lamp used to analyze the element Zn

SPECIFICATION

Optical system	lamp position	6 positions*
	wavelength range	190~900nm
	wavelength repeatability	≤0.05nm
	wavelength accuracy	±0.1nm
	shining wavelength	250nm
	resolution	better than 0.1nm
	monochromator	C-T type
	raster line	1800 lines/mm
	spectral bandwidth	five levels auto-matic switching (0.1, 0.2, 0.4, 1.0, 2.0)nm
	baseline stability	≤0.003A/30min (dynamic), ≤0.002A/30min (static)
	Flame system	characteristic concentration (Cu)
detection limit		≤0.003μg/mL
precision		RSD≤0.6%
burner		interchangeable single seam 100mm titanium burner and 50mm stainless steel burner the position and rotation Angle of the front and back of the combustion head are adjustable optional burner automatic lifting function (AAS-D506-AUTO)
Graphite furnace system	characteristic quantity (Cd)	≤0.3×10 ⁻¹² g/1%
	detection limit	≤0.2×10 ⁻¹² g
	precision	RSD≤2%
	temperature control range	room temperature ~3000°C
	temperature control program	maximum 20 steps of heating procedures, ladder, slope, maintain three heating methods
	warming model	light-controlled heating rate: ≥3000°C/s, power heating rate: ≥2000°C/s
Background correction	correction mode	deuterium lamp, optional self absorption background correction (AAS-D506-SPBC)
	correction capability	when background absorption approaches 1.0 Abs, the instrument is capable of a background correction of 60 times or more
Acetylene (C ₂ H ₂)		≥99.9%
Argon (Ar)		≥99.9%
Work environment		59~95°F, ≤85%RH
Power supply		AC 110V, 60 Hz, main unit power: 500W, graphite furnace power: 5kW
Dimension (L×W×H)		34.65×21.26×17.72"
Weight		275.57lb

*Only Cu hollow cathode lamp included and other element lamps need to be optioned

ANALYSIS ELEMENT

Black metal element		Fe, Cr, Mn
Non-ferrous metal element	light metal element	Al, Mg, Na, K, Ca, Sr, Ba
	heavy metal element	Cu, Pb, Zn, Ni, Cd, Hg*, Sn, Sb, Bi
	precious metal element	Au, Ag, Pt, Pd, Rh, Ir, Os, Ru
	metamaterial element	B, Si, As*, Sb, Te
	rare metal element	Li, Rb, Cs, Ti, Zr, Nb, Mo, Ta, W, Ga, In, Ge, Tl, La, Ce, Nd, Y, Sc, etc.

*Analysis of this element requires the selection and configuration of a hydride generator **AAS-R304-HDG**