



Optosky presents a wide range of quality equipments required in day-to-day function of a Chemical Laboratory to Advanced Instruments used for Quality Assurance/Control and Research. Our Single Beam Atomic Absorption Spectrophotometer offers a State-of-the-art technology bundled with many features as a complete economical package.

- Advance technology for intelligent stray light measure and correction
- Original Optical Noise Reduction & Automatic measurement and stray reference materials and increment cost. It improves instruments optical precision, background correction effectively
- Developed interval lamp control technology. It makes normal hollow cathode lamps self-absorption background correction possible without and influence to instruments stability. Meanwhile it will prolong working life of the lamp. Normal hollow cathode lamps are highly economical than special lamps
- Original "Hg lamp-reagent" gradient measurement. we established an exact mathematical model to double beam linear and balance specification. This technology provided a fast and economic metinstrument self testing system. It also established a brand new method to improve instrument's detection Performance.
- Numerous technological innovation and renewal such as design aesthetics, element lamp multi-dimensional automatic adjustment system, gas path electronics functional and modular design, No-adjustment D-lamp holder and soon.

STANDARD CONFIGURATION(Flame)

AAS Main Unit (1 no) Flame Burner Titanium(100 mm)(1 no) Burner mounting plate(1 no), Glass Atomizer(1per(Cu) Hollow Cathode Lamp(1 no), Acetylene regulator(1 no), Tubing and ferrules(5 nos), Aspiration tubes for atomizer(3 nos), sealing washers(5 nos), Waste tube(1 no), Fuses(5 nos), DataRs232(1 no), Power Cable(1 no), Control Software CD(1 no), Hardware lock for control software(1 no), Manual(Softcopy-1 no: Hard copy-1 no)

OPTIONS:

- Graphite Furnace
- Auto-Sampler for Graphite Furnace
- Hydride Generator
- Wide range of Hollow-Cathode Lamps(Single/Multi Element)available on request

Technical Specifications

Optical System	Instrument Type	Single Beam Reflection Achromatic Optics System
	Monochromater	Aberration Corrected Czerny-Turner
	Dispersion elements	Grating system 1200line/mm characterization area 40mm ² Scintillation wavelength 250nm
	Bandwidth	0.1,0.2,0.7,1,2 nm(6 step auto switching)
	WL Range	190-900
	WL Accuracy	±0.2
	WL Repeatability	±0.1 nm max
	Resolution	Min 3 lines (279.5 & 279.8 peak and Valley)
	HCL housing	4 lamp turret (1 for measurement, 3 in warm-up mode)
	Gas control	Automatic control & optimization (flow/pressure)
	Safety measures	Gas Leak check, prevention of gas release when flame dies out, prevention of flashback through pressure monitoring.
Photometric properties	Measurement	A,T,C
	Photometric Range	0-125%,-0.1-3.00A
	Static Baseline Drift	(Cu) +-0.003A/30min
	Dynamic Baseline Drift	(Cu) +-0.006A/30min
	Background Correction	High speed self-reversal (BGC-SR) method: High speed D2 lamp method (BGC-D2)
Atomization System		
Flame	Characteristic Concentration	(Cu) 0.025 µg/ml max
	Detection limit	(Cu) 0.04 µg/ml max
	Precision	RDS =0.5%
	Burner	Water cooled Titanium
	Nebulizer	high-efficient Nebulizer
	Spray chamber	anticorrosion material
	Safety measures	Flame fuel gas, power assisted gas abnormal pressure protection

Date Process	Test Manner	Flam, flame emission
	Concentration	standard curve, standard addition, interpolation

	Times of repetitive	Measurement 1-30 times, Average Value of A&C
	Report Print	parameters, date result
Other	Dimension & Weight (Flame)	700×420×550 mm; 103 kg(approx.)
	Power (Main unit with(Flame)	AC 220 V ±10%, 50 Hz without sharp fluctuations.
	Working Temperature range	10 ~ 30
	Working Humidity range	40% ~ 85%