

ANALYTICAL BALANCES



ANALYTICAL BALANCES (MODEL SL-AI-001)

Accuracy: Fully automatic internal adjustment (FACT)

Brilliant backlit display: Correct reading of results under any light condition.

Robust quality: Full metal housing.

Mono Bloc weighing technology: Including permanent shock and overload protection.

Easy operation: Large, ergonomic touch-sensitive keys.

Specification:

Maximum Capacity	:	510 g
Readability	:	0.001 g
Repeatability	:	0.001 g
Linearity	:	± 0.002 g
Settling time (typical)	:	3 s
Adjustment with internal weights	:	FACT
Adjustment with external weights	:	500 g
Sensitivity temperature drift	:	6 ppm/°C
Interfaces	:	RS232C
Size of weighing pan	:	∅ 100 mm
Free height above weighing pan	:	165 mm
Dimensions	:	245x321x236 mm (WxDxH)

Sun LabTek Equipments (I) Pvt. Ltd.

Corporate Office: B-3A, Shiv Shakti Complex, 1st Floor, East Vinod Nagar, New Delhi-110091, **Tel:** 011-2273 2108/2109

Mob.: +91- 9971-077-233, +91- 9811-888-915 **E-mail.:** Labtekindia@gmail.com, **Website.:** www.labtekindia.com

Works: 88A, Rajendra Nagar Industrial Area, Sahibabad, Ghaziabad-210005 (U.P)

ATOMIC ABSORPTION SPECTROPHOTOMETER



ATOMIC ABSORPTION SPECTROPHOTOMETER (MODEL SL-AI-002)

- Design of Suspension of Optics System. Shaking and Change of Environmental Temperature have No Effect on Instrument Stability.
- First Creation in World, integrating Flame/Graphite Furnace Atomizer, Graphite Furnace Power Supply, and Detection System of Optics and Electronics, together into One Major Unit of Instrument. It is one of the most compact AAS in the world.
- First Creation in China, utilizing Full Titanium Atomizing Cell and Burning System. Adopt Aero-Space High-Tech, Cast the Industrially Pure Titanium Atomizing Cell and Burning Head by Paraffin Method, having Excellent Ability to Resist Corrosion and Oxidation, to Stand High Temperatures, and having Long Working Life.
- Take Lead in Utilizing 1800 lines/mm Diffraction Grating, achieving Sufficient Energy and High Resolution. Single Beam Optics System, obtaining Enough Energy to Achieve Very Low Limit of Detection for Elements of As, Se and etc. Realizing Automatic Switch between Flame/Graphite Furnace in 2 seconds.
- Carefully Designed Deuterium Lamp Background Deduction Technique and Self-Absorption Background Deduction Technique, making Calibration Result Accurate. Optimized Power Supply Techniques Prolong Working Life of Lamp.
- Safe and Reliable Control Alarming Devices, assuring Over-Current Protection for Hollow Cathode Lamp, Insufficient Pressure Protection for Combustion Gas/Protection Gas, Alarming for Leaking of Combustion Gas, Over-Heated Protection for Graphite Furnace, and Protection for Abnormal Flame State.
- Option to HG-01 Hydride Generator utilizing Heated Ceramic Tube, analyzing Elements of As, Pb, Se, Hg and etc. with High Sensitivity.
- Option to Graphite Furnace Automatic Sample Injector, realizing Automatic Preparation of Standard Solutions, thus realizing Fully Automatic Analysis.

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ELISA READER



ELISA READER (MODEL SL-AI-003)

Specification

Weight	:	12Kg
Outline Dimension	:	460mm (L) × 347mm (W) × 195mm (H)
Supply Power	:	AC (220±22) V, (50±1) Hz
Fuses	:	2-φ5×20 BGXP3.15A 250V
Work environment	:	Temperature: +5~+40 Relative humidity: 20%~80%; Atmospheric pressure: 700~1060hPa
Storage temperature	:	-20 ~50
Light Source	:	Tungsten Halogen Lamp, OSRAM64607, 8V/50W
Wavelength	:	405nm, 450nm, 492nm, 630nm
Indication range	:	0.000~4.000A
Reading speed	:	Continuous mode 10s, Stepping mode 20s
Warm-up time	:	10min
CPU	:	ARM core series
Programmable Items	:	500
Interface	:	RS-232 serial, Parallel printer, USB, Mouse and keyboard interface
Display	:	320×240 LCD
Input Mode	:	Touch Screen, Touch pen
Memory Capability	:	2000 Plates-96 holes-test data

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ELISA WASHER



ELISA WASHER (MODEL SL-AI-004)

Specification

Washing tips	:	8 or 12
Washing mode	:	board or lath
Lath quantity	:	1-12 pcs
Washing volume	:	50-450ul (50ul increasing)
Washing times	:	1-10
Pausing time	:	0-9s in lath (1s increasing), 0-60s in board (5s increasing)
Soaking time	:	0-300s (30s increasing)
Stalling time	:	0-30s (1s increasing)
Precleaning time	:	10-60s (10s increasing)
Container volume	:	2L
Programs	:	10
Left volume	:	2ul/hole
Repetition	:	5%
Pressure	:	0.5mPa
Washing volume	:	50ml/board
Prewashing volume	:	15ml
Packing size	:	480×330×130mm
Power	:	220V±22V 50Hz±1Hz
Temperature	:	10 - 30
Relative humidity	:	85%
Weight	:	8Kg

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GAS CHROMATOGRAPHS



GAS CHROMATOGRAPHS (MODEL SL-AI-005)

As one of the advanced products specialized for coal mine safety monitoring, with more than 10 years experience in the field, it has been recognized as an industrial standard by our customers.

Applications:

1. Forecast and predict, in early stage, natural burning in coal, Continuously monitor the patterns and trend of bench mark gas components and concentrations, so to prevent coal natural burning and gas explosion.
2. Monitor the development in closed firing area, providing scientific data for re-opening of work areas in the accidents aftermath.
3. In fire extinguish and fire protection by inert gases, trace and monitor the situation of how the inert gases work in operation area, to help the management developing better policies and guidelines for fire extinguish.

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ION METER



ION METER (MODEL SL-AI-006)

An ION drift meter is a device used to measure the velocity of individual ions in the area of a spacecraft. This information can then be used to calculate the ion drift in the space surrounding the instrument as well as the strength of any electric field present, provided that the magnetic field strength has been determined using a magnetometer.

The device itself works by allowing ions to passthrough an opening at the front of the instrument and measuring the currents produced by the impacts of ions in different locations on a grid at the back. The trajectories of the ions can then be determined.

Specifications:

Spec.	Measuring range	Resolution	Accuracy
Concentration	1.00E-9 ... 9.99E+9 ±	last significant place	±0.5 %
pH	-2.000 ... 19.999 0.001	0.01, 0.1	±0.002
mV (rel. mV) -	1999 ... 1999	0.1	±0.1
Temperature	-30.0 ... 130.0 °C	10.1 °C	±0.1 °C
Sensor inputs	BNC, 2 mm	Ref., Cinch/RCA (NTC)	4 mm banana (PT1000)
Interfaces	(connection to a printer or PC)		
Power requirements	Power module (9 V, DC)		
Size / Weight	190 x 240 x 65 mm / 1065 g		

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ULTRA PURE WATER MACHINE



ULTRA PURE WATER MACHINE

(MODEL SL-AI-007)

Specifications

Type	:	Widespread type lab ultra pure water machine
Application	:	Applicable for standard experiment, trace analysis, atom absorbs fluorescence analysis, bio-chemical analysis, environment analysis, blood serum test, GC, HPLC and so on.
Water Source	:	Tap water 5—40°C pressure 1—5kg TDS <200ppm
Electrical Source	:	220V 50Hz or as per order
Power	:	50W, 100W
Size (mm L*W*H)	:	390*370*170
Weight	:	20 Kg
Tank Capacity	:	20 liters
Output	:	Ultra pure water
Ultrafilterate Film	:	Aperture 0.1µm
UV	:	without
Permeation Capacity	:	8L/h 16L/h 24L/h
Immediate Water Obtaining	:	2L/min
Output Water Quality	:	Conductivity no more than 0.1µS/cm @25°C ,Water quality is better than

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UV VISIBLE SPECTROPHOTOMETER



UV VISIBLE SPECTROPHOTOMETER

(MODEL SL-AI-008)

Specifications

Optical Specifications Wavelength Range	:	190 - 1100 nm
Spectral Bandwidth	:	1 nm
Monochromator	:	Double beam C-T type, grating 1200 lines/mm
Wavelength Accuracy	:	± 0.3 nm
Wavelength Repeatability	:	± 0.2 nm
Wavelength Calibration	:	Automatic at start
Light Source	:	Tungsten Halogen Lamp Deuterium Lamp
Detector	:	Solid Silicon Photo diode
Photometric Readout	:	1/4 VGA 320X240 pixels backlit LCD
Photometric Range	:	0 - 200%T, -0.3 - 3.0A, 0 - 9999C
Photometric Accuracy	:	Better than 0.3% at 0.5A, 1A, 2A
Zero Drift	:	<0.0003A per hour after warm-up
Baseline Flatness	:	± 0.001A
Stability	:	± 0.0004A/h at 500 nm
Stray Light	:	<0.05% at 200 nm and 340 nm
Scanning Capability	:	Yes
Physical Characteristics Standard Sample Holder:	:	4-position Cell Holder
Analogue/Digital Output	:	Digital, RS232 Serial, Centronics Parallel
Dimensions	:	550(L) x 400(W) x 260(H)
Weight	:	25 kg
Shipping Dimensions	:	to be updated
Shipping Weight	:	to be updated
Power Requirements	:	115V/60Hz or 230V/50Hz, switchable
Operating Temperature	:	Room temperature: 22 ± 2° C
Humidity Range	:	85% relative

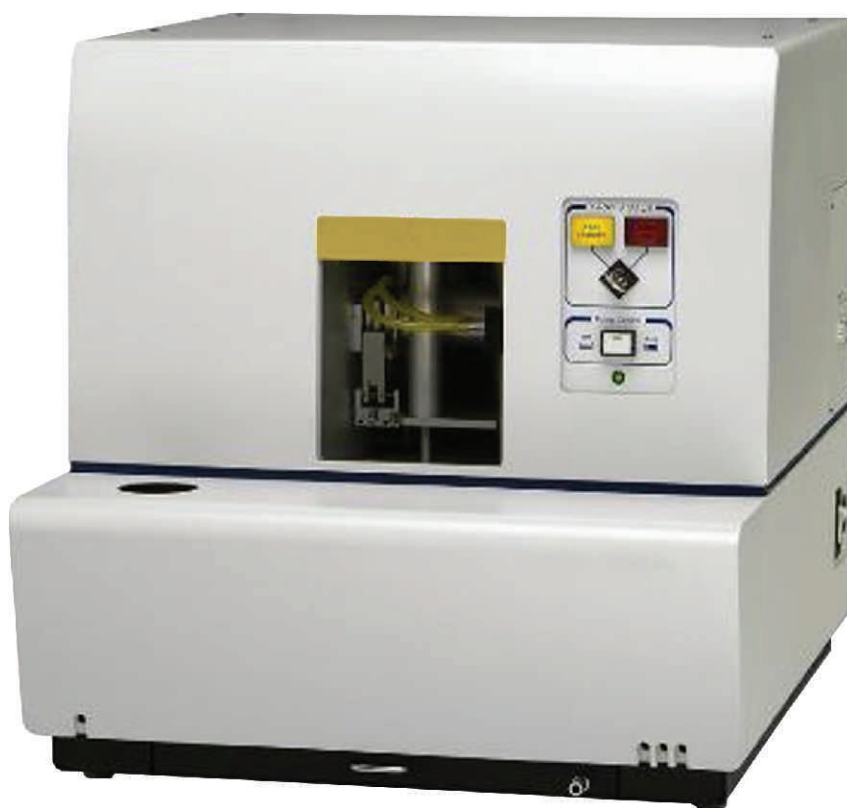
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PARTICLE SIZE ANALYZER



PARTICLE SIZE ANALYZER (MODEL SL-AI-009)

Used to measure the particle size distribution of fine powders especially suitable for the particles of 0.1 - 5 microns

Size Range	:	0.04 - 45 microns
Analysis sedimentation mode	:	Disk centrifugal
Accuracy & Reproducibility	:	< 5%
Centrifuge speed	:	1500rpm & 3000rpm
Sample Cell Volume	:	60 ml
Output items	:	Particle size distribution table & graph; Average diameter, Median diameter, Boundary diameters etc.
Application	:	Used to measure the particle size distribution of fine powders especially suitable for
		the particles of 0.1 - 5 microns.