

Hand held Alloy Metal Analyzer

KA-8L



Performance Features

1. High-speed processing chip, advanced algorithm and high-responsive software, resulting in even faster analysis.
2. High-performance X-ray Tube, Ultra-high Resolution Detector combined with Digital Multi-channel Processing Technology, yielding super-high detection resolution.
3. Industrial resistive touch screen, superior to capacitor screen in back-light and clearer against sunlight in the field. At the same time, people don't need to take off gloves when they are operating machine in some particular environment.
4. Anti-slip, abrasion resistance and streamlined design, which is light and easy to carry. It also integrates the new high speed digital multi-channel technology, the new library grade base identification system and the super-FP algorithm. These features allow it to measure elements faster, with higher accuracy and greater repeatability.

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5. Adjusts air pressure factor automatically based on altitude it has detected. This function increases excitation effect of light elements by 45% and that of rare earth elements by 35%.
6. KA-8L is supportive to battery hot plug, hence battery can be replaced without powering off the machine.
7. On KA-8L, users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin of products and batch number).



Elements to be Analyzed and Test Modes

KT8L elements analyzed	
	Scope of elements in standard test mode can be extended if there is such a need.
KA-8L	can analyze Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Zr, Nb, Mo, Rh, Pd, Ag, Cd, Sn, Sb, Hf, Ta, W, Re, Pb, and Bi, totaling 25 elements.

Instrument specification

System Processor: The Android 4.2 operating system/80MHZ ADC digital pulse processor/4096 MCA channel , 32GB memory

Display: Industrial resistive touch screen with screen size of 4.3"

Data storage: Built-in 32gb memory, 300,000 spectral data and spectrum can be stored

Operating Temperature: -20°C~+50°C

Operating Humidity: ≤90%Limit of

Library of extensible and customizable alloys

Ability to make measurements on pipes, flat surfaces, surface integrals and welds

Method of analysis: the x-ray energy dispersive method for analysis of fluorescence

Simultaneously detect elements: simultaneously detect dozens of elements

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Processor and RAM:

CPU: 1GB

RAM: 1GB

Range content: ppm ~ 99.99%

15 seconds reading time

GPS, WIFI: integrated into the system

Battery: lithium battery, which can be loaded with a maximum capacity of our 6800Ah can operate continuously for 8 hours; Equipped with high voltage (110V-220V) adapter, can work under current alternative

Sensor resolution: solid, liquid, powder

Sensor resolution: low resolution can be 139eV

Excitation source: 40KV / 100mA-Ag window miniature tube anode X of light and high voltage source

Collimator and filter: sights of 4.0 or 2.0 of diameter, automatic switch of 8 filter. 12 kinds of groups, plus mode consisting of world, can satisfy different types of tests of samples

Display: touchscreen TFT - LCD, resolution of 640 * 480.

Protection against water, dust and shock

Test window: 12mm.

Charging system gas: Helium charging system of ordinary pressure.

Security: standalone password manager mode.

data transmission: digital multi-channel technology, the transmission of data SPI, a quick scan, count rate, waterproof miniature USB, which can be connected to the desktop computer.



Technical parameters and specifications

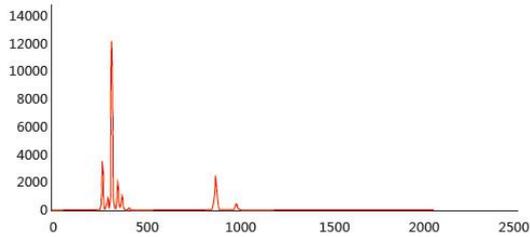
Weight	1.6Kg (with battery) .
Dimensions	254 x 79 x 280 mm (L x W x H) .
Excitation source	50KV/200μA maximum pipe pressure pipe flow can be adjusted freely,Agtarget (standard),Au,W,Rh target(optional).
Detector	BOOST Si-PIN detector
Range of detection	All elements between Mg and U.
Display system	Industrial resistive touch screen with screen size of 4.3". Proprietary operating system software and sound waves. Multiple languages including English And it automatically adjusts display brightness according to the environment brightness.

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Data processing	<p>32GB memory</p> <p>USB, bluetooth, WIFI, or linked to the Internet; instrument can be configured and repaired remotely.</p> <p>Data can be exported via EXCEL or PDF. Users can customize the reports by adding their company logos, addresses, test results, spectrum and others (such as product description, origin and batch number).</p>
Heat dissipation	<p>Equipped with a dedicated T-shaped radiator to dissipate the heat; no need to wait for cooling of detector time again.</p>
Safety	<p>Built-in double beam technology can automatically sense whether there is a sample at the measurement window. This is also a safety and protection feature.</p> <p>Waterproof, dust-proof and shockproof suitcase</p>
Power supply system	<p>Intelligent battery management through MSBUS bus, real-time monitoring of the residual capacity of battery and backup battery. The battery complies with air transport regulations of dangerous goods.</p> <p>A single battery can last 8 hours.</p>

Real-test Values of 316 samples



Alloys		#110	30SEC	0.019
316SS				精确
Elem	%	+/-	SPEC	
V(钒)	0.126	0.001		
Cr(铬)	16.68	0.102	[16.0-19.0]	
Fe(铁)	69.49	0.202	[63.0-72.0]	
Mn(锰)	1.18	0.081	[0.0-2.21]	
Cu(铜)	0.325	0.002	[0.0-1.0]	
Ni(镍)	10.15	0.121	[10.0-14.0]	
Mo(钼)	2.05	0.075	[1.9-2.8]	

