



W6 Optical Emission Spectrometers (Arc/Spark-OES)
Ultimate Performance for Metal Analysis

W6 Metal Analyzer



Summary

W6 -The most advanced floor type Arc/Spark-OES with Ultimate Performance for Metal Analysis. Its design combines high performance with rugged construction and operational convenience with reliable operation. The adoption of vacuum optical chamber design, full-digital excitation light source, advanced CCD detectors, and high-speed data readout system equips the device with high properties, ultra-low limit of detection (LOD), long-term stability and repeatability. Its analytical precision reaches the world leading level. It is one of the major devices that applies to quality control, material brand recognition, material research and development in the metallic manufacturing, processing and smelting industry. This analyzer sets a new standard for R&D and process/quality control.

Key Applications

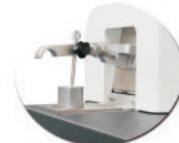
- ◆ High-end Laboratories Defence, Railways, pure research, etc
- ◆ Pure metal applications 99.9%+ purity Al, Pb, Zn, Mg etc
- ◆ Regulatory compliance Very low LODs to control Pb, Cd, As etc. (e.g. ship-making)
- ◆ Integrated Steel Plants C, S, P, B, N, Ti
- ◆ Manufacturing facilities
- ◆ Warehouse material identification
- ◆ Base: Fe, Cu, Al, Ni, Co, Mg, Ti, Zn, Pb, Sn, Ag, Mn, Cr, etc



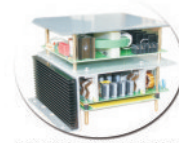
W6 Features



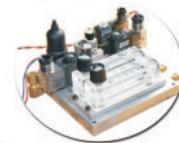
CCD detector with excellent performance



Open spark stand



Digital spark source



Integrated gas circuit module



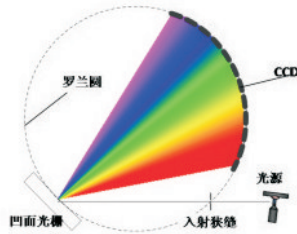
Ethernet data transmission

Features

- ◆ Accurate and precise analysis help grade determination
- ◆ Unmatched analytical performance and reliability with excellent long-term stability
- ◆ Full wavelength coverage, customized factory calibration, adding new element without further hardware configuration
- ◆ Wavelength range 130nm~800nm, capacity to analyze more elements required
- ◆ Open Sample Stand to conveniently accommodate
 - ◆ samples of a wide range of sizes and shapes
- ◆ Easy to use with full PC control
- ◆ Wired/wireless Remote transmission and display provision of analytical results
- ◆ Advanced instrument and user safety features -sample detection, emergency stop, trippers, user alerts and many more
- ◆ High-resolution Multi-CCD optics for optimal spectral line separation
- ◆ Vacuum optics enabling fast stabilization
- ◆ Low Total Cost of Ownership
- ◆ Comprehensive diagnostic system including error detection, logging and reporting
- ◆ In-built safety features for instrument and user safety

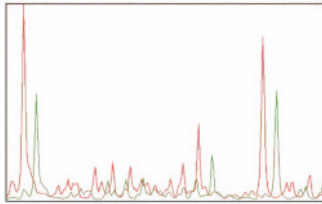
Optical System

- ◆ Single optics system using latest-generation, high-resolution CCD detectors
- ◆ Wavelength range: 130-800 nm
- ◆ Paschen Runge Mounting in a Rowland Circle of focal length up to 400 mm
- ◆ Resolution: 30pm pm (1 pm = 10-12 m/10-3 nm)
- ◆ Thermally stabilized optics to ensure high precision and stability



Calibration

- ◆ Standard factory calibrated programs
- ◆ Freely selected analysis programs
- ◆ Customized calibrated programs according to individual requirements



Spark Stand

- ◆ Open Stand with clamping system designed to ensure high sample throughput
- ◆ Analysis of samples with various kinds of geometries
- ◆ Super argon saver for optimized argon flow

Excitation Source

- ◆ Digital Pulsed Current Controlled Source
- ◆ Multi-frequency range
- ◆ Fully computer controlled

Analytical Features

- ◆ Display of Mean Value and RSD/SD
- ◆ Global and Type Standardization
- ◆ Simple Re-standardization
- ◆ JINYIBO analysis software for sorting metals element-wise
- ◆ Analysis of 40+ elements even at trace levels
- ◆ Suitable for very high-purity analysis of Cu, Al, Pb, Zn, etc
- ◆ Applications for analysis of wires and thin sheets

Software

- ◆ Intuitive icon and menu-based design to ensure ease-of-use
- ◆ Comprehensive diagnostics: detection, logging, reporting
- ◆ Customized element view & decimal point position
- ◆ Compatible with Windows OS
- ◆ Maintenance scheduling and alerts
- ◆ Auto-detection of sample

Element	Unit	Concentration
Al	%	0.0248
As	%	0.000000
Be	%	0.000000
B	%	0.000000
Br	%	0.000000
C	%	0.000000
Ca	%	0.000000
Cl	%	0.000000
Co	%	0.000000
Cu	%	0.000000
F	%	0.000000
Fe	%	0.000000
Ga	%	0.000000
Ge	%	0.000000
H	%	0.000000
Hf	%	0.000000
In	%	0.000000
Ir	%	0.000000
K	%	0.000000
Kr	%	0.000000
L	%	0.000000
Li	%	0.000000
Mg	%	0.000000
Mn	%	0.000000
N	%	0.000000
Nb	%	0.000000
Na	%	0.000000
Ni	%	0.000000
Os	%	0.000000
P	%	0.000000
Pb	%	0.000000
Pd	%	0.000000
Pt	%	0.000000
Rb	%	0.000000
S	%	0.000000
Sb	%	0.000000
Se	%	0.000000
Si	%	0.000000
Sn	%	0.000000
Sr	%	0.000000
Ta	%	0.000000
Tb	%	0.000000
Tc	%	0.000000
Ti	%	0.000000
Tl	%	0.000000
Tm	%	0.000000
Tn	%	0.000000
U	%	0.000000
V	%	0.000000
W	%	0.000000
Xe	%	0.000000
Y	%	0.000000
Zn	%	0.000000
Zr	%	0.000000

Accessories and Options

- ◆ Wire Analysis Adapters
- ◆ Small Sample Analysis Kit
- ◆ Spectrometer Sample Surface Polishing Machines
- ◆ Certified Reference Materials (CRMs)

Electrical and Environmental Requirement

- ◆ AC220±20VA, 50HZ (Customized)
- ◆ Max 750W in sparking
- ◆ Average standby power 100W
- ◆ Room temperature: 10°C~35°C
- ◆ Relative humidity: 20%~85%

Dimension

- ◆ 650mm(L)*860mm(W)*1200mm(H)
- ◆ Net weight: 200kg



Jinyibo is leading manufacturer of Optical Emission Spectrometer, Carbon and Sulfur Analyzer, XRF Spectrometers, ICP Spectrometers.

For now, totally over 6500 sets instrument come in to use globally. Customers include Hyundai Group, South Korea POSCO, DAEWOO, Volkswagen, BMW, Nissan, Shagang Group, SANY, BYD, SINOPEC, GREE, Chinalco, etc.

We focus on innovation of advanced products and manufactured them to be very high quality. Precise Instruments, Perfect Experience are always our top priority. Every day, more than 2.56 enterprises select Jinyibo all over the world.

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