

Optical emission
spectrometer
LB-10OES



Overview :

Optical emission spectrometer LB-10OES is a tabletop spectrometer with a wavelength range of 130 nm to 800 nm and spark frequency of 100 Hz – 1000 Hz. Vacuum optical chamber design with advanced CCD detectors and high speed data readout system. It contains integrated optics room and Paschen Runge construction design, making all the spectrum lines focused on the gratings.

Specifications :

Wavelength range	130 nm ? 800 nm
Degree of vacuum	Auto control within 6 pa ? 20 pa
Pixel resolution	30 μ m
Focal length	400 mm
Grating line	2400 m ¹ / mm
First order spectral line dispersion rare	1.2 nm / mm
Average resolution ratio	10 μ m / pixel
Spark frequency	100 Hz ? 1000 Hz
Plasma current	1 A ? 80 A
Ignition voltage	> 15000 V
Storage temperature	0°C - 45°C
Operating temperature	10 °C – 35 °C, 23 \pm 2 °C
Power	AC 220 V / 50 Hz
Power consumption	Excitation : 700 W Stand by : 100 W
Argon quality	99.999 %, Argon pressure > 4 Mpa
Argon consumption	5L / min during spark mode

Features :

1. CCD-based, spark discharge OES
2. Direct reading system
3. Digital light for ultra-high resolution
4. High-stability output rate of plasma
5. The analytical base is Fe base
6. Customizable bases of Al, Cu, Zn, Fe and Cu, Fe, Cu and Al are available
7. Flexible sample clamp design and on-site analysis of samples

Applications :

Used for metal and trace elemental analysis, foundry, mechanical engineering, scientific research, product inspection, automobile, petrochemical engineering, shipbuilding, electrics, aerospace, nuclear power, metallic and nonferrous metallic smelting, processing and recycling.



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