

Full-spectrum Direct Reading inductively Coupled Plasma Optical Emission Spectrometer



FULL SPECTRUM DIRECT READING RENDERING

The ICP-OES MICS series full spectrum direct reading inductively coupled plasma emission spectrometer is a new generation of ICP-OES products. By utilizing a reliable integrated solid-state RF power supply, a stable constant temperature two-dimensional spectroscopic system, and a scientific research grade refrigeration overflow prevention CCD detection system, combined with leading spectral correction technology in China, the operability, flexibility, and reliability of ICP-OES MICS are beyond imagination. Daily operation and maintenance are very simple, making it more suitable for the operational requirements of frontline analytical experiments in China, achieving miniaturization, convenience, and intelligence Intelligent spectrometer.

The ICP-OES MICS series full spectrum direct reading inductively coupled plasma emission spectrometer can be widely used in various fields such as environmental protection, food safety, geology and mineral resources, metallurgy, non-ferrous metals, rare earths, chemical engineering, clinical medicine, petroleum, products, semiconductors, agricultural research, etc. Used to determine the content of major, trace, and trace elements in different substances, it can be used for qualitative, semi quantitative, and precise quantitative analysis of elements in samples, with a detection limit of up to one billion parts.

Specification	Value
Wavelength Range	160 nm to 900 nm
Detection Method	Full spectrum direct reading
Spectroscopic System	Mid-step grating, prism dispersion
Detector	Large-format CCD, full spectrum coverage
RF Power Supply	Solid-state, high output efficiency, stable power output
Gas Flow Control	High-precision Mass Flow Controllers (MFCs)
Safety Features	Argon gas monitoring, flame monitoring, auto shutdown



Specification	Value
Peristaltic Pump	Five-channel, adjustable speed, fully automatic design
Detection Limit	Parts per billion (ppb)
Power Supply	220 V, 50/60 Hz
Operating Conditions	Temp: 15 - 35° C, Humidity: 10 - 90% non-condensing
Dimensions	650 mm x 450 mm x 500 mm
Weight	Approx. 60 kg
Applications	Environmental, food safety, geology, metallurgy, etc.

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Spectroscopic System Mid-step grating, prism dispersion

Detector Large format CCD, millions of pixels, full spectrum coverage

RF Power Supply Solid-state, high output efficiency, stable output power

Gas Flow Control High-precision Mass Flow Controllers (MFCs)

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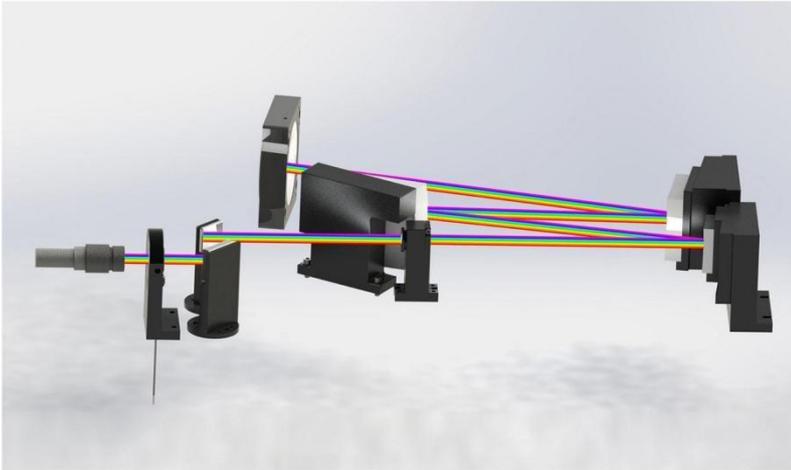
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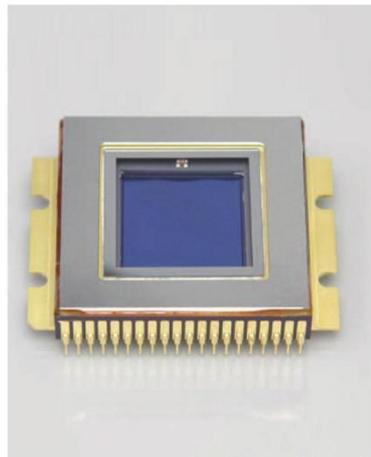
ICP-OES MICS MORE PRECISE DETECTION

Precision spectroscopic system



By using a mid step grating combined with prism cross dispersion splitting method, precise optical design can achieve maximum luminous flux and excellent spectral resolution;

Scientific research level large format CCD detector



Adopting a self-developed CCD detection system with millions of pixels; Full coverage of 160-900nm wavelength range, single exposure, simultaneous detection of all elements.