

MICAP-OES 1000

Innovative Microwave Inductively Coupled Plasma Optical Emission Spectrometer

- Smallest and lightest ICP-OES system
- Robust N₂ plasma handles tough sample matrices
- Simultaneous measurement of trace metals with high-resolution spectrometer
- Can be operated with N₂ gas generator
- Low operation and maintenance costs
- Innovative service model to maximize uptime



Radom Instruments, LLC presents the MICAP-OES 1000. Its **innovative technology** is designed for use in both modern laboratories and remote locations. The **high efficiency** N₂ microwave **plasma** is able to easily **analyze complex aqueous** and **organic samples**. This includes high total dissolved solids samples, aggressive mining extracts, concentrated plating baths, fuels, and oils - all with stable response over extended runs. MICAP utilizes a **high-resolution spectrometer** providing simultaneous multi-element analysis operated by a **powerful yet simple** to operate software.

The patented **Cerawave™** ceramic ring operates at 100 times the efficiency the traditional metal load coil designs, which uniquely eliminates the need for water cooling support for operation.

MICAP-OES 1000 is the smallest, most cost effective, and **compact ICP-OES system** in the world. As MICAP is the most **mobile** and **easy-to-install** trace element analysis system on the market, we focus heavily on the mining / minerals, wear metal / coolant analysis and surface finishing sectors. It comfortably replaces AA single-element systems and competes with many standard ICP instrumentation applications.

Radom Instruments is US based and holds over **30 patents** with a strong international presence. The company has established itself as a pioneer in innovative solutions for plasma-based systems in analytical chemistry. With **customer service as a core focus**, Radom Instruments serves a large customer base supporting both ICP-OES and ICP-MS systems.

Typical Limit of Detection and Resolution

Typical Resolution

[illegible]

Actinide series

Detection limits are averaged from multiple systems.

Detection limits are averaged from multiple systems. Values are calculated from 3x the standard deviation of a blank; each with three, 30 second replicates.

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