

THE PERKINELMER ICP OPTICAL EMISSION SPECTROMETER AVIO 500



- Unsurpassed matrix tolerance with vertical torch design
- Lowest argon consumption of any ICP — at least 50% lower than other systems
- Simultaneous background correction for faster sample-to-sample time and improved data accuracy
- High throughput enabled by dual view technology, simultaneous data acquisition and low routine maintenance
- Maximized instrument run time with Radian™ Remote Monitoring

With the Avio 500 ICP-OES, you can do more — faster and more easily. Now is the time to expand your range and extend your resources.

VERTICAL PLASMA WITH QUICK-CHANGE TORCH

The Avio 500 system's vertical torch mount delivers unrivaled matrix flexibility and reduced maintenance. Its design lets you quickly and easily make adjustments, even while the system is running. The removable injector is independent of the torch, simplifying maintenance and reducing the potential for breakage.

FLAT PLATE™ PLASMA TECHNOLOGY

PerkinElmer's proprietary technology generates a robust matrix-tolerant plasma using half the argon of other systems. The two flat plate induction fields are placed perpendicular to the sample flow, generating a plasma that is stable and symmetrical. You'll save costs by using 50% less argon and save time by reducing the need to change cylinders or dewars.

DUAL VIEW OF THE PLASMA

For both axial and radial viewing, the Avio 500's Dual View technology delivers full wavelength coverage, with no loss of light or sensitivity. Even elements at high (>500 nm) or low (<200 nm) wavelengths can be measured with complete confidence in the same run.

PLASMACAM™ VIEWING CAMERA

An industry first, the integrated color camera offers continuous viewing of the plasma, simplifying method development and enabling remote diagnostic capabilities.

LASMASHEAR™ ARGON-FREE INTERFERENCE REMOVAL

This innovative technology effectively, reliably, and economically eliminates interferences by removing the cool tail plume of the plasma—without using argon. The system eliminates the need for high-extraction systems or cones, giving you a fully automated interference removal system.

ADVANCED OPTICAL SYSTEM

With unsurpassed stability and analytical accuracy, the thermally stabilized optical system on the Avio 500 offers:

- Superior detection limits
- High resolution and performance across the entire wavelength range
- Simultaneous background correction for faster sample-to-sample time and increased accuracy

TWO SEGMENTED-ARRAY CHARGE-COUPLED DEVICE (SCD) DETECTORS



For superior resolution across the entire wavelength range, the Avio 500 ICP-OES features

- Two high-performance SCD detectors—one for UV and one for Vis.
- The two SCD detectors give you: Solid-state, long-term performance and reliability
- Exceptional detection limits Simultaneous UV and Vis analyses