

## Dual View Inductively Coupled Plasma –Optical Emission Spectrometer (ICP–OES)

Brand: Perkin Elmer  
Model: AVIO-200

### General Usage:

AVIO 200 is a dual view sequential ICP-OES that can measure axial and radial view in a single run. Sample with elements that have comparatively large different in concentration can measure at the same time without the need of dilution and measure the sample two times with different method parameters. The sample throughput is comparable to Simultaneous ICP when less than 10 wavelengths are being measured.

The auto-sampler can handle up to 240 samples (15 ml) and 10 standards (50 ml) conical centrifuge tubes.

This ICP-OES system is also equipped with an organic torch module to handle applications that measure elements present in organic solvents (Kerosene, Xylene) by changing the aqueous torch assembly.

A hydride/Vapour generation unit is also ready to install on AVIO 200 for generating hydride forming elements (such as As, Bi, Sb, Se, Sn, etc.) or vapour generation of Hg for the ICP-OES measurement. Detection limit of these elements can be lower to  $\mu\text{g/L}$  level by using this technique (usually more than 20 times better than that of pneumatic introduction system) .

### Applications:

Determine concentrations of element down to sub ppm level in a liquid or a sample that can be converted into aqueous form.

