

A photograph of a Thermo Scientific iCAP 7000 Series ICP-OES machine in a laboratory setting. The machine is white and has the Thermo Scientific logo on its side. In the background, two scientists in white lab coats and safety glasses are looking at the machine. A teal banner is overlaid on the right side of the image.

Thermo
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Thermo Scientific
iCAP 7000 Series ICP-OES

Low cost ICP-OES analysis
high quality data

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Thermo Scientific iCAP 7000 Series ICP-OES

The NEW Thermo Scientific™ iCAP™ 7000 Series ICP-OES provides low cost multi-element analysis for measuring trace elements in a diverse sample range. The instrument combines advanced performance with high productivity and ease of use, producing consistently reliable data whilst ensuring compliance to global regulations and standards.

Innovative Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES) technology, driven by the Thermo Scientific™ Qtegra™ Intelligent Scientific Data Solution™ (ISDS) software platform, delivers fast, low cost analysis, for both high thru-put routine and research environments.

low cost
ICP-OES analysis



Flexible
for all fields

Maximize your environmental, pharmaceutical, industrial or food safety facility with low cost ICP-OES analysis.

Environmental • Agricultural

Broad analytical capability

The highest sensitivity and widest range of analytical capabilities to meet demanding global environmental regulations.



Pharmaceutical • Bio Tech

Simplified route to innovation and compliance

Enables fast, low cost test validation to meet the most rigorous pharmaceutical regulations, including new United States Pharmacopeia (USP) Chapters 232 and 233.



Industrial • Petrochemical • Metallurgical • Materials

Robust, multi-element analysis

For exploration, product development and quality assurance, simplified workflows increase productivity while assuring standards such as ASTM and ISO.



Food & Beverage Safety • Nutritional Content

Highest sensitivity and accuracy

The accurate detection of impurities in liquids or solids ensures that safety and quality legislative and industry standards are met.



Efficiency

through ease of use



The Thermo Scientific iCAP 7000 Series ICP-OES simplifies workflows and enables fast, low cost trace elemental analysis.

Qtegra ISDS customizes workflows, from sample introduction to reporting and data interpretation.

Pre-optimized methods simplify or even completely eliminate the method development process.

Powerful method development tools mean new users can experience easy and reliable method development, even when employing advanced accessories, such as laser ablation.

Accessible hardware facilitates easy and fast access to the sample introduction area and automatic gas connections.

Simple routine maintenance enabled through the use of application specific sample introduction kits and unique Enhanced Matrix Tolerance (EMT) plasma torch design.



iCAP 7600 ICP-OES with integrated mini pump and sprint valve for fast sample introduction.



Productivity

through Performance

Minimal sample dilutions • reliable sample introduction • high efficiency solid state RF generator.

Radial and axial plasma views • powerful anti-blooming CID detector • analyte concentrations measured over widest range.

Sub ng/mL detection • high resolution simultaneous optics • fast, accurate data acquisition.

Thermal and mechanical optical stability • automated optimization routines • consistent, repeatable results.

low cost ICP-OES analysis

ICP-OES and ICP-MS driven by **Qtegra Intelligent Scientific Data Solution**



The innovative iCAP 7000 Series ICP-OES is driven by a software solution to simplify the user experience and improve efficiency. The shared platform approach provides control across both the iCAP 7000 Series ICP-OES and the Thermo Scientific™ iCAP™ Q ICP-MS.

Minimize user steps

One click '**Get Ready**' function with automatic performance checks, reduces operator time, freeing up valuable resources and increasing accuracy. **Three fail-safe steps from sample introduction to report.**

Maximise ease of use

Simple, dynamic workflow and intuitive user interface in the **Qtegra Dashboard** places controls at the operator's disposal and reduces training and expertise requirements.

Minimize task times

A few quick steps creates an analytical **LabBook**, the start of the intelligent analysis sequence, with full QA/QC protocols and powerful 'what you see is what you get' reports.

Range of models to fit all needs

The iCAP 7000 Series ICP-OES offers three models, all of which enable global regulatory compliance, in a wide range of fields; each instrument is designed to suit the specific thru-put requirements of a variety of users.

iCAP 7200 ICP-OES	iCAP 7400 ICP-OES	iCAP 7600 ICP-OES
Entry level, cost-effective analysis for low sample thru-put requirements.	For routine analysis requirements and mid-range sample thru-put.	Highest productivity and maximum sample thru-put with advanced, flexible accessory support, such as laser ablation.
<i>Perfect analytical solution for restricted budgets</i>	<i>Ideal for QA/QC laboratories that require highest sensitivity from full wavelength coverage</i>	<i>Best solution for laboratories experiencing the most challenging analytical demands, such as large contract, or R&D facilities</i>

low cost ICP-OES analysis

Thermo Scientific iCAP 7000 Series ICP-OES

high productivity

low
cost

'scalability'

ease of use



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Austria +43 1 333 50 34 0	France +33 1 60 92 48 00	Middle East +43 1 333 50 34 0	UK +44 1442 233555
Belgium +32 53 73 42 41	Germany +49 6103 408 1014	Netherlands +31 76 579 55 55	USA +1 800 532 4752
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