

## ● Q4 MOBILE Mobile Spark Spectrometer

### The new freedom in mobile OES

The Q4 Mobile marks a milestone in the history of mobile optical emission spectroscopy. For all fields of applications in metal sorting, PMI, analysis, Q4 Mobile is offering innovative solutions:

- patented CCD optic with outstanding resolution and thermal stability
- user-friendly touch-screen operation and built-in probe display
- Special power management, supports all forms of power supplies
- hybrid cable allowing longer, lighter, more flexible probe cabling
- thermal stability without warm-up times and instant availability
- combined arc/spark pistol with quick adapter change
- UV probe with hi-res optic covering all critical UV elements like C, P, S, N, Sn, As, B, etc.

### Most compact design

Q4 MOBILE is one of the most compact and lightest integrated spectrometers. Even battery is already built-in and the 24 kg unit can run independent from mains supply. For special tasks, various cable lengths are available. The ultra-light probe, the light hybrid cable make this configuration very handy.

### Top-end analytical performance

The latest addition to the Bruker Elemental product portfolio falls into the tradition of high-end performance. The patented optic, source generator, orthogonal plasma observation, combined with latest spectra deconvolution algorithms provide an analytical performance close to laboratory instruments. Even challenging applications like carbon, sulphur, or nitrogen determination are possible.

Q4 MOBILE closes the gap between Bruker's stationary OES and handheld XRF and is the completion of our product line.



The new foldable cart for easy transportation in rough environment



Rugged pistol for Arc/Spark operation mode, with integrated display and optional iPod

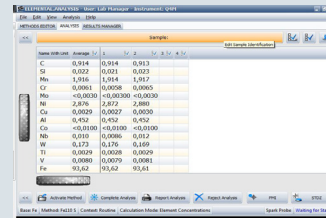
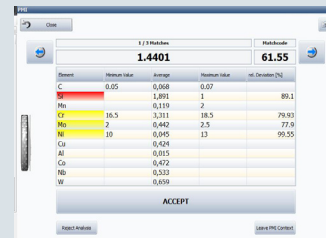


Packed with innovations: new hybrid cable, ultra-light pistol, intelligent power management

## Software

### Elemental Suite Software

The touch-screen software supports all working modes of the system with simple, informative screens. An alloy table is integrated for PMI. Analysis results can be stored and reported. Different user-roles define available functionality, ensure safety and integrity, and simplify operation.



## Technical Data Q4 MOBILE

<b>Patented Optical System</b>	<ul style="list-style-type: none"> <li>Un-coated CCD detectors with lowest dark current</li> <li>ClearSpectrum® technology for advanced spectra deconvolution</li> <li>Active Ambient Compensation (AAC)</li> </ul>
<b>Analytical Solution Packages (ASP)</b>	<ul style="list-style-type: none"> <li>Different matrix calibration packages available</li> <li>ASPs cover all major elements &amp; alloy groups</li> <li>Upgradable for future expansion</li> </ul>
<b>Source Generator</b>	<ul style="list-style-type: none"> <li>Maintenance-free, two phase PWM Generator</li> <li>Low ripple ARC max. 5A</li> <li>Frequency 50 to 1000 Hz (spark model)</li> </ul>
<b>Probe</b>	<ul style="list-style-type: none"> <li>Orthogonal Spark View / cable length 4m / 10m</li> <li>Combined arc/spark probe with quick-change</li> <li>Ultra-light probe (780 g)</li> <li>Integrated display</li> </ul>
<b>Environmental Range</b>	<ul style="list-style-type: none"> <li>-10°C to 50°C</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>Intuitive Windows® based software with 12,1" touch-screen for simple routine operation</li> <li>Various user levels for secure and task-specific operations</li> <li>Working modes for sorting, PMI, and quantitative analysis</li> <li>alloy library for grade definitions</li> <li>SQL result database with various export formats</li> </ul>
<b>Instrument</b>	<ul style="list-style-type: none"> <li>Power Supply: 80-230 V</li> <li>12 - 30 V DC, max. 260W, Power Management</li> <li>Dimensions: 507x530x310 mm (WxDxH)</li> <li>Weight: 24 kg</li> </ul>

### ● Bruker Elemental GmbH

Kalkar · Germany  
 Phone +49 (0)2824 97650-0  
 Fax +49 (0)2824 97650-10  
 info@bruker-elemental.com

### Bruker AXS Inc.

Billerica, MA · USA  
 Phone +1 (978) 663-3660  
 Fax +1 (978) 667-5993  
 elemental@bruker-axs.com

[www.bruker.com/oes](http://www.bruker.com/oes)