

**SMALL DESIGN
BIG
ON
PERFORMANCE**



The MERLIN 4 is the ideal spark OES Spectrometer for obtaining precise and reliable elemental analysis of metals and alloys.

The MERLIN 4 is one of our popular compact desktop metals analysers. It is chosen mostly by customers in the aluminium industries and related metal segments.

MERLIN 4 Visible	MERLIN 4 Ultra
Suited for all non-ferrous applications when UV elements are not required.	Suitable for ferrous applications with important elements in the UV spectral range. e.g. C, P, S, As, Sn, B, etc
Wavelengths 205-521nm	Wavelengths 175-680nm
Optical System	Paschen-Runge
Detector Technology	CMOS
Applications	Fe, Al, Cu, Co, Mg, Ni, Pb, Sn, Ti, Zn
Measurement of Nitrogen	No
Measurement of Phosphorous	Yes (MERLIN 4 Ultra)
Measurement of Sodium and Lithium	No
Software	<ul style="list-style-type: none"> • Intuitive software for simple routine operations • Various user levels for secure and task-specific operations • Functions for qualitative and quantitative analysis
Number of Optical Systems	MERLIN 4 Visible – 1 Optic MERLIN 4 Ultra – 1 Optic
Number of CMOS Detectors	MERLIN 4 Visible – 12 MERLIN 4 Ultra – 13
EMC	IEC61000-4-2, IEC61000-4-4, IEC61000-4-5
Working Temperature	10° to 35°C
Argon Purity	99.998% Minimum 99.999% Ideal
Argon Flow	When Burning – 5L/min Standby Mode – 0.5L/min Sleep Mode – 0.1L/min
Dimensions	65 x 39 x 79 cm
Weight	67kg
Power Supply	Line input 90 or 260 volts, AC 50 to 60Hz



Efficient Optical and Self-Purification System

The sealed environment of the MERLIN 4 optical system maintains constant pressure and temperature settings, and is self-purified. This means no argon gas is consumed. The purifier absorbs both H₂O and O₂. The H₂O does not require replacing.