



MERLIN4



Small Design. Big On Performance.

INNOVATIVE SPECTROMETERS FOR ELEMENTAL ANALYSIS

TECHNOLOGY AT WORK FOR YOU

The MERLIN 4 is a mid-range CMOS spectrometer available as a dedicated single-base unit as well as a versatile multi-base system. It is a widely used instrument within the metal production and processing, scrap metal, corrosion and cathodic protection, foundries, recycling, automotive and marine industries.

Quality Control and Assurance are essential to making your business successful. The MERLIN 4 is the ideal companion for incoming material, in-process testing and final quality inspection.



LARGE SPARK PLATE

The plate's corrosion resistant surface and heat dissipation composition ensures 24 hours of uninterrupted and stable analysis.

ONE-BUTTON STOP & ACTIVATION

In the event of mis-operation, work can be stopped immediately to ensure the safety of personnel and the instrument.



EFFICIENT OPTICAL AND SELF-PURIFICATION

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.



PERFORMANCE AT THE CLICK OF A BUTTON

It is not only the optical resolution that determines the analytical power of the instrument. ARUN's bespoke software package has a powerful spectrometric hub as well as all the needed additional features that help in daily routine work and make use of the instrument efficient and a pleasure to operate.

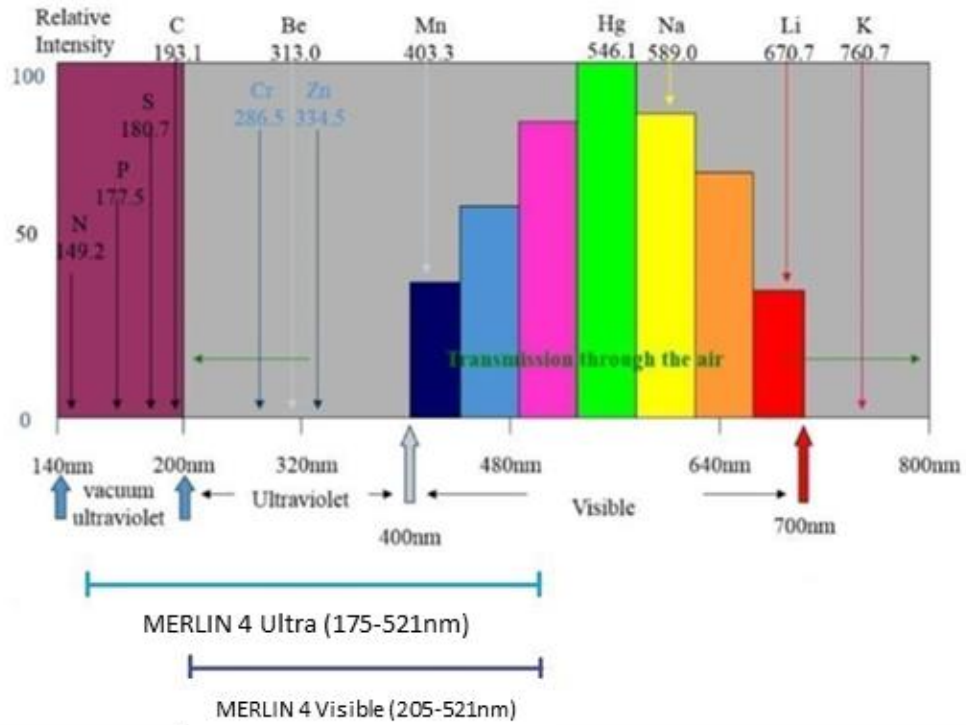


Features Include:

- Foreign language menu capability
- Factory calibrated programmes traceable to CRMs
- Automatic average calculation
- Display of single or multiple analysis
- Display of mean, standard or relative standard deviation
- User configurable results screen
- Formula editor (carbon equivalent, total trace, etc.)
- Quality control and identification functions
- User defined export functions
- User configurable grade library
- Report generator, print or PDF output, selection by sample ID field content
- User standardisation for global or individual programmes
- User configurable type standardisation

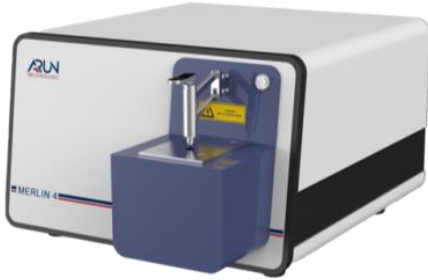
PRODUCT MODELS TO FIT YOUR SPECIFICATIONS

Product Models



MERLIN 4 Visible	MERLIN 4 Ultra
VIS	UV-VIS
Fe, Ni, Co, Cu, Al, Mg, Zn, Sn, Pb, Ti	Fe, Ni, Co, Cu, Al, Mg, Zn, Sn, Pb, Ti
All alloying elements and major traces	All alloying elements and major traces
Digital source for high precision	Digital source for high precision
	Measurement of Phosphorus
1 Optical system	1 Optical system
12 CMOS detectors	13 CMOS detectors

KEY FEATURES



- Compact benchtop model
- 3-side open spark stand with XY-sample clamp
- Controlled by PC or laptop (Windows 10 operating system required)
- Ethernet connectivity
- High-resolution, full spectrum optical systems
- High-resolution CMOS detectors
- No vacuum pump
- Holographic diffraction grating

Technical Specifications

Optical System	Paschen—Runge
Wavelength Range	175-521nm (Ultra) 205-521nm (Visible)
Power Supply	Line input 90 or 260 volts AC 50-60 Hz
EMC	IEC61000-4-2 IEC61000-4-4 IEC61000-4-5
Working Temperature	10° to 30°C
Operating Humidity	20-80%
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



ARUN Technology Limited
16, The Brunel Centre Newton
Road, Crawley West Sussex, RH10
9TU

Tel: +44 (0)1293 513123
Email: sales@aruntechnology.com



www.aruntechnology.com



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ISO 9001
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OHSAS 18001