

MERLIN 4



Small Design. Big on Performance

TECHNOLOGY AT WORK FOR YOU

The **MERLIN 4** is a mid-range CCD 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 plates' corrosion resistant surface and heat dissipation composition ensures 24 hours of un-interrupted and stable analysis.



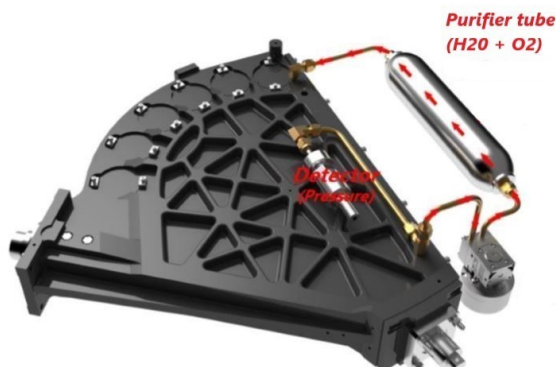
ONE-BUTTON STOP ACTIVATION

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

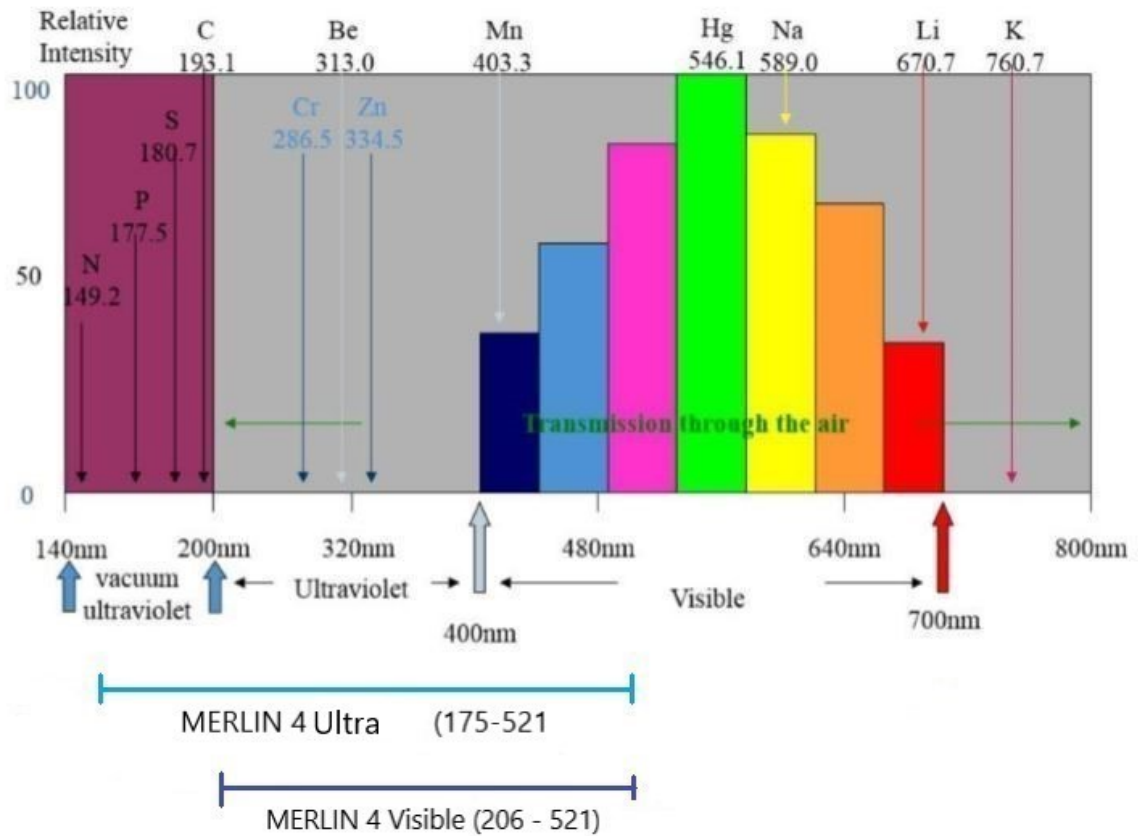
It is not only the optical resolution that determines the analytical power of the instrument. ARUN's bespoke software package has a powerful spectrometric hub as well as all the needed added features that help in daily routine work and make the use of the instrument efficient and a pleasure to operate.



Features include:

- Foreign language menu capability
- Factory calibrated programs 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 standardization for global or individual program
- 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
ARUN factory calibration	ARUN factory calibration
Gas consumption: low flows, no optic flush	Gas consumption: low flows, optic flush

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 CCDs
- No vacuum pump
- Holographic diffraction grating

Technical Specifications

Optical System:	Paschen—Runge
Wavelength Range:	175-521nm (Ultra) 206-521nm (Visible)
Power Supply:	Line input 90 or 260 volts AC 580-60 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% or 99.999% purity
Argon Flow:	When burning—3L per minute, Standby 0.1L per minute
Dimensions:	65 x 39 x 78 cm
Weight:	70kg
Maximum Excitation Power:	400VA
Optical Source Type:	50VA
Discharge Frequency:	400Hz maximum
Discharge Current:	150A maximum
Spark Stand Aperture:	12mm



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