

MERLIN 4



**3 Years
Warranty**

SMALL DESIGN BIG ON PERFORMANCE
PIONEERS OF CCD AS WELL AS CMOS DETECTOR

INNOVATIVE SPECTROMETERS FOR ELEMENTAL ANALYSIS

ARUN Technology Limited

16, The Brunel Centre Newton Road, Crawley West Sussex RH10 9TU, United Kingdom

TECHNOLOGY AT WORK FOR YOU

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.

The MERLIN 4 is a mid-range CMOS spectrometer available as a dedicated single-base unit as well as a versatile multi-base system.



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 H_2O and O_2 . The H_2O does not require replacing.



PERFORMANCE AT THE CLICK OF A BUTTON

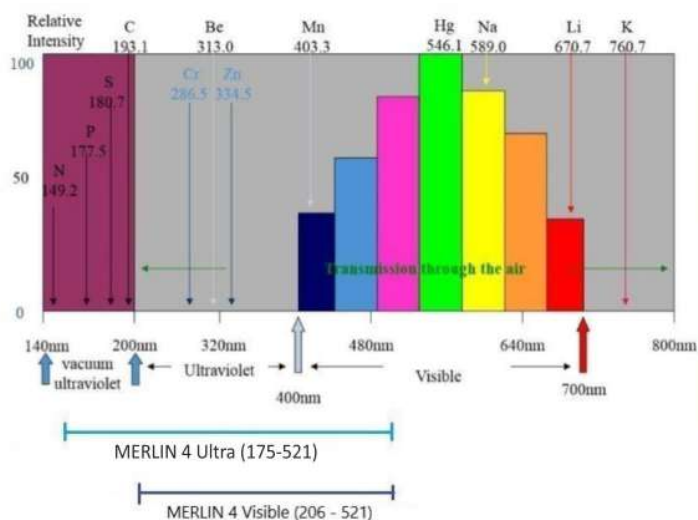
It is not only the optical resolution that determines the analytical power of the instrument. ARUN's bespoke software package has a powerful spectrometric hub as well as all the needed added features that help in daily routine work and make the use of the instrument efficient and a pleasure to operate.



KEY FEATURES

- ◆ Compact benchtop model
- ◆ High-resolution CMOS detectors
- ◆ High-resolution, full spectrum optical systems
- ◆ Holographic diffraction grating
- ◆ 3-side open spark stand with XY-sample clamp
- ◆ Controlled by PC
- ◆ Windows 10 Operating system
- ◆ Built-In Advanced Diagnostic System
- ◆ Ethernet connectivity
- ◆ No vacuum pump

PRODUCT MODELS TO FIT YOUR SPECIFICATIONS



MERLIN 4 Visible	MERLIN 4 Ultra
Optimum for non-ferrous application	Optimum for ferrous & non-ferrous application
Al, Cu, Zn, Pb, Sn, Mg (Matrices & its alloys)	Fe, Al, Cu, Ni, Co, Zn, Pb, Sn, Ti, Mg (Matrices & its alloys)
Digital source for high precision	
Single Optical System - 400 mm focal length	
11 CMOS detectors	12 CMOS detectors

TECHNICAL SPECIFICATIONS

Optical System:	Paschen—Runge
Wavelength Range:	175-521 nm (Ultra) 206-521 nm (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% or 99.999% purity
Argon Flow:	When burning—3L per minute, Standby 0.1L per minute
Dimensions:	73 x 39 x 77 cm
Weight:	75kg
Maximum Excitation Power:	400VA
Optical Source Type:	50VA
Discharge Frequency:	400Hz maximum
Discharge Current:	150A maximum
Spark Stand Aperture:	12mm



Engineered by



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MATRIX

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