



ARTUS8



High Performing Metal Analyser

INNOVATIVE SPECTROMETERS FOR ELEMENTAL ANALYSIS

TECHNOLOGY AT WORK FOR YOU

The ARTUS 8 fulfils the requirement of providing fast, precise and accurate analyses for the perfect melt. It is one of the most powerful and reliable spectrometers offering a complete range of analytical programs including cast irons, steels with carbon and nitrogen, and all alloying elements and their traces needed for treatment.

It offers all the advantages of a flexible and versatile CMOS spectrometer. It even challenges some applications with classical photomultiplier systems, which are still the benchmark in high-end OES.



BRINGING PERFORMANCE AND RELIABILITY

Quality Control and Assurance are essential to making your business successful. The ARTUS 8 is the ideal companion for incoming material, in-process testing, independent laboratory testing and final quality inspection. It is widely used in the steel manufacturing, cookware, automotive, aluminium extrusion, cast iron and carbon steel industries.

Risks such as material mix-ups and machinery damage are reduced thanks to adapters which detect and analyse oddly shaped samples and small pieces and the optimisable grade library which visually displays non-compliance alloy specifications.



LARGE SPARK PLATE

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

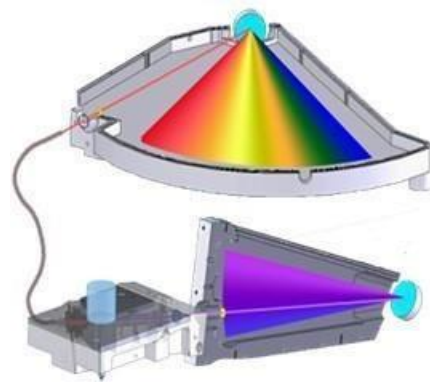
ONE-BUTTON STOP & ACTIVATION

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



INTERNAL GAS PATH PROTECTION

The ARTUS 8 uses a gas path protection device. If the instrument is not used for a long period of time, the gas path and light chamber purification time will not exceed 8 minutes.



PERFORMANCE AT THE CLICK OF A BUTTON

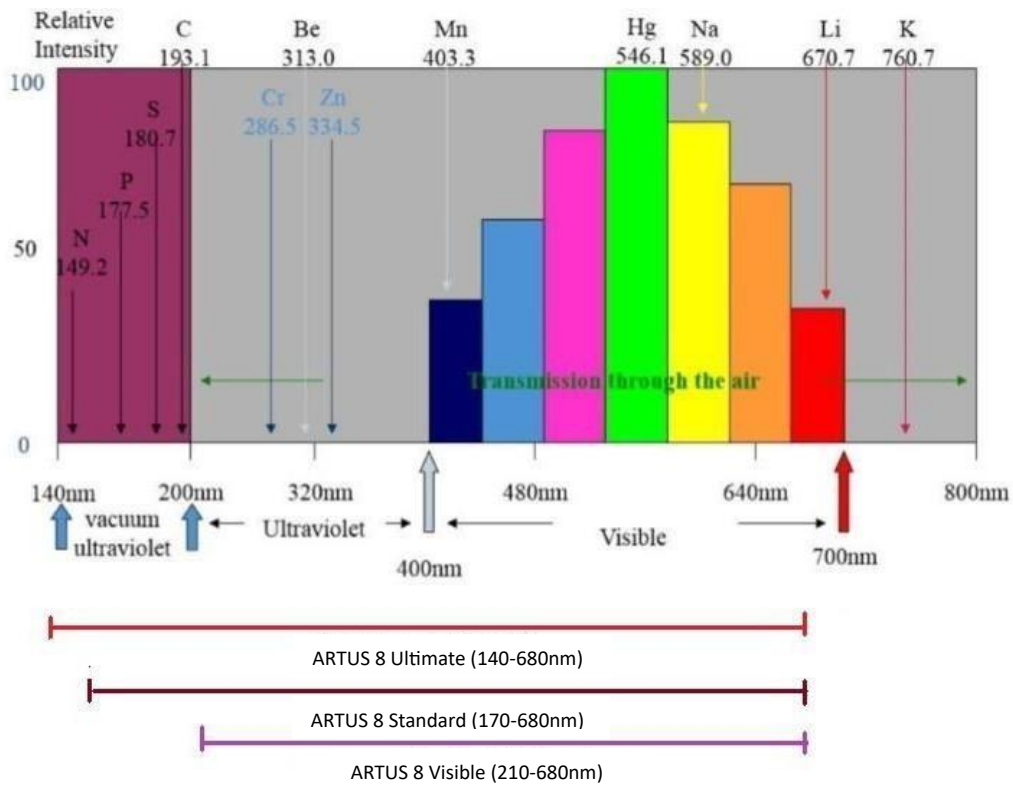
It is not only the optical resolution that determines the analytical power of the instrument. ARUN's bespoke software package has a powerful spectrometric hub as well as all the needed additional features that help in daily routine work and make use of the instrument efficient and a pleasure to operate.

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

ARTUS 8 Visible	ARTUS 8 Standard	ARTUS 8 Ultimate
VIS	UV-VIS-NIR	uUV-UV-VIS-NIR
Suitable for all non-ferrous applications where UV elements are not required.	For ferrous applications with important elements in the UV spectral range. e.g. C, P, S, As, Sn, B, etc	Capable of analysing even deep-UV elements like nitrogen.
Fe, Ni, Co, Cu, Al, Mg, Zn, Sn, Pb, Ti	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	All alloying elements and major traces
Measurement of Sodium & Lithium	Measurement of Phosphorus and Sodium & Lithium	Measurement of Nitrogen, Phosphorus and Sodium & Lithium
1 Optical system	2 Optical systems	2 Optical system
12 CMOS Detectors	13 CMOS detectors	14 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
Detector	CMOS
Wavelength Range	140-680nm (Ultimate) 170-680nm (Standard) 210-680nm (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 35°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
Software	Intuitive software for simple routine operation. Various user levels for secure and task-specific operations.
Dimensions	72 x 44 x 81 cm
Weight	80kg



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