ARUN TECHNOLOGY
MADE TO MEASURE

ARTUS 8

High Performing Metal Analyser

INNOVATIVE SPECRTROMETERS 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 CCD spectrometer. It even challenges some applications with classical photomultiplier systems, which are still the benchmark in high-end OES.

BRINGING PERFORMANCE & 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

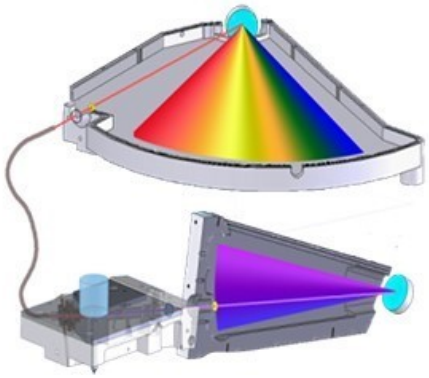
The plates' corrosion resistant surface and heat dissipation composition ensures 24 hours of un-interrupted and stable analysis.

ONE-BUTTON STOP ACTIVATION

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

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/light chamber purification time will not exceed 8 minutes.



PERFORNANCE
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:

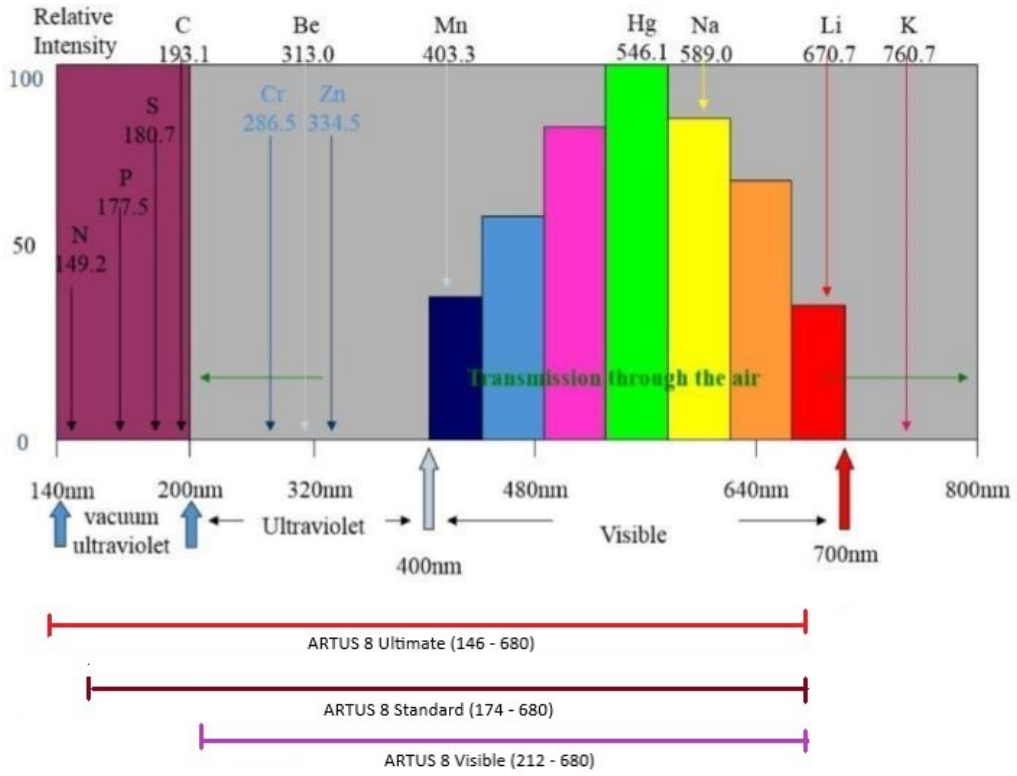
- Foreign language menu capability
- Factory calibrated programs traceable to CRMs
- Automatic average calculation
- Display of single or multiple analysis
- Display of mean, standard or relative standard deviation
- User configurable results screen
- Formula editor (Carbon Equivalent, Total Trace, etc...)
- 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

ARTUS 8 Visible	ARTUS 8 Standard	ARTUS 8 Ultimate
VIS Suitable for all non-ferrous applications where UV elements are not required.	UV-VIS-NIR For ferrous applications with important elements in the UV spectral range (C, P, S, As, Sn, B, etc.)	uUV-UV-VIS-NIR 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
Digital source for high precision	Digital source for high precision	Digital source for high precision
ARUN factory calibration	ARUN factory calibration	ARUN factory calibration
Gas consumption: low flows, no optic flush	Gas consumption: low flows, 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
Detector	CCD, Changing to CMOS
Wavelength Range:	146-680nm (Ultimate) 174-680nm (Standard) 212-680nm (Visible)
Power Supply:	Line input 90 or 260 votls AC 580-60 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% or 99.999% purity
Argon Flow:	When burning—3L per minute Standby 0.1L per minute
Software	Intuitive software for simple routine operation Various user levels for secure and task-specific Operations
Dimensions:	72.1 x 44 x 77 cm
Weight:	80kg
Maximum Excitation Power:	400VA
Optical Source Type:	50VA
Discharge Frequency:	400Hz maximum
Discharge Current:	150A maximum
Spark Stand Aperture:	12mm

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