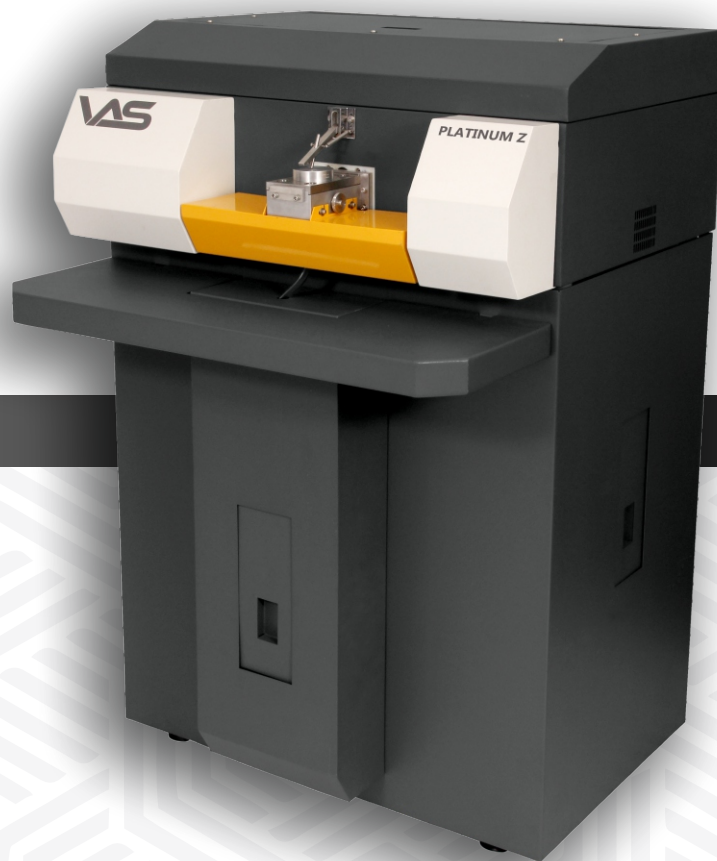


The Epitome of **PERFORMANCE**

PLATINUM Z SERIES

METAL ANALYZER

INTRODUCING
NEW PLATINUM
Z SERIES

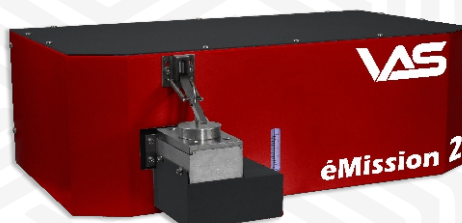


CUTTING EDGE
INNOVATION IN
OES SPECTROSCOPY

GOLD PLUS X
METAL ANALYZER

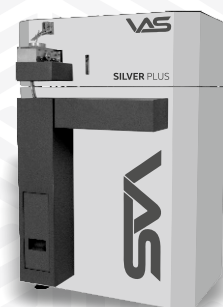


éMission
METAL ANALYZER



RELIABLE
INNOVATION IN
OES SPECTROSCOPY

SILVER PLUS
METAL ANALYZER



Vas Spectrometer is a pioneering team of spectrometer developers in India. We are in the business of making **international quality products at affordable price**, our 21 years of experienced team, work every day in spectrometry to apply and share our know-how in ways that benefit industry metal analysis needs.

Fundamentally, our work is also about humanizing technology. We put the user experience at the heart of an innovation, building-in simplicity and making new technology more accessible. After all, products which are delightfully simple to use are more likely to be easily adopted and recommended to others.

SERVICES

We are renowned in the industry to offer best in class **after sales services**. We provide **24/7** services across the globe. Our service support team can be connected in different support modules like

Telephonically

Online support

On-site visit

We do have a team of engineers who are trained, dedicated and skilled. This combination of disciplines, underpins our engineers to give best services in the industry. Our service workmanship allows our customers to choose us to maximise their **productivity and investment**.

When it comes to encapsulating our capability on delivery VAS Spectrometers has installed **1000 +** spectrometers in Indian and overseas market. Following are few of our valuable customers who are using our spectrometer and satisfied with the performance.

OUR
ESTEEM
CLIENTS



The Epitome of PERFORMANCE

PLATINUM Z SERIES

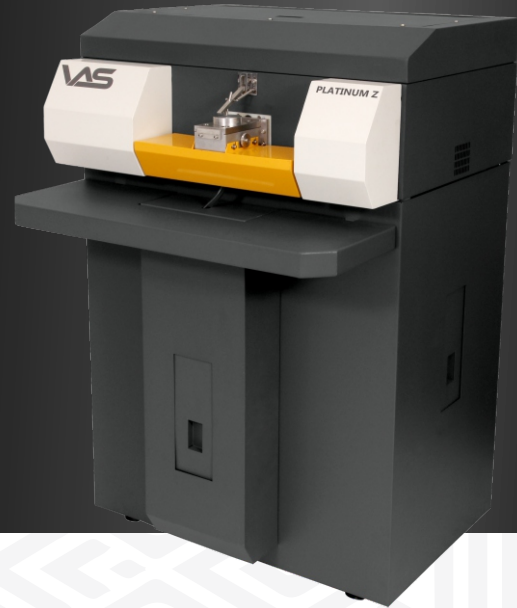
METAL ANALYZER



Upgrades in Z SERIES

- Refined Calibration for improved accuracy
- Hassle-free, simplified standardization technique
- State of the Art Digital Spark Source
- Realtime Spectral Analysis and Correction Algorithm
- Optimized Argon Consumption for higher throughput
- Improved Spark chamber Design for Improved Precision
- Channelized Argon Jet Flow for better Spark power utilisation

- Upto 32+ elements in each alloy program as per alloy chemistry
- Overall 56+ elements in all bases including N2 and O2 elements
- Standard 12+1 CCDs can be extended upto 32 CCDs truly customizable...
- Analysis down upto 10PPM and in some cases can go upto 1PPM
- V-MAP current controlled source
- Unique highly advanced optics
- Dependable results
- Extremely accurate & super stable
- Quick start-up technology



Technical Specifications

Excitation Source

- V-MAP current controlled source with true 100KHz real-time regulation system
- Fully software controlled excitation source
- Multi-frequency spark source, up-to 1KHz
- High energy micro-melt for better precision (internally software controlled)
- High precision spark condensed spark source
- Analytical program parameter selected automatically by software
- Maintenance free

Software & Analysis

- Extremely user friendly operation
- Factory calibrated
- Automatic inter element interface corrections
- Single sample standardization for specific grade analysis-Grade Standardization
- Check Sample library for Primary/Secondary Standard
- User defined alloy for various range (check range) for non-technical operators
- Single click comparison for check sample and check range
- User friendly report generation
- Option to transfer data to Excel spreadsheet

Optical System

- Rowland circle arrangement
- Focal length: As per the Variant/Model selection
- Resolution: >3pm
- Wavelength range 126-800nm
- Temperature stabilized and sealed against dust and contamination
- High performance holographic diffraction grating

- High resolution CCD detector (upto 32 CCDs) array with 3694 pixels each
- Profiling-automatic & real time, software controlled

Spark Source

- Specially designed C shaped sample plate to prevent warping and deformation over long period of usage
- Argon flashed with automatic adjusted low flow in standby and analytical modes
- Tungsten electrode
- Mechanical quick-engage sample clamp - Flexible for large and small sample size
- Easily removable sample base for chamber cleaning and maintenance

Control & Data Processing

- Ethernet USB connectivity
- Windows based software, works with Win 7 and above
- Complete and accurate control of instrument through a high performance 32bit Atmel ATxMega based data acquisition system
- Work with standard desktop personal computer (connected externally)

Weight & Dimensions

- Instrument Weight 80kg approx. (without utility base)
- Instrument size 850 x 690 x 355mm (W x D x H)

Environmental Requirements

- Operation temperature 24 to 32 C
- Storage temperature - 10 to 50 C

Electrical Requirements

- 230V AC, 50Hz (+5%)

CUTTING EDGE INNOVATION IN OES SPECTROSCOPY

GOLD PLUS X METAL ANALYZER



- Upto 28+ elements in each alloy program as per alloy chemistry
- Overall 46+ elements in all bases
- Analysis down upto 50 PPM, in some cases 20-30 PPM
- Quick start-up design, ready for analysis in 10-20min
Specially designed & developed for manufacturing and QA/QC applications
- Special designed and precise monoblock volume-optimized super optical system with Argon Saving System
- Grade standardization - Single sample standardization for specific grade analysis
- User defined alloy library for various alloy library for various alloy range (check range)



Technical Specifications

Excitation Source

- V-MAP current controlled source with true 100KHz real-time regulation system
- Fully software controlled excitation source
- Multi-frequency spark source, up-to 1KHz
- High energy micro-melt for better precision (internally software controlled)
- High precision spark condensed spark source
- Analytical program parameter selected automatically by software
- Maintenance free

Software & Analysis

- Extremely user friendly operation
- Factory calibrated
- Automatic inter element interface corrections
- Single sample standardization for specific grade analysis-Grade Standardization
- Check Sample library for Primary/Secondary Standard
- User defined alloy for various range (check range) for non-technical operators
- Single click comparison for check sample and check range
- User friendly report generation
- Option to transfer data to Excel spreadsheet

Optical System

- Special designed and precise monoblock volume-optimizes super stable optical system with Argon Saving System
- Temperature stabilized and sealed against dust and contamination
- High performance holographic diffraction grating
- Wavelength range 163 - 417nm
- Profiling-automatic & real time, software controlled

- High resolution CCD detector array with more than 3600 pixels (1 pixel corresponds to 1 element channel)

Spark Source

- Specially designed C shaped sample plate to prevent warping and deformation over long period of usage
- Argon flashed with automatic adjusted low flow in standby and analytical modes
- Tungsten electrode
- Mechanical quick-engage sample clamp - Flexible for large and small sample size
- Easily removable sample base for chamber cleaning and maintenance

Control & Data Processing

- Ethernet USB connectivity
- Windows based software, works with Win 7 and above
- Complete and accurate control of instrument through a high performance 32bit Atmel ATxMega based data acquisition system
- Work with standard desktop personal computer (connected externally)

Weight & Dimensions

- Instrument Weight 42kg approx. (without utility base)
- Instrument size 750 x 535 x 270mm (W x D x H)

Environmental Requirements

- Operation temperature 24 to 32 C
- Storage temperature - 10 to 50 C

Electrical Requirements

- 230V AC, 50Hz (maximum 320VAC continuous)

RELIABLE INNOVATION IN OES SPECTROSCOPY

SILVER PLUS METAL ANALYZER



- Upto 22+ elements in each alloy program as per alloy chemistry
- Overall 35+ elements in all bases
- Analysis down upto 80 PPM, in some cases 40-50 PPM
- Ready for analysis within 30min
- Monoblock volume-optimized super stable optical system
- Specially designed & developed for SMEs
- Revolutionary 100KHz regulator system
- New spark stand design for reduced consumption
- All optic parts from reliable source (from Europe)
- Super Stable

Technical Specifications

Excitation Source

- V-MAP current controlled source with true 100KHz real-time regulation system
- Fully software controlled excitation source
- High precision spark condensed spark source
- Analytical program parameter selected automatically by software
- Maintenance free

Software & Analysis

- Extremely user friendly operation
- Factory calibrated
- Automatic inter element interface corrections
- Display of Mean SD or RSD
- User flexibility to standardize each analytical program
- User configurable type standardization
- Logging of the analysis data
- User friendly report generation
- Option to transfer data to Excel spreadsheet

Optical System

- Monoblock volume-optimized super stable optical system
- Temperature stabilized and sealed against dust and contamination
- High performance holographic diffraction grating
- Wavelength range 163-417nm
- Profiling-automatic & real time, software controlled
- High resolution CCD detector array with 3600 pixels

Spark Source

- Specially designed C shaped sample plate to prevent warping and deformation over long period of usage
- Argon flashed with automatic adjusted low flow in standby and analytical modes
- Tungsten electrode
- Mechanical quick-engage sample clamp - Flexible for large and small sample size
- Easily removable sample base for chamber cleaning and maintenance

Control & Data Processing

- Ethernet USB connectivity
- Windows based software, works with Win 7 and above
- Complete and accurate control of instrument through a high performance 32bit Atmel ATxMega based data acquisition system
- Work with standard desktop personal computer (connected externally)

Weight & Dimensions

- Instrument Weight 42kg approx. (without utility base)
- Instrument size 750 x 535 x 270mm (W x D x H)

Environmental Requirements

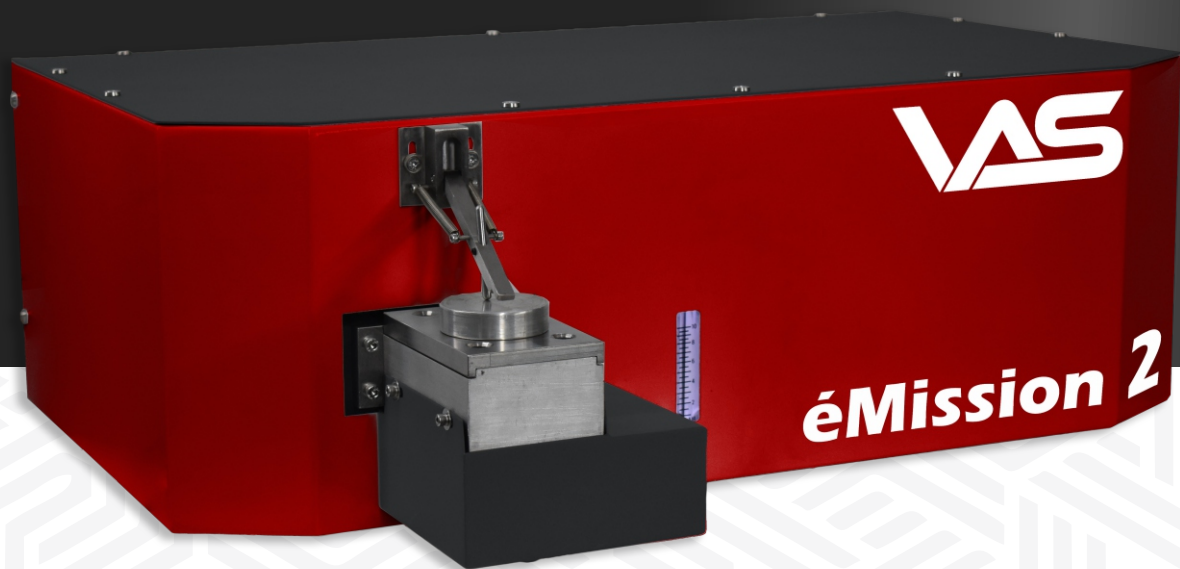
- Operation temperature 24 to 32 C
- Storage temperature - 10 to 50 C

Electrical Requirements

- 230V AC, 50Hz (maximum 320VAC continuous)

éMission

METAL ANALYZER



éMission | Al

éMission | Fe

éMission | Cu

éMission | Zn

Technical Specifications

Excitation Source

- Fully software controlled excitation source
- Maintenance free

Software & Analysis

- Factory calibrated

Optical System

- Specially Designed Optics

Spark Stand

- Specially designed C shaped sample plate to prevent wrapping and deformation over long periods of usage
- Tungsten electrode
- Automatic sample clamp-Flexible for large and small sample size

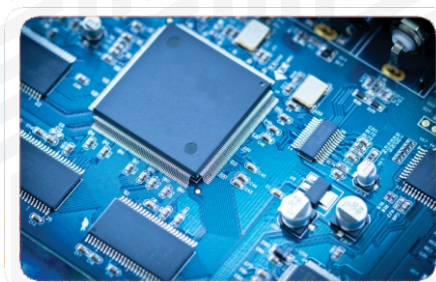
Environmental Requirement

- Operating temperature 18 to 32 C

Electrical Requirement

- 230V AC, 50Hz (maximum 320VAC continuous)

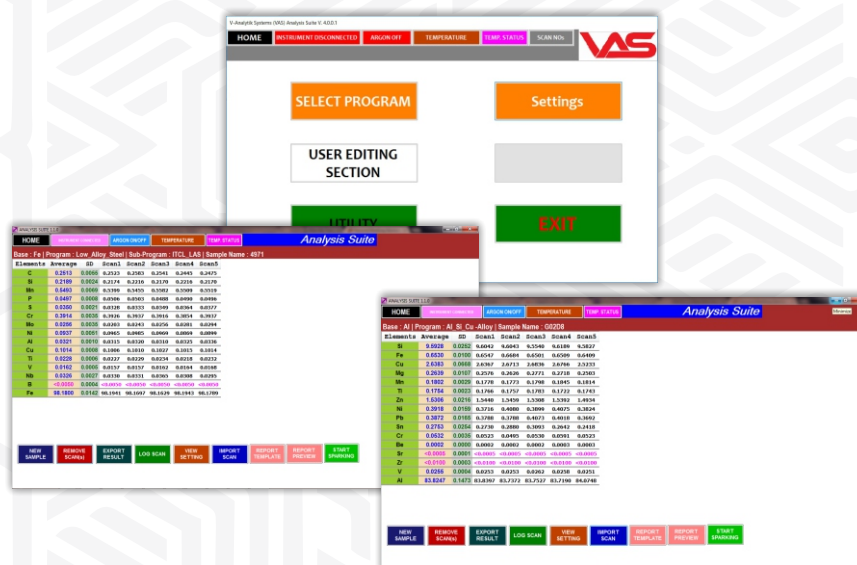
Superior Spark Source



V-MAP current controlled source with true real time 100KHz linear regulated power source.

- The VAS OES Spectrometer is equipped with a unique and revolutionary spark plasma source.
- The spark circuitry is powered by a V-MAP current controlled source design which besides employing a cutting edge active, true real time linear regulated power, also provides the flexibility of source parameter optimizations for different elements.
- This enables the spark source to operate over a wide input voltage range without compromising on reliability and stability.
- The spark source has a built-in high voltage protection as an added feature.
- Moreover the high power circuitry is carefully over-designed providing extra headroom for operations. This helps in preventing failure due to un-anticipated power fluctuations commonly found in India.

Super-Intuitive Software Design



4th Generation Analysis Suite Software

- The Platinum Series analysis software called 'Analysis Suite 4' is arguably the most user-friendly software ever designed for an optical emission spectrometer.
- Now in its 4th generation, the software is the result of our expansive knowledge of user interface and user experience.
- The analysis software interface is 'control panel-like' which enables a layman to operate the machine with minimal training. Very little computer literacy is required to operate the instrument.

PLATINUM SERIES
with Arc-Chamber

OUR GLOBAL REACH

Global Presence
across

18+
countries

Gained

1000 +

Satisfied Customers
world-wide

INDIA (HEADQUARTER)

- BANGLADESH
- CAMEROON
- CHINA
- GUNIEA
- SRI LANKA
- BOTSWANA
- CANADA
- COLOMBIA
- IRAN
- KENYA
- MOROCCO
- NIGERIA
- SAUDI ARABIA
- LEBANON
- NEPAL
- OMAN
- SOUTH AFRICA



VAS SPECTROMETERS PVT. LTD.

ADDRESS : Unit 107, Building 17, Samhita Complex, Behind MTNL Tel. Exchange,
Sakinaka, Andheri (East), Mumbai 400072, Maharashtra (IN).

EMAIL : sales@vasbharat.com / hskardam@vasbharat.com

LANDLINE : +91-(0)22-67413962 MOBILE : +91-9322155039 / +91-9867359109

WEBSITE : www.spectrometers.in / www.vasbharat.net / www.vas-spectrometers.com

