

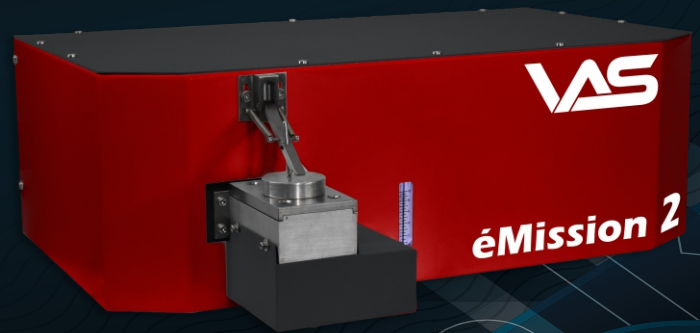
# **eMission**

METAL ANALYZER

*Most  
Affordable and  
Easy to Operate  
Spectrometer  
Ever!*

**VAS**  
SPECTROMETERS

- Upto 15+ Elements \ 21+ Elements
- Analysis Down to 100PPM
- Specially Designed & Developed for SMEs
- Minimalistic Design Philosophy
- Low Cost with Efficient Performance



**RELIABLE PERFORMANCE AT LOW COST  
EASY TO OPERATE / EASY TO MAINTAIN**



The eMission Metal Analyser is most economical spectrometer ever. Designed especially for minimal application. The eMission Spectrometer houses the finest quality components which helps to achieve zero downtime. With a control panel-like software design, even an untrained operator

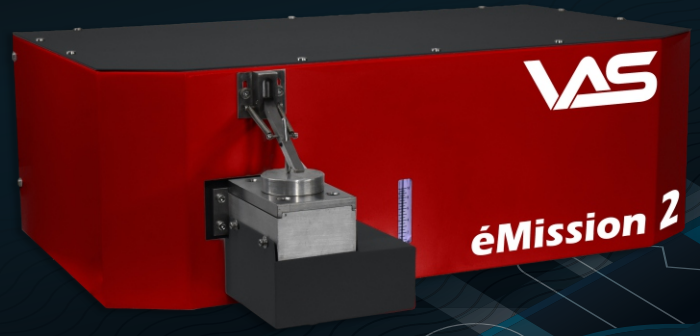
 Affordable & Easy to Operate

 Specially Designed for SMEs

 1 Year Warranty

 Customised for 10 Base and up to 22 Elements

 Robust & Durable Built



## Technical Specifications

### Excitation Source

- Fully software controlled excitation source
- Maintenance free

### 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

### Software & Analysis

- Factory calibrated

### Optical System

- Specially Designed Optics

### Environmental Requirement

- Operating temperature 18 to 32 C

### Electrical Requirement

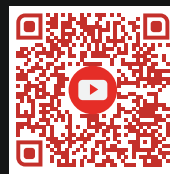
- 230V AC, 50Hz (maximum 320VAC continous)

**eMission** | Al

**eMission** | Fe

**eMission** | Cu

**eMission** | Zn



RELIABLE  
INNOVATION IN  
OES SPECTROSCOPY

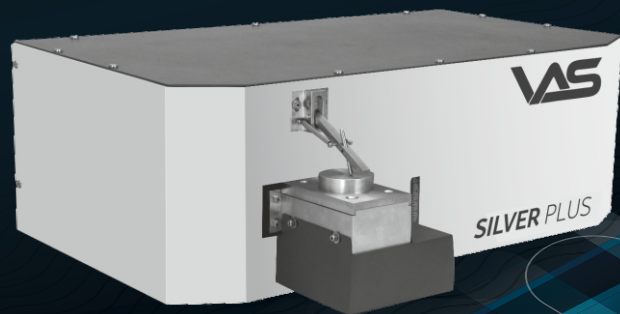
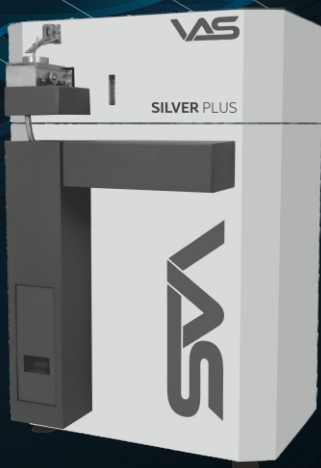
## **SILVER PLUS** METAL ANALYZER

**VAS**  
SPECTROMETERS

- Up-to 22+ Elements
- Analysis Down To 80PPM
- specially Designed & Developed For QA/QC Application
- Quick Startup Technology Ready For Analysis In 20MIN
- Lowest Operational Cost
- Monoblock Volume-Optimized Super Stable Optical System



**HIGH PERFORMANCE @LOW COST**  
**EASY TO OPERATE / EASY TO MAINTAIN**



The Silver Plus takes inspiration from the GOLD + X series and can be considered as a no frills version of the same. There is however no compromise made on the performance and packs quite a punch.



- 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)

### Weight & Dimensions

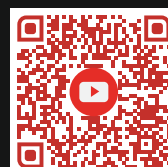
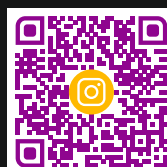
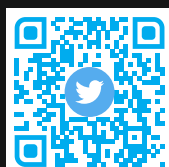
- Instrument Weight 42kg approx. (without utility base)
- Instrument size 750 x 535 x 270mm (W x D x H)

### Environmental Requirements

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

### Electrical Requirements

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



CUTTING EDGE  
INNOVATION IN  
OES SPECTROSCOPY

## **GOLD PLUS X** METAL ANALYZER

**VAS**  
SPECTROMETERS

- Up-to 28+ Elements
  - Analysis Down To 50PPM
  - Specially Designed & Developed For QA/QC Application
  - Quick Startup Technology Ready For Analysis In 10MIN
  - New Spark Stand Design For Reduced Argon Consumption
- Revolutionary 100KHz Regulator System



**HIGH PERFORMANCE WITH ADVANCED FEATURES  
EASY TO OPERATE / EASY TO MAINTAIN**



The GOLD+ X is a compact desktop Spectrometer designed specifically for production applications. The level of short term, medium term and long-term stability achieved is unparalleled. This helps in eliminating frequent standardization and thus is ready for analysis in a jiffy. GOLD+ X also has a quick startup feature eliminating the need for long stabilization periods.



- 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

## 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

- 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

### 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)

### 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)



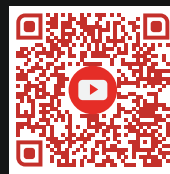
#### VAS SPECTROMETERS PVT. LTD.

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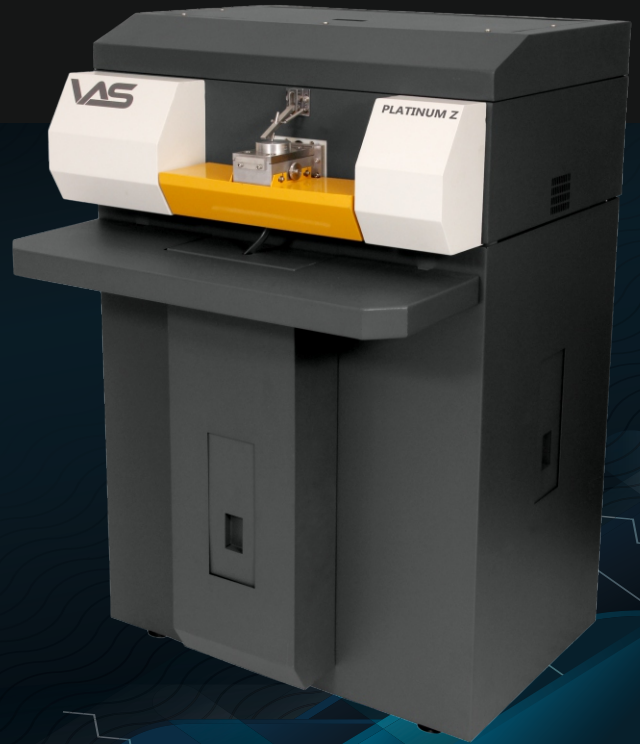
WEBSITE : www.spectrometers.in / www.vasbharat.net / www.vas-spectrometers.com



The Epitome of  
**PERFORMANCE**

# PLATINUM Z SERIES

METAL ANALYZER



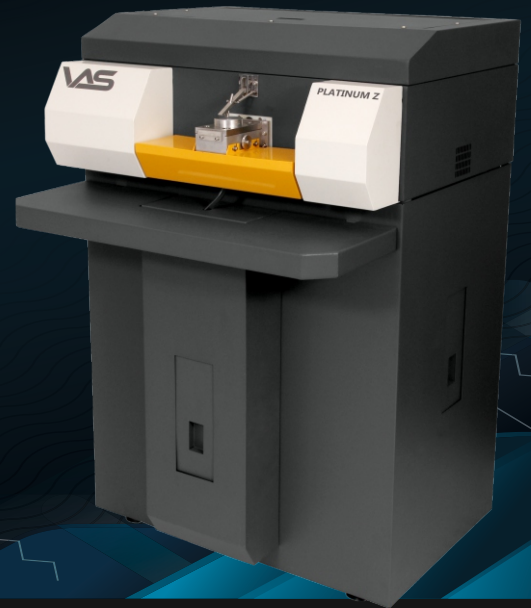
- Upto 32+ Elements (including N2)
- Analysis Down to 10PPM
- Specially Designed & Developed for Comprehensive Application
- Quick Startup Technology
- Unique Highly Advanced Optics
- V-Map Current Controlled Source
- Extremely Accurate And Super Stable

**THE EPITOME OF PERFORMANCE**  
**EASY TO OPERATE / EASY TO MAINTAIN**



The Platinum Z Series of spectrometers have been designed from the ground up to meet the most demanding metal testing requirements in the Industry. With N2 analysis, the Platinum Z Series is the world's most economic ultra-high performance spectrometer on the market today.

- 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



## 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)

### 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%)



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