

**VAS**

SPECTROMETERS

GOLD PLUS XL

METAL ANALYZER



- Upto 56 elements including N2
- Upto 8 CCDs
- Unique highly advanced Monoblock optics.(built form a single block of aircraft grade Aluminium)
- V-MAP digital current controlled source
- Dependable results
- Accurate and super stable
- Quick start-up technology

**EXTREME PERFORMANCE WITH
SUPERIOR FEATURES**

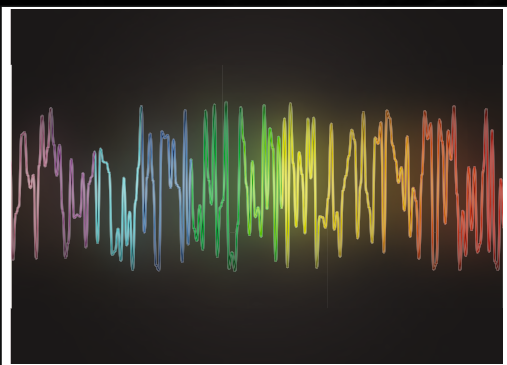
**EASY TO OPERATE
EASY TO MAINTAIN**

www.vasbharat.in
www.vasbharat.net
www.vasbharat.com

The Quanta-GOLD PLUS XL

The Quanta-GOLD PLUS XL is designed to be an ultimate spectrometer capable of excellent accuracy, exceptional detection limits, extreme analytical performance, extreme dependability and achieve what no other Indian spectrometer has ever achieved, EXCELLENCE. Designed using knowledge and expertise of over 22 years by pioneering spectrometer designers the Quanta-GOLD PLUS XL is a no-holds-barred instrument achieving the zenith of performance, dependability, adaptability and flexibility.

The Heart of Quanta-GOLD PLUS XL Spectrometer (The Optics)



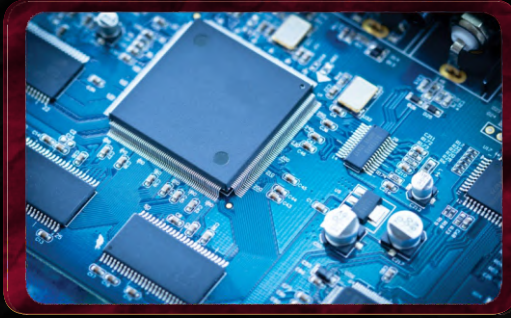
The optics is built around a Rowland circle arrangement and is designed such that the optics forms the optical spectrometer itself. The CCDs are placed in a brick-like configuration allowing seamless wavelength range coverage. Specially designed optical system machined using single block of aircraft grade Aluminium. The total no of CCDs is selectable up to 8 CCDs depending upon the elements to be analysed

which in turn dictates the wavelength range and resolution required. The optical system is closely temperature controlled for better short term and long term stability. Specially designed optical System Machined using single block of aircraft grade aluminium.



GOLD PLUS XL
METAL ANALYZER

Superior Spark Source

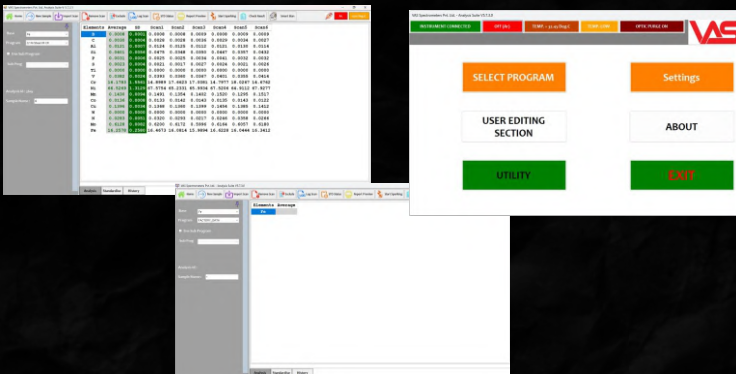


V-MAP Digital current controlled source with true real time 100KHz linear regulated. power source.

The 'Quanta-GOLD PLUS XL OES' is equipped with a unique evolutionary arc/spark plasma source. The arc/spark circuitry is powered by a V-MAP digital 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, stability & Ruggedness. 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 unanticipated power fluctuations.

Super-Intuitive Software Design



5th GENERATION ANALYSIS-SUITE SOFTWARE

Arguably the most user-friendly software ever designed for an optical emission spectrometer.

The 'Quanta-GOLD PLUS XL' analysis software called 'Analysis Suite 5' is arguably the most user-friendly software ever designed for an optical emission spectrometer. Now in its 5th 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.





GOLD PLUS XL

Technical Specifications

Excitation Source

- V-MAP digital 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
- Display of Mean SD or RSD
- User flexibility to standardize each analytical program
- User configurable type standardization
- Logging of the analysis data
- Quick retrieval of results from historical data
- User friendly report generation
- Option to transfer data to Excel spreadsheet

Optical System

- Rowland circle arrangement
- Resolution: > 3pm
- Wavelength range 136 -720nm
- Temperature stabilized and sealed against dust and contamination
- High-performance Custom designed holographic diffraction grating
- High resolution CCD detector array with 3694pixels each
- Profiling- automatic & real time, software controlled

Spark Source

- Argon flashed with automatic adjusted low flow in standby and analytical modes
- Multi Directional Optimised Flow design
- 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

- Gigabit Ethernet connectivity
- Windows® based software
- Complete and accurate control of instrument through a high performance 32bit adv soc based data acquisition system
- Externally connected computer arrangement

Weight & Dimensions

- Instrument Weight 80kg approx. (without utility base)
- Instrument size 1000 x 700 x 380MM (W x D x H)

Environmental Requirements

- Operating temperature 20 to 25°C
- Storage temperature -10 to 50°C

Electrical Requirements

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



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