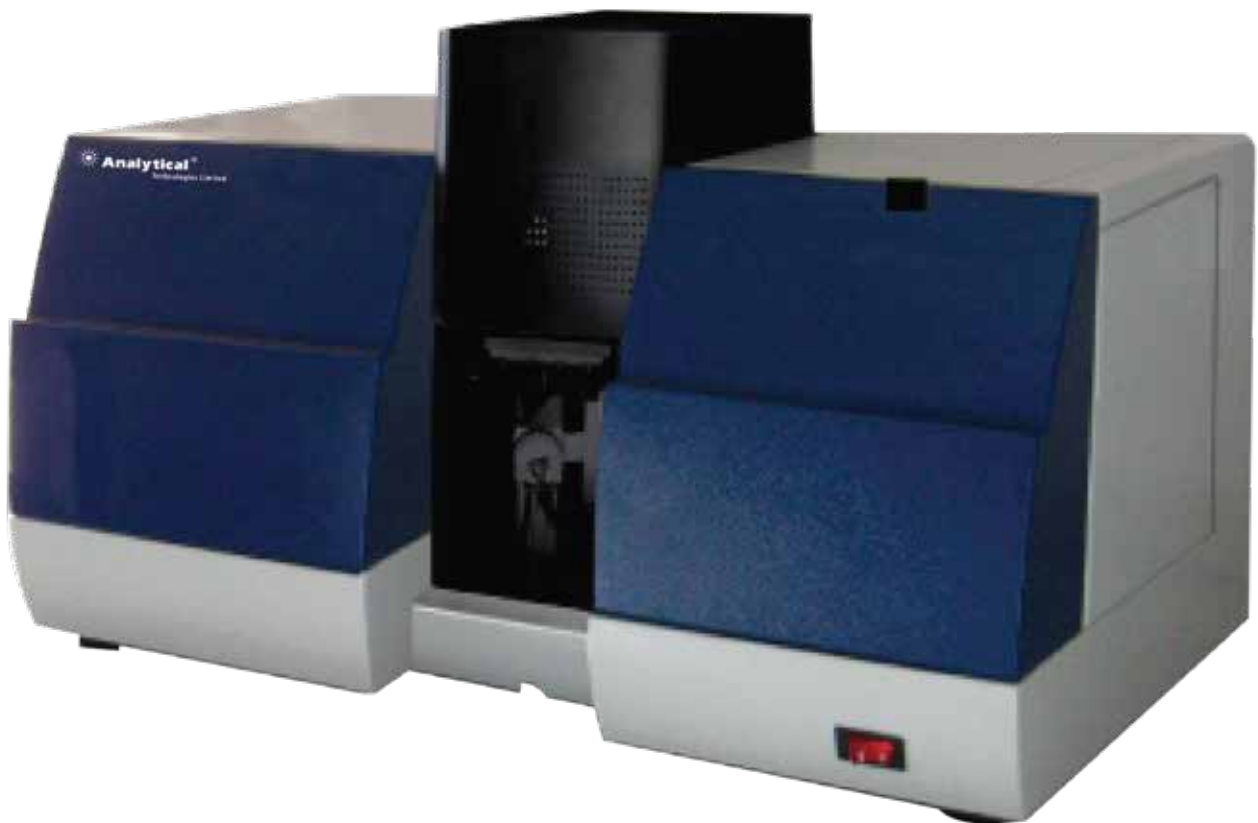


Atomic Absorption Spectrometer

AAS 3500



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Specifications

Current industry demands require that elemental analyses embody higher precision, higher sensitivity, and lower detection limits than ever before. Aurora has built a reputation as an industry leader in atomic absorption and atomic fluorescence spectrometry.

The AAS3500 is specifically designed with low-budget users in mind, but without sacrificing performance quality. The instrument highly automated: Test procedures, peak searching, ignition, measurement data collection, data processing and safety monitoring are all computer controlled via an external PC connection.

Standard configurations include either the 3500 Flame (F) and the 3500 Flame/Vapour Generation (FIVG) enabling analyses at multiple concentration levels.

►► Feature

- **Six (6) lamp turret with auto-switch** with two independent power supplies allowing simultaneous measurement and warm-up, plus one (1) built in high intensity power supply.
 - **Automatically selected, dosed Ebert-Fastle optle** technology with software adjustable slits (0.2nm, 0.6nm, 102nm) provides excellent performance.
 - **Automatic switch between air and N₂O** ensures smooth operation, thereby increasing productivity.
 - **Automatic flame ignition** with single press of button provides fast, efficient system functionality.
 - **Solid Teflon nebulizer chamber** is chemically inert thereby providing superior resistance to corrosive reagents.
 - **Burner head constructed from high-temperature resistant alloys**, providing high quality, durable construction and ensuring a long life-for the burner head.
 - **Self-rowers. background correction** ensures the accuracy of results,
- Full safety features** for Flame system including: oxidant pressure monitoring alarms, flame status
- detection, burner head type detection and liquid trap level sensing,
 - **Universal XYZ autosampler** compatible with all types of atomizers (F & VG).

▶▶ **Spectrometer**

Primary Optics	Ebert-Fastle optics with electronic double beam
Band Pass	Software adjustable 0.2, 0.6 and 1.2nm. Bandwidth is automatically selected
Grating	45mm x 36 mm grating: 1200 lines/mm
Wavelength Range	180-900 nm controlled by software
Wavelength Selection	Auto-wavelength selection, auto peak search and auto energy gain control
Measurement Unit	Peak height
Background Corrcion	Rapid self-reversal method
PMT	High quantum efficiency photomultiplier tube from 185 - 900nm, automatic gain control UV enforced PMT from 180 - 700 nm, optional.
Light Source	Hollow cathode lamp (HCL), 6 lamp turret with 2 independent power supplies
Built-in High Intensity power supply	Equipped with one (1) channel high intensity power supply which provide improved sensitivities & lower detection limits
Dimensions	85.4 x 50.0 x 48.0 cm

▶▶ Atomizers

Standard Atomizer	Flame
Optional Atomizer	Vapor/Hydride generator (VG), 50 mm N ₂ O, flame burner head, detection, flame status monitoring and auto shut down of flame.
Flame	
Spray	Allegheny titanium alloy burner head with solid Teflon nebulizing spray chamber, tailor-made high proficiency nebulizer with glass capillary and metal jacket
Gas Control	Manual acetylene gas flow control; auto-switch between air and nitrous oxide
Flame Ignition	Automatic
Performance	2ppm Cu Abs.03, RSD=, <1.0%
Vapor Generator	
VG Control Mode	Includes continuous flow peristaltic pump with speed control, high efficiency mixing section, and Electrothermal Vapor Atomizer, gas liquid separator, electrothermally heated quartz absorption cell with temperature Hydride Generator for element As, Se, Hg, etc.

▶▶ Sample Preparation

Sample Preparation	Universal XYZ autosampler, compatible with all atomizer types, as well as various sample containers, On-line dilution for flame system is available as an additional option.
Operational Control	External PC connection
Hallow Cathode Lamp	As, Pb, Hg, Cu, Zn, Al, Ca, K, Fe, Mn, Cd, Ni

►► **Servicing, Validation, Trainings and Preventive Maintenance :**

- Servicing : We have team of service engineers who can attend to any make of instrument promptly @the most affordable cost.
- Trainings :We also take up preventive maintenance to reduce downtime of instrument's Trainings.
- AMC's/CMC : We offer user training both in-House and at customer sites on instrument principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



►► **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

►► **Our Products & Technologies**



UV/VIS Spectro 2080+ Double Beam



Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



Optical Emission Spectrophotometer



DSC/TGA



Semi Auto Bio Chemistry Analyzer



HEMA 2062 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph



Water purification system

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



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