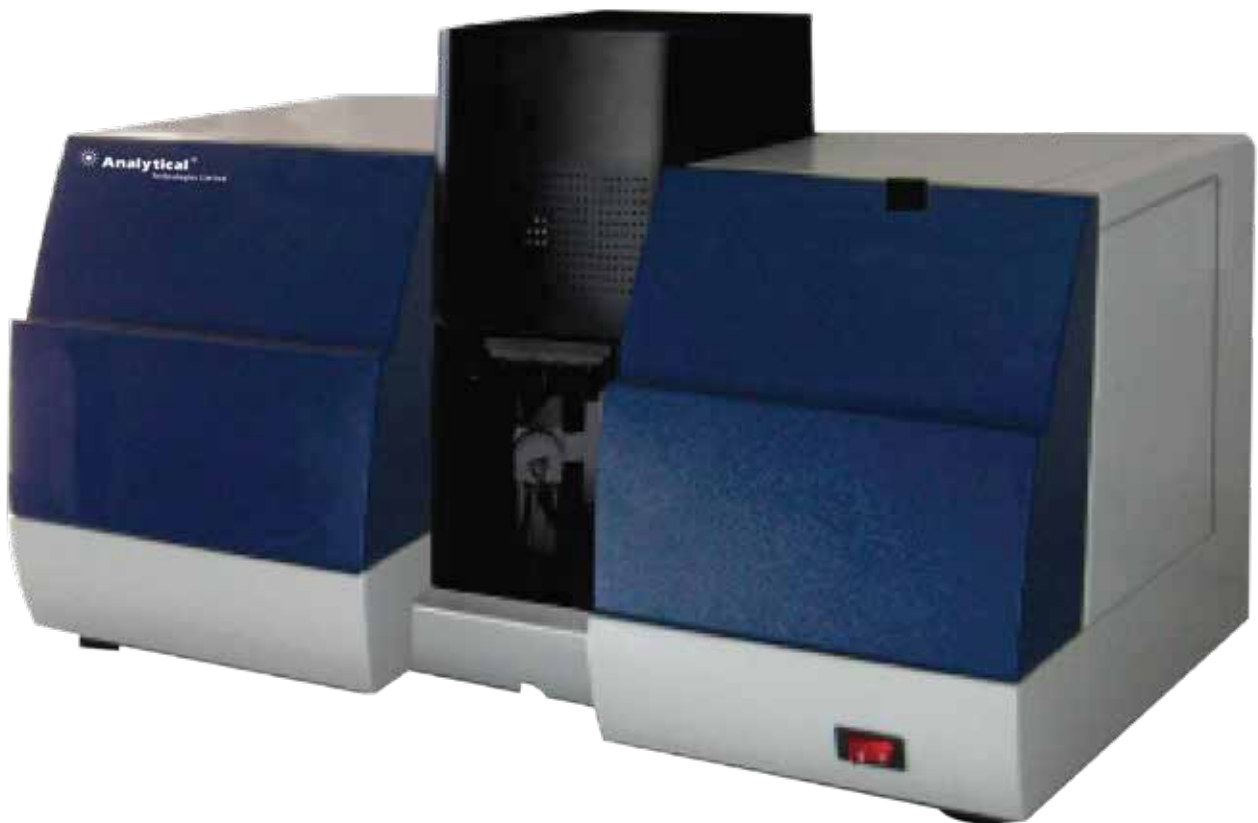


# Atomic Absorption Spectrometer

## AAS 3500



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://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

- **Eight (8) 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 N<sub>2</sub>O** 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**

<b>Primary Optics</b>	Ebert-Fastle optics with electronic double beam
<b>Band Pass</b>	Software adjustable 0.2, 0.6 and 1.2nm. Bandwidth is automatically selected
<b>Grating</b>	45mm x 36 mm grating: 1200 lines/mm
<b>Wavelength Range</b>	180-900 nm controlled by software
<b>Wavelength Selection</b>	Auto-wavelength selection, auto peak search and auto energy gain control
<b>Measurement Unit</b>	Peak height
<b>Background Corrcion</b>	Rapid self-reversal method
<b>PMT</b>	High quantum efficiency photomultiplier tube from 185 - 900nm, automatic gain control UV enforced PMT from 180 - 700 nm, optional.
<b>Light Source</b>	Hollow cathode lamp (HCL), 8 lamp turret with 2 independent power supplies
<b>Built-in High Intensity power supply</b>	Equipped with one (1) channel high intensity power supply which provide improved sensitivities & lower detection limits
<b>Dimensions</b>	85.4 x 50.0 x 48.0 cm

▶▶ **Atomizers**

<b>Standard Atomizer</b>	Flame
<b>Optional Atomizer</b>	Vapor/Hydride generator (VG), 50 mm N <sub>2</sub> O, flame burner head, detection, flame status monitoring and auto shut down of flame.
<b>Flame</b>	
<b>Spray</b>	Allegheny titanium alloy burner head with solid Teflon nebulizing spray chamber, tailor-made high proficiency nebulizer with glass capillary and metal jacket
<b>Gas Control</b>	Manual acetylene gas flow control; auto-switch between air and nitrous oxide
<b>Flame Ignition</b>	Automatic
<b>Performance</b>	2ppm Cu Abs.03, RSD=, <1.0%
<b>Vapor Generator</b>	
<b>VG Control Mode</b>	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**

<b>Sample Preparation</b>	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.
<b>Operational Control</b>	External PC connection
<b>Hallow Cathode Lamp</b>	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.



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► **Our Products & Technologies**



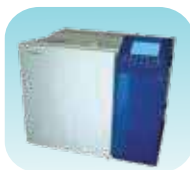
UV/VIS Spectro 2080+ Double Beam



Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



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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**

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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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