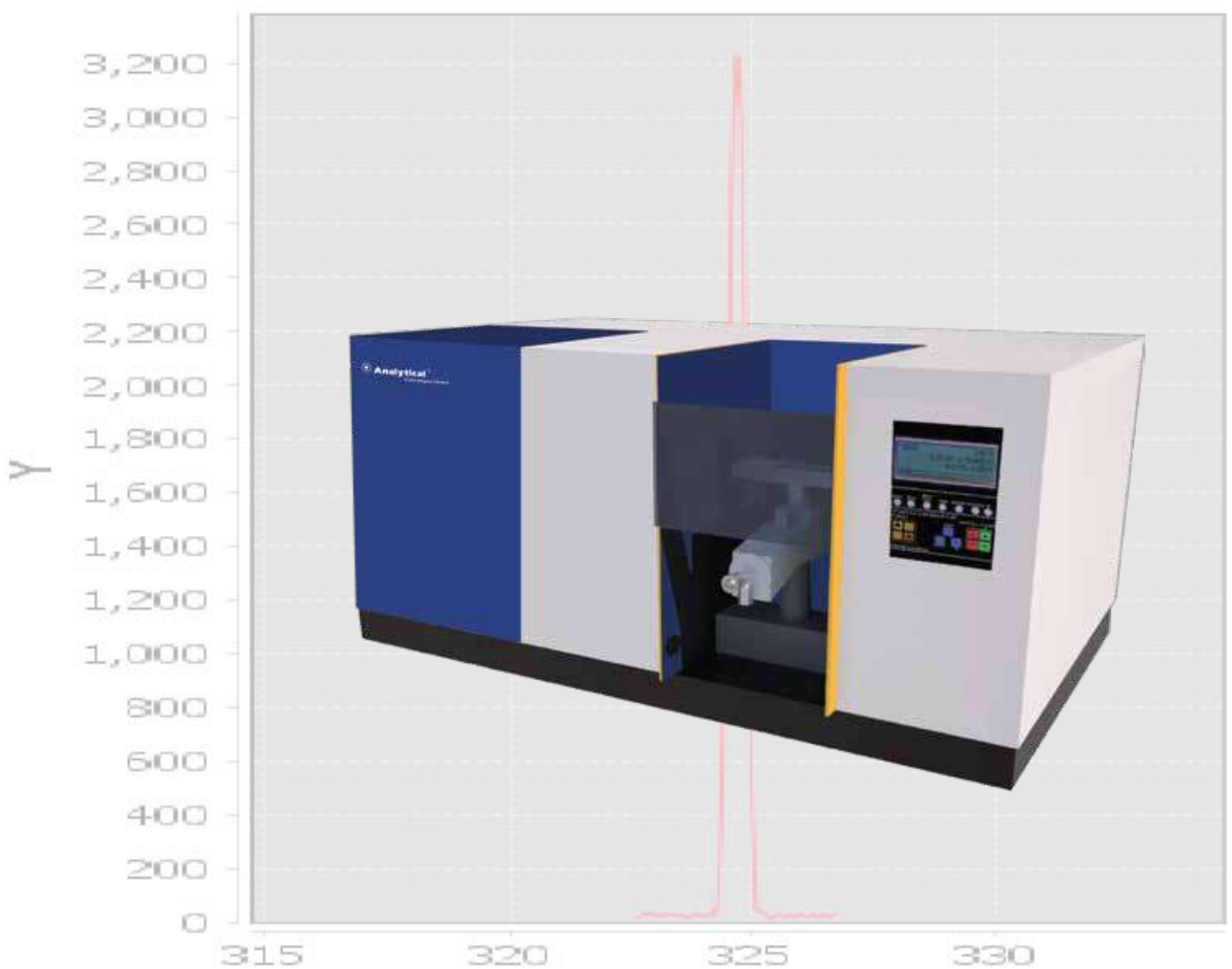


# AAS-2800D

Atomic Absorption Spectrophotometer



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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

## ▶▶ Atomic Absorption Spectrophotometer

- ATL AAS 2800D is fully automated and PC controlled atomic absorption spectrophotometer with flame & hydride system. The system comprises of automatic 8 lamp (dual active) HCL turret and automatic variable spectral bandpass. The system uses state-of-art, ultra-fast lamp modulation up to 1024 Hertz coupled with Hamamatsu Photomultiplier tube, true double beam optics and Deuterium lamp background correction results into extreme stable and reproducible results.

## ▶▶ Features

- Real Time true double beam spectrophotometer
- Automatic EHT optimization & selection
- Optional Graphite Furnace accessory for simultaneously analysis
- Holographic Diffraction blazed grating with ruling density
- Monochromator
- Czerny Turner design with precision motorized drive for wavelength selection
- Automatic calibration detection with correction

### \* Atomizer

- PTEF inert atomizer for both flame and VGA; accommodating titanium 100 mm Air-Acetylene burner & 50mm Nitrous Oxide – Acetylene burner. Optional software controlled movement of atomizer.
  - Software controlled 8 lamp automatic HCL turret
  - Inbuilt dedicated 8 channel HCL Lamp supply
  - 3 dimensional optical path optimization system
  - Dual active support to enable secondary lamp warmup
  - Supports coded and un-coded HCL Lamps
  - Inbuilt lamp library with preconfigured wavelength, spectral bandwidth and oxidant user selectable
  - User selectable preferred wavelength and spectral bandwidth selection
- Background Correction System
- Deuterium arc lamp with 1024 Hz modulation performs background correction from 190.0 to 425.0 nm
  - Inbuilt Deuterium arc lamp current optimization control unit

### \* AAS 2800D – Manual (Standard)

- Standard manual gas box with safe, sturdy and independent roto flow meters with oxidant and fuel monitoring Manual actuated ignition system with airacetylene
- Minimum acetylene flow is boosted prior to the oxidant change when switching from Nitrous oxide – Acetylene operation

\*Powerful Windows Based Analysis Software

- Automatic initialization and selfdiagnostics on startup
- Large LCD type display shows all critical information simultaneously
- CFR21 part 11 complaint software with database support to capture all events and results generated by the software
- Provision to digitally sign pdf document using secured token
- Automatic Lamp, EHT and spectral bandwidth selection based on analysis
- Organization setup with users and roles
- Built in modules to operate Lamp system ,Burner position & Flame characteristics
- Powerful analysis setup with adjustment of replicates, integration time and read delay

►► **Technical Specification**

wavelength range :	180-900nm
reading :	3.5 ABS
Ultra-fast modulation :	1024 Hz
Sensitivity :	> 0.8 ABS
copper solution :	5.0 mg/L
RSD :	<0.5%
covers wavelength :	180-900nm
grating :	1800 lines/mm
Holographic Diffraction blazed :	30.0x30.0x6.0 mm at 250.0 nm
RLD :	1.6 nm/mm
accuracy :	±0.1nm
Repeatability :	0.1nm
resolution :	0.2nm
Wide focal length :	330.0 mm
bandwidth :	0.1 nm to 2.0nm (variable)
Detector Type :	Photo Multiplier Tube (PMT)

Physical Dimensions:  
865.0mm (L) x 525.0mm (W) x 520.0mm (H)  
70KG (instrument only)\*

Power Requirements:  
AC 230 ± 10% with proper ground earth.

Environmental Requirements:  
Temperature Range: 15°C – 40°C  
Humidity: 0% - 80%

Output:  
USB standard, Optional WIFI, Bluetooth, Ethernet when  
used standalone touch screen Windows based  
controller

AAS 2800D Atomic Absorption Spectrophotometer



	Save	Refresh	Element Name	Current mA	λ NM	Slit NM	Oxidant Air	Oxidant Nitrous	Active 1	Active 2
Lamp 1	Cu	Copper	4	324.7	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lamp 2	Fe	Iron	5	248.3	0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Lamp 3	Hg	Mercury	10	253.7	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lamp 4	---	Select Lamp	0		0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lamp 5	---	Select Lamp	0		0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lamp 6	---	Select Lamp	0		0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lamp 7	---	Select Lamp	0		0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lamp 8	---	Select Lamp	0		0.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :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 global. 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.

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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:



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](mailto: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.

# Analytical Foundation

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