

Atomic Absorption Spectrometer

Simple, Effective, Efficient

The 230ATS Atomic Absorption Spectrometer comes with three powered lamp brackets inside of the instrument and can be upgraded to include D2 background correction.



Features

Automated wavelength setting

Automated Slit selection

Push button ignition

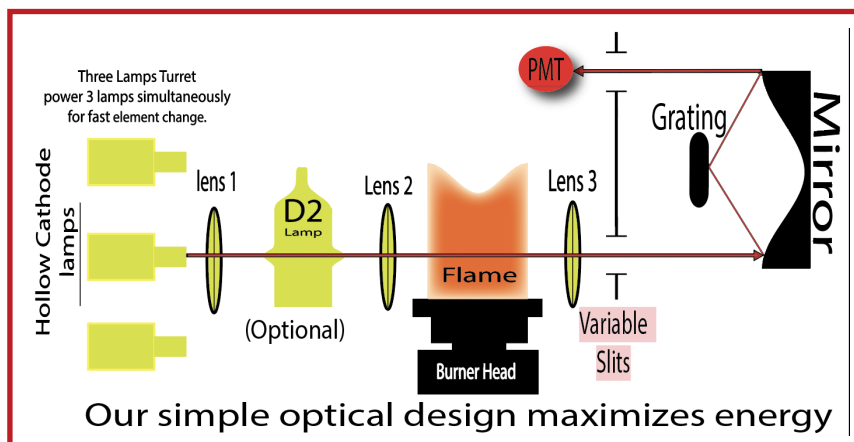
10" color touchscreen

5 screen tabbed GUI
(graphic user interface)

4 USB ports

Optional D2 Background correction

High Energy Optical Design



230ATS

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See More with Superior Optics

Our innovative optical design unlocks the full potential of atomic absorption, providing greater sensitivity and lower detection limits than traditional systems. By maximizing energy throughput, our instruments can measure lower concentrations of key elements like Arsenic and Selenium without expensive EDL lamps.

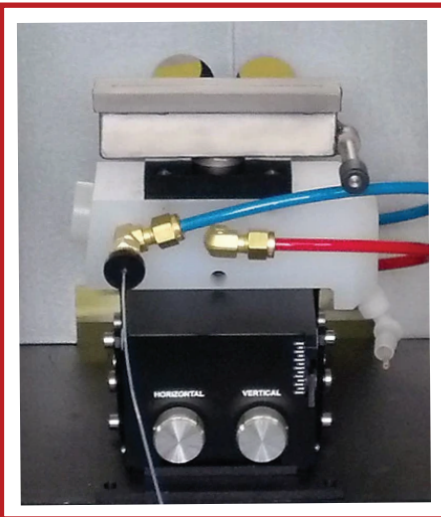
This efficient design also allows our spectrometers to be remarkably compact. Our instruments have a smaller footprint and lighter weight compared to competitor models, making them ideal for space-constrained labs and field applications.

The bottom line? Our optimized optics deliver enhanced performance and versatility. Get expanded analytical capabilities without the high cost and bulk of dated AA systems. Discover new levels of trace element detection with our cutting-edge atomic absorption technology.



With Autoignition

Unlock Maximum Sensitivity with Superior Nebulization



Our short-path dynamic nebulizer-burner setup is engineered for performance. We precisely position an inert nebulizer needle to inject the sample into a venturi for incredible nebulization. This nebulizes even challenging sample types with high total dissolved solids or viscosities.

The sample then reaches a high-velocity impact bead made of corrosion-resistant material. This generates a fine aerosol mist for the most efficient transport of sample to the flame.

What does this mean for your lab? Our innovative nebulizer setup delivers extreme sensitivity and stability across all sample matrices. You get lower detection limits to see more of your sample and expanded analytical capabilities.

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Superior Nebulization

Easy access was a guiding principle in our 230ATS design. We've engineered quick-slide doors and panels to make wear components readily serviceable. Our founder's decades of hands-on experience ensured critical parts are upfront and convenient to maintain.

Because at Nwspec, we know downtime costs you.

While other brands maximize profits using inferior components, we refuse to compromise. Our atomic absorption systems are made to perform, day after day, with industrial-grade materials.

Experience the difference thoughtful design makes. Our instruments deliver the powerful performance labs need while simplifying upkeep. You get robust construction coupled with incredible ease of service.

Partner with the only spectrometer designed by technicians, for technicians. Discover worry-free ownership and increased productivity. That's the Nwspec difference.



Easy Service

Atomic Absorption Spectrometer

Specifications

Wavelength Range:	190 to 900nm, Accuracy $\pm 0.2\text{nm}$, Precision $\pm 0.1\text{nm}$
Monochromator / Optics:	250mm Ebert mount, 600 lines/mm grating, 0.2-0.7-2.0nm bandpass
Hollow Cathode Lamp Supply:	Powered 3 lamp brackets 3 to 75 mA peak in NORMAL mode..
Optional: Background Correction:	Deuterium - In-Line (see-through) configuration, pulsed illumination, hot cathode, variable frequency, corrects from 190-350nm (0.7nm slit).
Burner / Nebulizer:	Polypropylene spray chamber with pre-mix burner and high efficiency adjustable nebulizers (SS), Titanium burner heads for Air/Acetylene, Argon/Hydrogen and Nitrous Oxide/Acetylene operation.
Integration / Response Range:	User select-able times from 0.5 to 10 seconds for continuous (flame) and transient (hydride) signals.
Calibration:	Automatic, weighted least squares fit to 1st, 2nd, 3rd, or 4th order functions, up to 8 points.
Display:	10" Color touchscreen with Linux OS
Output Modes:	4 USB ports
Dimensions / Weight:	39"L x 11"W x 12"H; 50 lbs (100 lbs shipping weight)
Power Supply:	100-240 VAC operating range, 50/60 Hz AC, <150 watts

Nwspec'S PROMISE

At Nwspec, you're not just a customer - you're family. Since 1970, our close-knit team has prioritized personal support at every step.

Questions? We're always here to help via phone, email, or video chat. Our experts offer guidance remotely or in-person training at your lab. Wherever you are, you're covered.

Maintenance needs? Most domestic clients utilize our cost-effective, ship-back service. We take care of repairs and maintenance at our U.S. headquarters, getting instruments back to peak performance.