

# Skyray Instrument

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## AFS200T Atomic Fluorescence Spectrometry







# Product Introduction

Hydride-Atomic Fluorescence Spectrometry (HG-AFS) is a new hyphenated analysis technology, developed from the perfect combination of hydride generation technology and non-dispersive atomic fluorescence spectrometry system. It can test elements which can form gaseous hydride such as As, Sb, Bi, Se, Te, Pb, Sn, Ge and elements which can form volatile gaseous components such as Hg, Cd, Zn. HG-AFS has obtained great evaluation from analyzers domestic and abroad with its advantages such as simple structure, high sensitivity, little GC interference, wide linear range, fast analysis speed.

AFS200T Double-channel Atomic Fluorescence Spectrometer is elaborated by Skyray, using national patented technology and having own intellectual property right. Its well performance and complete functions can meet users' comprehensive sample testing requirements.



New standard for healthy life

## AFS200T Atomic Fluorescence Spectrometry

### Technical specification:

- ❑ Detectable element range  
11 elements such as As / Sb / Bi / Hg / Se / Te / Pb / Sn / Ge / Zn / Cd
- ❑ Typical element detection limit(D.L)  
As, Sb  $\leq 0.01\text{ng/ml}$  Hg  $\leq 0.001\text{ng/ml}$
- ❑ Accuracy (RSD): Accuracy of typical elements  $\leq 1\%$
- ❑ Linear range More than three magnitudes

### Excellent performance:

1. Small volume of main frame and fashionable figure
2. Unique optical path design and it is easy for operation
3. In-built on-time flame observation device
4. USB interface
5. Double-path mass flow controller, Ar pneumatic control system
6. Equipped with light source hot-plugging module
7. High intelligent and high intensity cathode light source

### Configuration:

Low temperature atomizer  
Two peristaltic pumps  
Electric circuit control system  
Optical multiplier  
CCD of high resolution  
Two mass flow controllers  
Atomizer height fine-tuning device  
Optical system

### Application field:

HG-AFS is widely applied in water quality supervision, food analysis, geological metallurgy sample analysis, environmental sample analysis, biological sample analysis, agriculture and vegetal sample analysis, medical material and medicine analysis, cosmetics analysis, scientific research domain and others.

