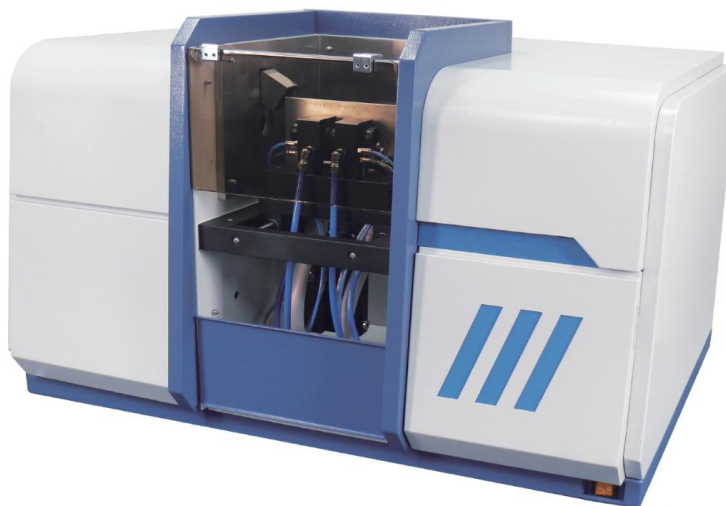


## 4730FG Atomic Absorption Spectrophotometer Flame-Graphite Furnace Automatic Integrated

### Features

- ◆ Permanently equipped with both flame and graphite furnace atomize, switched by computer. Automatically determine the best position. Vertical 8 light stand, rotating light search by computer control, preheating and optimizing use conditions.
- ◆ Total reflection optical system, using two aspherical optical elements to strictly correct astigmatism, effectively improve the monochromator entrance slit energy. Automatic wavelength scanning and peaking.
- ◆ With self-absorption correction and deuterium lamp correction 2 background deduction methods. when the background signal 1A, deuterium lamp background correction capability >60 times.
- ◆ Automatically cut off the gas when the gas pressure is insufficient, the power supply is interrupted. the flame is turned off or the combustion head is not matched, to ensure safety. Equipped with HD camera, the automatic graphite furnace injection needle position adjustment is more convenient, the whole process of graphite furnace injection visualization.
- ◆ Equipped with waste liquid level sensor to ensure data stability and safe use.



### Software Functions

- Method save and call: Different experimental methods and parameter Settings can be saved. This makes the method switching more convenient during the analytical test, and can also improve the consistency and repeatability of the analytical test.
- Concentration calculation: standard curve method and standard addition method are provided. Standard curve method can choose single point calibration or multi-point calibration, multi-point calibration can choose 1,2, 3 functions and mutual conversion, support up to 30 concentration points repeated 20 times of standard sample calibration, automatic calculation of average value, standard deviation (SD) and relative standard deviation (RSD).
- Sample information table editing and data processing functions: provide weight factor, volume factor, dilution factor and other sample information editing, can calculate the solid sample concentration (sample content) directly, improve the integrity of the experiment report.
- Data export and report generation: software supports data export capabilities, which can be processed into excel formats, which facilitate statistics and further analysis. At the same time, the software also provides the reporting generation function. which allows users to generate complete experimental reports as required, and the storage and printing is used for recording and filing.

## Specifications

Monochromator Type	Czerny - turner	Grating	1800 lines/mm
Grating Flare Wavelength	250nm	Wavelength Range	190nm ~900nm
Bandwidth	0.1 nm、 0.2nm、 0.4nm、 0.7nm、 1.0nm、 2.0nm automatic	Spectral Bandwidth Deviation(Cu)	≤0.2nm +0.02nm (bandwidth 0.2nm)
Wavelength Repeatability	≤0.03nm	Absorbance Range	-0.1~2.5a
Baseline Stability(Cu)	≤0.002A/15min (Static test)	Characteristic Concentration (Cu)	0.02μg/ml/1%
Lod(Cu)	0.003ug/ml	Wavelength indication Error	±0.15nm
Measurement Repeatability (Cu)	≤0.45%(fame method)	Graphite Furnace Temperature Accuracy	+10 °C
Measurement LOD	Cd≤0.2x10 <sup>-12</sup> g (GF method)	Temperature Control	20-3000 °C, maximum heating rate >2000 C/s
Heating Steps	20 steps	Slope Heating Time	0s-999s
Holding Heating Time	1s ~ 999s (The sum of the slope heating time and the holding heating time is not greater than 999s)	Measurement Repeatability	Cds2%(Use automatic sampler andplatform graphite tube )
Characteristic Mass	Cd≤0.5pg	Lamp Stand	8 lamps
Linear Error	Cd ≤10%	Graphite Furnace Heating Method	Longitudinal flux induction
Burner	Titanium burner	Atomizer	heating
Premix Chamber	Explosion-proof	Power	High efficiency glass atomizer
Host instrument	850mmx637mmx575mm		AC220v+22v, 50hz+0.5hz,6600W

### Standard Accessories

1. Oil-free air compressor 1pc
2. Hollow cathode lamp (Cu) 1pc
3. High efficiency glass atomizer 1pc
4. Titanium burner 100mm 1pc
5. Oxygen pressure reducing valve 1pc
6. Acetylene pressure reducing valve 1pc
7. Air water filter 1pc
8. Pyrolytic graphite tube 1pc
9. Platform graphite tube 1pc
10. Micro pipettor 1pc

### Optional Accessories



AAH-1 flow injection hydride generator



AS800A Cooling water circulator



AS4030 Graphite furnace automatic sampler



Hollow cathode lamps



High efficiency glass atomizer



Graphite tubes