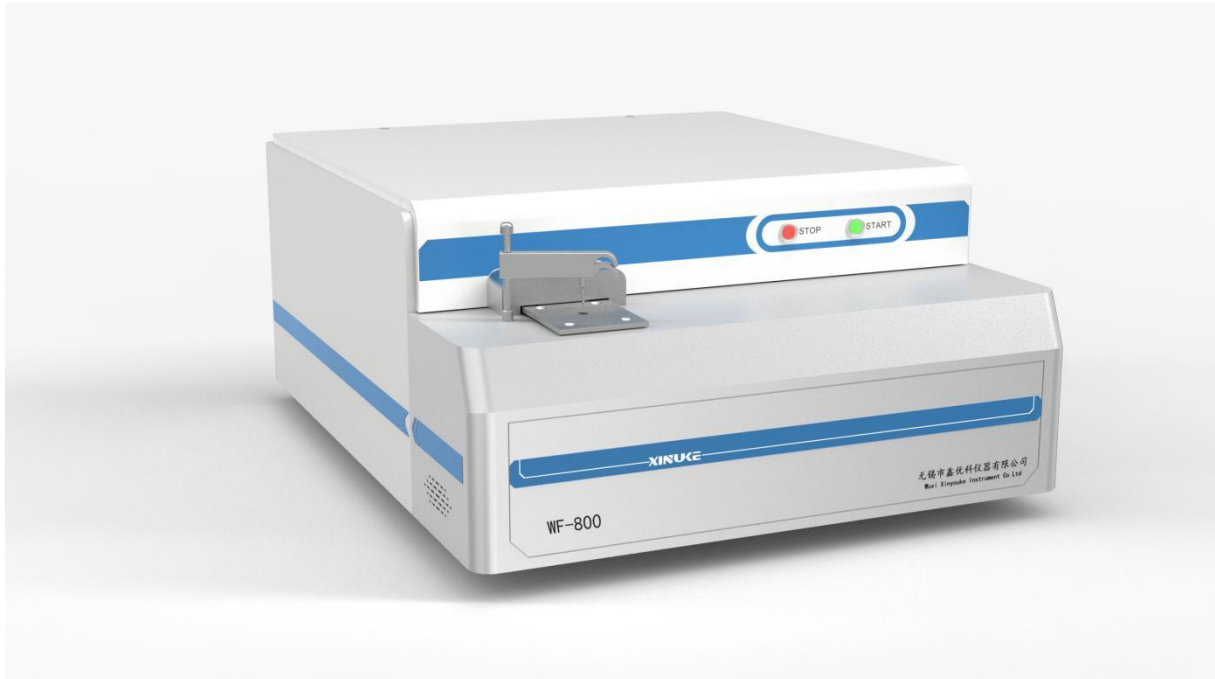


WF-800 Direct-reading spectrometer



➤ **Product Overview**

WF-800 Direct-Reading Spectrometer employs the most advanced, internationally recognised second-generation CCD spectrometer technology. It finds extensive application in production process control, furnace-side analysis, and central laboratory product inspection across metallurgy, foundry, machinery, automotive manufacturing, aerospace, armaments, and metal processing sectors. Featuring a compact form factor, high integration, excellent detection accuracy, stable performance, low operating costs, and straightforward operation and maintenance, it represents an ideal choice for controlling product quality.

➤ **Product Features**

- 1、 Full-spectrum spectrometer technology, replacing traditional photomultiplier tube analogue technology, with no channel limitations;
- 2、 High-end STM processor with high-speed synchronous data acquisition and processing, completing a single test in 20 seconds. Analysing the same sample at different time points yields excellent data consistency ;

- 3、The HEPS digital spark light source significantly enhances the discharge stability of the light source system, accommodating the analytical requirements of diverse materials
- 4、The arc flame generated during excitation is directly guided into the vacuum optical chamber via a lens, achieving a direct optical path and eliminating optical energy loss;
- 5、Core components sourced from renowned suppliers ensure the instrument's stable and reliable performance;
- 5、The specialised optical chamber design features a compact cavity, thereby reducing the time required for vacuum pumping;
- 6、Specially designed solid-state adsorption trap, providing effective protection for optical systems with long-term maintenance-free operation;
- 7、Changes or additions to channels within the base unit incur no additional cost. Extending the curve or adding a base unit requires no hardware modification;
- 8、Low-energy design, minimal power consumption, low argon gas usage。

➤ **Product Specifications**

| Full Spectrum Technology | Covering the full range of elemental analysis |
|---------------------------------|---|
| Test substrate | Iron-based, aluminium-based, copper-based, zinc-based, nickel-based, magnesium-based, lead-based, cobalt-based, tin-based, titanium-based, etc. |
| Optical structure | Parens-Runge structure |
| Light chamber temperature | 34°C±0.1°C (automatic control) |
| Light chamber type | Vacuum chamber |
| Vacuum level | 6-16Pa (automatic control) |
| Light source type | HEPS Digital Solid-State Light Source |
| Excitation frequency | 100-1000Hz |
| Excitation current | 1-400A |
| Excitation voltage | >8000V |
| Argon purity | 99.999% |
| Argon pressure | atmospheric pressure ≥ 1MPa |
| Argon flow rate | 5 litres per minute during operation; no flow required during standby. |



-----Thank you for your interest !

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| Data Acquisition System | |
| Processor | High-end STM processor, high-speed synchronous data acquisition and processing |
| Interface | Ethernet Data Transmission Based on DM9000A |
| Power Supply and Environmental Requirements | |
| Input | 220VAC 50Hz |
| Power | 700W output, 40W standby |
| Operating temperature | 10-30℃（Recommended 23℃ ± 2℃） |
| Operating humidity | 20-80% |