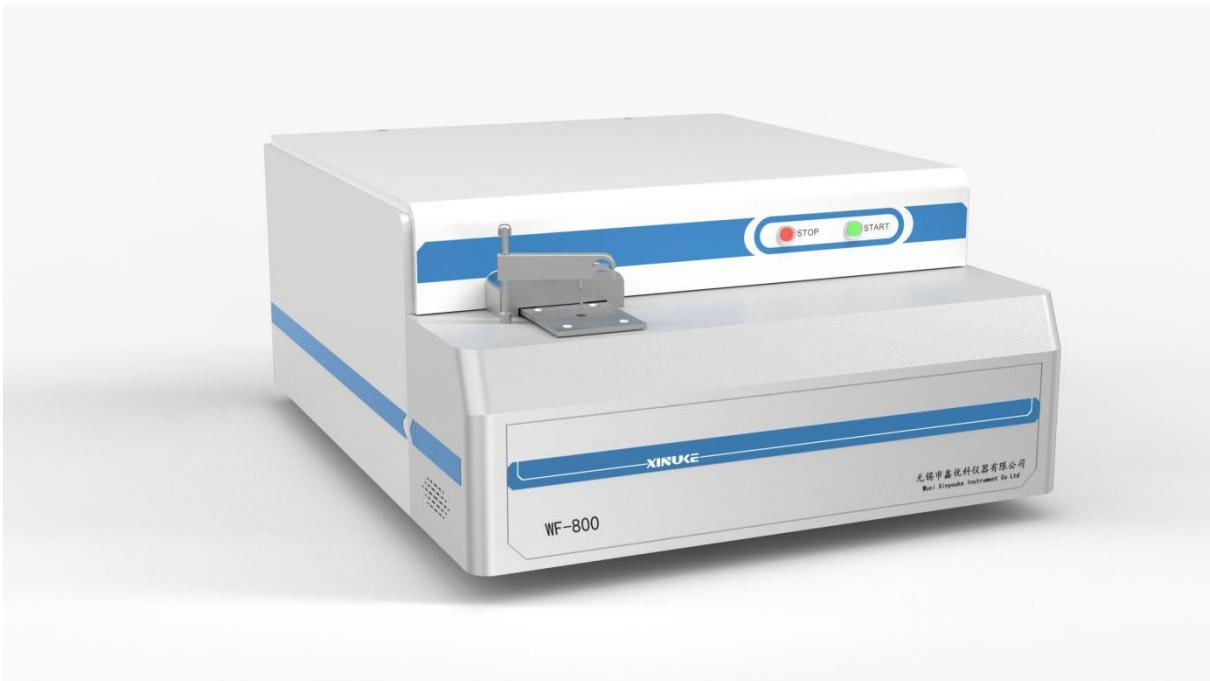


WF-800 Direct-reading spectrometer



➤ 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.

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°C (Recommended 23°C ± 2°C)
Operating humidity	20-80%