

DF-700 Full Spectrum OES



Introduction

- 1) Argon fulfillment optical chamber occupies smaller space with less energy consumption.
- 2) Czerny-Turner optical system is applied for a better plane CCD collection for all Mobile(Whatsapp): +8615853509552 Fax: +86-0535-8206988



elemental wavelength that falls into 140-750nm.

- 3) Self-developed DF-IV collection device for spectral lines is available for wavelength range between 140nm and 750nm.
- 4) Several matrices can be analyzed such as Fe, Cu, Al, etc.
- 5) Module design for independent light collection, data processing and data optimization. With the help of high-performance ARM processor and real-time operational system, analytical time is largely shortened and accuracy is further improved.
- 6) 3G thermostatic system improves the energy efficiency to a great extent. The temperature fluctuation range of ± 0.2 °C makes the DF-400 perform more stable.
- 7) The DF II-S digital-controlled light source increases the elemental analytical range and accuracy.
- 8) Plane grating allows smaller number of CCD, further improving the accuracy and stability. It also occupies smaller space and makes set-up and movement a lot easier.
- 9) The multipurpose operational software can meet various needs by displaying elemental data in a flexible way and supporting various printing formats.

Specifications

optical system	structure	Czerny-Turner	
	curvature radius	400mm	
	IV holographic original		
	grating with aberration	2400 ruled lines/mm	
	correction function		
	wavelength range	140-750nm	
	pixel resolution	@200nm:10pm	
	vacuum optical chamber	30±0.2°C	
	with auto thermostatic	argon fulfillment optical	
	system	chamber	
light source system	light source	digital controlled	
		spark pulse	
	control technique	PWM	
	discharge current	10-400A	
	excitation frequency	100-800Hz	
	discharge duration	10-10000μs	
spark stand	excitation chamber with minimum argon use		
	easily-changeable foundation(lid)		
	mobile hold-down pin		
data collection and control system	CCD detector with high resolution		
	linear CCD: Toshiba		
	high-speed 16-bit A/D conversion		



	resolution: 3	resolution: 3648 pixel ethernet	
	ether		
others	matrices	Fe, Cu, Al, Ni, etc.	
	dimensions(mm)	940*360*530	
		T 10°C-35°C	
	environmental requirement	H 20%-80%	
		50Kg (net weight)	
	weight	70Kg (gross weight)	
	V/F	AC220V±10%/50Hz	
		max 300VA	
	power	standby 100VA	
		purity≥99.994%,	
	argon	press≥0.3MPa	