

DF-660 Full Spectrum OES



Introduction

1) Czerny-Turner optical system is applied for a better plane CCD collection for all elemental wavelength that falls into 130-800nm.

2) Self-developed DF-IV collection device is able to collect all elemental wavelength between 130nm and 800nm.

3) Several matrices can be analyzed such as Fe, Cu, Al, Zn, Ni, Sn, Ti, etc.

4) 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.

5) 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.

6) The DF II-S digital-controlled light source increases the elemental analytical range



and accuracy.

7) 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.8) The multipurpose operational software can meet various needs by displaying elemental data in a flexible way and supporting various printing formats.

Specifications

	structure	Czerny-Turner	
optical system	curvature radius	450mm	
	IV holographic original		
	grating with aberration	3600 ruled lines/mm	
	correction function		
	wavelength range	130-800nm	
	pixel resolution	@200nm:7pm	
	vacuum optical chamber	30±0.2°C vacuum range: 1.2-2.5 Pa	
	with auto thermostatic		
	system		
	light source	digital controlled	
		spark pulse	
light source system	control technique	PWM	
ingin source system	discharge current	10-500A	
	excitation frequency	100-1000Hz	
	discharge duration	10-10000µs	
spark stand	excitation chamber with minimum argon use		
	easily-changeable foundation(lid)		
	mobile fixing pin		
data collection and control system	CCD detector with high resolution		
	linear CCD: Toshiba		
	high-speed 16-bit A/D conversion		
	resolution: 3648 pixel		
	real-time control on temperature and vacuum state		
	ethernet		
others	matrices	Fe, Cu, Al, Ni, Zn, Sn, Ti,	
		etc.	
	dimensions(mm)	946*412*627	
	environmental requirement	T 10°C-35°C	
		H 20%-80%	
	weight	90Kg (net weight)	
		120Kg (gross weight)	
	V/F	AC220V±10%/50Hz	

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power	max 800VA standby 100VA
argon	purity≥99.994%
	press≥0.3MPa