ICP2060T Sequential Scanning Inductively Coupled Plasma Emission Spectrometer

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Skyray Skyray Instrument

	Solid State Power	Electronic Measurement& Control Circuit				
Frequency:27.12MHz		Photomultiplier tube specification:R212/R928				
Frequency stabili	ty:<0.05%	Negative high voltage: (-50 ~ -1000) V				
Matching: Automa	doh	Circuit measuring range: (10" ~ 10") A				
Output power:800W ~1600W, continuously adjustable with power efficiency more than 65%		Signal acquisition: VF conversion				
		Computer				
Output power stability: <0.05%		Lenovo PC				
Induction coil:ID 25mm×3, equipped with three concentric quartz torch tubes of ED 35mm (ID: internal diameter; ED:external diameter) Spray chamber:Scott double pass spray chamber		Monitor: 17 Inches LCD Monitor				
		Printer:Canon inkjet				
		Main power supply:AC 220V, Current: 20A				
	Monochromator	Technical Specifications				
Optical type:Czer	turner .	Suitable sample	Liquid sample:0.01ppm~ several thousands ppr			
Focal length:1000mm		content range	Solid or powder sample: 0.001% ~ 70%			
Resolution	<0.015nm (3600 line grating)	Repeatability:short-term stability, RSD≤1.5%				
	<0.030nm (2400 line grating)	Long-term stability:RSD<2%				
Grating specification	huge holographic grating with 3600L/mil or 2400 L/mil	Test speed:5-8 elements/min				
	and 80 mm 100mm of ruling area	Limits of detection (LOD, µg/L) for typical elements:1ppb~10ppb				
Navelength range	195~500 nm for 3600 line grating	Machine Size				
	195-800 nm for 2400 line grating	Desktop, 1.5m×0.8m×0.8m				

Item	Description
Temperature for storage and transportation	15°C-25°C
Humidity for storage and transportation	<70%
Power stability	220±10V 50-60Hz
Humidity	<70%
Temperature	15°C-30°C

Windpipe	Voltage stabilizer			
Gas pressure regulator	ICP 2060T power cable			
Water cooling system	Copper cable for ground			
Sampling system include nebulizer, spray chamber, plasma torch				

Implementing ISO9001 International Quality Certification System

Detection limits for typical elements (here λ refers to wavelength)($\mu g/L$) :

Element A (nm) LOD	La 408.672 < 3.0	Ce 413. 765 < 5. 0	Pr 414, 311 < 5. 0	Nd 401, 225 < 5, 0	Sm 360. 946 < 10. 0	AI 396, 152 < 5, 0	Zr 343.823 < 5.0	Ag 328.068 < 3.0	\$r 407, 771 < 1. 0	Au 242. 795 < 5. 0	
Element A (nm) LOD	Eu 381. 967 < 1. 0	Gd 342, 247 < 10.0	Tb 350. 917 < 3. 0	Dy 353, 170 < 3, 0	Ho 345, 600 < 3, 0	Pt 265.945 < 5.0	Pd 340, 458 < 5, 0	1r 224. 268 < 10. 0	Rh 343, 489 < 10, 0	Ru 240, 272 < 5. 0	
Element λ (nm) LOD	Er 337, 271 < 3, 0	Tm 313, 126 < 3, 0	Yb 369, 419 < 1, 0	Lu 261, 541 < 3, 0	Y 371. 030 < 1. 0	Ba 455. 403 < 1. 0	Cr 267. 716 < 5. 0	Sb 206.833 ≤ 15	Bi 223.061 < 10	Hg 253, 652 < 15	
Element λ (nm) LOD	Sc 335, 373 < 1, 0	Ta 226, 230 < 5, 0	Nb 313. 340 < 5. 0	Mn 257. 610 < 3. 0	Mg 279.553 < 1.0	Pb 220.353 ≪ 15	Ga 294.364 ≪ 10	Se 203.985 < 10	Sn 242. 949 < 20	Te 214. 281 ≤ 10	
Element A (nm) LOD	B 249. 773 < 10. 0	Zn 13. 856 < 3. 0	Co 228. 616 < 3. 0	Si 251. 611 < 10. 0	0s 225.585 ≤ 1	Ta 226. 230 ≤ 5. 0	Th 283.730 ≤ 10	T1 276.787 ≤ 30	Re 227. 525 ≤ 5	Ge 209. 426 ≤ 15	
Element A (nm) LOD	Ni 232.003 < 5.0	0d 226, 502 < 3, 0	Fe 239, 562 < 3, 0	Ca 393, 366 < 1, 0	Mo 281. 615 < 5. 0	¥ 207.911 ≪ 10	Se 203.985 < 30	Li 670. 784 < 3	Na 588. 995 < 20	K 766.490 ≪ 60	
Element A (nm) LOD	¥ 310, 230 < 5, 0	Be 313. 041 < 1. 0	Ti 334, 941 < 3, 0	0u 324. 754 < 3. 0							

Wide Application
 Rapid analysis
 Low detection limits



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Sequential Inductively Coupled Plasma Emission Spectrometer

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- Advanced optical design with a fully illuminated holographic grating, with spectral interference correction and high light throughput for improved detection limits
- ► Wide wavelength range: 190nm to 500nm with 3600 line grating 190nm to 800nm with 2400 line grating
- Computer controlled plasma platform optimizes the viewing position to reduce interferences, improve SNR and minimize background emissions
- ► Software controlled flow of carrier gas, plasma gas and auxiliary gas provide real time monitor as well as highly stability of flux
- ▶ Various types of torches, nebulizer as well as spray chamber are optional
- ► Choice of auto sampler greatly improves efficiency
- Sample waste drained by peristaltic pump ensures stable sample flow rate; Fast pump mode improves productivity
- ▶ The brand new robust free-running, 27.12 MHz RF generator that delivers unsurpassed performance
- ▶ Rapid and accurate automatic coupling system ensures the ultimate power transfer efficiency and stability

One-button plasma ignition

By simply click the button 'inflame' in software , the plasma can be ignited immediately.(as figure 1)

Powerful graph diagnosis function
The 'graph diagnosis' function provides information on instrument status and analysis progress. (as figure 2)

Enhanced database management
The database contains several thousands of spectral line, where users can choose freely based on application method. (as figure 4)









The professional software provide excellent features and multi access to functions as follow: Data management, quantitative and qualitative analysis, test parameter setting, one button report generation, background and interference correction, fast calibration mode, instrument status indication, and online self diagnostic.

