

XRF ORE COMPOSITION ANALYZERS

- Used for materials such as coal ash, coal, steel, cement, refractories, geological samples, and non-ferrous metal ores
- High-performance SDD detector, high resolution, high count rate, low detection limit, high precision
- Equipped with high-definition cameras, it can monitor the test area in real time, take photos automatically and generate reports
- Advanced Peltier electric cooling technology, eliminating the need for liquid nitrogen
- The high-voltage safety lock, software-controlled cover, leak-proof switch, and all-metal enclosure ensure operator safety



XRF-CA550-U

SPECIFICATION

Part No.		XRF-CA550-U	XRF-CA660-U
Sampler method		manual	automatic
X-ray tube	type	side window	
	Beryllium window area	.0387in ²	
	tube voltage	5~50kV (continuously adjustable)	
	tube current	0~1000μA (continuously adjustable)	
	target material	Ag	
	cooling method	air cooling	
Detector	type	SDD detector	
	resolution ratio	125eV	
	cooling method	Peltier cooling	
Element range		Na~U	
Collimator		automatic switching of 4 types of collimators: .039"DIA, .118"DIA, .197"DIA, .315"DIA	
Measurement situation		atmosphere, vacuum, Helium	
Sample form		solid, liquid, powder	
Work environment		50~95°F, 40%~70%RH	
Power supply		AC110V, 60Hz	
Dimensions (L×W×H)	sample chamber	11.97×14.49×3.07"	
	main unit	22.44×15.75×15.75"	
Weight		141.1lb	

STANDARD DELIVERY

Main unit	1pc
Computer	1pc
316 standard material	1pc
Vacuum pump	1pc
Sample cup (HSM-S110-CUP)	100pcs
Printer	1pc

OPTIONAL ACCESSORY

Tablet press for XRF	XRF-CA550-TPM
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Application example

Sample	Na ₂ O	MgO	Al ₂ O ₃	SiO ₂	P ₂ O ₅	SO ₃	K ₂ O	CaO	Fe ₂ O ₃
6#-1	0.353	0.691	32.606	49.193	0.127	1.246	0.836	5.975	4.838
6#-2	0.407	0.659	32.666	49.117	0.127	1.238	0.846	5.932	4.820
6#-3	0.361	0.725	32.611	49.152	0.148	1.261	0.847	5.953	4.840
6#-4	0.366	0.650	32.687	49.115	0.132	1.247	0.843	5.932	4.835
6#-5	0.313	0.666	32.601	49.122	0.153	1.244	0.828	5.973	4.844
6#-6	0.341	0.681	32.644	49.163	0.139	1.245	0.824	5.986	4.841
6#-7	0.358	0.714	32.660	49.162	0.138	1.254	0.846	5.953	4.843
6#-8	0.365	0.725	32.634	49.134	0.127	1.262	0.835	5.942	4.839
6#-9	0.282	0.692	32.604	49.241	0.124	1.248	0.839	6.006	4.850
6#-10	0.350	0.711	32.635	49.159	0.130	1.249	0.846	5.975	4.831
Mean	0.350	0.691	32.635	49.156	0.135	1.249	0.839	5.963	4.838
SD	0.033	0.027	0.030	0.039	0.010	0.008	0.008	0.024	0.008
RSD	9.533	3.938	0.091	0.079	7.278	0.604	0.972	0.408	0.169
Min	0.282	0.650	32.601	49.115	0.124	1.238	0.824	5.932	4.820
Max	0.407	0.725	32.687	49.241	0.153	1.262	0.847	6.006	4.850
VP	0.125	0.075	0.086	0.126	0.029	0.024	0.023	0.074	0.030

test instance of coal ash sample

