

Portable X-ray Fluorescence Analyzer

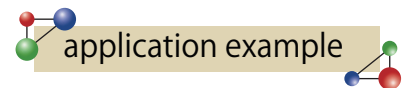
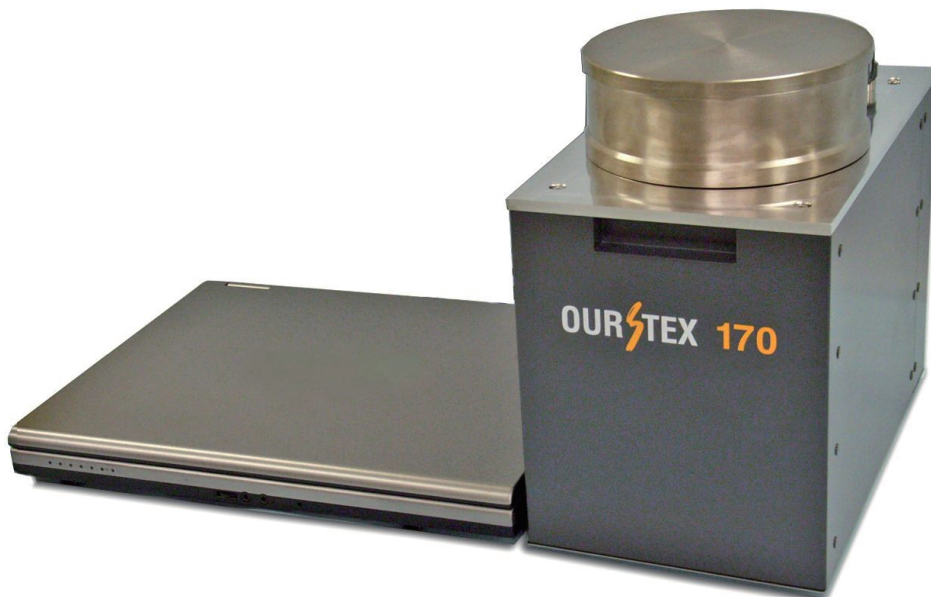
OUR TEX 170

NEW

Features

1. Weight as light as 9kg only ! movable easy even by female staff
2. AC100V only for utility designed as saving-energy (1/5 vs conventional type)
3. Realized reasonable price by concentrating simple function
4. Easy customization possible according to application
5. With SDD installed, no liquid nitrogen or cooling water required

**Small-sized , Light-weighted and High-sensitivity Analyzer
Now available at low price for specific application**



- Analysis of precious metal composition
- Control of slug alkali content in the slug
- Analysis of hazardous heavy metal, according to RoHS instruction
- Analysis of RPF(new type of solid fuel)
- Analysis of hazardous heavy metal in the soil etc....

Energy value(keV)		Element signal	Vacuum (Option)
1	1.041	H	
3	1.253	Li	
4		Be	
11		Na	
12		Mg	
5	1.486	B	
6	1.740	C	
7	2.013	N	
8	2.307	O	
9	2.621	F	
10	2.956	Ne	
13		Al	
14		Si	
15		P	
16		S	
17		Cl	
18		Ar	
19	3.312	K	
20	3.690	Ca	
21	4.088	Sc	
22	4.508	Ti	
23	4.949	V	
24	5.411	Cr	
25	5.894	Mn	
26	6.399	Fe	
27	6.924	Co	
28	7.471	Ni	
29	8.039	Cu	
30	8.629	Zn	
31	9.241	Ga	
32	9.875	Ge	
33	10.530	As	
34	11.206	Se	
35	11.907	Br	
36	12.631	Kr	
37	13.373	Rb	
38	14.140	Sr	
39	14.931	Y	
40	15.744	Zr	
41	16.581	Nb	
42	17.441	Mo	
43	18.325	Tc	
44	19.233	Ru	
45	20.165	Rh	
46	21.122	Pd	
47	22.102	Ag	
48	23.107	Cd	
49	24.137	In	
50	25.191	Sn	
51	26.272	Sb	
52	27.378	Te	
53	28.509	I	
54	29.667	Xe	
55	30.852	Cs	
56	4.464	Ba	
57-71		Lanthanoid	
72	7.893	Hf	
73	8.139	Ta	
74	8.390	W	
75	8.644	Re	
76	8.903	Os	
77	9.166	Ir	
78	9.433	Pt	
79	9.703	Au	
80	9.978	Hg	
81	10.257	Tl	
82	10.540	Pb	
83	10.826	Bi	
84	11.118	Po	
85	11.413	At	
86	11.712	Rn	
87	12.015	Fr	
88	12.324	Ra	
89-103		Actinoid	
104		Rf	
105		Db	
106		Sg	
107		Bh	
108		Hs	
109		Mt	
57	4.648	La	
58	4.837	Ce	
59	5.031	Pr	
60	5.227	Nd	
61	5.430	Pm	
62	5.632	Sm	
63	5.842	Eu	
64	6.053	Gd	
65	6.269	Tb	
66	6.490	Dy	
67	6.715	Ho	
68	6.943	Er	
69	7.174	Tm	
70	7.409	Yb	
71	7.649	Lu	
89	12.635	Ac	
90	12.951	Th	
91	13.271	Pa	
92	13.595	U	
93		Np	
94		Pu	
95		Am	
96		Cm	
97		Bk	
98		Cf	
99		Es	
100		Fm	
101		Md	
102		No	
103		Lr	

CONCENTRATION OF ELEMENTAL TECHNOLOGIES WITH HIGH-SENSITIVITY AND HIGH-PRECISION

The energy dispersive X-ray fluorescence analyzer irradiates a primary X-ray to a sample from its X-ray tube. The fluorescent X-ray generated by the analyzer is measured with a semi-conductive detector. Then you can conduct nondestructive qualitative and quantitative analyses of a sample, regardless of its shape.

With use of electronic cooling system Silicon Drift Detector (SDD) for semiconductor detection needing no liquid nitrogen, you can attain analysis of a high count rate and high resolution power in combination with Digital Signal Processor (DSP).

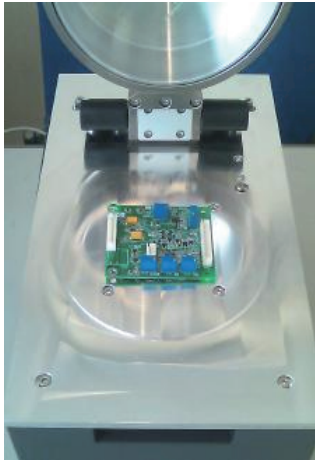
In order to enhance analytical performances, the analyzer is prepared to satisfy the conditions for optical excitation what can maximize energy resolution power and count sensitivity.

with **OURSTEX 170**

Maintaining Ourstex established technology of high-sensitivity and high-precision, we have now achieved the reasonable price to purchase easy as the result of simplifying the function and excess portion. Pursuing the type of compactness we have also succeeded to achieve light weight product with total weight as light as 9 kg which is easy carried and moved by only one female staff.



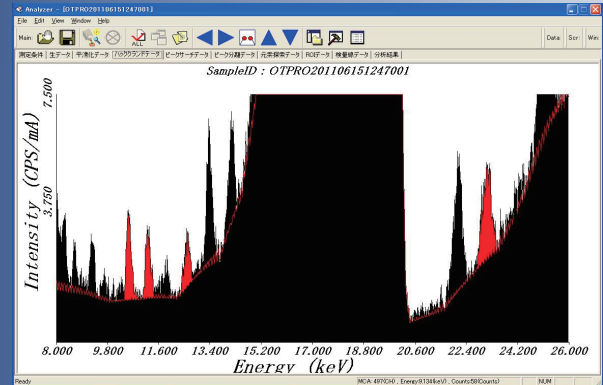
Easy to carry for on-site measurement.



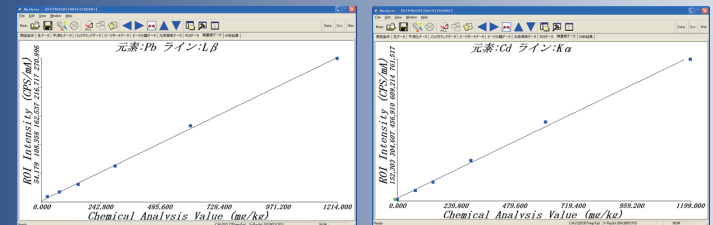
Even a large sample can be measured as it is.

Example of analysis

Spectra of heavy elements analysis in soil



Calibration curve of Pb/Cd



Specifications

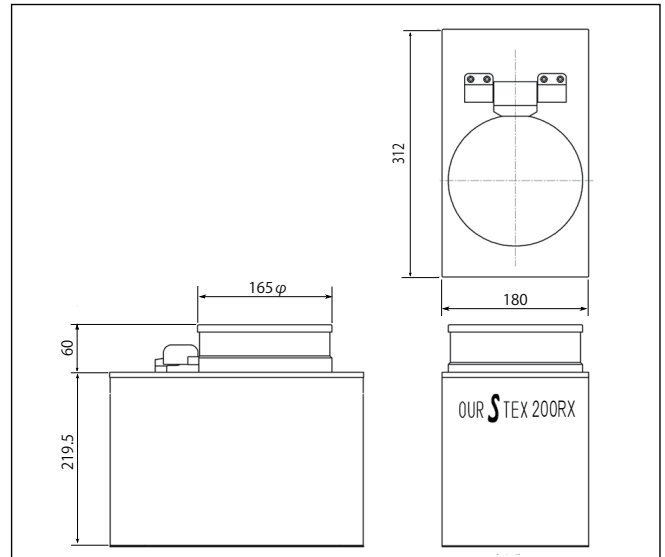
Analytical principle	Energy Dispersive X-ray Fluorescence Analyzer	
Analytical object	solid, powder and liquid	
Element to be analyzed	Na~U (Na~Ar)	
Filter	Primary filter / Secondary filter (option)	
Shape of sample chamber	165mmφ × 60mmH	
Environment of sample chamber	Atmospheric	
Rated X-ray output	50kV 0.2mA(MAX)	
Detector	Electronic cooling Silicon Drift Detector	
Counting circuit	Digital processing type	
Conditions of use	Temperature	5~27°C
	Humidity	20~75%
	Power supply	AC100 ~240V 1A(50/60Hz)
	Facility	Grounding Class D
Other (optional)	Vacuum pump, C-MOS camera, FP Method, PC, Carrying case	

Before an implementation of OURSTEX 170, a notification to Labor Standards Supervision Office is required.

⚠ For your correct and safe use, please be sure to read the operation manual in advance.

Contact for Inquiry

Dimensional drawing



OURSTEX

OURSTEX Corporation

Head office ■ 13-20 HOMMACHI NEYAGAWA OSAKA JAPAN 572-0832
TEL : +81-72-823-9361 FAX : +81-72-823-9340
Tokyo office ■ 8-37 SANEI-CHO SHINJUKU-KU TOKYO JAPAN 160-0008
TEL : +81-3-3358-4985 FAX : +81-3-3358-1954

URL : <http://www.ourstex.co.jp>

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