

## Portable XRF Soil Analyzer

# ATX2600S

### Feature

- One-button anti-stay operation, remove complex operation options, effectively prevent human misoperation
- Software exit and automatically shut down; (Users can customize the shutdown time)Copper alloy grade and contents, including brass, bronze, copper
- Automatic calibration of the instrument without manual operation
- Results are displayed in 1 second
- View spectrograms in real time; (both mobile phones and instruments can be used)
- Data transmission through mobile 4G, shared hotspot, WiFi and mobile APP

### Application

- Environmental assessment (soil heavy metal detection)
- Hazardous waste screening
- Quickly measure soil and outcrop formations to identify potential drilling targets
- Real-time screening of borehole samples at open pit sites for real-time analysis of feed, concentrate and tailing
- Ore trading, on-site detection and rapid classification, 1-3 seconds to measure the alloy grade and composition content, accuracy up to 0.01%

### Description

Optosky ATX2600 is self-designed handheld X-ray soil heavy metal analyzers.

Optosky is the most affordable handheld XRF analyzer manufacturer for fast, accurate, and reliable XRF spectrometer, With the rugged and compact size, the fastest identification of heavy metals in soil.

The contents of heavy metals such AS CD, CR, SE, HG, PB, CU, ZN, AS, SB in soil were detected rapidly.

Rapid detection of soil heavy metals (PPM)

Building or waste point real-time heavy metal inspection lead (PB) pollution removal prevention and control solid waste detection of heavy metal elements wire combustion, waste liquid, slag migration caused by bad weather debris industry and mining surrounding environmental samples requirements are low. Accurate and accurate analysis of high concentration samples can be performed by analyzing the surface of stratum rock samples directly to determine the depth of contamination without confirming the experimental test to delimit the area of contamination.



## 1. Parameters

Item	Description
Weight	Body: 1.4kg plus battery 0.1kg, Total Weight: 1.5Kg
Dimension	300 x 90 x 220 mm
Voltage current and power	50KV, 100MA, 4W
Detector	Si-Pin or SDD
Temperature	-35~85 degree
Resolution	<180ev
Power	8 hours
Software	Windows, WIFI,8G memory card,>40,000 database
Touch screen	3.5 inch touch screen
Elements	Si-Pin: Element Ti~U, including common element Ni, Cr, Mo, Mn, Cu, Fe, Ti, V, Co, Ta, Nb, Pb, Sn, W, Zn, Bi, Cd, Re, Ru, Sb, Se, Zr, Hf, Ir, Au, Ag, Pd, Pt, Rh SDD: Element Mg~U, including more Mg, Al, Si, P, S, Cl, Ar, K, Ca, Sc.
Radiation	<2.5 $\mu$ Sv/h
Elements contents	0.01% ~ 99.99%

## 2. Reliability and Accuracy

Metal detect limit <0.01%

- A. detect content > 5%, stabilized readout error  $\pm 0.1 \sim 0.2\%$
- B. detect content 0.5~5%, stabilized readout error  $\pm 0.05\% \sim 0.1\%$
- C. detect content 0.1~0.5%, stabilized readout error  $\pm 0.01 \sim 0.03\%$
- D. detect content 0.1%, stabilized readout error  $\pm 10 \sim 15\%$

## 3. Attachments

S/N	Description	QTY
1	XRF Analyzer	1
2	Free Software	1
3	Li Battery	2
4	Charger	1
5	USB Wire	1
6	316 SS sample	1
7	User Manual	1
8	QC Report	1
9	Window Protect Film	1
10	Carrying Case	1

<b>Free Library</b>				
<b>Fe-based Alloy</b>			<b>Ni-based Alloy</b>	
201	Alnico VIII	Tool Steel	Ni	Inco 718
203	AL6XN		80-20	Inco 722
301	AMS 350	A2	B-1900	Inco 738
304	AMS 355	A6	B-1900 Hf	Inco 750
309	CD4MCU	A7	Inco 617	Inco 792
310	Custom 450	A10	Inco 625	Inco 800
316	Custom 455	D2, D4	C-1023	Inco 801
317	Duplex 2205	D7	GMR 235	Inco 825
321	Elgiloy	H12	GTD 222	Inco 901
329	Ferallium 255	H13	Hast B	Inco 903
330	Greek Ascology	L6	Hast B2	Inco 909
347	Hy Mu 80	01	Hast C -4	Mar M 002
410/416/420	Kovar	06	Hast C -22	Mar M 200
410 Cb	Invar 36	07	Hast C -276	Mar M 246
422	Maraging C200	M1	Hast C -2000	Mar M 247
430/440	Maraging C250	M2	Hast F	Mar M 421
431	Maraging C300	M42	Hast G	Monel 400
434	Maraging C350	M4	Hast G-2	Monel 411
441	N 155	S1	Hast G-3	Monel 500
446	Ni-hard #1	S7	Hast G-30	MP35N

12L14	Ni-hard #4	T1	Hast N	Mu Metal
13-8Mo	Nitronic 40	Low alloy	Hast R	Nichrome V
15. 5 PH	Nitronic 50		Hast S	Nickel 200
17-4 PH	Nitronic 60		Hast X	Nim 101
19-9DL	RA333	hascrome	Hast W	Nim 263
19-9DX	RA330		Haynes 25	Nimonic 75
20Cb3		Carbon steel	Haynes 36	Nimonic 80A
20Mo4		1 1-4 Cr	Haynes 214	Nimonic 90
20Mo6		12L14	Haynes 230	Ni-Span 902
25-4-4		13-8 Mo	Haynes 188	Rene 41
254SMO		15-5 PH	Haynes 556	Rene 77
21-6-9		17-4 PH	HR-160	Rene 80
26-1		19-9DL	IN 100	Rene 95
29-4			Inco 600	Rene 125
29-4-2			Inco 601	Super therm
904 L			Nim 101	Udimet 500
A 286			Nim 263	Udimet 520
Alloy 42			Inco 690	Waspaloy
Alloy 49			Inco 702	
Alnico II			Inco 706	
Alnico V			Inco 713	
<b>Free Library</b>				
<b>Co-based Alloy</b>	<b>Cu-based Alloy</b>	<b>Ti-based Alloy</b>	<b>Hybrid Alloy</b>	<b>Al-based Alloy</b>
Co	Cu	Ti 10-2-3	97-3	AL-1100

F-75	70-30	Ti 13-11-13	Cb 103	AL-2011
FSX 414	80-20	Ti 15-3-3-3	CP Ta	AL-2024
HS-1	90-10	Ti 3 2-5	Densalloy	AL-2098 or AL-2195
HS-4	CDA 110	Ti 5-2-5	Tungsten	AL-2219 or AL-2519
HS-6	CDA 314	Ti 5 Sn 2 1-2	Carbide	AL-2618
HS-12	CDA 360	Ti 6-2-1-1	Zir 702	AL-3003
HS-19	CDA 544	Ti 6-22-22	Zir 705	AL-319
HS-21	CDA 630	Ti 6-2-4-2	Zir caloy	AL-356
HS-25 (L605)	CDA 706	Ti 6-2-4-6	2, 4	AL-380
HS-31	CDA 836	Ti 6-4	Zr	AL-5052
Haynes 188	CDA 863	Ti 6-6-2		AL-5083
Jetalloy	CDA 875	Ti 8-1-1		AL-5086
Mar M 302	CDA 903	Ti Beta C		AL-6061
Mar M 509	CDA 932	Ti-17		AL-6063
MP 35N	CDA 937	Ti-8		AL-6262
Star J	CDA 954	Ti 6-2-1-1		AL-7039
Ultimet	CDA 955			AL-7050
	CDA 8932			AL-7072
				AL-7075
				AL-7149

## 4. Application



## 5. Directive reference

Taiwan Environmental Protection Administration follow NIEAS322.60C for soil test

USA: Soil sorting EPA6200, ASTM, EPEAT, GEC, H.R.4040, Halogen Free Directive, USACPSC-CH-E1002-08, ASTM F963, EPEAT, Act16cfr1303(CPSIA/CPSC)

EU: RoH, Weed, EN-71

Japan, Korea: RoH, Weed

Environmental Test: RCRA, NIOSH 7702