

## Handheld X-Ray Fluorescent (XRF) Analyzers

# ATX3600

### Feature

- Strong environmental adaptability
- Instrument is sturdy
- Bluetooth, WIFI and other data transmission methods
- High detection efficiency
- Test results are accurate
- Non-destructive testing
- Mobile phone or computer remote operating system

### Application

- NDT, Fast, Accuracy alloy elements ID and grades ID
- Metal ID/ Scrap Metal Sorting
- QA/QC manufacturing
- Pharmaceutical and biological medicine
- Positive materials ID, oil refining, petrifaction
- Thermo/Water/Nuclear power plant
- Raw materials PMI ID

### Description

Optosky ATX3600 is self-designed handheld X-ray fluorescence spectroscopy analyzer.

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 alloy, precious metals, mining.

With advantage of SDD Elements Mg~U or Si-Pin Ti~U, Alloy grade >2000 , free library> 300 entries, self-building library, SS, Alloy steel, Tool steel grade identification and contents, percentage, including common several hundreds of SS201, SS203, SS301, SS304, SS316, SS321

Copper alloy steel grade , contents , say brass, bronze, copper, pure copper etc

Various alloy of Ti , Sn, Lead, Zn, Tungsten, Al, Ni  
Precious metal of Gold, Ag, Platinum, Rhodium, Pd.



## 1. Parameters

Model	Remark
Detector	Si-pin detector/high performance silicon drift SDD detection component
Excitation Source	45KV/200 $\mu$ A-silver target/tungsten target end window integrated micro X-ray light tube and high voltage source
Display	Semi-transparent and semi-reflective industrial-grade customized touch screen $\geq 5$ inches; resolution 1080*720
Data Transmission	Bluetooth and Wifi
Detection Object	solid
Battery Capacity	6800mAh lithium battery, supports power display, can work continuously for up to 8 hours
Examination Range	<ol style="list-style-type: none"> <li>1. Elements with atomic numbers from 16 to 92 from sulfur (S) to uranium (U)</li> <li>2. Analyze the main elements in the alloy: Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Zr, Nb, Mo, Ag, Cd, Sn, Sb, Ta, W, Pb, Bi, a total of 20 (can continue to be added)</li> </ol>
Software	Remote control system, Windows-based PC/Android-based mobile phone can operate the instrument through the software to achieve multi-platform data synchronization (instrument, PC, mobile phone, cloud). The software has data analysis, spectrum display, Report printing and other functions, the instrument client has the function of sending analysis reports via email;
Collimator & Filter	<ol style="list-style-type: none"> <li>1. Special radiation-proof material collimator, inner diameter 3MM</li> <li>2. No filter, saving switching time, and the software deducts background interference.</li> </ol>
Weight	$\leq 1.75$ KG (including battery)
Size	254mm(L)X91mm(W)X319mm(H)
Operating Environment Temperature And Humidity	-20 $^{\circ}$ C - +60 $^{\circ}$ C Humidity $\leq 90\%$
Safety	<ol style="list-style-type: none"> <li>1. The measured value on the side of the instrument is <math>\leq 0.2\mu</math>Sv/h (after deducting the background)</li> <li>2. Multiple safety protection, no radiation without testing;</li> <li>3. The radiation level during operation is far lower than international safety standards, and it has the function of no-sample air test and automatic shutdown of the X-ray tube.</li> </ol>

Certificate	ISO 9001 quality management system certification ISO 14001 Environmental Management System Certification ISO 45001 Occupational Health and Safety Management System Certification
Protection Cap	The instrument is equipped with a protective cover, which has the functions of instrument calibration, radiation protection and damage prevention (not standard)
Maintenance Method	Remote software upgrade and diagnosis, on-site maintenance and diagnosis

## 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

Product data information is current as of publication data. Products conform to specifications per the terms of Optosky Standard warranty.

2 Copyright © Optosky(Xiamen) Photonics Inc. 2015  
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<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	铬钼钢	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	<b>70-30</b>	Ti 13-11-13	Cb 103	AL-2011
FSX 414	<b>80-20</b>	Ti 15-3-3-3	CP Ta	AL-2024
HS-1	<b>90-10</b>	Ti 3 2-5	Densalloy	AL-2098 or AL-2195
HS-4	<b>CDA 110</b>	Ti 5-2-5	Tungsten	AL-2219 or AL-2519
HS-6	<b>CDA 314</b>	Ti 5 Sn 2 1-2	Carbide	AL-2618
HS-12	<b>CDA 360</b>	Ti 6-2-1-1	Zir 702	AL-3003
HS-19	<b>CDA 544</b>	Ti 6-22-22	Zir 705	AL-319
HS-21	<b>CDA 630</b>	Ti 6-2-4-2	Zir caloy	AL-356
HS-25 (L605)	<b>CDA 706</b>	Ti 6-2-4-6	2, 4	AL-380
HS-31	<b>CDA 836</b>	Ti 6-4	Zr	AL-5052
Haynes 188	<b>CDA 863</b>	Ti 6-6-2		AL-5083
Jetalloy	<b>CDA 875</b>	Ti 8-1-1		AL-5086
Mar M 302	<b>CDA 903</b>	Ti Beta C		AL-6061
Mar M 509	<b>CDA 932</b>	Ti-17		AL-6063
MP 35N	<b>CDA 937</b>	Ti-8		AL-6262
Star J	<b>CDA 954</b>	Ti 6-2-1-1		AL-7039
Ultimet	<b>CDA 955</b>			AL-7050
	<b>CDA 8932</b>			AL-7072
				AL-7075
				AL-7149