

## Handheld X-Ray Ore Analyzers

# ATX26000

### 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)
- Automatic calibration of the instrument without manual operation
- Mobile Windows dedicated analysis software
- 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
- Output a test report in a custom format

### Application

- Mine surveying: It can detect metal, non-metal, precious metal and rare metal ore from Mg to UH azardous waste screening.
- Core monitoring: Rapid measurements of soil and outcrops to identify potential drilling targets range from common metals and gold to mineral sands and platinum group elements.
- Production process control: 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

ATX26000 is self-designed handheld X-ray Handheld XRF ore analyzers by Optosky.

Optosky is the most affordable handheld XRF analyzer manufacturer for fast, accurate, and reliable XRF spectrometer, With the rugged and compact size, On-site, rapid, non-destructive and accurate detection of ore composition.

A total of 83 elements from magnesium (Mg) to plutonium (Pu) can be analyzed. Standard configuration: Mg, Al, Si, P, S, Ti, Cr, Fe, Mn, V, Co, Ni, Cu, Zn, Hf, Ta, W, Se, Ru, Hg, Bi, Pb, Zr, Sb, Sn, Ag, Cd, Mo, Nb, Re, Br, Pd, Rh, Pt, Au, Ir, As, etc.

It is often used in mining, geological research and technical personnel to quickly identify lean ore, rich ore, mine mapping, grade control, core detection, vein exploration, tailings treatment and ore trading and other fields.



## 1. Parameters

Item	Description
Weight	Body: 1.4kg plus battery 0.1kg, Total Weight: 1.5Kg
Dimension	300 x 90 x 220 mm
excitation source	High power and high performance X-ray tube
	Target material: 5 kinds of gold (Au), silver (Ag), tungsten (W), tantalum (Ta), Palladium (Pb)
	Voltage: 50kV, Electricity:100MA , Power:4W
Filter	A variety of filters can be selected and automatically adjusted according to different detected objects
Detector	Si-Pin or SDD (Resolution $\leq 180$ eV)
Detector cooling temperature	Peltier effect semiconductor refrigeration, cryogenic temperature-35°C
Standard film	External 316 standard film/window protection cover
CPU	SAMSUNG 800MHz high performance processor
OS	Microsoft Windows CE System
Data processing	8G memory card,>40,000 database
Data analysis	Equipped with professional intelligent analysis software, it has the advantages of intelligence, fast speed and simple operation. The entire analysis can be done in seconds
Data display	Accurate to percentage (%) display, spectral or peak intensity (count rate) or;
Data transmission	4G, WIFI, Hotspot
Touch screen	3.5 inch touch screen
Safe operation	One-touch "trigger", the software has protection functions such as self-locking and anti-aircraft detection
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
Test environment conditions	Temperature -20 ~ +40°C, humidity < 80%RH.

## 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