OPTOSKY
Spectroscopy Solutions

Datasheet

Handheld XRF Alloy Analyzer ATX3600A

Features

- 720×1280 high resolution 5.5 inches
- Automatically calibrate instruments
- Configure Microsoft and Windows 10 systems
- Lightweight and portable
- Convenient human-computer interaction experience;
- Equipped with Intel 2133MHz high-performance quad-core processor
- 256GB solid state drive
- The detection speed is extremely fast, and the results are displayed in 1 second;
- Simultaneous qualitative and quantitative analysis of multiple elements
- Data transmission via mobile phone 4G, shared hotspot, WiFi and mobile APP;
- Output test reports in customer-defined formats
- On-site non-destructive testing

Application

- Metal recycling and unknown materials
- stainless steel mold steel
- Detection of precious and special alloys, etc.
- Used for stainless steel, alloy steel, tool steel grade identification and composition and content detection
- Used for copper alloy grade and composition detection

Description

ATX3600A can detect metal components quickly, non-destructively and accurately on site. It uses high-performance Si-Pin detectors and has higher detection accuracy. Achieve on-site, fast, non-destructive and accurate detection, and display the alloy grade, element and percentage content in 2-3 seconds. The use of 50KV, 100mA, 4W X-ray tube technology enables the instrument to have better detection limits and radiation safety guarantees. Using smart beam (Smart Beam), the accuracy of Ti and V can reach 0.02%, which can well distinguish stainless steel 304 and 321, chromium alloy P91 and 9 chromium, titanium alloy grade 7 titanium and pure titanium, etc.

Configure special analysis software for mobile windows. Automatic stop function, if there is no object to be measured in front of the window, the instrument will automatically stop testing after 2 seconds. The instrument adopts the basic parameter method (FP Method) and the test results can be converted to Excel for output, or can be directly transferred to a personal computer or a notebook computer for printing output using Bluetooth.

The detection accuracy is extremely high. The average statistical function of multiple tests can effectively improve the detection accuracy of the instrument. Intelligent detection of irregularly assembled or very small samples, such as hair (0.06MM) thin wires, can also be immediately tested and identified.

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1. Parameter

Table 1 ATX3600A performance parameters

Model	**ATX3600A**
Weight	≤1.5kg
Size	245mm x 86mm x 310mm (length width height)
Excitation Source	High power and high performance X-ray tube
	Target material: 5 types to choose from Au、Ag、W、Ta、Pb
	Voltage: 50kv;
Filter	A variety of filters are available, automatically adjusted according to different detected objects;
Detector	Highly sensitive Si-Pin/SDD detector; (resolution ≦180eV)
Detector Cooling Temperature	Peltier effect semiconductor refrigeration, cooling temperature -35℃
Standard Film	External 316 standard piece/window protective cover;
Processor	Intel 2133MHz high-performance quad-core processor;
Operating System	Microsoft Windows 10 system (latest version);
Data Processing	256GB, solid state drive, memory DDR4 4GB;
Data Analysis	Automatic scanning is equipped with professional intelligent analysis software, which has the advantages of intelligence, fast speed and simple operation. The entire analysis process takes only a few seconds to complete
Data Display	Display accurate to percentage (%), spectrum or peak intensity (count rate)
Data Transmission	Mobile phone 4G, shared hotspot, WiFi and mobile APP for data transmission
Display	720×1280 high-resolution 5.5-inch mainstream capacitive screen, automatic photosensitivity for clear visibility, and intelligent human-machine interface;
Appearance Design	Integrated body design, sturdy, waterproof, dustproof and anti-freeze, effectively anti-vibration, suitable for use in humid or low-temperature outdoor environments;
Safe Operation	One-touch "trigger", the software has self-locking and other protection functions;
Analyze Elements	Ti、V、Cr、Mn、Fe、Co、Ni、Cu、Zn、Hf、Ta、W、Hg、Se、Au、Br、Pb、Bi、Zr、Nb、Mo、Ag、Cd、Sn、Sb、 Re、Ir、Pt、Hg、Ru、Rh、Pd and other elements
Test Environment Conditions	Temperature -20～+40℃, humidity <80%RH

2. Naming rules and purchasing guide

Table 2 ATX3600A product selection table

Model	**Application**

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ATX3600A	Alloy

Note：

*1： Analysis element types can be customized

Ordering Guide:

Naming example:

- ATX3600A: used in alloy field.

3. Appearance

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