OPTOSKY Spectroscopy Solutions

Datasheet

Handheld Soil Heavy Metal Analyzer ATX3100S

Features

- Compact and light weight
- The handle is made of anti-sweat and anti-slip material
- Large area aluminum alloy thermal conductive silicone heat sink
- Operational safety
- Low cost of use
- Faster analysis
- Higher detection accuracy

Application

- Soil heavy metal census
- Emergency treatment after soil heavy metal contamination
- Assist soil remediation in contaminated areas

Description

As Industrialization process continues to accelerate, many reasons have led to heavy soil pollution in some areas, worrying soil environmental quality in cultivated land, prominent environmental problems in industrial and mining waste soil, and overall soil environmental conditions across the country are not optimistic. In order to curb the continued deterioration of the soil environment, the monitoring and control of soil pollution have risen to the level of national development strategy.

ATX3100S relies on advanced technology to provide fast and efficient detection solutions for water and soil environment monitoring and contaminated soil remediation. ATX3100S has a built-in GPS function. It can search for satellite signals at any time in the field, determine the geographical location information of sampling points, quickly survey large-scale soil geological pollution areas, establish pollution maps, and monitor the pollution situation in each area in real time; it is safe and complies with the Radiological Regulations of the People's Republic of China. The Pollution Prevention and Control Law, the Regulations on the Safety and Protection of Radioisotopes and Radiation Devices, and other laws and regulations. When there is no sample at the front of the instrument, the instrument automatically terminates the X-ray tube working state.

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1. Parameter

Table 1 ATX3100S handheld soil heavy metal analyzer configuration

Model	Remark
Analysis Scope	Sulfur (S) ~ Uranium (U)
Heavy Metal Elements In Soil	Cadmium (Cd), mercury (Hg), lead (Pb), arsenic (As), chromium (Cr), nickel (Ni), copper (Cu), zinc (Zn), manganese (Mn), titanium (Ti), Barium (Ba), rubidium (Rb), strontium (Sr), zirconium (Zr), iron (Fe)
Detector	SDD detector
Excitation Source	High-power miniature straight-plate electronic X-ray tube, excitation voltage is 35kV; no high-voltage cables, no radio frequency noise, better X-ray shielding, better heat dissipation
Display	Brand new large-screen high-resolution LCD display
Data Processing	New digital multi-channel data processor
Cooling Device	The heat inside the instrument is conducted to the instrument shell, which can better protect the electronic components inside the instrument and extend the life of the electronic components.
Safety	When there is no sample at the front of the instrument, the instrument automatically terminates the X-ray tube working state.
Data Format	pdf or Excel format, including element content, maps, images, etc., with a variety of templates to choose from
Data Storage	4GB embedded storage, standard 32G MicroSD card, can store 300,000 sets of data, expandable storage capacity
Detection Object	solid
Battery Capacity	Original 7.2V large-capacity rechargeable potassium battery. You can check the power directly at the bottom without removing the battery. One potassium battery is included as standard.
Operating System	Window CE 6.0 special operating system for industrial-grade instruments, safe and secure
Operation Method	DP-5 digital multi-channel technology, the software adopts the internationally advanced FP-EC algorithm
Filter	Equipped with a single optical filter, no need to switch motors
Weight, Size	Light weight (1.6kg); small size (220mm*150mm*220); sturdy and durable anti-fall wrist strap
Environmental Requirements	The instrument design meets field requirements, has good sealing performance, and the unique heat dissipation concept allows the instrument to work normally in extremely high temperature environments.

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