S461\561

Handheld Soil Heavy Metal Analyzer

Wide Detection Range
Primarily targeting heavy metal elements such as cadmium, mercury, etc.Simultaneously detects over 50 different elements

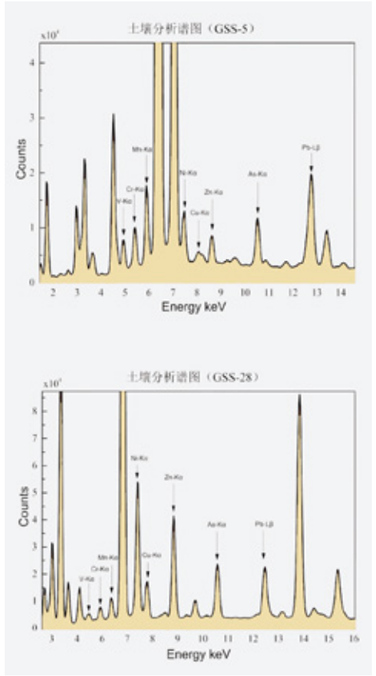
High-Precision Positioning
GPS intelligent positioning for on-site location identification during field use

Long Battery Life
Ultra-long standby time of 12 hours, continuous testing time exceeding 8 hours, with hot-swappable functionality

Convenient Operation
Gravity-balanced design for hands-free operation; equipped with a photo function for easy post-data processing

Adaptable to Harsh Environments
Designed to withstand high temperatures, dust, and water, ensuring stable performance even in the field

Safety Assurance
Material sensing function, intelligent status indicator lights, and safety interlock device; protective cover with calibration, radiation protection, and damage prevention functions



- Rapid determination of contaminant metal composition and boundary assessment in polluted sites.
- Real-time dynamic control at workplace sites, detection of hazardous elements, and screening of hazardous waste
- Control of contaminated sites, providing data evidence for in-depth analysis of pollution control methods
- Monitoring the impact of pollution sources such as mining areas, surrounding environments of factories, tailings, dust, and soil
- Rapid detection and control of industrial wastewater, waste materials, and leakage from production processes
- Swift investigation and measurement of contaminant metal composition, pollution patterns, and boundaries in polluted/wastewater
- On-site monitoring of metals involved in RCRA and prioritized control of contaminated metals
- On-site disposal and treatment of hazardous substances in original land, polluted water, and wastewater

Detection Limit（SiO_2）

Elements：LOD(ppm)

P：3640	S：62	Ca：37	V：9	Cr：16
Mn：8	Fe：10	Co：4	Ni：3	Cu：3
Zn：2	As：3	Se：1	Ag：3	Cd：3
Sn：5	Sb：7	Au：3	Hg：2	Pb：2

Repeatability

lements	Cd	As	Pb	Cr	Cu	Ni	Zn
RSD	4.5	2.7	4.8	3	5	2.7	1.6

Technical Specifications

Model	S461/S561
Detector	Si-PIN/SDD
Elemental Detection Range	S(16)~U(92)/Mg(12)~U(92)
Data Transmission	Bluetooth、E-Mail
Main Control System	2.4GHz - Customized industrial-grade main control system, CPU: 2.4GHz 500W high-definition camera, body storage: 4G (expandable to support 32G)
Network Connection Method	WiFi、Bluetooth
Machine Memory	Operating memory 1G
Detector Head Protective Cover (Patent Protected)	Probe protection, on-site calibration, radiation protection
Analysis Method	Intelligent direct reading optimization algorithm
Simultaneous Detection of Elements	Customizable according to customer requirements
Excitation Source	Integrated micro X-ray tube with 50KV/200uA
Cooling Method	Two-stage thermoelectric cooling
Operating Temperature	-20~70℃
Operating Humidity	≤90%
Safety	Object sensing function, intelligent status indicator lights
Dimensions	254*91*319mm
Material	Alloy, polycarbonate
Weight	1.5kg