

VLF Subsurface Water Detector

This instrument uses advanced technology to amplify signals in complex natural electric fields, incorporating shielding and selective signal processing. It performs multiple anti-jamming functions and is designed for identifying subsurface water sources.



Product Overview

Advanced Subsurface Exploration

This portable VLF water detector utilizes natural electromagnetic fields to provide a highly efficient, non-invasive solution for subsurface mapping. Designed for ease of use and rapid deployment, the system eliminates the need for heavy external power supplies, making it ideal for field operations in groundwater detection, mineral prospecting, and engineering geology. With its advanced digital processing and automatic noise reduction, it delivers precise data on geological structures, water depth, and potential outflow, significantly improving exploration success rates.

Key Advantages

Typical Applications

- Drinking water exploration
- Agricultural irrigation surveys
- Industrial water usage detection
- Metal and non-metal ore prospecting
- Engineering geological prospecting
- Disaster geological detection
- Archaeological and city exploration

Core Benefits

Portable (<5kg), High Efficiency, Fast Measurement, Natural Field Source, Anti-Jamming

Technical Specifications

Performance Metrics

0.001 mV

Resolution

10 M Ω

Input Impedance

1.98 kg

Weight (excluding batteries)

Detailed Specifications

Parameter	Value
Measuring Range	0.001mV ~ 255mV
Measurement Accuracy	$\pm 5\% \pm 3$ bytes
Operating Temperature	-10 ~ +50
Working Humidity	95%
Dimensions	24cm x 13cm x 16cm

Operational Features

- Automatic noise reduction
- Frequency selection (25Hz, 67Hz, 167Hz)
- Synchronous 30-frequency measurement
- USB data transmission
- Rechargeable power supply
- Electrode detection and power monitoring