

VLF Subsurface Water Detector

This VLF water detector is designed for geophysical exploration and groundwater detection. It identifies subsurface water sources by analyzing natural electromagnetic field variations using Very Low Frequency (VLF) electromagnetic waves.



Overview

Professional Subsurface Water Detection

The VLF Subsurface Water Detector is a high-precision instrument designed for efficient groundwater exploration and hydrogeological surveying. It utilizes advanced electromagnetic field analysis to identify underground water reservoirs, offering automatic data mapping and storage capabilities. Built for field reliability, the device features a user-friendly interface, robust construction, and high-capacity battery power for extended operational use in diverse geological conditions.

Technical Specifications

Measuring Range	355 mV
Resolution	0.001 mV
Input Impedance	50 M Ω
Voltage Measurement Accuracy	$\pm 1\%$ ± 1 LSB
Current Measurement Accuracy	$\pm 1\%$ ± 1 LSB

Operational Features

Data Storage Capacity

- 5 frequencies measuring data of 30 curves
- Multiple frequencies data of 30 curves
- Direct U-disk transfer

Anti-Jamming Design	5-shift automatic noise reduction
Measurement Modes	5 frequencies, 30 frequencies, Synchronous measurement

Physical Characteristics

Dimensions	31cm x 23cm x 10.8cm
Weight	2.5 kg

Environmental Requirements

Operating Temperature	-10°C to +50°C
Operating Humidity	95 %

Power System

Monitoring Features

Electrode test • Power monitor

Power Supply

Large capacity chargeable lithium batteries