

Multi-Function Natural Electrical Field Water Detector

This multi-function natural electrical field detector is designed for water detection at depths of 300-500m. The detector measures the intensity of the electrical field to analyze the position and depths of underground water by monitoring changes in underground electrical resistivity.



ADDITIONAL IMAGES



Overview

Advanced Geological Exploration

The DSHT-4S is a high-performance, portable detector designed for efficient underground water analysis, including position, depth, flow direction, and yield. Compared to traditional DC electrical detectors, this unit offers an 8x increase in measurement speed while significantly reducing instrument weight. It is an essential tool for solving critical water resource issues across drinking, industrial, and agricultural sectors.

Performance Metrics

Key Performance Metrics

500 m

Detection Depth

9 channels

Measuring Channels

0.001 mV

Resolution

Technical Specifications

Measuring Frequencies

- 4900
- 2000
- 900
- 300
- 170
- 67
- 35
- 25
- 15

Electrical Parameters

Parameter	Value
Measuring Range	0-255mV
Input Impedance	e1M Ω
Power Frequency Suppression	>80dB
A/D Switch	16 Bits 1Msps

Physical & Environmental

Dimensions and Weight	24 x 20 x 11 cm, 2.3 kg
Operating Conditions	-20 to +60 , 90% Humidity

Hardware & Power

Power System	DC 7.4V 5200mAh lithium battery
Interface & Storage	5" touch screen, USB 2.0 interface, 100W data storage