

Engineering Seismograph 24-Channel

This engineering seismograph is used for geological surveying, dike surveying, and ground investigations. The portable seismograph records up to 24 channels of seismic data with high resolution and low noise.



Overview

Professional Engineering Seismograph

This 24-channel engineering seismograph is designed for high-precision shallow seismic reflection, refraction, and wave speed testing. Featuring a lightweight, portable design weighing only 4.5 kg, it is built for field durability with a water-tight interface. The system supports advanced seismic imaging and foundation integrity testing, making it an essential tool for geotechnical investigations.

Key Features

Core Functionalities

- 24-Channel seismic data acquisition
- Built-in lithium ion battery with 8-hour life
- Water-tight keyboard and mouse buttons
- Signal edge trigger and TTL trigger synchronization
- Supports SEG2, SEG Y, and Geopen data formats

Technical Performance

Performance Metrics

24 count

Channels

24 bit

A/D Precision

32 bit

Computational Precision

500 MHz

Processor Speed

Sampling Specifications

Parameter	Range/Value
Sampling Interval	25 us - 10 ms
Bandwidth	0.1 Hz - 5000 Hz
Low Cut Filter	10 - 200 Hz
High Cut Filter	500 - 2000 Hz

Physical Specifications

Dimensions and Weight

330 x 180 x 100 mm, 4.5 kg

Environmental Tolerance

Operating Temp: -20 to 50°C, Storage Temp: -40 to 70°C, Humidity: 0-95%

Applications

Supported Applications

Shallow Reflected Surveying • Shallow Refracted Surveying • Transient Rayleigh Wave Surveying • Wave Speed Testing • Ground Pulsation Testing • Foundation Integrity Testing • Seismic Imaging