

Engineering Seismograph

This engineering seismograph is used for engineering geological surveying, dike surveying, and ground investigations. The device is widely used in areas needing accurate subsurface imaging.



Overview

Professional Engineering Seismograph

This compact and rugged engineering seismograph is designed for versatile shallow seismic surveying, including reflected and refracted wave analysis. With a lightweight design weighing only 4.5 kg and an integrated 8-hour battery, it offers exceptional portability for ground investigations and geotechnical surveying in the field. The system supports advanced features like elastic wave CT and foundation integrity testing, making it a comprehensive tool for subsurface imaging.

Key Features

Key Capabilities

- Shallow reflected/refracted wave surveying
- Elastic wave CT (computed tomography)
- Small strain foundation integrity testing
- Ground pulsation testing
- Wave speed testing

System Highlights

Portable (4.5kg), 8-hour Battery Life, Water-tight Keyboard, Dual USB Ports

Technical Specifications

Performance Metrics

24

Channels

24 bit

A/D Precision

32 bit

Computational Precision

Signal Processing Table

Parameter	Range/Value
Sampling Interval	25 us - 10 ms
Bandwidth	0.1 Hz - 5000 Hz
Cross-channel Interference	> 80 dB
Harmonic Distortion	-114 dB

System Hardware

Hardware Specifications

Component	Specification
Processor	Intel Pentium 500 MHz
Memory	118 MB
Internal Storage	10 GB
Display	1024 x 512 8" SVGA

Dimensions and Weight	330 x 180 x 100 mm, 4.5 kg
-----------------------	----------------------------

Environmental

Operating Conditions

Parameter	Range
Operating Temperature	-20 to 50 °C
Storage Temperature	-40 to 70 °C
Operating Humidity	0 - 95%