

# 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%