



SEISMOLOGY
RESEARCH
CENTRE

Kelunji EchoPro SMA Strong Motion Accelerograph

Features

- 24-bit ADC
- Up to 2kHz sampling
- Internal triaxial $\pm 2g$ accelerometer
- Locked to absolute time using GPS
- USB data storage
- Continuous recording
- Absolute Level triggered recording
- Average Signal Level triggering
- Ethernet for remote web login
- Optional LCD panel & keypad
- Optional internal battery
- Optional alarm outputs

- Bolts to wall or floor
- Includes mounting plate & toolkit



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MANAGEMENT SYSTEM
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STRONG MOTION ACCELEROGRAPH



Applications

Structural Monitoring

- Monitor your dam, power station, building, or any asset at risk of earthquake damage
- Install multiple SMAs to record synchronised response of structure

Seismic Alarm

- Use the SMA to record events and also trigger a control system
- Set trigger level as a percentage of full scale, or to a ration of change in average signal level





Overview

Channels & Sampling

Main Processor Board

Power & Environmental

Standard Case includes

Internal Accelerometer

LCD Interface (optional)

Installation Toolkit

Technical Specifications

Robust case containing motherboard with 4GB storage memory
internal GPS receiver, internal serial and alarm output ports

- 3-channel ADC with 24 bit resolution on each channel
- Inputs matched to accelerometer output
- Sample rates of 2000, 1000, 500, 200, 100, 50, 25, 20, 10 user selectable

- 180MHz processor clock speed
- Embedded Linux operating system
- USB 1.1 port with USB 2.0 support for data storage
- Ethernet port (RJ45) 10/100Mbit port for connection to PC, LAN, VSAT, Ethernet radio, etc.
- On board GPS receiver

- Operating voltage from 9-18V DC
- Minimal power consumption
- IP67 rated enclosure (without external LCD)

External Ethernet port, 12V input power connector, GPS connector and GPS aerial with 5m cable, two mil-spec connectors (3+3 channels or 3+1 channel)

- Triaxial MEMS technology components
- Absolute full scale range of $\pm 2g$
- RMS noise of $15\mu g$
- Dynamic range greater than 100dB @ 100sps

External LCD and keypad for displaying Waveform and modify settings
Display resolution 240 x 64 pixels graphic LCD (40 characters x 8 lines)



Case Options

STANDARD CASE

STANDARD CASE WITH LCD



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