SEISMOLOGY RESEARCH CENTRE

Kelunji EchoPro SMA
Strong Motion Accelergraph

Features

- 24-bit ADC
- Up to 2kHz sampling
- Internal triaxial ±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

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

CERTIFIED QUALITY MANAGEMENT SYSTEM — ISO 9001 — NCS INTERNATIONAL

Technical Specifications

Overview	Robust case containing motherboard with 4GB storage memory internal GPS receiver, internal serial and alarm output ports
Channels & Sampling	• 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
Main Processor Board	• 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
Power & Environmental	• Operating voltage from 9-18V DC • Minimal power consumption • IP67 rated enclosure (without external LCD)
Standard Case includes	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)
Internal Accelerometer	• Triaxial MEMS technology components • Absolute full scale range of ±2g • RMS noise of 15µg • Dynamic range greater than 100dB @ 100sps
LCD Interface (optional)	External LCD and keypad for displaying Waveform and modify settings Display resolution 240 x 64 pixels graphic LCD (40 characters x 8 lines)
Installation Toolkit	

Case Options

STANDARD CASE   STANDARD CASE WITH LCD