

## 24ch Portable Engineering Seismograph

# McSEIS-SX



### <Abstract>

McSEIS-SX is a portable and cost effective 24 channel seismograph for refraction exploration, downhole PS logging and crosshole seismic for engineering and construction.

This is also used as a data acquisition system for multi-channel surface wave analysis.

The system is compact, light in weight to transport and do the job with a smaller 12VDC battery anywhere.

It's based on the Windows XP SP2 professional with XGA/TFT color display, Hard disk drive, USB2.0 ports with higher quality and reliable field performance.

### <features>

- Selectable dual operation menu: conventional refraction seismic exploration and downhole PS logging
- Very Compact, light in weight and low power consumption
- Real time noise monitoring for trigger and real time digital filter
- 24 bit dynamic range with high speed sampling rate: 33.3  $\mu$  s fastest
- Enough frequency response for Surface Wave Analysis with 4.5Hz geophones
- Easy data download to USB memory stick

## <Specifications>

### ● Data Acquisition

Number of Channels	: 1, 3, 6, 12 or 24 + 1 AUX
Input Impedance	: Differential 20K $\Omega$ /0.005 $\mu$ F
Preamp Gain	: 12, 30, 48dB
Frequency Response	: 2-4600Hz
A/D Resolution	: 24 bits
Sampling Interval	: 33.3, 50, 100, 200, 500, 1000, 2000, 4000 $\mu$ sec
Pre-Trigger	: 0, 128 samples
Data Length	: 1K, 2K, 4K, 8K, 16K, 32K/ch
Trigger Input	: Hammer Switch (Contact Closure), Geophone
Data Storage	: SEG1(OYO SEG1) and SEG2

### ● System

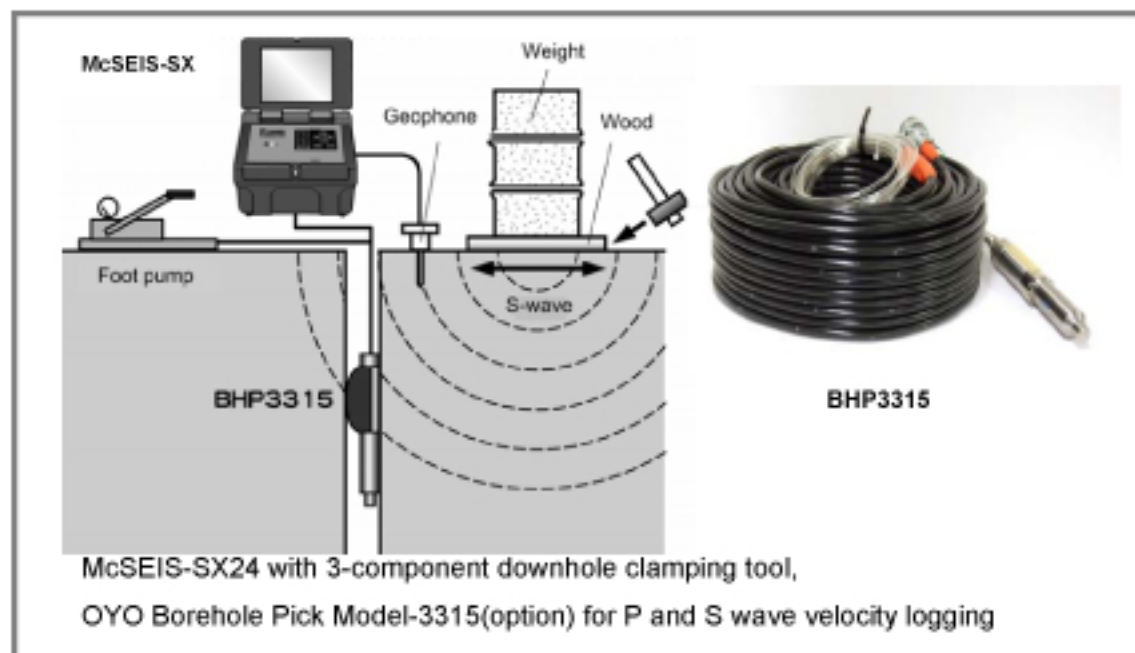
CPU	: ULV Intel Celeron Processor
Display	: 10.4", XGA/TFT color LCD
Hard Disk	: 80GB
Interface	: USB2.0 port x 3 External keyboard port
Power Requirement	: 12VDC (10.5 to 13.5VDC) 2.5A (standby), 3.0A (max)
Operating Temperature	: 0 - 45°C
Physical	
Dimensions	: 330(W)x280(D)x220(H) mm
Weight	: 8kg

### ● Others

Real Time Noise Monitor
Digital Low-Pass Filter
Notch Filter (post acquisition)
Channel Switching
Data Stacking
AGC (TVG)
Data acquisition menu for PS logging

### ● Option

Printer
Seismic Starter
Geophone 28Hz, 4.5Hz
Seismic Takeout Cable
Data Processing Software: SeisImager/2D
Borehole Pick Model-3315



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