

## 24ch Seismograph with high-accuracy surface wave analysis function

# McSEIS-SW



### <Abstract>

McSEIS-SW is a 24ch seismic survey instrument which contains measurement circuits, such as amplifier and A/D, in its compact and lightweight body. This smart design is achieved by using a commercially available laptop computer as a control unit for measurement control, waveform monitor and so on. Also, a program for high-accuracy surface wave survey is included in this system as standard, so it is possible to carry out works effectively from measurement to analysis on site. In addition, unlike a conventional all-in-one system, a commercial laptop computer is used as a control unit, so this system is always available with a latest PC.

### <Features>

- It is very light and easy to carry around. Long-time measurement is possible because of its very low-power consumption design.
- Its case is splash-proof construction, which is resistant to rain.
- PC application (SW control software) can be used on a commercial laptop computer (Ethernet is required).
- Analyses of high-accuracy surface wave surveys are possible by using the SW control software.
- In the case of conventional all-in-one products, the data processing function of computers often tends to become outdated. In contrast, when using this system, a computer can be selected in line with the changes of the times.

## <Specification>

### ■ McSEIS-SW main unit specification

Number of Channels	: 24ch
Input Impedance	: 20K $\Omega$ 0.02 $\mu$ F
Gain	: 24dB or 36dB
Frequency Band	: 1.75Hz~20KHz
A/D Converter	: 24 bits
Sampling Interval	: 0.0625, 0.125, 0.25, 0.5, 1.0, 2.0 msec
Record Length	: 16,384 sample
Data Format	: SEG2
Data Storage	: Internal hard drive of laptop PC
Power Requirement	: 12VDC external battery
Power Consumption	: More than 15W
Operating Temperature	: -30~70°C
Case	: Splash-proof construction
Dimension	: 254(W) $\times$ 305(D) $\times$ 178(H) mm (excluding projections)
Weight	: 3.6kg

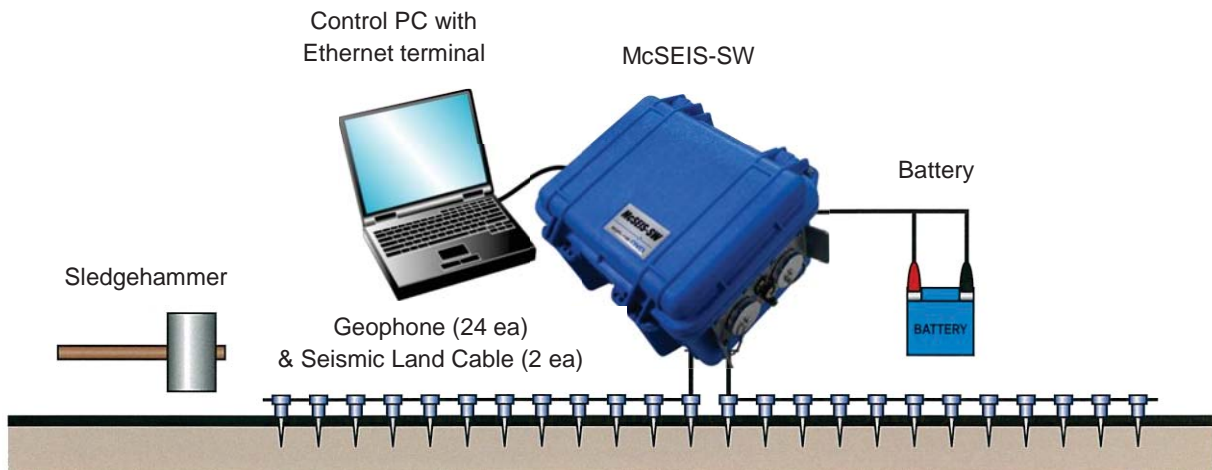
### ■ SW Control Software operating condition

OS	: WindowsXP(Home/Pro)、Windows7
Memory requirement	: 512MB
HDD space requirement	: 500MB
Other	: Ethernet terminal

## <Option>

Geophone (28Hz, 4.5Hz)  
Seismic Land Cable  
Sledgehammer

### ■ Conceptual Diagram



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Please note specifications are subject to change without notice for the improvement.

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