

## 24 ch Seismograph for Surface Wave and Refraction

# McSEIS-SW



### <Abstract>

McSEIS-SW is a 24 ch 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.

### <Feature>

- 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- In the case of conventional all-in-one products, the data processing function of computers often tends to become outdated.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	: 24 ch
Input Impedance	: 20 K $\Omega$ 0.02 $\mu$ F
Gain	: 24 dB or 36 dB
Dynamic Range	: 144 dB
Frequency Band	: 1.75 Hz to 20 KHz
A/D Resolution	: 24 bit
Sampling Rate	: 0.0625, 0.125, 0.25, 0.5, 1.0, and 2.0 msec
Record Length	: 16,384 sample
Data Format	: SEG2
Data Storage	: Internal Hard Drive of Laptop PC
Power	: DC 12 V (External Battery)
Consumption Current	: 15 W or above
Operating Temperature	: -30 to +70 °C
Case	: Splash-proof Construction
Dimensions	: 254 (W) x 177 (H) x 305 (D) mm
Weight	: 3.8 kg

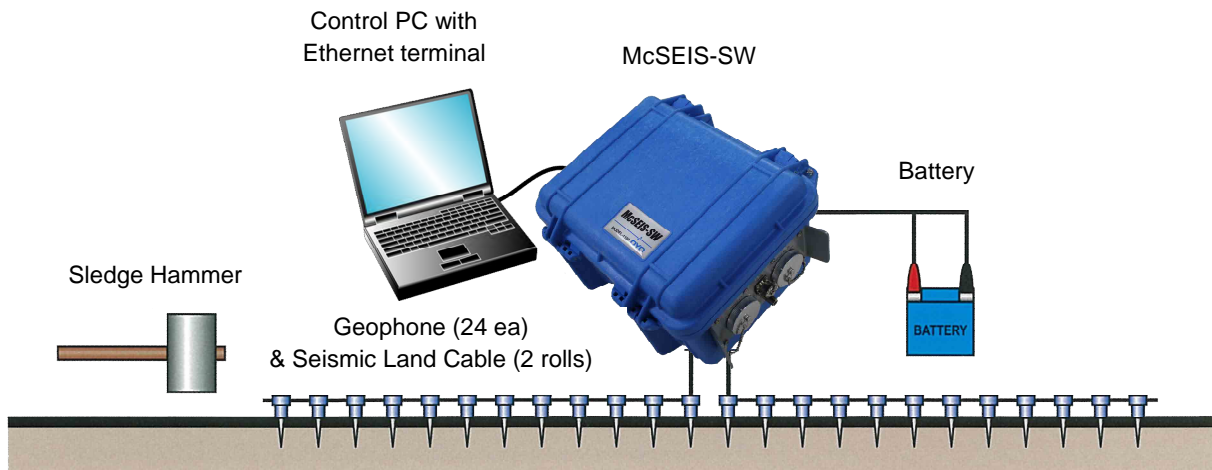
### ■ SW Control Software Operating Condition

OS	: Windows7, Windows10 64bit
Memory Requirement	: 512 MB
HDD Space Requirement	: 500 MB
Other	: Ethernet Terminal

### <Option>

Geophone (28 Hz, 4.5 Hz)  
Seismic Land Cable  
Sledge Hammer

## < System Diagram >



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

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