### DAQlink 4 Seismograph

**Includes VibraScope Software**

**Functions:**
- Configures DAQlink 4 for Acquisition
- Monitors Seismograph Operation
- Offloads and Evaluates Data

**Features:**
- Data Display
- Analysis – Amplitude & Phase Spectra
- RMS Noise and Signal Graphs

**Expansion:**
- For larger systems, DAQlink 4 seismographs are compatible with the full line of iSeis Sigma Field Software, including Source Link & Sigma Observer

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### DAQlink 4 Seismograph Specifications

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* Standard DAQlink 4 (without Network)

**| Distributed DAQlink 4 (with Network Extenders)

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### System Features:

**Cutting-Edge Performance**
- 1 to 24 channels per seismograph node
- High-Speed 24-bit ADC – up to 64,000 sps
- Wide Bandwidth – DC to 20 KHz
- Low Distortion – 0.00008% THD @ 500 sps
- Wide Dynamic Range – > 124 dB @ 500 sps
- Low Noise – <0.2 µV RMS @ 500 sps

**Multiple Time Synchronization Modes**
- GPS Clock Discipline for Autonomous Recording
- VHF/UHF Radio for Underground Use
- Or synchronize multiple DAQlink via cable

**Multiple Trigger Modes**
- Trigger using LTA and STA for event monitoring
- Trigger using GPS time for noise monitoring
- Trigger using LTA and STA for event monitoring
- Two trigger circuits available, one for standard and a second for low-voltage inputs

**Multiple Data Storage Methods**
- External mounted, USB-compatible Memory Plug for data backup and transfer
- Ethernet connection for fast data transfers and remote data storage

**Built-in Ethernet Network**
- Use network to configure seismograph and monitor acquisition
- Compatible with cables, Wi-Fi and Cellular Data
- Internal FTP server for data backup and transfer

**Built-in Acceptance Testing**
- Instrument Tests:
  - Distortion, Crosstalk, CMRR, Impulse & Noise Sensor Tests:
  - Resistance, Frequency, Damping, Sensitivity

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### Operation Modes:

**Operate as Stand-Alone Seismograph**
- Use a sledgehammer and hammer switch
- Small, lightweight unit for small, fast crews

**Operate as an Acquisition System**
- Use a vibrator and Force 3 controller
- Network a computer to Monitor Acquisition, Quality Control Data, and Store Shot Records

**Passive Monitoring**
- True Continuous Recording
- Use Cellular Modem for Remote Data Collection
- Works with surface or downhole sensors

**Automated Event Detection**
- Continuously record and store data
- Use LTA (Long Term Average) or STA (Short Term Average)
Distributed DAQlink 4 System

The Distributed DAQlink 4 System is the combination of a standard DAQlink 4 seismograph and internal, high-speed, network extenders. Using inexpensive twisted pair telephone cable, these network extenders will send triggering times and receive seismic data from other DAQlinks. These cable links can send reach 10,000 ft, or three kilometers in length. The entire system is connected to a computer which controls the seismograph network and stores the acquired seismic data. This computer can be simultaneously providing Quality Control as the project is acquired. The final data files can be stored in SEG-2, SEG-D, SEG-Y, ASCII, or MiniSEED format.

DAQlink 4 Seismograph

DAQlink 4 is the fourth generation unit from the Seismic Source Acquisition Series. The system can be configured as a stand-alone monitoring system, a refraction system or a distributed seismic reflection system. The DAQlink 4 is a true continuous recorder, and is perfect for acquiring passive data.

Expandability and Flexibility

All DAQlink 4 seismographs are compatible with the entire line of Seismic Source Co source control electronics. This includes the Force 3 Vibroseis controller, the Boom Box 3 dynamite synchronizer and the RTM 3 remote trigger module. DAQlink nodes are also compatible with the Universal Encoder 2. Use the UE2 for precise source operation.