DAQlink 3 Seismograph

High Resolution Versatile Seismic Recording System

iSeis

The DAQlink3 -24 is the third generation of portable seismograph systems. The system can be configured as a stand-alone monitoring system, a refraction system or a distributed seismic reflection system.

The DAQlink 3-24 has been designed for temporary or long term installations and can be monitored continuously or periodically, locally or remotely. External clock discipline via GPS Module, VHF/UHF radios or Wire enables usage in any environment.

DAQlink 3 24 channel Seismograph

MegaDAQ: Multiple DAQlinks
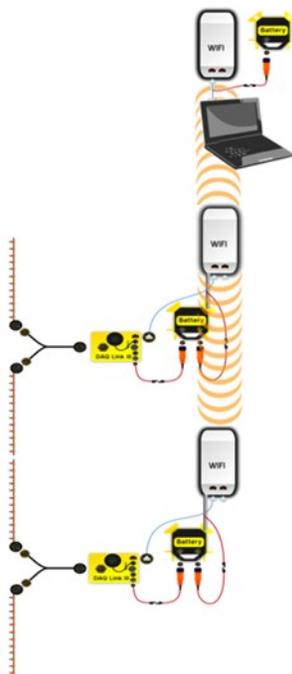
A MegaDAQ consists of multiple 24 channel DAQlink 3 units connected via a network. This can be either a wired or wireless network. The network both controls the seismographs and collects the seismic data in real time.

Field Benefits

Cutting-Edge Technology for Data Quality
- Ultra High-Speed 24bit ADC (48,000 samples/sec)
- High Resolution Clock
- Low Noise & Low Distortion Means Better Data

Designed to Produce & Protect Data
- Data Always Stored in Box - No Lost Data
- Offload Data While Recording – No Lost Production
- Better Data Handling for Superior Production

Versatile Operation
- Continuous Recording
- Trigger on Time, Data Event or Trigger Input
- Different Modes for Different Types of Projects

Multiple Operation Modes
- Operate as Stand-Alone Seismograph - Great for Small Crews
- Multiple Units Operating in Concert - Increases Crews Flexibility

Sturdy Aluminum Construction
- Rugged, Lightweight, "O" Ring Sealed to IP 67
- Threaded Holes for Mounting
- For Permanent Mounting, or Long-Term Deployment

Downhole Recording
- 24 Channel Units Ideal for Shallow Holes with 8 three-Component Geophone Sondes
- Use Wi-Fi network to collect data from multiple wells

Earth Monitoring
- Low Power for Long-Term Use
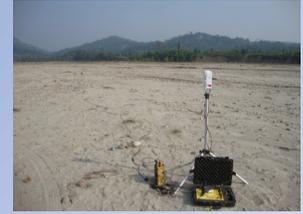- Use Cellular Modem for Remote Data Collection

Useful for Every Project
- Engineering Seismic
- Oil & Gas Exploration
- MicroSeismic Frac Monitoring
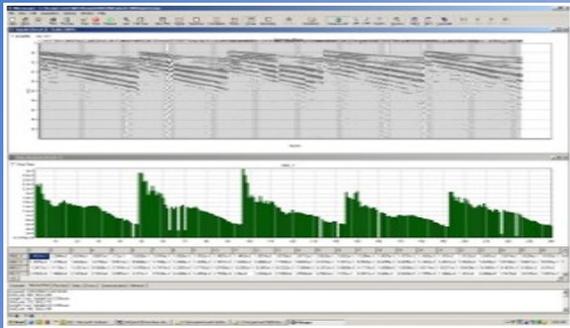- Strong Motion Detection and Monitoring

Seismic Source

DAQlink 3 24 channel Seismograph
DAQlink 3 - Works in All Environments

iSeis

Includes VibraScope Software

Functions:
- Configures DAQ3-24 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, DAQ3-24 Seismographs are compatible with the full line of iSeis Sigma Field Software, including Source Link & Sigma Observer.

Distributed DAQ3-24 Specification

Electrical			Physical	
A/D	24 bit sigma delta converter		Number Channels	6, 12, or 24
Anti-Alias Filters	85% of Nyquist frequency		Temperature	-40°C to +85°C
Low Cut Filter	User Selectable – DC, 0.1 Hz, 2 Hz		Humidity	0 to 100%
Filter Type	User Selectable – Linear, Minimum Phase		Size	13.0" x 9.0" x 4.8" (330 x 230 x 120 mm)
Sample Rates	1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8, 16 ms		Weight	15 lbs (6.8 kg)
PreAmp Gain	x2 (6 dB) & x32 (30 dB) standard x1 (0 dB) & x16 (24 dB) optional		Data Storage (Internal 16GB CF)	120 hours (24 channels @ 2ms)
Max Input at x2 (Standard)	3.58 Volts P-P x2 (Standard) 7.16 Volts P-P x1 (Optional)		Data Storage (through Ethernet)	Unlimited
Bandwidth	DC to 15 kHz		Data Format	32-bit float IEEE SEG-Y/SEG-D
Power	Less than 0.8 watts per channel		LEDs	Network Connect, Network Data Status and Battery
Input Impedance	100k Ohms		**Connectors**	
Clock Sync	GPS		RJ-45	Standard CAT-5 Ethernet
Performance			GPS	4-pin Weatherproof
Trigger Accuracy	± 1 µs at all sample rates		Trigger	3-pin Weatherproof
Dynamic Range	Better than 118 dB (at 2 ms)		Power	2-pin Weatherproof
% THD	0.0012 %		Auxiliary Port	19-pin Weatherproof
Crosstalk	Better than -125 dB		Seismic Data	51-pin Weatherproof
CMRR	Better than 100 dB			
Noise Floor	< 0.2 µV RMS (at 2ms)			

Seismic Source