DAQ3-24

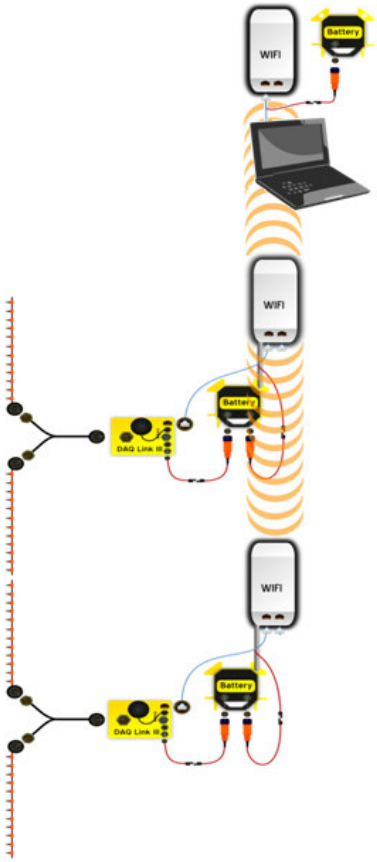
High Resolution Versatile Seismic Recording System

The DAQ3-24 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 DAQ3-24 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.

DAQ3-24:
Low Noise,
High Speed,
24 Channels
Seismograph

MegaDAQ: Multiple DAQ3-24s



A MegaDAQ consists of multiple DAQ3-24s 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

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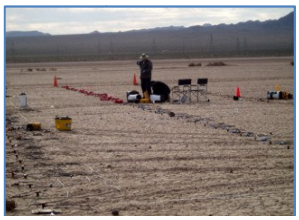
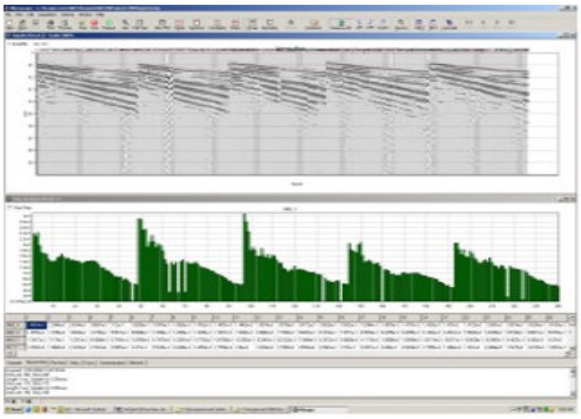
DAQ3-24

DAQ3-24 Works in All Environments



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

DAQ3-24 Specification

Electrical	
A/D	24 bit sigma delta converter
Anti-Alias Filters	85% of Nyquist frequency
Low Cut Filter	User Selectable – DC, 0.1 Hz, 2 Hz
Filter Type	User Selectable – Linear, Minimum Phase
Sample Rates	1/48, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8, 16 ms
PreAmp Gain	x2 (6 dB) & x32 (30 dB) standard x1 (0 dB) & x16 (24 dB) optional
Max Input at x2 (Standard)	3.58 Volts P-P x2 (Standard) 7.16 Volts P-P x1 (Optional)
Bandwidth	DC to 15 kHz
Power	Less than 0.4 watts per channel
Input Impedance	100k Ohms
Clock Sync	GPS
Performance	
Trigger Accuracy	± 1 µs at all sample rates
Dynamic Range	Better than 118 dB (at 2 ms)
% THD	0.0012 %
Crosstalk	Better than -125 dB
Common Mode Rejection	Better than 100 dB
Noise Floor	< 0.2 µV RMS (at 2ms)

Physical	
# Channels	6, 12 or 24
Temperature	-40°C to +85°C
Humidity	0 to 100%
Size	13.0" x 9.0" x 2.4" (330 x 230 x 60 mm)
Weight	7.5 lbs (3.4 kg)
Data Storage (Internal 16GB)	120 hours (24 channels @ 2ms)
Data Storage (through Ethernet)	Unlimited
Data Format	32-bit float IEEE SEG-Y/SEG-D
LEDs	Network Connect, Network Data Status and Battery
Connectors	
RJ-45	Standard CAT-5 Ethernet
GPS	4-pin Weatherproof
Trigger	3-pin Weatherproof
Power	2-pin Weatherproof
Auxiliary Port	19-pin Weatherproof
Seismic Data	55-pin Weatherproof