

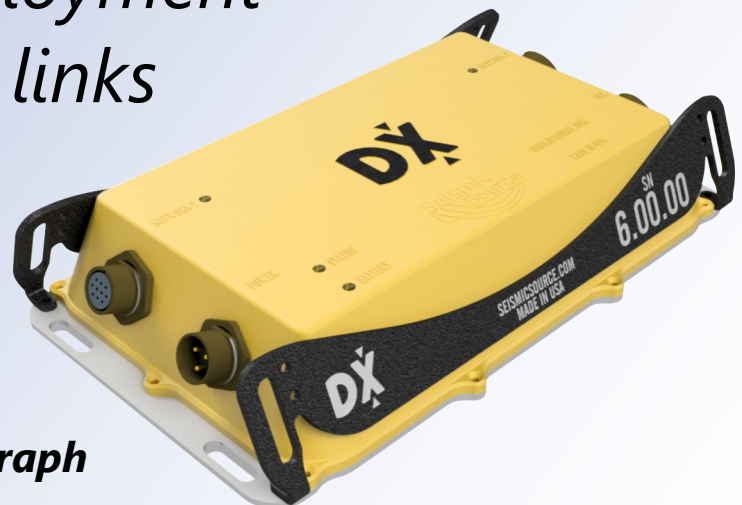
DX-6 SEISMOGRAPH



***Has all the features
NOT found in nodal
acquisition systems***

(and it does nodal recording, too!)

- ◆ *Real-time Command & Status*
- ◆ *Real-time Quality Control*
- ◆ *Real-time Data Collection*
- ◆ *Simultaneous Active & Passive*
- ◆ *Automated Deployment*
- ◆ *Cabled & Wi-Fi links*

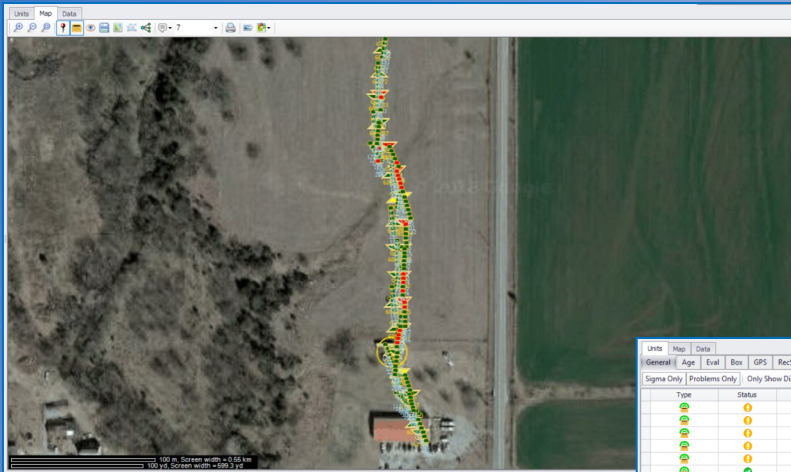


The DX-6 Seismograph

DX-6 SEISMOGRAPH



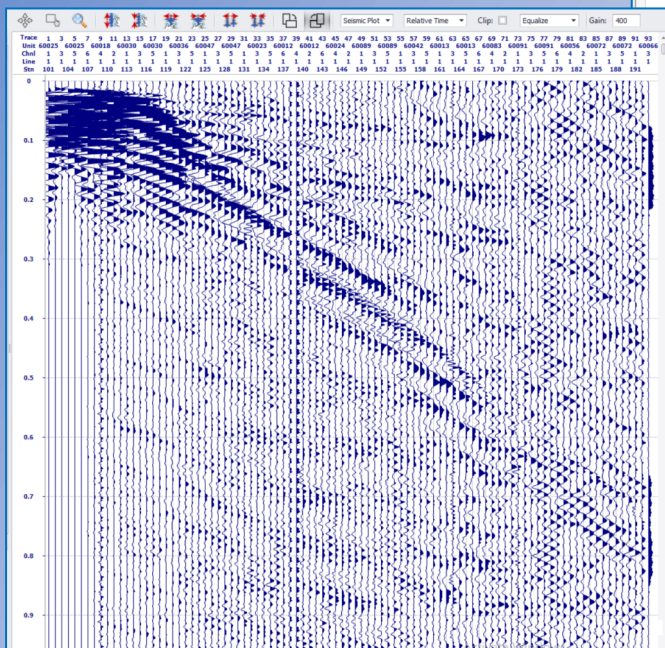
Advanced software for complete control
for Real-Time Operation, QC and Results



Map Display shows field equipment with
satellite, road, or terrain background

Icon-based status provides
battery and GPS plus test
status for each node

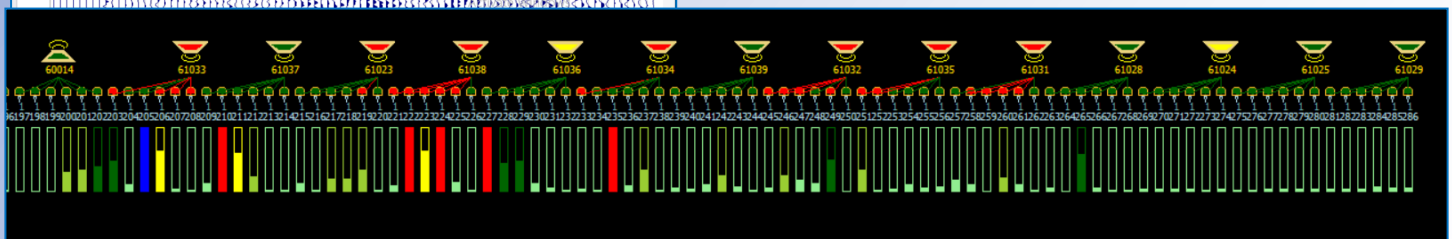
Units	Map	Data	General	Age	Eval	Box	GPS	RecSts	RecPhm	TpPhm	Snr	Inst	Net
Sigma Only Problems Only Only Show Discovered													
Type	Status	Box ID	Anchor	Bat	GPS	Rec	Snr	Inst	USB				
60091	1-175												
61024	1-274												
61036	1-232												
61042	1-157												
60083	1-170												
60023	1-133												
61032	1-250												
61039	1-244												
60014	1-199												
60089	1-151												
60056	1-182												
60030	1-115												
60024	1-146												
61031	1-262												
60012	1-140												
60013	1-163												
61028	1-268												
60047	1-127												
61023	1-220												
61029	1-286												
60025	1-103												
61025	1-280												
60036	1-121												
61038	1-226												
60066	1-193												
60018	1-110												
60072	1-187												
61037	1-214												
61035	1-256												



Data displayed on-screen as it arrives
includes Vibroseis correlation and both
straight and diversity vertical stacking



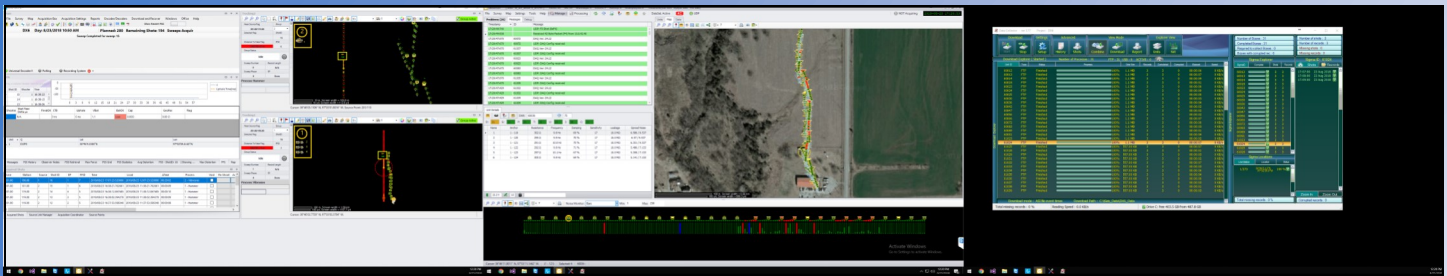
Schematic display of line deployment
with real-time noise monitor



DX-6 SEISMOGRAPH



Wi-Fi or Cabled Network Operation - 6 channel Node for Real-Time Operation



Left: SourceLink Console

Center: Observer Console

Right: Data Management Console

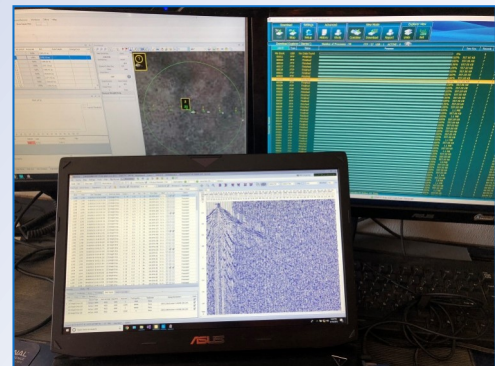
DX-6 seismograph nodes can be linked together with cables or Wi-Fi for real-time operation. This includes system status and control, plus real-time data collection, file harvest and SEG-Y output.

Networked Operation features:

- DX-6 equipped systems monitor noise and other environment conditions in real-time, no more "shoot-blind" acquisition.
- DX-6 optional components include:
 - Line Interface Units connect to multiple lines and the Central Computer.
 - The Central Computer manages spread, controls acquisition and collects data to generate SEG-Y files.
- Same DX-6 node can be used for autonomous GPS controlled operation.
- Central Computer can be moved off-line.
- Wi-Fi links can be used to "skip" line across roads or water and over or around obstacles.



***DX-6 Node with existing battery,
cable, and geophones***



***Source Tracking & QC, Data Offload,
And Shot Records All in Real Time***

DX-6 SEISMOGRAPH



Autonomous Operation

**Deploy a station anywhere
at any time**

DX-6 seismograph nodes are equipped to record data autonomously. Each node comes with internal GPS, plus 8 GB flash memory. A DX-6 node can be deployed anywhere, and at any time.

Autonomous Operation features:

- Internal GPS disciplines clock, locates the node, and organizes internal file structure.
- Internal memory plus optional external memory for data security and long term operation.
- Records with geophones, hydrophones, microphones and/or accelerometers.
- Includes full featured, complete software package for data collection, file creation and SEG-Y output.
- Same DX-6 node can be used with Wi-Fi or cabled network for real-time operation.

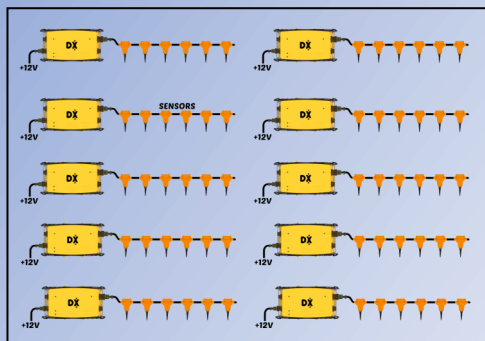
Managed Operation

**Deploy a receiver spread
and actively manage it**

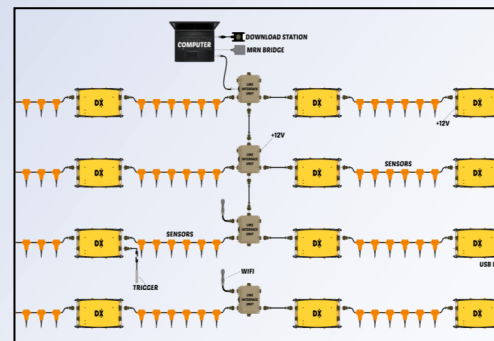
DX-6 seismograph nodes can be linked together with cables or Wi-Fi for real-time operation. This includes system status and control, plus real-time data collection, file harvest and SEG-Y output.

Real-Time Operation features:

- Supported 2D, 3D, and random spreads
- 600+ channels per line
- 32+ lines per spread
- Nodes automatically deployed using GPS
- System supports SEG-P1, GPX, & SPS files
- Modes can be networked using cables or Wi-Fi
- Includes full featured, complete software package for data collection, file creation and SEG-Y output.
- Same DX-6 node can be used with Wi-Fi or cabled network for real-time operation.



***DX-6 Receiver Spread configured
for Autonomous Acquisition***



***DX-6 Receiver Line networked via Cables
and Wi-Fi plus the Central Computer***

DX-6 SEISMOGRAPH



DX-6 Node Options

DX-6 seismograph nodes are available in two different configurations. The first version is optimized for flexibility. With six channels on one connection and POE-equipped Wi-Fi compatible connections on the other this box can be used for autonomous projects, and down-hole projects as well as cabled acquisition. The second version has symmetrical connections for use with legacy equipment, like batteries, cables and geophones.

Both versions of DX-6 nodes can be used in any field application.

The first DX-6 configuration is designed for flexibility and to maximize a crew's options.

DX-6 Configuration 1:

Two Network Ports:

- Data - 6 Channels & Ethernet
- Connection - Ethernet with POE

Battery Port:

- 3 Pin Connector - Sigma compatible
- Supports 12 volt Batteries

Auxiliary Port:

- Ruggedized USB for Data Backup
- External Trigger

The second DX-6 configuration is designed to use a crew's existing equipment.

DX-6 Configuration 2:

Two Network Ports:

- Up-side - 3 Data, Battery Power & Ethernet
- Down-Side - 3 Data, Battery Power & Ethernet

Battery Port:

- 8 Pin Connector - Seistronix compatible
- Supports 12 volt Batteries

Auxiliary Port:

- Ruggedized USB for Data Backup
- External Trigger



DX-6 Line Tap Box

DX-6 Line Tap Boxes connect together individual lines, and also connect the line to the central recorder. Line Taps can be connected with CAT-5 cable, standard ruggedized tap cables, twisted pair extenders for extra distance, or Wi-Fi should there be obstacles between the line and the truck.



DX-6 SEISMOGRAPH



Expandability and Flexibility



DX-6 seismograph nodes 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 blaster, and the Remote Trigger Module for mechanical impact sources. The DX-6 system is also compatible with the Universal Encoder 3. Use the UE3 for precise source operation with any source type.



DX-6 Acquisition Unit Specifications

Electrical	
A/D Converter	24 bit sigma delta (24 bits stored)
Preamplifier Gains	x1, x4, & x16 (0 dB, 12 dB, & 24 dB)
Max Input (x1 gain)	±3.25 volts (2.30v RMS)
Max Input (x16 gain)	±0.217 volts (0.153v RMS)
Sample Rates	125, 250, 500, 1k, 2k, 4k, 8k, 16k, 32k & 64k, SPS
Bandwidth	DC to 85% Nyquist
Input Impedance	100k Ohms
Clock Sync	GPS or Ethernet
Internal Mesh Radio	Optional
Ethernet Network 1	100Base-T or 10Base-T (user selectable)
Ethernet Network 2	100Base-T or 10Base-T (user selectable)
Network Links	Can be either Cabled or Wi-Fi
Memory (Internal)	8 Gb (standard, can be upgraded)
Memory (External)	16 Gb (standard, can be upgraded)

Performance (at 500 sps)	
Dynamic Range	125 dB (x1 gain)
	122 dB (x16 gain)
Distortion	0.0001% (x1 gain)
	0.0001% (x16 gain)
Noise	1.2 µV RMS (x1 gain)
	0.15 µV RMS (x16 gain)
CMRR	> 125 dB (x1 gain)
	> 123 dB (x16 gain)
Trigger Accuracy	± 1 µs at all sample rates
Physical	
Case Type	Aluminum and ABS plastic
Size	11.5 in x 7.25 in x 2.25 in
	292 mm x 184 mm x 48 mm
Weight	3.1 lbs
	1.4 kg
Power Requirement	9-28 volts DC
Power Draw	2 watts at 12 volts