

# Featured for 2023 ... Vibrator Acquisition

## NavLink

### Source Navigation

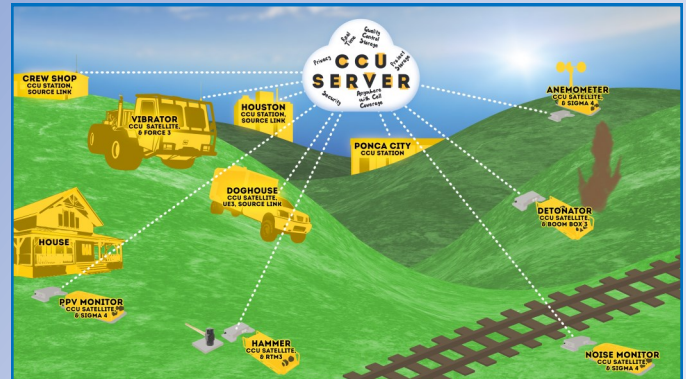
- Designed for Vibroseis, dynamite, and impulsive autonomous operation
- Supports "stakeless" & "pointless" crew operation, node deployment, and data acquisition
- "Scout Mode" for surveying, point staking, and line preparation (e.g. "bulldozer" mode)
- Supports land and marine streamer operation
- Includes layer support for keep-out areas, surface hazards, and low force zones
- Android and Windows versions available.



## VibLink IP

### Communications Via Internet

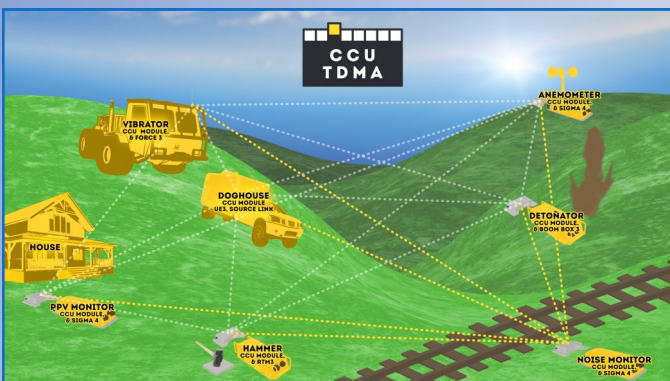
- Uses Cellular Modems and Internet Servers
- World-Wide Communications
- Standard F3 Messaging
- Optional internal coprocessor board, plus Wi-Fi networking transceiver.



## VibLink TDMA

### Unit-to-Unit Communications

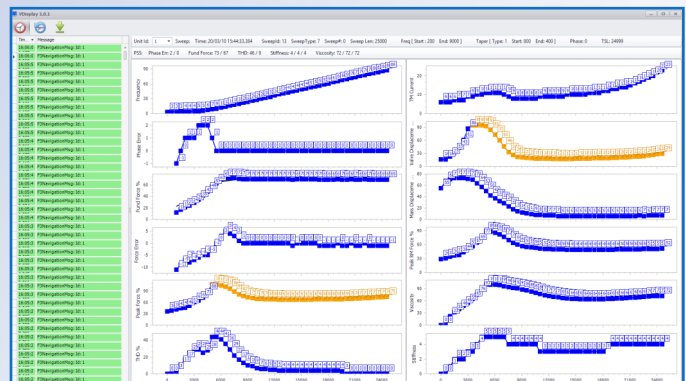
- Uses VibLink Modules and VHF Radio
- All In-Field Communications
- Small, fast, 34-byte packets with status and commands
- Optional internal coprocessor board, plus cellular data modem.



## VDisplay

### Real-Time or Historical QC

- Displays and stores VSS and PSS data
- Displays data as graphs or tables
- Identifies and displays anomalous sweeps
- Displays and analyzes baseplate, reaction mass signals as wireline test.



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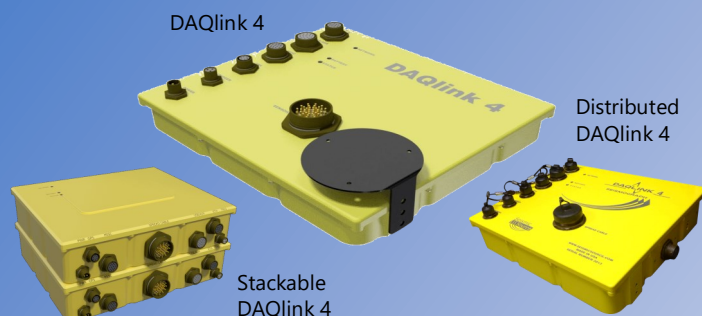


# Featured for 2023 ..... Seismographs

## DAQlink 4

### 24 Channel, High-Speed Seismograph

- 12 or 24 Channel general purpose seismographs
- Alternate case design for stacking DAQlinks vertically, for maximizing channels and minimizing space
- Alternate version with high speed in-built networking, for creating seismographs with higher channel counts
- Up to 32,000 SPS for shot records
- **Optimized for Land and Marine streamer acquisition, and for V30 and other near-surface projects.**



## U-Node2 for Sercel

### Reuse 408/428 FDU/DSU Equipment

- Each U-Node2 records 1-120 channels, can use multiple nodes for larger projects
- Adds GPS, Wi-Fi, and autonomous features to system
- Compatible with SSC Universal Encoder 3, Force 3, Boom Box 3 and SourceLink source control equipment
- **Replace or augment Sercel 408 or 428 systems.**



## Sigma 3+ and 4+

### 3 or 4 Channels, Nodal Seismograph

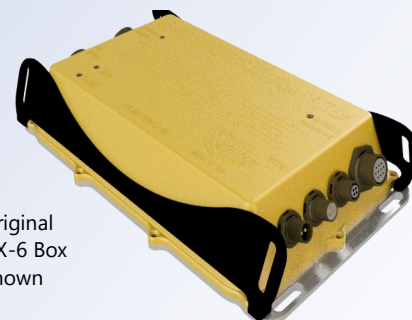
- Low noise 3 channel configuration
- High speed 4 channel configuration
- Optional equipment:
  - Internal battery
  - Internal Linux-based coprocessor
  - Internal or external sensors
  - Internal or external GPS module
  - External microphone
  - External Wi-Fi module
  - External solar battery augmentation
- **Optimized for long-term or short-term monitoring projects.**



## DX-6

### 6 Channel, Networked Seismograph

- Real-Time data returned via the internal network
- DX-6 nodes can be used either autonomously, individually with Wi-Fi, or networked together with cables
- Nodal timing established via either GPS or NTP, can be used underground, or where GPS is not available
- System can be triggered from any node, for ease of use and faster production
- **Optimized for real-time projects requiring hundreds of channels.**



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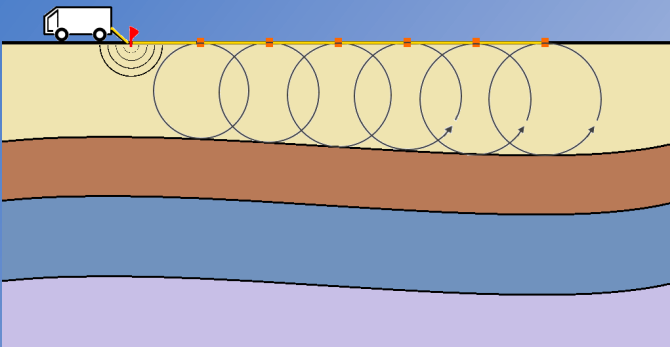


# Featured for 2023 ..... Projects

## MASW Acquisition

### For Rapid MASW Data Acquisition

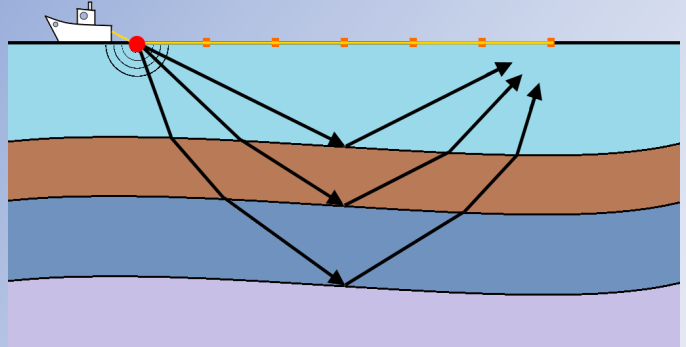
- Build 6, 12 or 24 channel streamers using tough straps and solid aluminum sleds
- Sled spacing customizable with each order
- Sleds have outriggers for additional stability while towing
- Connect streamer to towed source or directly to vehicle
- **Record streamer with DX-6 or DAQlink seismographs.**



## UHRMS

### Ultra-High Resolution Marine Seismic

- Customized for fast acquisition of high-resolution data
- Up to 16,000 SPS
- Down to 100 milliseconds between shots
- Up to 96 channels per streamer
- Can acquire overlapping shot records:  
Record Length > Shot Interval
- **Ideal for shallow marine hazard surveys.**



## PPV Monitoring

### PPV Monitoring with Seismic in Mind

- Utilizes 3 or 4 channel Sigma 4+ digitizers
- Available with VibLink TDMA or IP Communications
- System options include Wi-Fi and external microphone
- System is aware of source equipment locations
- System alerts source operator of PPV violations
- System is fully automatic
- **PPV Monitor can abort sweeps and prevent damage.**



## V30 Analysis

### Surface Waves plus Refraction

- 24 channel DAQlink 4 can acquire both surface wave and refraction datasets for V30 and near surface projects
- Use SASW, MASW, ReMi and SPAC/ESPAC techniques
- Switches from 10.Hz to 4.5 Hz (or 2 Hz) geophone elements for recording lower frequencies
- Use the same equipment to acquire refraction datasets
- **Surface waves determine shear wave velocities for site classification, and refraction data helps determine structure, all for a complete answer.**



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