

# Autonomous Boom Box 3



## AUTONOMOUS MODE DYNAMITE SYNCHRONIZER

### Why Autonomous?

**No Radios** - One of the most important parts in any crew are the radios. Crews depend on radios for the source equipment to communicate with the doghouse. Autonomous acquisition removes those limits.

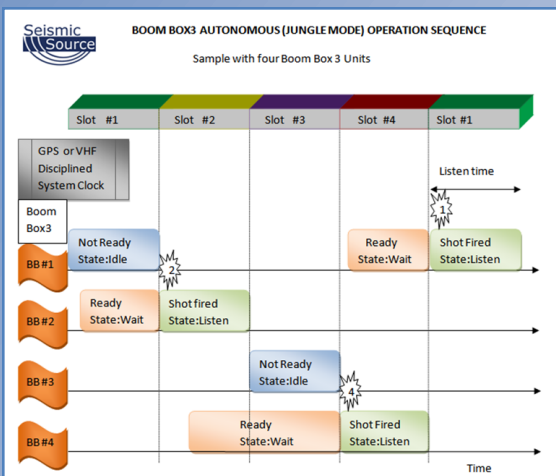
**No Limits** - Removing the limits imposed by radios accelerates the acquisition process. Removing the limits frees the sources to shoot at their own rate. It also lets sources operate in locations with tough terrain and thick vegetation. Terrain and vegetation that would halt a conventional crew.



Acquisition with BB3 Autonomous Blaster

### Boom Box 3 Operation

- Multiple shooters operate in time windows
- GPS timing lets BB3s fire in non-overlapping time slots
- Ideal for use with Continuously Recording systems
- For use in thick vegetation, rugged terrain, or anywhere with poor radio reception
- Accurate shot time and position stored in CompactFlash
- Notebook/Tablet/Cell phone interface for real time QC and redundant shot info backup
- Software support to automatically or manually select nearest Source Flag
- Complete software package to combine and process shot information from shooters and generate advanced reports
- Lightweight solution with swappable clip-on battery pack and built-in GPS.



### Autonomous Boom Box 3 Features

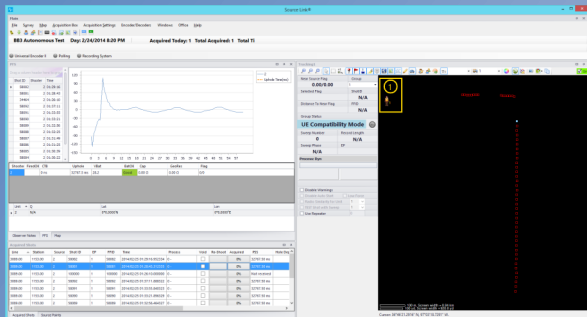
- Large graphical display shows setup information and uphole data
- Diagnostic LEDs shows:
  - Status (for Geophone Resistance and Cap Test)
  - GPS (for Unit Position and DGPS Verification)
  - High Voltage (Cap charged)
- Built-in Wi-Fi for wireless communication with notebook, tablet or phone
- Built-in GPS measures the precise time of each shot with microsecond resolution
- Built-in GPS assists shooter in finding correct shot point
- 32-bit ADC samples uphole data from shot
- Unit stores all shot, GPS and uphole information to Flash Memory card
- Built-in Wi-Fi communication module for fast data downloading.



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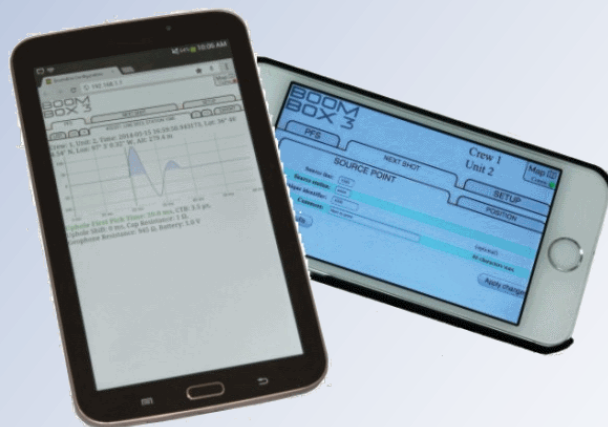
## SourceLink Project Software



- Complete software solution for Autonomous operation
- Import Shot Data from multiple Boom Box3 units and generate advanced reports
- Option to pick near Source Point automatically at a later time, based on Shot position, even if shooter did not assign Shot Point to shots during the shooting process.
- Simple Shot data import process for specified time or date range
- Advanced map view allows analysis of acquired shots and planning future shots
- Support for different co-ordinate systems
- Feature to load selected patch of source flags to BoomBox3 memory from a large prospect for no tablet operation
- Upload/Download Boom Box parameters and settings
- Assign Autonomous Fleet and slot interval information to Boom Box 3

## Tablet Field Software

- Any modern tablet, cell phone or laptop with a Wi-Fi connection and web browser
- No software installation required – web browser used for user interface
- Shot Time, Position, Uphole and QC information updated in real time.
- Upload/Download Boom Box parameters and settings
- Assign autonomous fleet and slot interval information
- Import source points into map
- Finds near shot point and assign to each shot automatically or manually
- Option to use tablet GPS position to be assigned to Boom Box
- Export shot information (time, position, uphole and QC) logs in csv format.



## Expandability and Flexibility

The Boom Box 3 is compatible with the entire line of Seismic Source Co source control electronics as well as the iSeis line of nodal seismographs. This includes the Universal Encoder 2, Force 3 Vibroseis controller, and the RTM 3 remote trigger module. Boom Box 3 units are also compatible with DAQlink seismographs plus Sigma 3, Sigma 4 and R1/R1+ nodes.

