

# Boom Box

## Dynamite Source Controller



### Easy Operation:

- Easy to Use, just hold the Arm and Charge toggles, Unit charges and is ready to fire
- Web based interface allows easy setup and storage of data on PC, Tablet, or Cell phone
- Shooter updated with easy to read graphical display and status LEDs
- Same unit used for Encoder and Decoder modes

### Operation Features:

- Operates with Digital or Analog radios - Designed for narrow band radio frequencies
- Internal Clock disciplined to GPS or VHF radio synchronization – Microsecond Resolution
- Comprehensive Geophone test verifies geophone operation to ensure Uphole data integrity
- Legacy Mode: Operates with standard Radio Start Codes  
Compatible with Universal Encoder and Boom Box 1 series units

### Hardware Features:

- Built-in Wi-Fi communication module
- Records precise time of every shot with nanosecond resolution
- Stores all shot and uphole information to Flash Memory card
- Three Channel 32-Bit ADC – Records Uphole Data for Shot
- Large Graphical Display – For Setup Information and Uphole Data
- Diagnostic LEDs: Status (Geophone Resistance and Cap Test)  
GPS (Unit Position and DGPS verification)  
High Voltage (Cap charged)

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### Operation Modes:

- Autonomous Mode (No Radio Required) – For Use in Thick Vegetation and Rugged Terrain
- Multiple shooters can Operate Autonomously on Same Crew
- Legacy Mode - Boom Box fires when Radio Start messages are received
- Repeater Operation – Unit can relay start messages from Encoder to Decoders
- F3 Start Codes – UE2 and SourceLink software with automatic zero time correction
- Digital cap, internal Digital Cap controllers available – no extra delay for digital caps

### Boom Box III Specification

Electrical		Physical	
Firing Voltage	400 Volts	# Channels	3
Firing Current	> 200A (0.5 Ohm Load)	Temperature	-40°C to +60°C
Firing Accuracy	± 20 microseconds	Humidity	0 to 99%
Charge Time	< 1 Second	Size	12.0" x 5.6" x 3" (305 x 144 x 76 mm)
Sample Rates	0.25, 0.5, 1, or 2 ms user selectable	Weight	3.1 lbs (1.4 kg)
Graphic Display	Wide Temperature Operation	Data Storage (Internal 8GB CF)	480 Hours (3channels @ 2ms)
Operating Voltage	10-36 Volts	LEDs	Status / GPS / High voltage
Uphole Input Impedance	20K Ohms		
Clock Discipline	GPS or VHF		
Blaster System Includes			
Boom Box	With Cables		
GPS Unit	Microsecond Accuracy		
VHF Radio	Specify Frequency & Power		
Backpack	Metal Frame & Weather Cover		
12V Battery	12 Amp-Hour		
Charger	4 A unit		

