

# FORCE 3 CONTROLLER FOR ALL VIBROSEIS SOURCES



Featuring:  
**Autonomous Mode**  
**No Radios**  
**No Repeaters**  
**No Problem!**



## **Advanced Acquisition Electronics**

The Force 3 Vibrator Control System, or Force 3, is the newest generation of vibrator control system. It is designed to control individual vibs, or synchronize entire fleets of trucks. Using GPS, or VHF/UHF radio, for its time base the Force 3 both starts the Vibrator and controls its sweep with unparalleled precision and accuracy.

The Force 3 is equipped with the latest ADC chips for better sweep resolution, increased computing power for faster response, GPS for precise source location, 8 Gbytes of internal memory for integrated VSS and PSS data storage, and integrated Wi-Fi for easy data offloading.

## **Advanced Acquisition Techniques**

The Force 3 supports all acquisition modes and can switch seamlessly between them. Crews can change between techniques as the environment and situation requires, increasing their acquisition production.

The Force 3 controller's superior electronics generate better sweeps in worse conditions and tougher terrain. This helps ensure better data wherever the crew is operating.

The Force 3 operates either integrated or autonomously. Use integrated mode for multiple fleets of multiple units, or autonomous mode for vibrators in rough or remote terrain.

The Force 3 supports simultaneous control of multiple source types. Crews can record multiple Vibrator fleets, dynamite shooters, AWD weigh drops, and even air gun equipped boats from a central platform.

## **Force 3 Features Include:**

- SSC Compatible – Operates seamlessly with UE 3, Boom Box 3, & RTM 3 units
- Integrated Radio Interface – Force 3 can be used with almost any radio
- Integrated GPS Interface – Force 3 sends source location back to recording system
- Equipped with internal memory – can operate autonomously without radio
- Integrated WiFi – Setup and operate Force 3 unit with web browser from phone or tablet
- Integrated Ethernet – Control Force 3 directly with SourceLink software



Small Vibrators



Legacy Vibrators



Newest Vibrators

# Force 3 Controller (cont.) High-Productivity Solutions



Compatible with P-Wave  
and Shear-wave Vibrators



Recommended for use with  
SSC's Universal Encoder 3

### **Complete Vibrator Control System**

Fully compatible with all servo-hydraulic vibrators  
Maximum Force output with minimum distortion  
Stable, Fault tolerant system  
Automatic Vibrator Calibration  
Dual Accelerometer circuits

### **Meshed Wireless Ethernet System**

High speed wireless communication  
Vibrator Group messages  
Automated group Center of Gravity (COG)  
Source Driven operation  
Wireless Digital Similarities  
Upload Custom Sweeps

### **GPS Location and System Timing**

GPS time synchronization  
VHF timing verification  
Centimeter accurate GPS

### **Vibrator Navigation Software**

SSC Navigator program  
Allows Stake-less Navigation

### **Includes Legacy Mode**

Compatible with Standard Radios  
Compatible with Standard Timing  
Compatible with Standard Crews

## Force 3 Vibrator Decoder Specifications

General	
Number of sweeps stored in library	64 standard, custom or linked
Sweep resolution	24 bit
Control system sample rate	250 micro second
Vibrator signature recording (HFVS™)	Standard
Timing synchronization	Set by GPS time or VHF radio message
Meshed wireless radio	Available upon request

Physical	
Size	16" x 12" x 6" (406 x 305 x 152 mm)
Weight	22 lbs (10 kg)
Power	9-36 VDC
Data Storage (Internal 8GB CF)	20,000 12 sec sweeps
External Storage	USB Flash
Built-in Ethernet speed	100 Mbit