



## Shot Pro II™ Dynamite Firing System

- State-of-the-art data storage and retrieval
- Compact for versatility of installation
- Internal/External GPS capabilities
- GPS navigation of crew and shot sites
- Decoders store shot data for up to 500 shots, retrievable by the recorder at a later time
- Compatible with Shot Pro, Advance II and Vib Pro for quick and easy transition between vibroseis and dynamite operation
- Operates with most commercial radios or wireline link
- Precise Uphole Geophone and Cap line resistance test
- Digital filtering of the uphole signal provides for an accurate first break pick and enhanced display.
- Analog timing marks and uphole signal are made available for recording by the seismic acquisition systems, and for verification of the synchronization timing
- Quality control shot status message automatically transmitted to the recorder
- **Safety features**
  - High-voltage is present for 4 milliseconds maximum at the output posts
  - High-voltage outputs are electrically connected together until the ARM button is pressed
  - Common mode protection from electrical impulses on the firing and uphole lines
  - An encrypted fire command recognized only by the desired Shot Pro II prevents the firing of unselected boxes even if armed



The Shot Pro II system provides rugged and reliable dynamite operations for seismic crews. The unit is very compact and designed for versatility of installation and use. Interfacing with most commercial VHF/UHF radios and GPS receivers is accommodated and simplified. The Shot Pro II incorporates many features and functionality. It has the ability to operate either as an encoder or as a decoder or as a master/slave repeater as well as compatibility with RTI architecture to ensure close coupling of shot data with recording system information.

**Specifications:**

INPUT/OUTPUT, INC.

**Physical Characteristics**

Height	102 mm (4 in)
Length	279 mm (11 in)
Width	152 mm (6 in)
Weight	2.4 kg (5.2 lb)
Operating temperature range	-40°C to +60°C (-40°F to +140°F)

Supply Input	Reverse-polarity and over-voltage protection
Supply Voltage	10 V <sub>dc</sub> – 36 V <sub>dc</sub>
Supply current at 12 V in charging mode	0.9 A
Supply current at 12 V in normal mode	0.2 A

Fire line resistance measurement	0 to 1200 Ohms 3% precision
Firing accuracy	±20 microseconds
Firing voltage, current and energy	400 V max, Up to 40 amps, 8 Joules nominal
Firing pulse automatically terminated	After 4 milliseconds

Uphole signal digitizing	0.25 millisecond sample interval
Uphole time picking	Automatic
Uphole pre-amplifier gain	Selectable: 0 dB, 20 dB or 40 dB
Uphole acquisition and display	100 mS acquisition time with 60 mS moving window
Uphole input signal range	4 V Peak max. w/ dynamic range equal or better than 80 dB
Uphole resistance measurement	0-1200 Ohms 3% precision
Uphole pulse test	Visual test of geophone response

<b>Recording System Interfaces</b>	I/O System II/Image, Sercel 388/408, Geo-X Aram/Aries and all other popular seismic acquisition systems
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<b>Limited Warranty Period</b>	1 year
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**Ordering Information:****Shot Pro II**

Encode System	P/N 105-000030
Decode System	P/N 105-000031

**Accessories***Parts included with complete system.*

Battery – 12 V <sub>dc</sub>	P/N 016-000034
Battery charger – 12 V <sub>dc</sub>	P/N 017-000031
Manual, Shot Pro II	P/N 022-000058
Backpack Assembly	P/N 101-100922
Cable assemblies	
Encode	P/N 101-100150
Decode	P/N 101-100151

**Options**

Uphole simulator system-2	P/N 101-100088
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