



**SES** Seismic  
Equipment  
Solutions

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Product Catalog

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**OFFERING RETAIL AND WHOLESALE SERVICES FOR GEOPHYSICAL EXPLORATION EQUIPMENT, INCLUDING SEISMIC SOURCES, SENSORS, AND DATA RECORDING DEVICES AVAILABLE FOR PURCHASE OR LEASE.**

**YOUR SOURCE FOR SELLING AND LEASING QUALITY SEISMIC DATA ACQUISITION PRODUCTS.**

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### SmartSolo IGU16-5Hz



The SmartSolo IGU-16 is an advanced and versatile seismic sensor system designed for various applications in the field of geophysical exploration, monitoring, and research. It combines cutting-edge technology with user-friendly features.

Recording Time:  
25 days @1ms Continuous - 50 days segmented

Dimensions: (LxWxH) 103 × 95 x 118 mm  
Weight: 1.1kg(Including internal battery)

### SmartSolo DMC DCC server



Data management control (DMC) server is used to set various project parameters including IGU-16 record parameters before deployment. After downloading the data, you can connect the data collection console (DCC) and data management console (DMC) to generate data files in SEG-D and SEG-Y formats. Data collection console (DCC) server is a high-speed server connected with 50 Tb external disk cabinet. Data collection console (DCC) is a software platform for downloading seismic data.

### SmartSolo Data Harvesting Rack



The Data Harvesting Rack is used (in conjunction with the DCC Server) to program the IGU-16s. It is also used for offloading the seismic data including QC data. Each DHR has 32 slots. The average downloading speed of each slot is 20 MB/s. There is a monitor on each DHR to view the status of the connected IGU-16s.

Offloading Time:  
3000CHs @ 20 days @ 2 ms in < 3.25 hours

Dimensions: (LxWxH) 1660 x 650 x 300 mm  
Weight: 90 kg

### SmartSolo Battery Charging Rack



The charging rack is a device for charging the IGU battery pack. Each charging rack has 48 slots, and each slot is equipped with LED indicator to display the charging status of each battery pack.

Charge Time - 3.25 Hours (from fully discharged)

Dimensions: (LxWxH) 1827 x 600 x 320 mm  
Weight: 130 kg

### SmartSolo Automatic Disassembly Assembly Machine



The automatic disassembly machine is the equipment for assembling and disassembling IGU-16, which can greatly save the labor cost and improve the production efficiency.

Assemble/Disassemble Speed 720 IGUs per hour

Dimensions: (LxWxH) 665 x 265 x 410mm  
Weight: 34.5 kg

### SmartSolo Field Deployment Tool Juno T41



Field deployment tool is a Trimble handheld RFID scanner. The deployment can run the corresponding software solo FDT. After deployment, the IGU-16 can be scanned to match the line and station numbers of the survey.

Scanning Frequency Band: 916-926 MHz

Dimensions: (LxWxH) 210 x 81 x 32 mm  
Weight: 0.4 kg

### SmartSolo Field Deployment Tool C71



Field deployment tool is a ChainWay handheld RFID scanner. The deployment tool can run the corresponding software solo FDT. After deployment, the IGU-16 can be scanned to match the line and station numbers of the survey.

Scanning Frequency Band: 916-926 MHz

Dimensions: (LxWxH) 210 x 81 x 32 mm  
Weight: 0.4 kg

### SmartSolo Auxiliary Box



The AUX Box contains 4 IGU-16-AUX units. It can record up to four auxiliary signals with microsecond accuracy, using its external GPS antenna. The Aux signals (e.g. TBs, correlation pilots) are then offloaded by plugging each IGU-16-AUX into the DHR.

Dimensions: (LxWxH) 361 x 289 x 165 mm  
Weight: 6.5 kg

### SmartSolo IGU Tester



The IGU Tester is used to perform acceptance testing of IGU-16s (both the electronics and the geophone). It can test 16 units at once. The Tester application runs on an attached computer and provides a comprehensive range of user-selectable tests, the results of which are saved in a database.

Dimensions: (LxWxH) 625 x 500 x 297 mm  
Weight: 38 kg

### SmartSolo Portable Battery Charger



The Portable Battery Charger (PBC) is used for charging the IGU-16 batteries. Each battery charger rack can charge 16 batteries. The LED indicators show the charging status of each battery.

Charging Time: 3 25 hours (fully)

Dimensions: (LxWxH) 625 x 500 x 366 mm  
Weight: 26.3 kg

### SmartSolo Portable Data Harvester



The Portable Data Harvester (PDH) is a portable option for programming and offloading IGU-16s. Each PDH has 16 slots. The average downloading speed of each slot is around 20 MB/s.

Dimensions: (LxWxH) 625 x 500 x 366 mm  
Weight: 21.5 kg

### SmartSolo IGU Battery Pack



Capacity: 38.48 Wh

Dimension: (LxWxH) 95 x 103 x 80 mm  
Weight: 0.7kg

### Wireless RT2 Central Recording System



RT2 features a robust Hybrid Radio Telemetry system that enables your seismic data acquisition project to continue, uninterrupted, even if radio connectivity is temporarily lost over portions of the spread. The standard operating mode for RT2 is real-time wireless recording with auto skip-healing, should any WRUs lose radio connectivity.

### Wireless RT2 Source Interface Unit – SIU



Interface between the CSS and the seismic source encoder/decoder. Synchronizing the WRUs with the energy source. Provides the central system with the time of the source event. Records auxiliary information, such as the pilot sweep from the Vibroseis source controller.

### Wireless RT2 Wireless Recording Unit – WRU



The WRU contains a system for seismic acquisition and radio relay encased in a waterproof aluminum case. The WRU runs from either one or two rechargeable lithium-ion batteries.

Dimensions: (LxWxH) 22.9 x 14.7 x 7.7 cm  
(9.01 x 5.79 x 2.83 in.)

Weight: 1.86 kg (4.10 lbs.)



**Wireless RT2 Line Interface Unit – LIU**



The LIU collects seismic data in real time passed along a line of WRUs and forwards onto an Ethernet-based backhaul telemetry subsystem for transmission to Central recording system. Provide clock discipline to each line segment of WRUs allowing WRU to switch off GPS subsystem after WRU position is acquired.

Dimensions: (LxWxH) 36 x 24 x 14 cm  
(14.21 x 5.42 x 9.44 in.)  
Weight: 5.9 kg (13 lbs.)

**Wireless RT2 WRU Battery Charger**



The WRU battery charger is specifically designed to provide high density charging with a small physical footprint. The charger includes 10 self-contained charging drawers, each with its own power supply to charge the battery packs. One charging station can charge 80 fully discharged, 12 hours from a standard electrical service.

Dimensions: (LxWxH) 59.21 x 51.59 x 120.3 cm  
(21.31 x 51.59 x 47.37 in)  
Weight: 31.1 kg (73 lbs)

**Wireless RT2 High Capacity WRU Battery**



The WRU battery pack is a fully contained smart battery with a choice of capacities to meet the needs of modern 2D, 3D, and passive seismic surveys. The charge circuitry is contained within the pack, so no special chargers are required.

Capacity: 96.2 Watt hours

Dimensions: (LxWxH) 18.85 x 4.8 x 6.60 cm  
(7.42 x 1.89x 2.60 in.)

Weight: 0.84 kg (1.85 lbs.)

**Wireless RT2 Line Radio Kit**



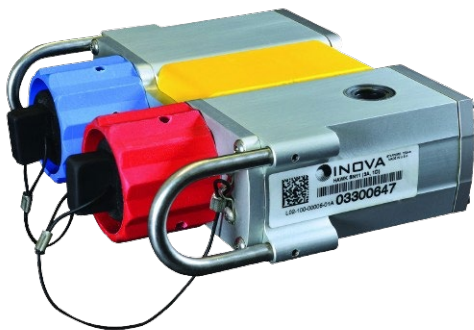
Allows wireless data transmission from the WRU down the backhaul line at a rate of 5.6-5.8 GHz. Can be connected in several network configurations. Four ports are available on the LIU to facilitate the Line Radio Units which can be combined on the backhaul line.

**Wireless RT2 WRU Antenna**



Frequency: 2400 MHz  
Gain: 4.4 dBi  
Vertical Bandwidth: 25°

**Inova Hawk Field Station Unit FSU**

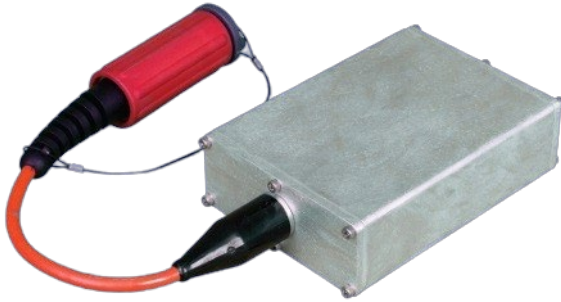


The Field Station Unit can include up to 3 analog and 3 digital channels. Providing an array of channel and deployment configuration options with a single set of ground equipment. Each Field Station Unit (FSU) stores up to 16GB of analog or digital sensor data. Bluetooth and WiFi enabled - no radio infrastructure required.

Dimensions: (LxWxH) 16.7 x 20.3 x 5.5 cm  
(6.6 x 8.0 x 2.2 in)

Weight: 1.7 kg (3.7 lb)

**Inova Hawk 288 WHr Power Pack**



Purpose built high energy density Lithium Ion battery pack used to power an INOVA cableless field station unit. Options include a standard capacity 192 WHr pack, optional low capacity 96 WHr and optional high capacity 288 WHr pack.

Dimensions: (LxWxH) 19.5 x 13.7 x 7.3  
(7.7 x 5.4 x 2.9 in)

Weight: 3.45 kg (7.6 lb)

**Inova Hawk Battery Charger**



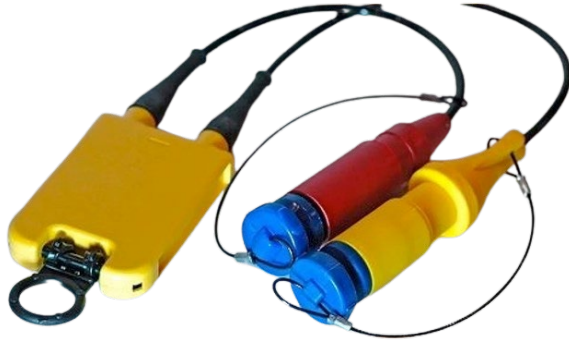
Integrated data network and battery chargers. Rack for charging 48 standard capacity or 32 large capacity INOVA Lithium Ion Power Packs per module. Cascadable to scale up capacity. Simple connectivity to Transcribery. Visual charge status indicators when used for battery charging.

**Inova Hawk SM7 3 Component Geophone**



High sensitivity 10 Hz 3-Component Geophone in Aluminum Case. Tight specification low distortion. Advanced, high spurious geophone. Typically 340 Hz. Along with horizontal elements for shear-wave and 3-C recording.

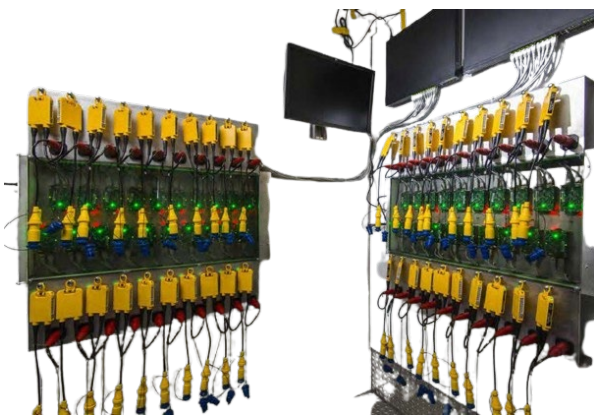
**AutoSeis HDR**



The AutoSeis High Definition Recorder is a versatile wireless, radio-free nodal system for recording seismic data. Each unit is completely encased in resin and covered with a protective coating for operations in any climate or land environment. The unique, simple, lightweight and slim design allows for efficient mobility and successful delivery of quality seismic data time after time.

Weight: 317 grams / 0.7 lbs

**AutoSeis Download Panel**



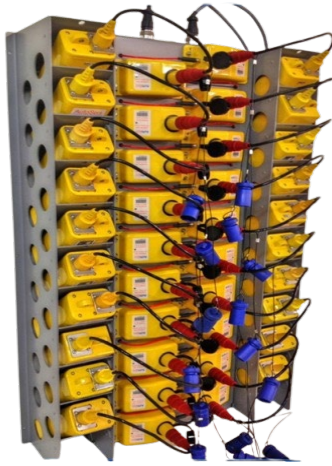
The AutoSeis download panel consists of 20 GuruPlugs that function as a bridge between the HDR and Command HDR. Special software on the GuruPlug communicates with the HDR via USB protocol and Command HDR via Gigabit Ethernet to download the data. Offload rate for first generation HDRs is 10 MB/sec. 40 to 80 HDRs can be offloaded at any given time.

**AutoSeis Data Harvesting Unit**



The Data Harvesting Unit is the collection of hardware and software that retrieves data from the HDR's and outputs final SEG-Y data. It consists of the following main components: AutoSeis Offload Panel, Workstation and Storage device, and Proprietary Software. DHU

**AutoSeis Battery Charging Panel**



The dual bank 24 V DC power supplies can operate up to 20 Li-Ion charging units for efficient power usage. Color light display allows the user to identify any issues with the battery or the pre-charge test for proper battery QC. The panel is designed to be wall mounted with a 10-charge case option for smaller portable operations. Global Geophysical Services uses a custom trailer with the capacity to charge 300 to 350 batteries at one time.

**Sercel 428 WorkStation**



HP Z800 Workstation  
e-428 Client software, performing operator interface and parameters display

**Sercel LCI-428**



Interface between the spread and the 428 client/server architecture, the LCI-428 supports as much as 10,000 channels in real-time at 2 ms sampling rate

2U 19" rackable

Dimensions: (LxWxH) 86.1 x 483 x 420.7 mm  
(19 x 16.5 x 3.4 in.)

Weight: 4.1 kg (9.0 lbs.)

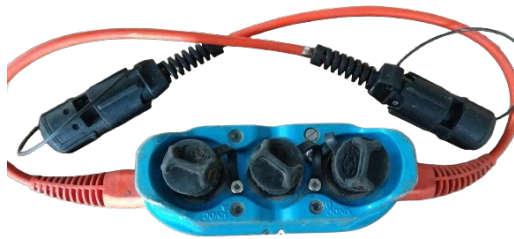
**Sercel 428 LAUX**



Line Acquisition Unit, Crossline. An interconnecting unit along an acquisition Transverse or a line. Used to control the path of the data flow from the acquisition lines to the recording truck, and for power management on line sections.

Dimensions (LxWxH): 137 x 312 x 242 mm  
(5.4 x 12.3 x 9.5 in.)  
Weight: 5.5 kg (12.1 lbs.)

**Sercel 428 LAUL**



Line Acquisition Unit, Line. An interconnecting unit along acquisition line. Used to control the data flow from the acquisition lines to the recording truck, and for power management on the line.

Dimensions (LxWxH): 108 x 93 x 224 mm  
(4.2 x 3.6 x 8.8 in.)  
Weight: 2.4 kg (5.3 lbs.)

**Sercel 428 VE464 DPG**



Digital Pilot Generator VE464. Control unit for the VE464 DSD vibrator electronics. Connects to the LCI-428.

Dimensions: (LxWxD) 440 x 385 x 88mm  
Weight: DPG : 3.6 kg

**Sercel VE464 DSD**



Installed in each vibrator, the DSD performs real time control of the vibrator ground force, as well as computes and transmits complete attribute sets for the QC database.

Dimensions: (LxWxH) 168 x 427 x 283 mm

Weight: 11 kg

**Sercel 428 VE432 DPG**



Digital Pilot Generator VE432. Control unit for the VE432 DSD vibrator electronics . Connects to the LCI-428.

Dimensions: (LxWxH) 168 x 427 x 283 mm

Weight: DPG : 3.6 kg

**Sercel VE432 DSD**



Installed in each vibrator, the DSD performs real time control of the vibrator ground force, as well as computes and transmits complete attribute sets for the QC database.

Dimensions: (LxWxH) 168 x 427 x 283 mm

Weight: 11 kg

### Sercel LLX400 Laser Link



The LLX400 is a wireless bridge relying on infrared laser transceivers, therefore not requiring any frequency licensing. It can be used to relay the data from an 8 or 16 Mbps Line or a 100 Mbps transverse, across a river or a canyon for instance, over ranges from 200 m to 3000 m in clear conditions.

### Sercel 428 Ethernet Bridge



The Ethernet Radio Bridge is a 75 Mbps wireless datalink that can be used in place of a 428XL Transverse cable. The maximum range is typically around 3km but is also dependent on RF transmission conditions and local RF regulations.

### Sercel 428 Transverse Cables



125 meter transverse cables  
TCP-IP protocol, 100 Mbps Ethernet-based transmission



### Sercel Transverse Repeater TREP-428



The TREP-428 is a repeater unit used between two standard Transverse cables to extend the Transverse.

### Sercel TMS-428



The TMS-428 mainly consists of a PC computer and an interface unit (TMU-428) the core of which is an LAUX-428 fitted with specific software.

### Sercel Remote Input Panel



To be mounted on a wall of the recording cab, together with 6-metre jumper cables, can be used to connect the spread to the Line and Transverse ports of the LCI-428.

**Sercel 408 UL**



The 408UL is a large capacity, high-resolution system designed for land seismic data acquisition. The central control unit consists of a graphic user interface (HCI work station) and a control unit (CMXL).

**Sercel 408XL**



The central control unit consists of a graphic user interface (HCI work station) and an Extra Large capacity 408UL Control Module (408XL) control unit (CMXL).

**Sercel 408 LAUX**

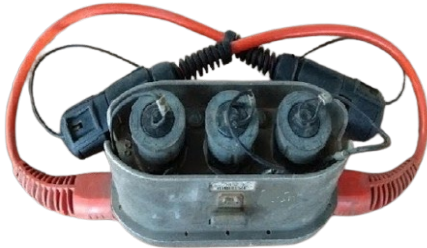


Line Acquisition Unit, Crossline. An interconnecting unit along an acquisition Transverse or a line. Used to control the path of the data flow from the acquisition lines to the recording truck, and for power management on line sections.

Dimensions (LxWxH): 242 x 312 x 137 mm  
(9.5 x 12.3 x 5.4 in.)

Weight: 5.5 kg (12.1 lbs.)

**Sercel 408 LAUL**



Line Acquisition Unit, Line. An interconnecting unit along an acquisition line. Used to control the data flow from the acquisition lines to the recording truck, and for power management on the line.

Dimensions (LxWxH): 224 x 93 x 2108 mm  
(8.8 x 3.6 x 4.2 in.)

Weight: 2.4 kg (5.3 lbs.)

**Sercel Line Source Interface**



A remote blaster connector box used to connect a blaster controller along an acquisition line instead of connecting it to the control unit's Blaster connector. The blaster controller connects to the LSI via an HSU unit.

**Sercel Vibrator Panel**



VE432 DSD vibrator cabling  
Motorola VHF Radio  
Novatel Propak-V3 receiver  
Power Cable

### Seismic Source Boom Box 3



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.

Dimensions: (LxWxH) 305 x 144 x 76 mm  
(12.0 x 5.6 x 3 in)

Weight: 3.1 lbs (1.4 kg)

### Seismic Source Universal Encoder II



Universal Encoder II's are specifically designed to maximize production with the latest Continuous Recording Systems. UE-II encoders store reference sweeps and system start times for use in harvesting data and extracting shot records.

### Pelton Shot Pro II



Delivers precise synchronization and detonation detection with QC . Digital filtering of the uphole signal ensures accurate first break picking. Precise uphole geophone and cap line resistance tests  
Built-in GPS provides position information and shooter navigation.

Dimensions: (LxWxH) 279 x 152 x 102 mm  
(10.99 x 5.99 x 4.02 in)

Weight: 2.4 kg (20.95 lb)

**Sercel VE464 DSD**



Installed in each vibrator, the DSD performs real time control of the vibrator ground force, as well as computes and transmits complete attribute sets for the QC database.

Dimensions: (LxWxH) 168 x 427 x 283 mm

Weight: 11 kg

**Sercel VE432 DSD**



Installed in each vibrator, the DSD performs real time control of the vibrator ground force, as well as computes and transmits complete attribute sets for the QC database.

Dimensions: (LxWxH) 168 x 427 x 283 mm

Weight: 11 kg

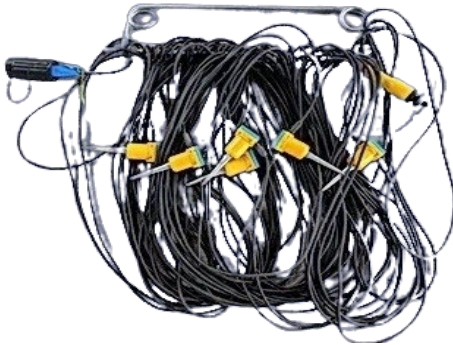
**Geophone String 3x1 Land**



**Sensor SM-24**

- 8 meter interval
- Connector: KCK locking collar
- Natural Frequency: 10Hz
- Spurious Frequency (Hz): >240 Hz
- Sensitivity (V/m/s): 28.8
- Distortion (%): ≤0.1

**Geophone String 6x1 Land**



Sensor SM-24

5 meter interval  
 Connector: KCK locking collar  
 Natural Frequency: 10Hz  
 Spurious Frequency (Hz): >240 Hz  
 Sensitivity (V/m/s): 28.8  
 Distortion (%): ≤0.1

**Geophone String 3x1 Marsh**



Sensor SM-24

2 meter interval - 3 meter drop  
 Connector: KCK push-fit  
 Natural Frequency: 10Hz  
 Spurious Frequency (Hz): >240 Hz  
 Sensitivity (V/m/s): 28.8  
 Distortion (%): ≤0.1

**Geophone Single Marsh**



Sunfull PS-5GR

9 meter and 15 meter  
 Connector: KCK Locking Collar  
 Natural Frequency: 5Hz  
 Spurious Frequency (Hz): ≥120  
 Sensitivity (V/m/s): 80  
 Distortion (%): ≤0.2

**MP24 Hydrophone**



Geospace MP-24

High-output, pressure sensitive detector  
 Natural Frequency: 10Hz  
 Transformer-coupled / four piezoelectric crystals  
 Operational Depth: 0.3–76.2 m (1–250 ft.)  
 Voltage Sensitivity: 7.5 Volts/bar

**ION DigiBIRD**



Advanced, microprocessor-based cable control devices that are mounted externally on a marine seismic streamer cable. Compass heading information Depth measurement and depth control.  
 Model 5011- Version 1  
 Model 5011- Version 1.5  
 Model 5011E – Exportable Compass Bird

Length: 1.2 m (48.2 in) 8.32 kg

Weight: (18.3 lb) in air 2.78 kg  
 (6.1 lb) in sea water with batteries

**ION DigiRANGE CMX**



The Cable-mount Concurrent Multichannel Transceiver (CMX) is a measurement device that makes up a node in the DigiRANGE acoustic system. The device contains a telemetry system interface, control logic, and transceiver circuitry.

Length: 106.7 cm (42 in)  
 Diameter: 12.1 cm (3.5 in)

Weight: approx. 4.3 kg (9.6 lbs in water)

**GeoSpace SRD**



The SRD-500S is an automatic Sealed Streamer Recovery Devices. All critical components are sealed inside its housing.

Length: 117.5 cm (46.25 in.)  
Height: 16.5 cm (6.5 in.)  
Diameter: 8.6 cm (3.375 in.)

**Sonardyne HGPS Transceiver**



Sonardyne's SIPS System, HGPS (Head and Gun Positioning System) transceivers are intelligent, shock-mounted acoustic devices designed to position seismic sources and tail buoys.

Weight in Air: 13.5kg  
Weight in Water: 10kg

**Bolt Air Gun Model 1500**



The 1500-LL Air Source can produce a highest peak output over the largest range of chamber volumes. Its chamber volumes range from from 40 cubic inches to 2000 cubic inches. It requires using heavy-duty cluster spreader bars cluster elements to withstand the sacrificing peak output.

Maximum O.D. 8.73 in./222 mm  
Maximum Operating Pressure 2000 PSI / 138 Bar  
Chamber Volumes 150-2000 cubic inch /2.45 - 33 L



**Real Time Systems BigShot Power Supply**



Sensor/Solenoid (8 Channels)  
Hydrophone (4 Channels)  
Depth/Pressure (4 Channels) IN

**Real Time Systems BigShot Seismic Source**



Controller V2.50. BigShot controller system will synchronize 2 to 96 (128 optional) marine seismic sources, with 0.1 msec resolution.

**Real Time Systems GCS Link 2000**



Gun Control Radio Link  
Multi Gun boat and Recording boat  
Synchronization  
Powerful VHF/UHF radio for long distance communication Transmitting  
- Navigation  
- gun timing  
- aux data

### Real Time Systems Shooting Controller



Contains the gun synchronization and solenoid firing electronics necessary to fire and synchronize seismic airguns.

### Real Time Systems Trigger Box



Intended for use on marine survey vessels as a mean to synchronize multiple systems in order to reduce or eliminate mutual interference.

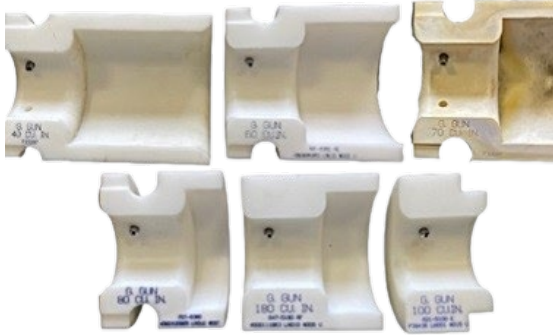
### Real Time Systems USB Multi-port converter with USB Hub



Digi Edgeport 16+4 port USB to serial converter

- 16 DB9M RS232 ports
- 4 type A USB ports
- 1 type B USB port

### Sercel G Air Gun Volume Reducers



Volume reducers for the GENERATOR and the INJECTOR on Air Guns to reduce the generator bubble volume.

### Sercel GI Gun Rod



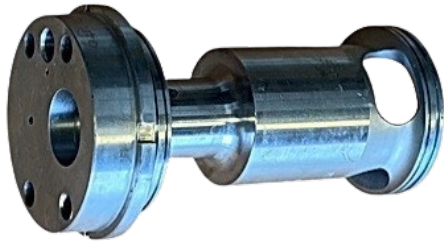
GI Gun Rod  
p/n 623-102

### Sercel GI Gun Shuttle



GI Gun Sleeve  
p/n 603-104

### Sercel GI Gun Sleeve



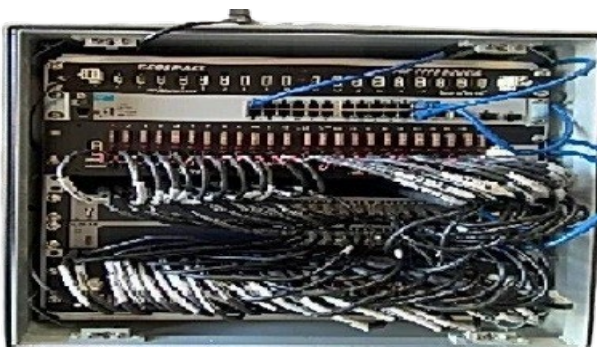
GI Gun Shuttle  
p/n 603-105

### CTX Line Power Unit



The LPU provides a communications interface between the Positioning Control System (PCS) Line Interface Unit (LIU) and the CTX while providing 48 VDC power.

### Geospace OBR Portable Data Charging System



Unit II - OBR Portable Data/Charging System with GPS 48 station

**Geospace OBX Deployment System**



RFID deployment system Ocean Bottom seismic data acquisition nodes.

**Geospace SRD Recharge Kit**



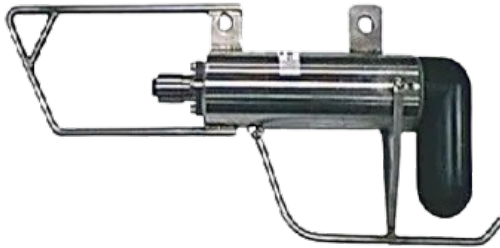
The SRD Recharge Kit provides a way to render an HSRD streamer retriever fully operational after activation.

**ION DigiRANGE II Model 4037 Radio Buoy Source Module**



Radio in rugged waterproof housing Single cable supplies power & data to radio RF power from 1/2 to 2 watts

### ION Remote Transducer



### Remote Transducer Right Angle

Length: 74.7 cm (29.4 i)  
Diameter: 8.9 cm (3.5 in)  
Height: 28.6 cm (11.25 in)

Weight: 9.6 kg (21 lbs) in water  
15.9 kg (35 lbs) in air

### Replacement End Cap CTX



Assy End Cap CTX PAVE Pinger  
O-Rings 2.725 x 2.10  
Screw Pan Phil #8 x 1/2 S/S

### Teledyne Odom Hydrographic Digibar Pro Profiling Sound Velocimeter



Digibar Pro uses "sing-around" technology, which automatically compensates for all factors influencing sound velocity, including salinity, depth, and temperature.

**Tow Point Bend Restrictor**



Tow Point Bend Restrictor  
3" , w/ Collar

**Sercel Deck Cable**



40 meters  
Dedicated cable to ensure efficient  
transmission



Please contact us at [713.501.6121](tel:713.501.6121) or email [info@equipmentses.com](mailto:info@equipmentses.com) to request a quote today

[www.equipmentses.com](http://www.equipmentses.com)