HMS-620 Bubble Gun[™] Systems

Portable Low-Frequency Acoustic Sub-Bottom Seismic Systems

The HMS-620 Bubble Gun[™] systems use lowfrequency acoustic signals to provide superior signal penetration vertically through coarse sand, gravel tills, and other difficult-to-penetrate sediments

HMS-620 Single Source

Ideal for Small Boat or Inland Surveys

HMS-620D Dual Source

- Higher Source Level, Greater Penetration
- **HMS-620LF Low Frequency Source**
 - Wide 20 1700 Hz Energy Spectrum
 - Ideal for Multi-Channel Reflection Surveys

APPLICATIONS

- Offshore Wind Turbine and Dam Site Surveys
- Cross River Surveys for Bridge Construction
- Bedrock Investigation
- Pipeline Construction Surveys
- Geotechnical Site Investigation
- Coastal Engineering
- Shallow Gas Hazard Surveys

FEATURES/BENEFITS

- Single and Dual Source Systems do not need heavy handling or deployment equipment
- Wide-band 70 1700Hz pulse provides bottom penetration through many sediment types
- LF System Source Bandwidth 20Hz 1700Hz
- Very stable and repeatable source pulse without the need for external timing controllers
- Rugged, lightweight transducer platform provides stable operation in adverse sea-state conditions Electromagnetic acoustic source; Contained Air Volume (no air compressor needed)
- **Minimal Electric Power Requirements**
 - Selectable 110 or 220 VAC source of less than 1 KWatt for Single Source, or 2 KWatt for Dual or LF Source 0
- Flexible portable transceiver unit optimizes system for a wide range of sediments
 - Low-noise pre-amp with high/low pass filters and gain control
 - User-selectable trigger or external trigger 0
 - Multiple Sources can be synchronized to a common trigger without need for external timing control 0
 - Repeatable Shot-to-Shot Phase and Amplitude Wavelet Correlation > 0.96 0
- Oil-filled single channel hydrophone streamer cable incorporates a 7-meter multi-element active section 35-meter deactivation switches on each hydrophone element enable exportation outside of USA
- Compatible with industry-standard data acquisition software & multi-channel streamers

The complete Single-Source Bubble Gun[™] System includes transceiver, shipping case, tow cable, hydrophone streamer, and source vehicle (suspended on display frame)



(courtesy Geometrics)



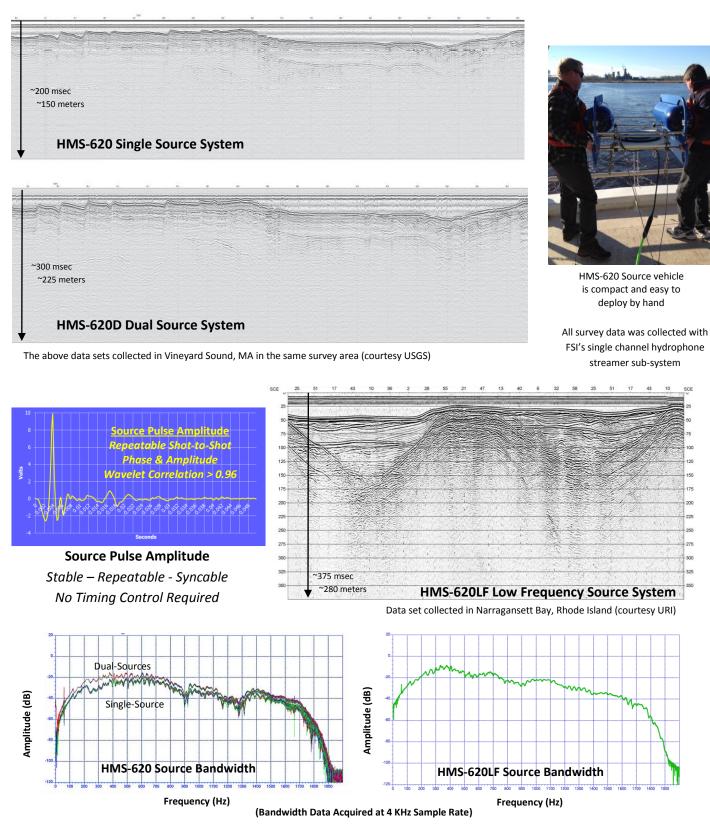
HMS-620LF Low Frequency Bubble Gun[™] Source Vehicle



Falmouth Scientific, Inc. www.falmouth.com

HMS-620 Bubble Gun[™] Systems

HMS-620 Bubble Gun[™] Data Examples



Specifications Subject to Change without Notice 03 Feb 2016

Falmouth Scientific, Inc. 1400 Route 28A, PO Box 315, Cataumet, MA 02534-0315 Email: fsi@falmouth.com • Tel: 508-564-7640 • Fax: 508-564-7643 • www.falmouth.com