



A Division of Falmouth Scientific, Inc.

HMS-AT650 ULF Sub-Bottom Profiler

Ultra-rugged, High-Power, Ultra Low-Frequency, Compact Sub-Bottom Profiling System

The ULF Compact Sub-Bottom Profiler is ideal for applications that require high resolution CHIRP sub-bottom images along with deeper penetration in difficult sediments such as hard-packed sand.

The System generates CHIRP signals in the 200 Hz to 2 kHz frequency range and is suitable for operation in a variety of array configurations to support many different shallow water sub-bottom profiling applications.

Components of the ULF System include a standard single or dual frequency CHIRPceiver™, a dedicated ULF Matching Driver, the HMS-AT650 transducer, and a specialized hydrophone streamer.

The HMS-AT650 transducer is based on a high efficiency piston loaded flexensional design. Single transducers can support up to 3,000W power levels at a 30% duty cycle depending on the depth of operation. Multiple transducers can be arranged in multi-element arrays to support a wide variety of beam patterns and source levels to suit most survey applications. The transducer can be either mounted on a rigid support or towed behind a small vessel using the optional vehicle shown in the photo.

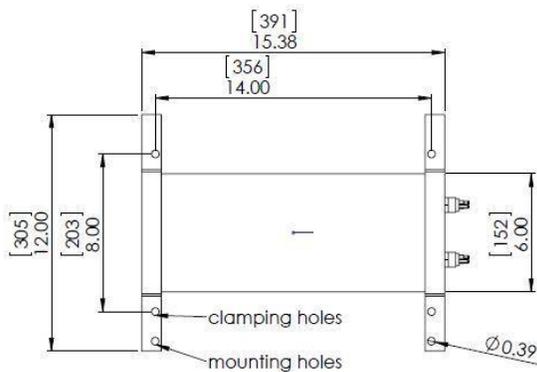
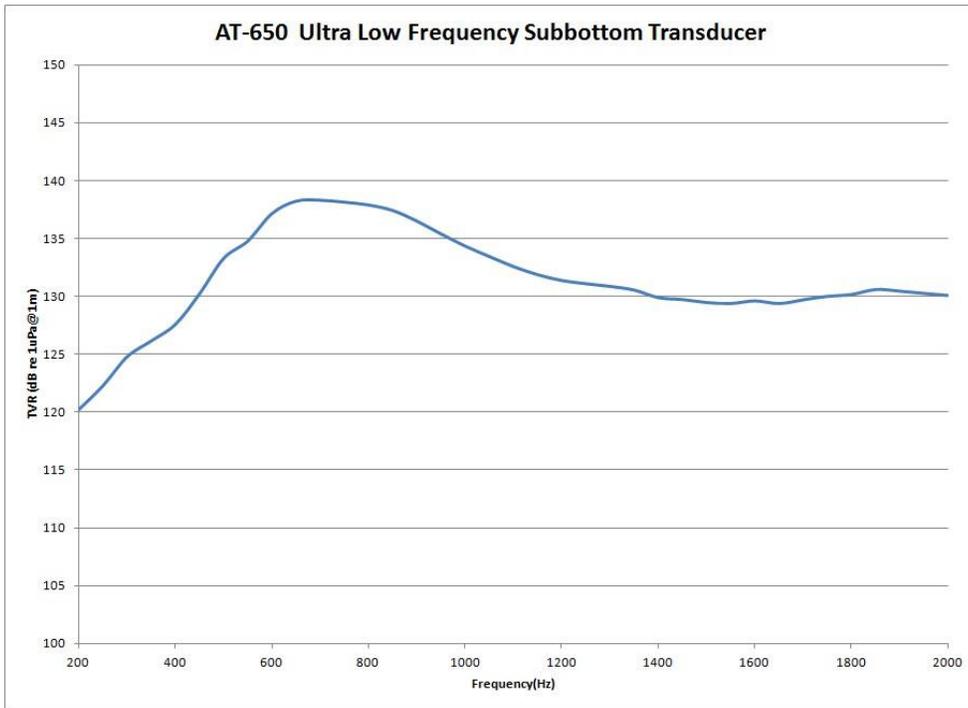
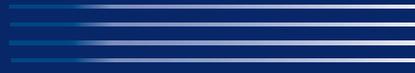


CHARACTERISTICS

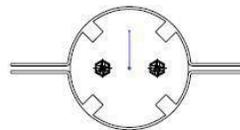
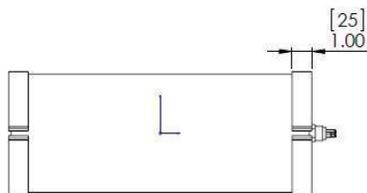
Power Rating	3,000 Watts at 30% duty cycle,
Transmitting Response per Volt	138 dB re 1uPa/1V@1m @650Hz
Nominal Impedance	1,200 ohms @ 650Hz
Directivity	Omni
Maximum Operating Depth	300m



SPECIFICATIONS



WEIGHT IN AIR: 42 LBS. (19.1 KG)
WEIGHT IN WATER: 28 LBS. (12.7 KG)



March 2016
Specification Subject to Change Without Notice

