



C-BASS

VLF Sound Source

POWERFUL, COMPACT, VERSATILE

OVERVIEW

C-BASS is a family of very low frequency [VLF] electrodynamic projectors. These powerful projectors are less expensive, lighter, smaller, more efficient, and have broader bandwidth than their peers. C-BASS makes possible applications that were previously impractical.

APPLICATIONS

- VLF calibration source
- ASW systems and target emulation
- AUV-based systems
- Underwater communication systems with ranges exceeding 1,000 km
- Diver deterrents to protect marine assets
- Bioacoustics research



FEATURES

- The C-BASS projector family is built in five standard sizes
- Low-impedance electromagnetic drives work with most commercial audio amplifiers
- Capable of transmitting any waveforms or audio files
- Pressure compensation is required for deep-water operation

OPTIONS

- Resonance frequency can be tuned for any projector size
- Individual projectors are omnidirectional but can be arrayed to produce directivity
- Active or passive pressure compensation devices allow operation at 100s or 1,000s of meters depth
- Depth and differential pressure sensors
- Ruggedized amplifiers optimized for C-BASS projectors
- Interface with GeoSpectrum's *SourceView* control and recording software

C-BASS VLF Sound Source

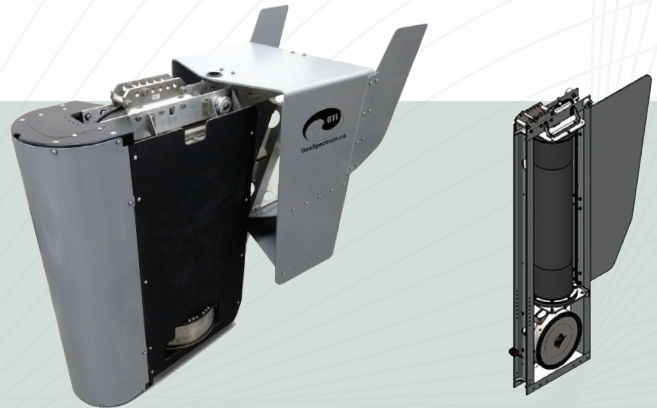
SPECIFICATIONS

Series	M72-25	M72-30	M72-50	M72-110	M72-300
Resonance Frequency (Hz @ 20 m depth)	25	30	50	115	300
Maximum Source Level (dB re 1 μ Pa @ 1 m)	197	199	188	190	190
Maximum Depth without Compensation (m)	N/A	N/A	N/A	30	50
Maximum Depth with Passive Compensation (m)	10	10	20	100; 200*	125; 250*
Maximum Depth with Active Compensation (m)	>300	>300	>500	>1000	>1000
Diameter (cm)	118	102	68	34	22
Mass (kg)	402	355	157	24	8

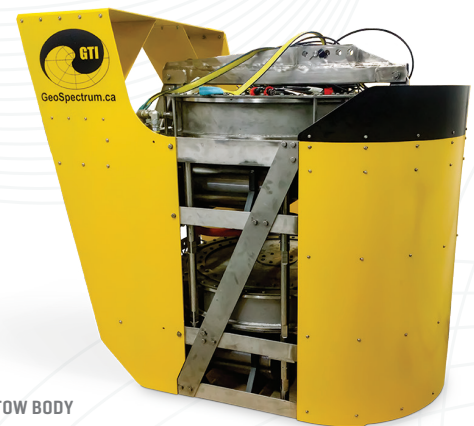
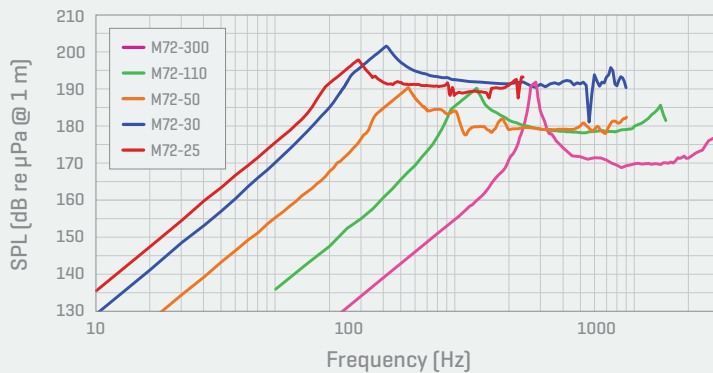
* Options

DEPLOYMENT SYSTEMS

- Power cables and electro-mechanical tow cables
- Deployment frames and tow bodies
- Towed projector systems including winch and A-frame
- Integration into moorings, seafloor installations or other existing vessel



C-BASS Maximum Source Levels



TOW BODY

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