



PAT

Portable Acoustic Target

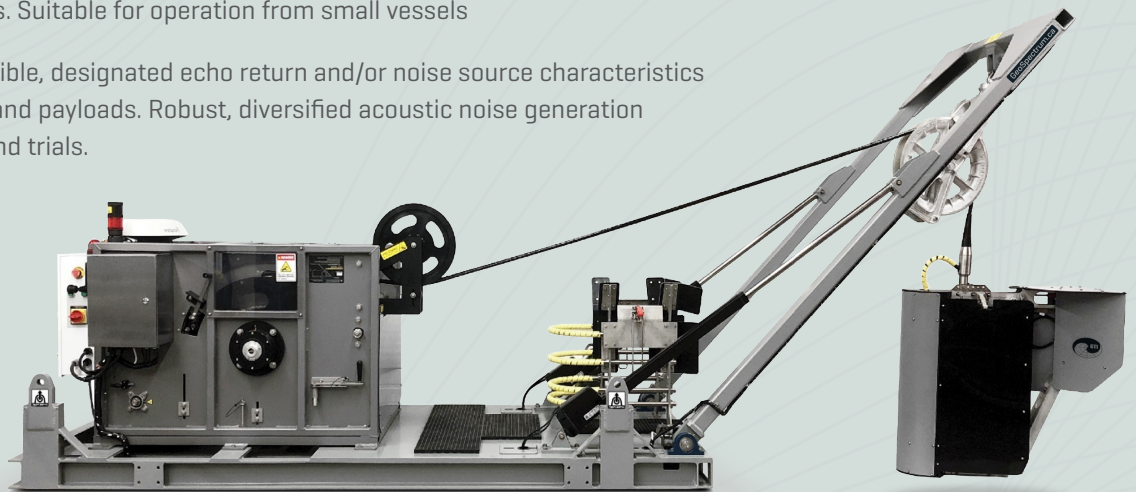
VERSATILE ACOUSTIC TARGET FOR ASW TRAINING

OVERVIEW

PAT is a compact, low-cost, flexible tool to support active and passive ASW training and acoustic system testing/trials. Suitable for operation from small vessels

The system can generate flexible, designated echo return and/or noise source characteristics similar to real-world targets and payloads. Robust, diversified acoustic noise generation supports acoustic systems and trials.

The PAT system ensures ASW operators can retain and improve skills while new operators can be properly trained in a non-combat environment.



COMPONENTS

- Operator console with power amplifier, ruggedized notebook PC and software
- M21 Bender, active mode echo repeat sound source
- M72-110 C-Bass, passive mode sound source
- M72 Pressure Compensator
- M36 Monitoring Hydrophone
- Electric winch A-frame on modular base with towing sheave equipped with cable scope meter
- Winch system may be secured to deck using load binders/straps or bolted mounting brackets
- Compact variant over-boarding system customized for intended vessel

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SPECIFICATIONS

Operating Depth	120 m
Survival Depth	200 m
Max. Tow Speed	Deployment/Recovery 4 kt Towing 8 kt
Weight	Sonar Rack 190 kg Winch w/ cable and A-frame 970 kg Tow Body 120 kg
Power	240 V 1 Ph 50 A*
Frequency Band Active Echo Repeat	1-5 kHz (LF), 5-10 kHz (MF)
Active Target Strength Setting	0-20 dB
Max. Active Echo Repeat Level	175 dB
Sound Emulation for Passive Sonar	10 Hz - 2kHz
Max. Concurrent Narrowband Tonals	Up to 10
Passive Max. Source Level	160 dB (LF), 160 dB (MF)

* Assumes source and winch not operated concurrently



FEATURES

- Transmits flexible, designated echo returns and broadband passive signatures
- Robust and diversified acoustic noise generation to support acoustic systems development and trials
- Compact, lightweight and low cost
- Sound source can be reconfigured to meet training mission requirements and can echo repeat at frequencies from 1 kHz to 10kHz
- Configurable to accommodate a variety of towable sensors/ sound sources to suit required application
- Optimized for maximum performance per designated requirement
- Can be operated from vessels as small as 10 m
- Reusable and environmentally friendly

GEOSPECTRUM TECHNOLOGIES INC

geospectrum.ca | sales@geospectrum.ca

tel: +1 902.406.4111 | fax: +1 902.435.8987 | 10 Akerley Blvd, Unit 19 | Dartmouth, Nova Scotia | Canada | B3B 1J4