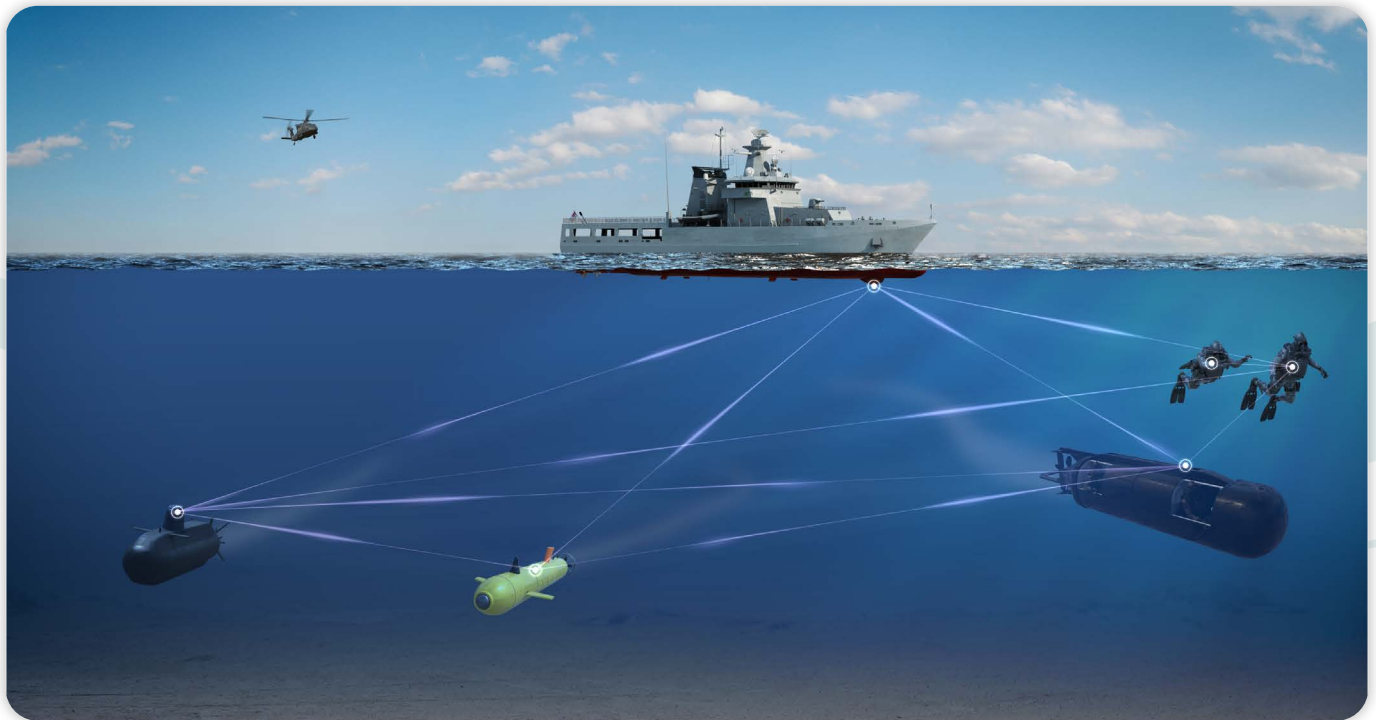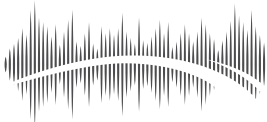# White Pointer™ - Underwater Communication System

Enabling Secure and Emergency Underwater Communication with Advanced Technologies

WhitePointer is a cutting-edge underwater communication system that enables reliable voice and data transmissions between surface vessels, submarines, and other underwater platforms such as SDVs, DPVs, AUVs and UUVs, and divers.

WhitePointer can be fully integrated with onboard communication systems, and supports underwater acoustic communication networks with multiple users. Implementing various types of modulations for data transmission, the system includes a high power, synthesized transceiver with preset frequencies. This allows for fast channel change by the Operator with no risk of error. Up to 30 frequencies can be programmed according to customer requirements.

Complying with NATO STANAG 1074, the system includes a unique monitoring feature that enables the user to listen to any transmission occurring at NATO standard frequency – while operating the transceiver at a different frequency. Additional special features include compensation for the loss of intelligibility due to propagation effects, repetitive playback of the last received message, and automatic recurrent transmission of vocal messages – such as safety warnings when towing a Variable Depth Sonar.

White Pointer™- Underwater Communication System

Configurable Operating and Communication Modes

- Voice communications
- Data transmission
- Pinger
- Broadband noise measurement
- Distance measurement including responder/ transponder
- Automatic recorder
- Automatic transmission of recorded messages
- Omnidirectional communications
- Morse code

Main Capabilities

- Multi-frequency transceiver
- Dual-channel monitoring
- Data link
- High data rate transmissions
- Low probability intercept of data transmissions
- Supports multiple-user networks
- Compensation for loss of intelligibility
- Emergency operation

Benefits

- Compact
- Integrates with onboard communication systems
- Enables listening to transmissions at NATO standard frequency
- Repetitive playback of last message
- Recurrent transmission of vocal messages
- Programmable, up to 30 frequencies
- Built-In Test (BIT)
- Compatible with NATO and Military underwater communication standards

Technical Specifications

- **Frequency**: 1 – 500 kHz (customizable)
- **Transducers**: Omnidirectional transducers (in compliance with NATO standards for underwater communication)
- **Power Supply**: Complies with vessel standard electrical requirements and definitions –
- **AC**: 115/230 VAC, 50/60 Hz, DC: 12/24 VDC
- **Battery**:28 V DC Internal lithium battery
- **Data Rate**: High volume data communication rate, up to 5000 bps
- **Interface**: Ethernet, Serial, USB, NMEA to Navigation system, Discrete (TTL) for sonar blanking, Audio for headset

About DSIT

A subsidiary of RAFAEL Advanced Defense Systems Ltd., DSIT Solutions Ltd. has, for the last three decades, developed and implemented comprehensive defense and protection solutions against the various underwater threats, focusing on three main types of solutions: Underwater Terrain Dominance, Anti-Submarine Warfare (ASW) and Acoustic Analysis & Trainer systems. Based on the company's wide range of capabilities, solutions and pioneering technology, DSIT's underwater sonar & acoustic analysis-based security systems as well as underwater system trainers for naval, HLS and energy industries have been successfully deployed by many sophisticated customers worldwide.