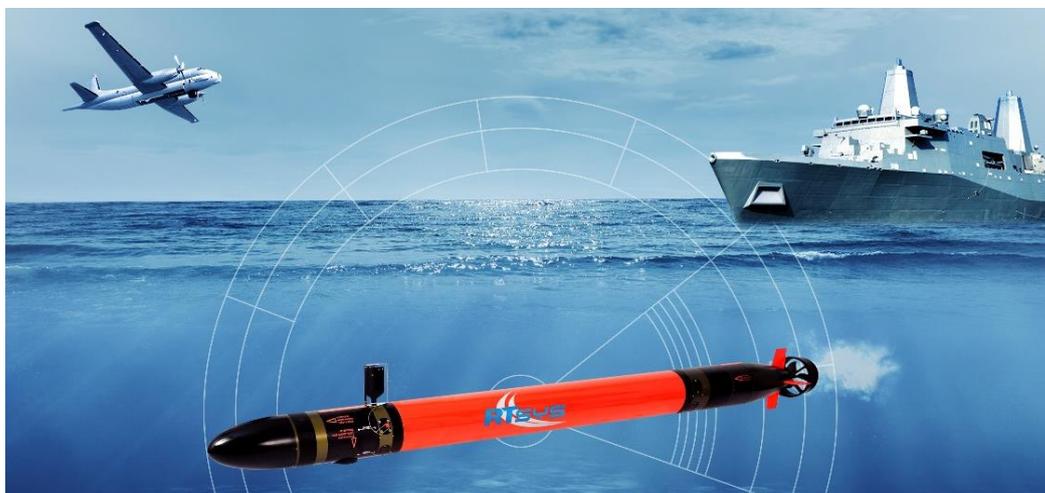


AUTONOMOUS PORTABLE VEHICLE RECOVERABLE TARGET

for Anti-Submarine Warfare training



Description

APV-RT is an autonomous, recoverable, acoustic and magnetic target dedicated to ASW training. It is operable for all kinds of platforms such as surface ships, submarines, helicopters and ASW aircraft.

Navigation and multiple types of training modes such as passive, active and combined acoustics can be programmed.

The target can also operate in Magnetic Anomaly Detection mode with a specific antenna connected to the APV-RT.

APV-RT is easy to operate and recover and is reconfigurable in one hour. The products are subject to export control restrictions.

Applications

- ASW training
- MAD training
- Torpedo training

Benefits

- Magnetic reconfigurable mode
- Remote control mode (radio, acoustic)
- Modern sonar compatibility

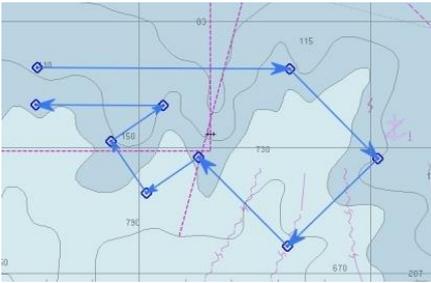
Characteristics

Powered by SDA

- Programmable missions
- Passive, active & combined acoustics
- Magnetic Anomaly Detection
- Easy to deploy and recover
- Reconfigurable in one hour

Size: L 2.27 x Ø 0.15 m – H max 0.21m
Weight: 36,5 kg
Power: 2000 Wh. rechargeable
Operating depth: from 3 to 300 m
Speed/Autonomy: 8 hours at 4 knots
 1 hour at 15 knots

• Programmable mission modes



The mission can be programmed either by:

- Configurable segments (heading, speed, depth, timeout)
- Way points (latitude, longitude, speed, depth)

The system is equipped with INS, GPS, DVL (Doppler Velocity Log) and pressure navigation sensors.

• Passive, Active & Combined acoustic training modes

APV-RT offers several types of acoustic training capabilities:

- Acoustic echo-repeater: (1 to 33 kHz)
 - 5 bands for active sonar frequency
 - 2 bands for head acoustic torpedo
 - Multi-echo artificial intelligence
- 6 narrow bands: 200 to 2000 Hz
- 2 broad bands: 1 to 8 kHz and 10 to 28 kHz
- Acoustic recorder that encrypts data



• Magnetic Anomaly Detection training mode

A specific magnetic antenna can be connected to the aft section of the APV-RT for the training of MPA operator near surface depth.

It is triggered remotely by acoustic command (DICASS Directional Command-Activated Sonobuoy System).

• Easy to use - Easy to deploy - Easy to recover

- Automatic start at programmed depth
- Defined GPS recovery point
- Signalizations:
 - Antenna mast (GPS, X-Band, Flash Light...)
 - Acoustic: specific pinger for homing (1 to 33 kHz)
- Acoustic command to stop the target
- Auto recovery mode on system failure
- Recovery from any type of boat



• Reconfigurable in one hour

In one hour it is possible to change the rechargeable battery, to download encrypted data on a rugged computer device and to reprogram the system.

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RTSYS activities

- Marine acoustics
- Embedded electronics
- Marine robotics
- Systems integration
- Customized R&D