

CHECK. TRAIN. ANALYSE.



Optional Features

SEMA



ASW & Torpedo Training Target

SEMA is a recoverable autonomous underwater vehicle designed for the training of in the fields of ASW and torpedo firing exercise. It can be easily deployed from a frigate or supply ship and recovered from a RHIB. **SEMA** is reconfigurable in one hour with spare batteries.

TRAIN AS YOU FIGHT.



Echo-repeater: 1 to 33 kHz
6 narrow bands from 200 Hz to 38 KHz
2 broad bands from 450 Hz to 23 KHz



10 hours at 4 knots
1.5 hour at 15 knots



300 meters immersion



Up to sea-state 4



Length: 213 mm; Diameter: 150 mm
Height: 285 mm; Weight in air: 33kg

Encryption Key

Encryption & deciphering keys can be created by the laptop before each mission to guarantee safety of the mission.

Evasive Maneuver

Simulate evasive maneuvers on specific acoustic command.

Adapted Buoyancy

Use SEMA in freshwater or at sea all over the world.

SIERA



Sonar Performances Measurement Tool

SIERA is a lightweight system for monitoring and/or measuring passive and active SONAR systems performances. This powerful and perfectly calibrated tool allows to easily carry out new systems validation campaigns as part of military acceptance tests or periodic equipment checks.

CHECK & TRAIN.



Emission Levels: 120 to 185 dB from 100 Hz to 3 kHz
185 dB from 3 kHz to 20 kHz
185 to 170 dB from 20 kHz to 35 kHz



SIERA is composed of 4 subsystems: one light towed body; two 250m electrical cables equipped with water-proof plugs; one Acquisition and Generation unit (AGU); one processing and visualizing unit;



Max operating depth: 500m
Max towing speed: 10 knots

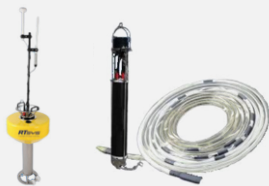


Towed body length: 1312 mm;
Diameter: 205 mm; Weight: 19 kg

Acoustic Level Measurement

Accurately determine acoustic levels transmitted by an active SONAR (mind that this option is subject to export restrictions).

VERTHY



Acoustic Signature Acquisition

Easy to handle and deploy, **VERTHY** allows acoustic signature rapid acquisition in the far field of a surface vessel or a submarine. It is divided into 3 functional subsystems: 1 vertical antenna with 15 preamplified hydrophones, 1 acoustic recorder moored to a surface buoy and 1 laptop for remote control and tracking.

ACQUIRE & ANALYSE.



Acoustic acquisition: 15 hydrophones
Bandwidth: 40 Hz to 20 kHz



The acoustic recorder is moored to a surface buoy. GPS position transmitted by radio link (up to 20 km).



15 hours autonomy



Up to sea-state 3





























Antenna | Length: 17 m; Diameter: 3.1 cm
Recorder | Length: 55 cm; Diameter: 12 cm
Buoy | Length: 1m; Diameter: 0.6 m

Submarine Acoustic Signature Acquisition

Recorder equipped with an omnidirectional transducer for the underwater mobile's trajectory.

Functionnalities

	SEMA	SIERA	VERTHY
Acoustics			
Acoustic Recording			
Repeater & Responder	 <i>Repeater only</i>		-
Noisemaker			-
Positioning			
GPS			
Pressure Sensor			-
GeoSys Remote Control		-	
Communication			
UHF/VHF Transmission		-	
WiFi Transmission	 <i>optional</i>	-	
Ethernet			
Navigation			
Inertial Navigation System (INS)		-	-
Doppler Velocity Logger (DVL)		-	-

RTSYS

Underwater Acoustics & Drones



Intertek



COFRAC

POWERED BY SDA®

Trusted by Navies Worldwide



MINISTÈRE
DES ARMÉES

Liberté
Égalité
Fraternité



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FIND YOUR APPLICATION



ASW
Training



Torpedo
Exercise



Operator
Training



Acoustic Systems
Check &
Measurement



Acoustic
Signature
Acquisition

ANTI SUBMARINE WARFARE

2020 Range