Variable Depth Sonar (VDS) CAPTAS-1
The most compact and modular sea-proven solution for effective Maritime Security Operations missions

- More than 60 CAPTAS systems are in operation across 10 member navies of the CAPTAS Users’ club.
- Operational at sea since 2002 on-board more than 10 different types of platform.
CAPTAS family/
CAPTAS-1
World’s favourite and most sea-proven low frequency active and passive VDS

Presentation
• Compact with high performance.
• Medium range simultaneous active and passive 360° surveillance and analysis (including LOFAR & DEMON).
• Permanent all-round torpedo alert.
• Simple, light and rugged VDS deployable at optimum depth to overcome harsh propagation conditions and surface-layer problems inherent to Hull-Mounted Sonars.
• Deep water capable thanks to low frequency and long pulses.
• Low reverberation effect due to wide bandwidth.
• Multistatic interoperability with CAPTAS family VDS, Thales Hull-Mounted Sonars (HMS) family, FLASH dipping sonar and Sonoflash sonobuoy, together providing the best performing compact Anti-Submarine Warfare Sonar Suite for OPV, light frigates and large Unmanned Surface Vehicles.

MAIN FEATURES
System features
• Easy installation thanks to the modular design.
• Mission module for cross decking (optional).
• Integrated on-board training capability.
• Performance prediction function to optimize sonar use.
• User-friendly HMI, same as HMS family, with 3D analysis and chart overlay to increase situation understanding.
• Guard depth function.
• Mammals safe: adjustable source level.

Transmit array features
• One Free Flooded Ring transmit array.
• Omni-directional low frequency transmission.

Receive array features
• Triplet array to instantly resolve left/right ambiguity.

OPERATIONAL BENEFITS
Detection range: Typical up to 30 km
Functions: Concurrent Active & Passive surveillance and torpedo warning + analysis + audio
Accuracy: <100 m ≤1°
Operational limits: Up to Sea State 6
Operating depth: Up to 220 m depth

TECHNICAL FEATURES
Active
• Frequency: Below 2 kHz
• Bandwidth: Wide FM
• Pulse modes: FM, CW, COMBO
• Pulse length: Up to 8 s

Passive frequency: Exceeding 4 kHz

INSTALLATION / MODULARITY
• Footprint: < 16 m² (including maintenance area)
• Weight: 7.3 t on the quarterdeck

MISSION MODULE (optional)
• Footprint: 3 x 10 ft ISO containers

Compatible with the Thales BlueScan integrated multi-sensors acoustic system