

TETRAPULSE 300



Underwater detection, classification, localisation (DCL)

Real-time electric impedance seabed imaging

Centimetric spatial resolution: “Super-Classification”

TETRAPULSE 300 is the world’s first compact active & passive electric sensor based on the ‘active electrolocation’ patented technology **CEDAR (Controlled Electric Detection And Ranging)**.

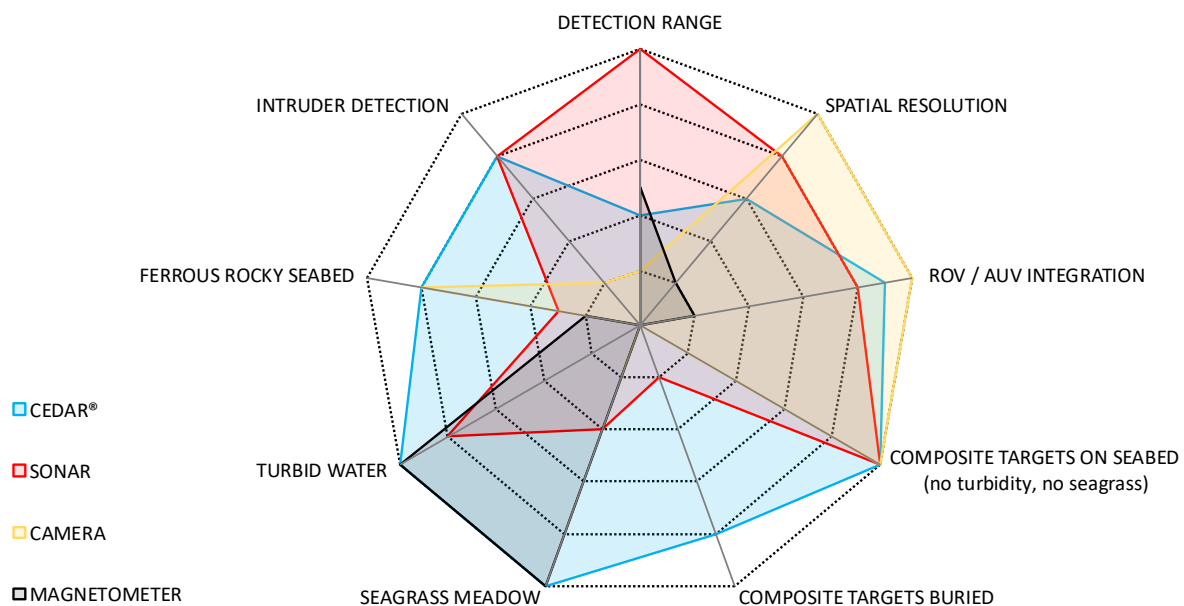


APPLICATIONS

- Mine warfare
- Underwater Intruder detection
- Cable and pipeline surveillance
- UXO survey
- Environmental survey
- Oceanographic survey
- Marine archeology
- Fisheries
- Seabed minerals

CEDAR® TECHNOLOGY BENEFITS

- Detection of any metallic and non-metallic objects, buried and non-buried
- Highly efficient in complex environments in which video and acoustic are inefficient: turbid water, rocky seabed, seagrass meadow, noisy acoustic environment, lakes, rivers, ...
- Integration onto any infrastructure and vehicles (AUV, ROV, ROTV, crawler...)
- NATO Standard and dedicated output data format



TECHNICAL SPECIFICATIONS

Array configuration	2 to 4 electrodes
Operational frequency range	100Hz-25kHz
Maximum emitted signal	2 Amps / 24V

MECHANICAL SPECIFICATIONS

POD dimensions	450mm * Ø145mm
POD weight in air / water	6.5Kg / 1.3 Kg
Electrode dimensions	120mm * Ø90mm
Electrode weight in air / water	0.85Kg / 0.35Kg
POD to electrode cable length options	1.5 to 7m on demand
Material	Aluminium
Electrode's connectors options (all SubConn)	Straight or right angle
Depth rating	300m

INTERFACES SPECIFICATIONS

Ethernet	10/100 Mbits, UDP/TCP (client / server)
Ctrl/Cmd	MINI1 protocol
Maximum data acquisition rate	100Hz
Real time data output	NMEA UDP for 3 rd party georeferenced data visualisation
Internal data storage	SD card
Power supply / average consumption	20 - 48 VDC / 50 W

