

Underwater detection, classification, localisation (DCL)

Real-time electric impedance seabed imaging

Centimetric spatial resolution: “Super-Classification”

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

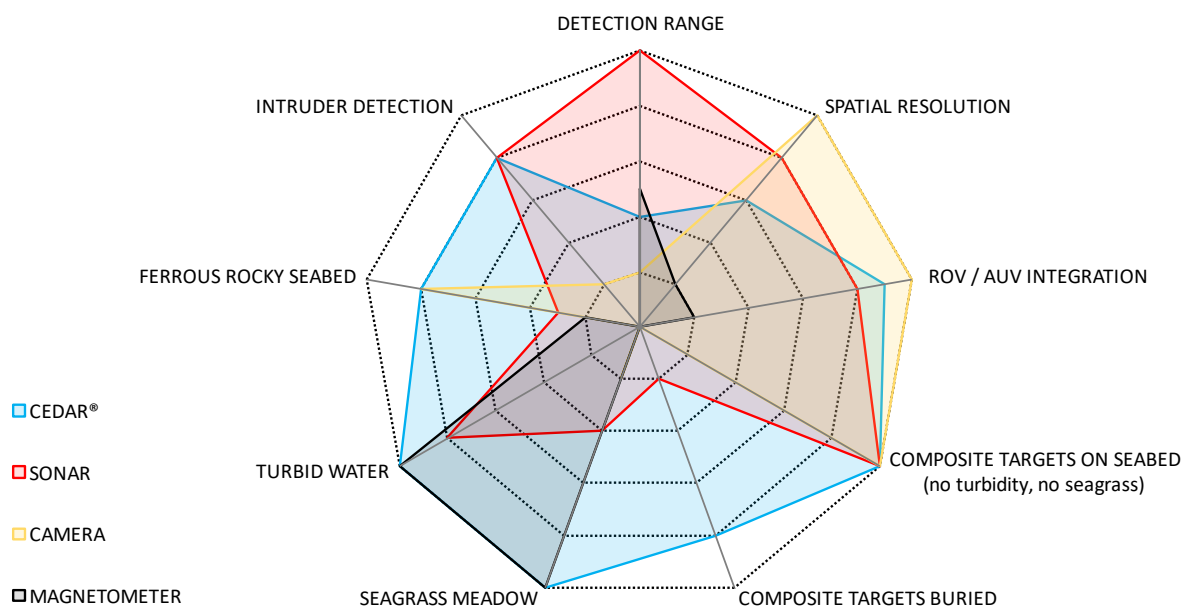


APPLICATIONS

- 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 8 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 (6000m option)

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 / consumption	20 - 48 VDC / < 50 W

