

OSEAN

UNDERWATER TECHNOLOGY



OCEANOGRAPHIC PROFILER

The profiler has been developed with our partner laboratory GEOAZUR and supported by a prestigious Advanced Grant from the European Research Council.

APPLICATIONS

- Oceanographic Research
- Environmental Seismic Surveillance
- Underwater acoustics

FEATURES

- Autonomy up to 5 years
- Submersible to 3000m
- Up to 7kg of sensors payload
- CTD & Multi Sensors
- Bi-directional Communication Iridium
- GPS localization
- Rugged Lightweight Housing



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TECHNICAL SPECIFICATIONS

Dimension (LxD):	850mm x 630mm
Weight in Air:	50kg
Weight in Water (sea water):	Adjustable
Maximum Operating depth:	3000m
Available Power:	18MJ (320Ah)
Profiles capacity:	Up to 300 cycles
Sensors Payload:	7kg
SENSORS	
PRESSURE:	0 – 3000m
Accuracy:	0.2%FS
CONDUCTIVITY:	On request; 0 – 75mS/cm
Accuracy:	±0,0018mS/cm
Resolution:	0,002mS/cm
TEMPERATURE:	-2°C – +35°C
Accuracy:	±0,01°C
Resolution:	0,001°C
ACOUSTICS	
Hydrophone:	1 standard and up to 4 on request
Bandwidth:	0,1Hz to 50kHz
Programmable Gain control:	0 to +70dB
Analog to Digital converter:	1 or 4 synchronous
Full scale sound pressure level:	180dB ref 1µPa
Resolution:	24bits
Sample rate:	128ksps; up to 625ksps*
	*on request for bandwidth up to 260 kHz.
OTHERS SENSORS:	
SUNA, Oxygen Optode, Ocean colour radiometer...	All RS232 underwater sensors
Data logger:	SDHC card on option
Communication:	Iridium
Localization:	GPS WAAS/EGNOS compatible
Autonomy:	Up to 5 years