



VERSATILE DATA LOGGERS

Based on our expertise in underwater listening stations for Navy submarines, the OSEAN versatile data logger is a high quality data, ultra low power and cost effective underwater acoustic acquisition system used for applications that require underwater sound recording.

APPLICATIONS

- Ambient Noise Measurement
- Cetacean Research
- Environmental Monitoring

KEY FEATURES

- High quality data
- Configurable power saving mode
- Versatile and configurable system
- Recording and streaming data mode
- Embedded signal processing
- Intuitive user Web server interface

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Simplified joint stock company with registered capital of 77000€

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TECHNICAL SPECIFICATIONS

	Ocean Bottom Data Logger	Surface Data Logger
Hydrophone Channel input	2	
High pass filter	7Hz	
Anti aliasing low pass filter	0,42 x Fs	
Gain setting	+20dB to +70dB by 10dB steps	
A/D converter	24 bits	
Samples rate	25 kSps to 312,5 kSps	
Noise level	< -160dBV/√Hz	
<i>HYDROPHONES *</i>		
HTI-96-Min: Max level (dB ref.1μPa)	185	
HTI-96-Min: Noise level (dB ref.1μPa/√Hz)	40	
Neptune D140: Max level (dB ref.1μPa)	175	
Neptune D140: Noise level (dB ref.1μPa/√Hz)	60	
<i>* Other hydrophones and sensibility range on request</i>		
Memory	8 SD card slots	
Recording Data	Up to 1TB (with 128MB SDXC Class 10 card)	
Acoustic Data format	Wave, 32bits	
Non acoustic Data format	ASCII	
Streaming Data	Up to 100m Ethernet cable	Up to 100m Ethernet cable / wifi
Embedded Signal Processing (Option)	PSD - 256 to 4096pt window size – Level Threshold - 10 peak detection	
User interface	Intuitive Web server	
RTC accuracy / Synchronization	+/-2ppm / GPS	+/-2ppm / GPS
Monitoring	Voltage / current / temperature / humidity	
Localisation	-	GPS / Flasher
Power	50 alkaline D cells (Up to 1kW/h)	
Stand-by mode Consumption	< 3,5mW	
<i>POWER LONGEVITY (half duty cycle)</i>		
1 channels - 100kSps: Record / Streaming	100 days / 60 days	70 days / 14 days (wifi-GPS-Flasher)
2 channels - 312,5kSps: Record / Streaming	45 days / 40 days	40 days / 10 days (wifi-GPS-Flasher)
Material	Acetal	Acetal / aluminium
Wheight in air / in seawater	17kg / 3kg	22kg / -
Dimensions	Ø 125mm D x 1200mm L	Ø 700mm D x 1200mm L
Max. Depth	100m	-
Operating temperature	-5 to 40 °C	-5 to 40 °C
Storage temperature	-10 to 55 °C	-10 to 55 °C