



## DEEP SEA 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
- 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
- Max Depth 3000m / 6000m

## TECHNICAL SPECIFICATIONS

Hydrophone Channel input	2
High pass filter setting	Active Butterworth 2nd order, 100Hz / 1kHz / 3kHz
Low pass filter setting	Passive Butterworth 10nd order, Bypass / 20kHz / 50kHz
Anti aliasing low pass filter	0,42 x Fs
Gain setting	+0dB to +70dB by 10dB steps
A/D converter	24 bits
Samples rates	25 kSps to 312,5 kSps
Max input level	1V <sub>RMS</sub>
Noise level	< -160dBV/√Hz
<b>HYDROPHONES</b>	
ITC 8095A: Power supply	24V <sub>DC</sub>
ITC 8095A: Max level (dB ref.1μPa)	190
ITC 8095A: Noise level (dB ref.1μPa/√Hz)	30
<i>* Other hydrophones and sensibility range on request</i>	
Memory	1 μSD card slot
Extended memory PCB (in option)	8 SD card slots
Recording Data	128MB, with SDXC Class 10 card. (Up to 1TB with extended memory PCB)
Acoustic Data format	Wave, 32bits
Non acoustic Data format	ASCII
Streaming Data	Up to 100m Ethernet cable
Embedded Signal Processing (Option)	PSD - 256 to 4096pt window size – Level Threshold - 10 peak detection
User interface	Intuitive Web server
RTC accuracy (Battery backup)	+/-2ppm
Monitoring	Voltage / current / temperature / humidity
Towed Power Supply	24V <sub>DC</sub> (20 to 30V <sub>DC</sub> )
Battery Power Supply	18V <sub>DC</sub> (10 to 24V <sub>DC</sub> )
Stand-by mode Consumption (towed/battery)	< 1W / 5mW
Operating mode Consumption (towed/battery)	< 6W / 5W
Material	Titanium TA6V
Wheight in air / in seawater	6kg / 1,5kg
Dimensions	Ø 132mm D x 440mm L
Max. Depth	3000m (6000m option)
Operating temperature	-5 to 40 °C
Storage temperature	-10 to 70 °C

