



Underwater acoustic recorder

with high acoustic performance and large storage capacity allowing to monitor any underwater sound



Key specifications

- ✓ High dynamic range: 110 dB
- ✓ Raw data storage (.wav) on 24 bits
- ✓ Hearing frequency up to 200 kHz
- ✓ High storage capacity up to 16 TB
- ✓ Self noise below sea state zero
- ✓ Software configurable analog amplification gain and analog high pass filter

- ✓ Long-term deployments : continuous recording up to 6.9 months
- ✓ Configuration over WiFi
- ✓ Clean and secure access to SD cards and energy (without contact with electronics)
- ✓ Remote software update of the recorder

The DORI line

- 4 Models
- 3 Power approaches
- 2 Frequency versions

Options

- Remote hydrophone
- Temperature sensor

L model - Alkaline cells

M & L models - Lithium battery

M model - Alkaline cells

S model - Alkaline cells
or Lithium battery

XS model - No power
To be integrated or
for wired observatory



All included!

Hydrophone, Power, Storage,
Pressure relief valve,
DaViS

Advantages

Easy to use and safe design

To ensure the safety, a **pressure relief valve** is present on all systems. An optional **vacuum kit** allows you to test the watertightness of the device before deployment.

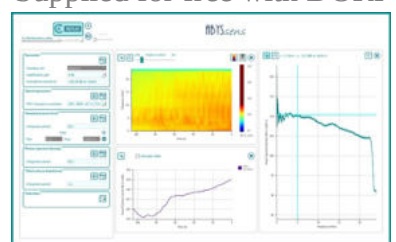
Thanks to **WiFi**, no cables are needed for configuration. To start recording, nothing easier, just turn the selector to the REC position.



DaViS

Data Visualization Software

Supplied for free with DORI



Full technical specifications of DORI

	XS	S	M	L
References (base)	DORI_recorder_XS	DORI_recorder_Sb DORI_recorder_Sc	DORI_recorder_Mb DORI_recorder_Mc	DORI_recorder_Lb DORI_recorder_Lc
Acoustics				
ADC	24 bits			
Dynamic range	110 dB			
Analog gain	0 dB or 12 dB (Software configurable)			
Analog high pass filter	10 Hz or 370 Hz (Software configurable)			
Sampling rate	LF : 31.25 kSps, 62.5 kSps, 125 kSps HF : 31.25 kSps, 62.5 kSps, 125 kSps, 250 kSps, 360.36 kSps, 400 kSps			
RTC accuracy	1 ppm			
Hydrophone				
Low frequency [LF]	Hydrophone HTI-96-MIN Low noise - Analog bandwidth : 2 Hz – 30 kHz			
High frequency [HF]	Hydrophone HTI-99-UHF Low noise - Analog bandwidth : 2 Hz – 250 kHz			
SH for LF & HF	Standard : -185 dB re 1V/μPa, other on request			
Recording configuration				
Recording mode	Continuous or duty cycling			
Scheduled mode	Immediate or scheduled start			
Storage	Raw data [.wav] with selectable file duration			
Configuration	WiFi (without opening the recorder)			
Memory (internal micro SD Cards)				
Maximum storage size	4 TB		4 TB [LF] - 10 TB [HF]	10 TB [LF] - 16 TB [HF]
Power supply (external power supply, internal UN38.3 air transportable rechargeable battery or alkaline cells)				
Internal power supply	No internal power, external only	Lithium battery or 10 alkaline C cells	Lithium battery or 24 alkaline D cells	Lithium battery or 48 alkaline D cells
Maximum autonomy for continuous recording				
Battery version	-	11 days	2.9 months	5.6 months
Cells version	-	17 days	3.4 months	6.9 months
Mechanical				
Diameter	90 mm		145 mm	
Length (based on LF integrated) HF: +23mm; Remote: -42mm	150 mm (without connector)	277 mm	Battery version : 490 mm	
Battery version weight	0.7 kg	1.5 kg	6.5 kg	9.0 kg
Cells version weight (with cells)		1.9 kg	7.1 kg	12.0 kg
Pressure relief valve	Included			
Maximum operating depth	300 m		250 m	
Available options				
Hydrophone connection	Integrated or remote with Subconn connector			
Temperature sensor	Accuracy: ± 0.1 °C (between -5 to 50 °C)			
Protective cage for hydrophone	Provides hydrophone shock protection, increases the recorder LF length by 45 mm			
Mooring brackets	Allows insertion into a mooring line			
Transport case	414 x 345 x 174 mm		Cells version: 502 x 415 x 246 mm Battery version: 687 x 528 x 276 mm	687 x 528 x 276 mm
Vacuum kit	Compatible with all DORI recorders, allows watertightness test			

