DH-4059 Digital Hydrophone



Low-Noise Integrated Digital Hydrophone

High-fidelity autonomous underwater acoustic sensing & data logger for faint marine signal recording

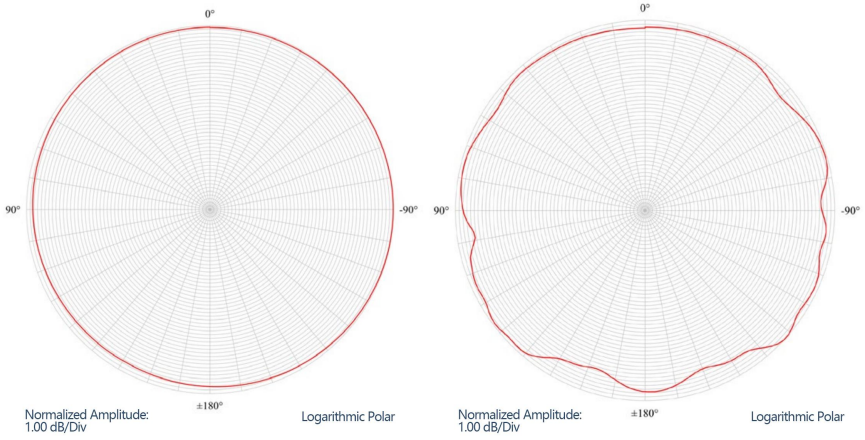
6000 m Depth Rating | 10 Hz ~ 100 kHz | 24-bit | Ultra Low Self-Noise

Overview

DH-LN100 is a highly integrated self-contained underwater acoustic sensor and data recorder. It independently completes underwater acoustic signal capture, digitization and local storage. Featured with wide bandwidth, ultra-low self-noise, large dynamic range and high sampling precision, DH-LN100 can reliably capture faint signals including ocean ambient noise, high-frequency marine bioacoustics and offshore engineering noise. It maintains high-fidelity recording performance even in complex, noisy underwater environments.

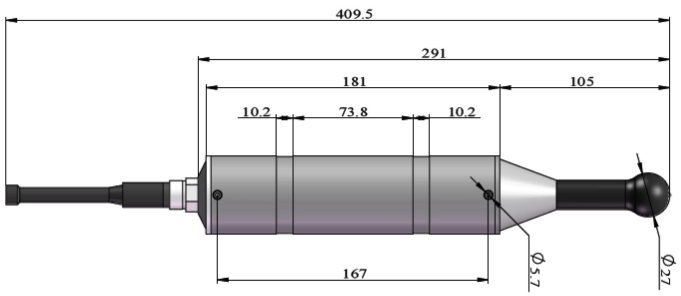
It serves marine scientific research, ocean environmental monitoring, offshore energy exploration and underwater security. Widely adopted for deep-sea expeditions, marine ecological surveys and offshore wind farm noise assessment, it meets industry requirements for high-precision, reliable and time-continuous underwater acoustic data acquisition.

Horizontal / Vertical Directivity Curve



Horizontal Directivity　　Vertical Directivity

Dimension Drawing



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Technical Specifications

Item	Specification
Working Bandwidth (-3 dB)	10 Hz ~ 100 kHz
Sampling Rate	512 / 256 / 128 / 64 ksps, software selectable
ADC Resolution	24 bit
Self-noise @1 kHz	31 dB (re: $\mu Pa^2/Hz$)
Sensitivity @1 kHz	-174 dB (re: 1 V/µPa)
Dynamic Range	140 dB
Onboard Storage	Default 512 GB, Max 1 TB
Interface	100 Base Ethernet / RS485
Supply Voltage	DC 10 V ~ 18 V
Typical Power Consumption	0.891 W @512 ksps 0.756 W @256 ksps 0.714 W @128 ksps 0.655 W @64 ksps
Standby Power	≤0.0004 W
Max Continuous Recording Time	32 h (4200 mAh battery, expandable)
Weight	920 g
Max Working Depth	6000 m
Operating Temperature	0 ℃ ~ 60 ℃

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