

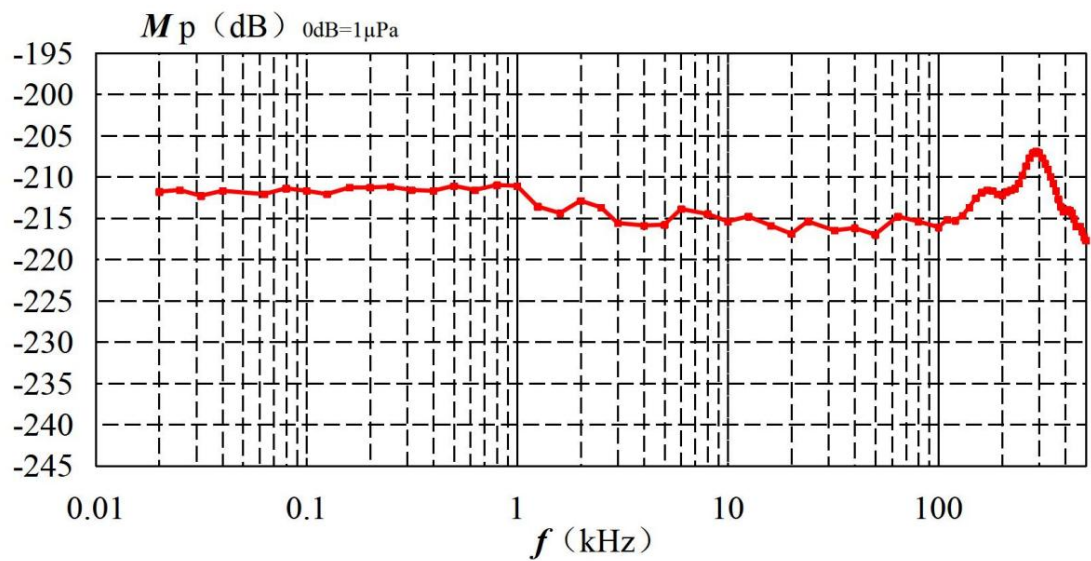
DH-4059 Digital Hydrophone



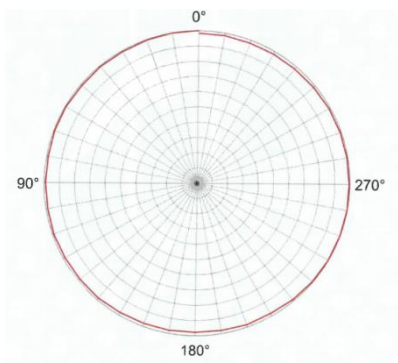
Technical Specifications

SPECIFICATIONS	
Acoustic Specifications	
Operating Frequency	20Hz-200KHz
Maximum Sound Pressure Level (Clipping Limit)	220±3 dB re 1 μPa
Receiving Sensitivity	-215±3 dB re 1 V/μPa
Maximum Operating Depth	300 m
Dimensions	Φ 18.5×H105mm
Weight in Air	60g
Dimensions	Vulcanized component: Polyurethane rubber; Metal part: TC4 titanium alloy
Electrical Specifications	
Frequency Bandwidth	20 Hz to 200 kHz
Sampling Rate	up to 512 ksps
ADC Quantization	24-bit
Configurable Gain	-20 dB, 0 dB, 20 dB, 30 dB, 40 dB
Data / Control Interface	100 Mbps Ethernet (Fast Ethernet)
Time Synchronization	IEEE 1588 (PTP) / NTP
On-board Storage	Micro SD Card supported, up to 2TB
Operating Depth	300 m (Deeper options available on request)
Pre- amplifier	0 dB gain
Input Voltage	12 VDC (with real-time voltage monitoring)
Power Consumption	1.6 W (Typical)
Dimensions	Φ 50 mm × H170 mm
Weight in Air	500 g
Installation Method	
Standard Connector	Factory-standard 8-pin wet-mateable connector
Custom Connector Types	Available
Key Component Materials	
Cable Connector and Length	Customized according to customer requirements
Housing	316L / TC4

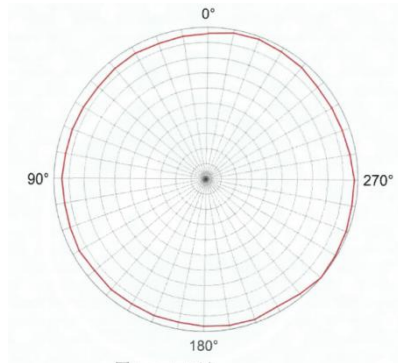
Typical Sensitivity Curve (without pre-amplifier)



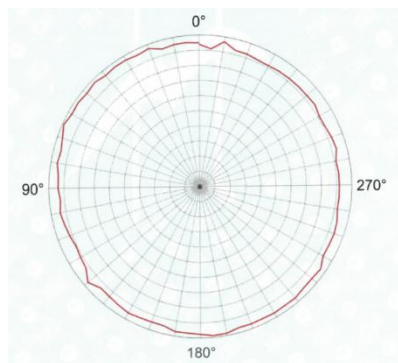
Horizontal Directivity Curve



-3 dB Beamwidth: 360° @ 30 kHz

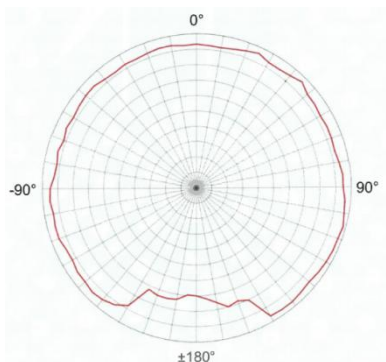


-3 dB Beamwidth: 360° @ 100 kHz

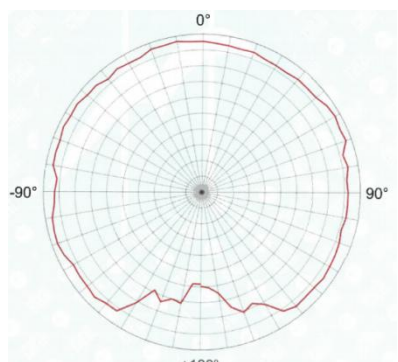


-3 dB Beamwidth: 360° @ 200 kHz

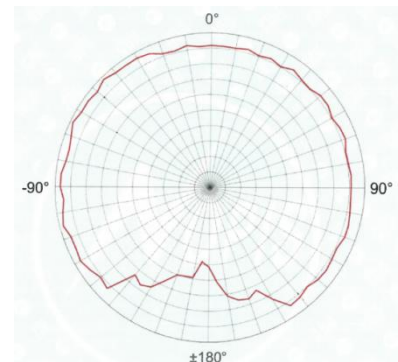
Vertical Directivity Curve



-3 dB Beamwidth: 300° @ 30 kHz



-3 dB Beamwidth: 290° @ 100 kHz



-3 dB Beamwidth: 280° @ 200 kHz