



## M8

The M8 is a high-frequency omni hydrophone and sound projector with a depth capability exceeding 3500 m. It can be purchased with or without a pre-amplifier, and can be packaged in various ways tailored to your application.



### Receive Characteristics

Acoustic sensitivity (1 kHz)	-200 dBV re 1 $\mu$ Pa (unamplified)
Frequency range	1 Hz to 150 kHz, ( $\pm$ 5 dBV)
Capacitance (1 kHz)	1.2 nF $\pm$ 15%

### Transmit Characteristics

Resonance frequency	138 to 158 kHz, depending on ceramic
TVR at resonance (dB re 1 $\mu$ Pa/V @ 1m)	147 dB re 1 $\mu$ Pa/V at 1 m
Bandwidth (-3 dB)	30 kHz
Horizontal Directivity	$\pm$ 1 dB (typical) up to 100 kHz
Electroacoustic efficiency	> 80% at resonance
Drive voltage	> 250 V

### Mechanical Characteristics

Size: diameter, length (one package type)	22 mm, 110 mm
Operating and survival depths	> 3500 m
Operating and storage temperatures	-40 to +70°C
Electrical resistance between leads	> 1G $\Omega$ @ 20 °C and 50% humidity
Fluid compatibility	Water, and Isopar (depends on leads)