

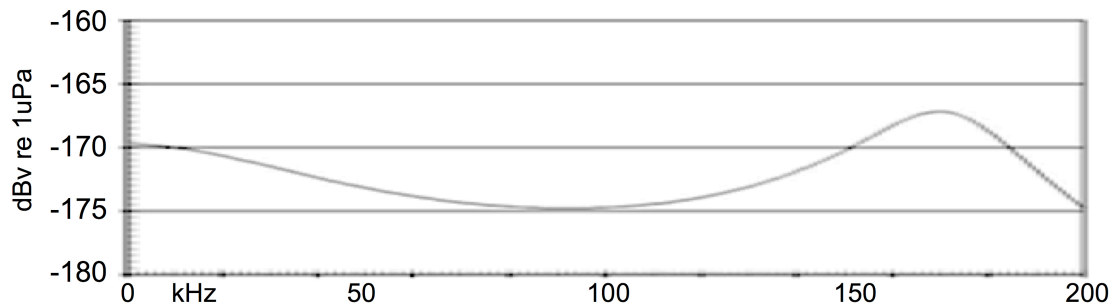
Specification

icListen HF 200 kHz
Broadband Smart Hydrophone

The icListen HF Smart Hydrophone is a digital hydrophone that processes and stores acoustic data. It transmits waveform or spectral data over its data link in real-time.

Performance	Value
Peak Measured Signal	175 dB re.1uPa
Frequency Response	10 Hz to 100 kHz ± 3 dB 10 Hz to 200 kHz ± 4 dB
Noise	30 dB re.1uPa ² /Hz at 10kHz
Sensor Receive Sensitivity - see chart for details	-171 dBV re.1uPa with pre-amp
Data Interface	Standard Ethernet Optional RS-232/USB

Receive Sensitivity for icListen HF



Ethernet access methods

- **Web browser** to view instrument status, configure Ethernet settings & power down
- Command telemetry via **RAW TCP**, to enquire status, change settings, poll for data. This mode is ideal for end user driver development.
- **SFTP or SCP** to manage files on instrument. Copy, & delete stored data files. Install firmware upgrade package. Edit instrument configuration file, used to set sample rate, logging options etc.
- Stream time series and FFT over UDP or TCP/IP socket. Used by the Lucy program, and can be used to develop user drivers.

Mechanical

Mechanical	mm
Overall length, including connector	267
Body and sensor element length	230
Body (can) only length	165
Body diameter	45
Sensor element diameter	20



Dimensions are the same for 200m and 3500m depth rated units.

Specification

Item	Description
Material	200m unit - Engineered plastic. 3500m unit - titanium.
Calibration	Done at low frequency in air. High frequency calibration measurements are available.
Depth Rating	The 200m units are tested to 500m, and 3500m units are tested to 5000m depth
Power	24Vdc \pm 15%, reverse polarity protected. Note: reversing polarity causes h/w reset. Unit draws less than 2W
Batteries	Lithium Ion 3.7V rechargeable, suitable for air shipping Capacity 2.6 A-h
Safety	Electrical interface is designed to survive miswiring. Isolation between DC power and the instrument or communication interface is greater than 100 M Ω . Designed to minimize electrolysis effects. Plastic units use brass connectors. Ti units use Ti connectors.
Connector	Standard instrument connector is SubConn MCBH-8M. Pinouts are available in the instrument user's guide.