

icListen HF

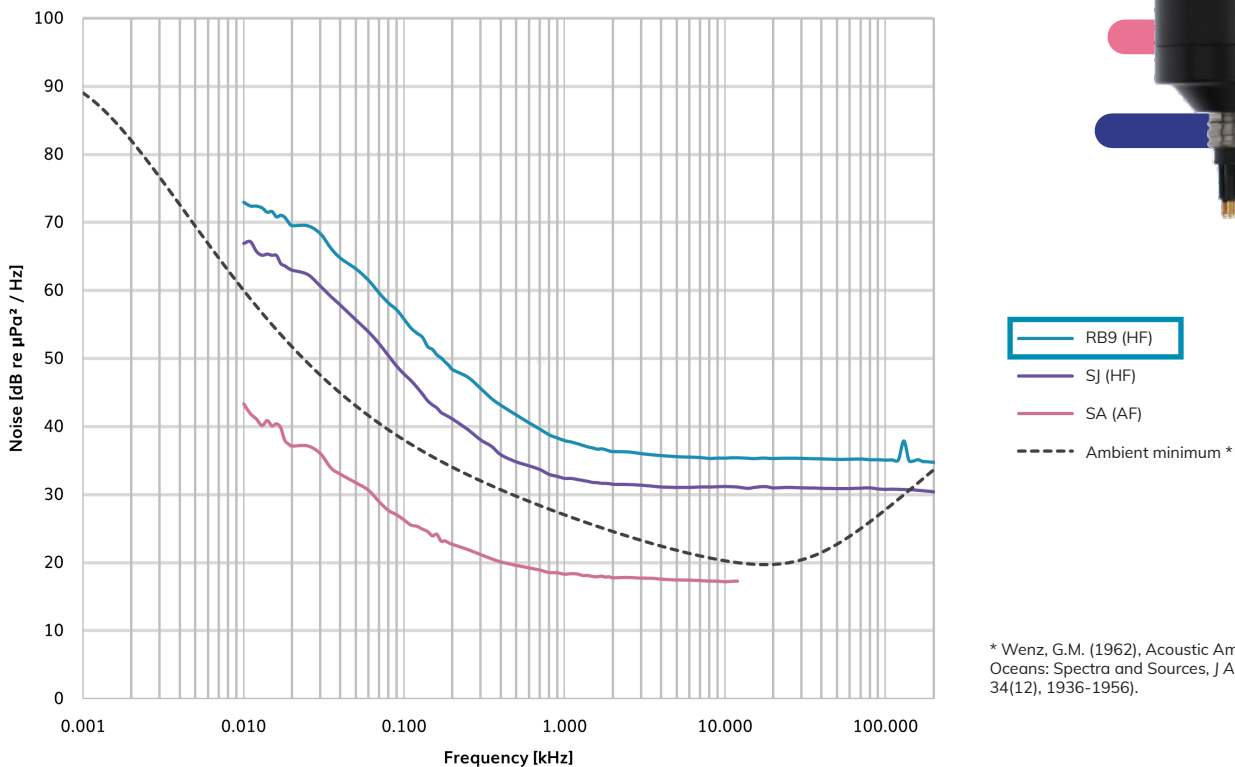
Accurate. Simple. Reliable.

The icListen Smart Digital Hydrophones are the industry's standard in digital marine acoustics. This compact, all-in-one instrument can process, stream, and record acoustic data, all in real-time. The icListen is fully calibrated, with rechargeable batteries, large memory, and internal processing of spectrum data and a built-in event detector.

Use the icListen as a digital hydrophone, acoustic recorder, or both simultaneously. Collect ocean sound data accurately, simply and reliably. Improve decision making and project success by choosing the icListen as part of your next deployment.



Compact and fast. Record, listen and analyze ocean data anywhere.



* Wenz, G.M. (1962), Acoustic Ambient Noise in the Oceans: Spectra and Sources, J ACOUST SOC AM, 34(12), 1936-1956.

| | RB | Units |
|-------------------------------------|------|----------------------------------|
| SIGNAL PERFORMANCE | | |
| Low Frequency Cutoff | 10 | Hz |
| ±3 dB Bandwidth | 200 | kHz |
| Usable Bandwidth | 200 | kHz |
| Maximum Data Sample Rate | 512 | ksps |
| Minimum Data Sample Rate | 1 | ksps |
| Resolution | 24 | bits |
| Minimum Self Noise | 36 | dB re $\mu\text{Pa}^2/\text{Hz}$ |
| Peak Input Level (μPa) | 184 | dB re μPa |
| Peak Input Level (Volts) | 6 | dBV |
| Voltage Sensitivity | -177 | dB re $\text{V}/\mu\text{Pa}$ |
| Digital Sensitivity, 24-bit | -48 | dB count/ μPa |
| Dynamic Range, 1.0 Hz Bandwidth | 147 | dB |

| | | |
|-------------------------------------|-----|-----------------|
| MECHANICAL | | |
| Weight (Plastic Case) [in air] | 478 | g |
| Weight (Plastic Case) [in seawater] | 137 | g |
| Volume (Displacement) | 341 | cm ³ |
| Overall Length, including connector | 318 | mm |
| Sensor Element Length | 117 | mm |
| Body (Can) Length | 165 | mm |
| Body Diameter | 48 | mm |

| | | |
|--------------------------------------|-------------|---|
| BATTERY BYPASS MODE | | |
| -12 V Power Supply Voltage | -14.8 ± 10% | V |
| -12 V External Power (no networking) | 1.7 | W |
| -12 V External Power (typical) | 1.9 | W |

| | | |
|-----------------------------|----------|----|
| SOFTWARE / INTERFACE | | |
| Internal Data Storage (GB) | 512 | GB |
| Communication Interfaces | Ethernet | |
| Lucy Software Support | Yes | |
| Streaming Data Protocol | TCP/UDP | |
| Web Server (HTTP) | TCP | |
| FTP, SFTP and SSH Console | TCP | |

| | | |
|-------------------------------------|---------|-------|
| POWER | | |
| Internal Battery Life* | 8 | Hours |
| Metallic Lithium Equivalent Content | 846 | mg |
| Lithium Watt Hours | 10.4 | Wh |
| Recommended Supply Voltage | 18 - 36 | V |
| Absolute Maximum Limit | 48 | V |
| External Power (min, no networking) | 2.1 | W |
| External Power (typical) | 2.4 | W |
| External Power (charging) | 3.8 | W |

With a 900m depth rating and a Teledyne RESON sensor, this icListen can easily stream and record high-resolution acoustic data in real-time.

