icListen HF

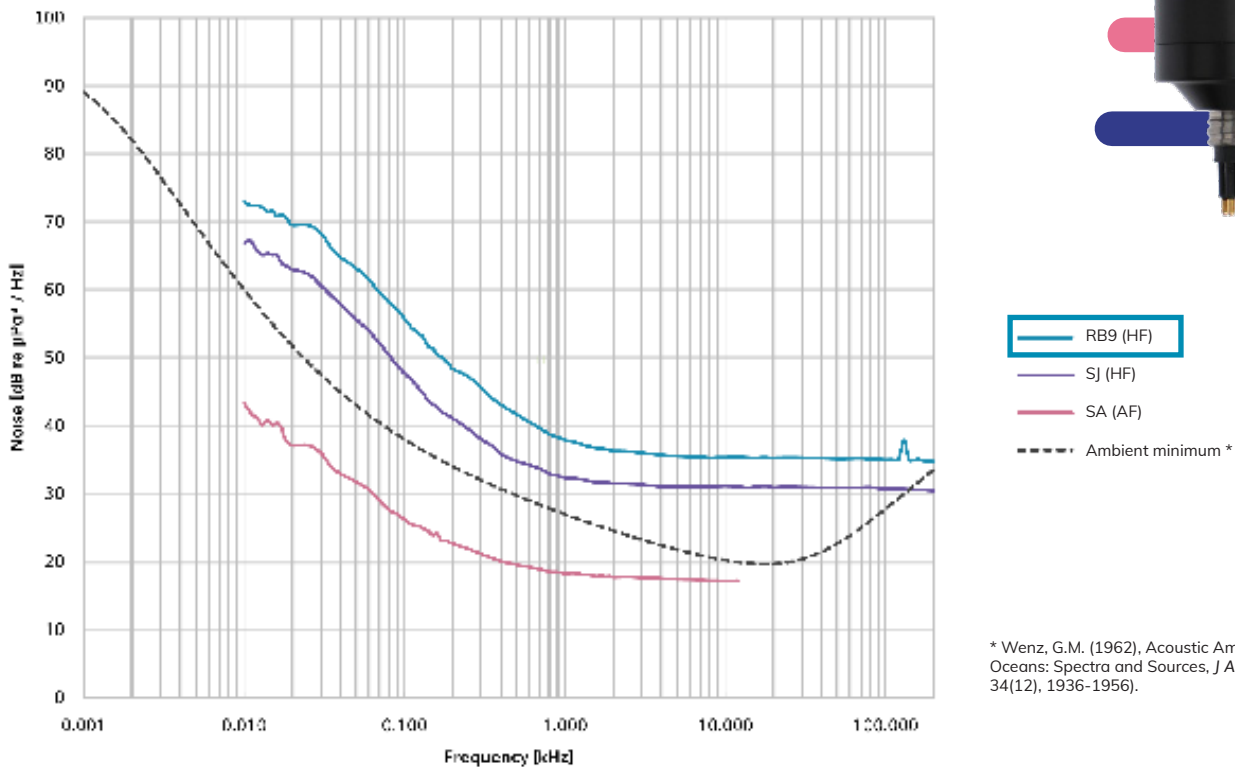## Accurate. Simple. Reliable.

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.

Legend:
- RB9 (HF)
- SJ (HF)
- SA (AF)
- Ambient minimum *

* 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 µPa²/Hz
Peak Input Level (µPa)	184	dB re µPa
Peak Input Level (Volts)	6	dBV
Voltage Sensitivity	-177	dB re V/µPa
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	cm3
Overall Length, including connector	318	mm
Sensor Element Length	117	mm
Body (Can) Length	165	mm
Body Diameter	48	mm
Operating Temperature	-5 to 35	Celcius

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

BATTERY BYPASS MODE		
-12 V Power Supply Voltage	-12 to - 14.8	V
-12 V External Power (no networking)	1.7	W
-12 V External Power (typical)	1.9	W
SOFTWARE / INTERFACE		
Internal Data Storage (TB)	1	TB
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