



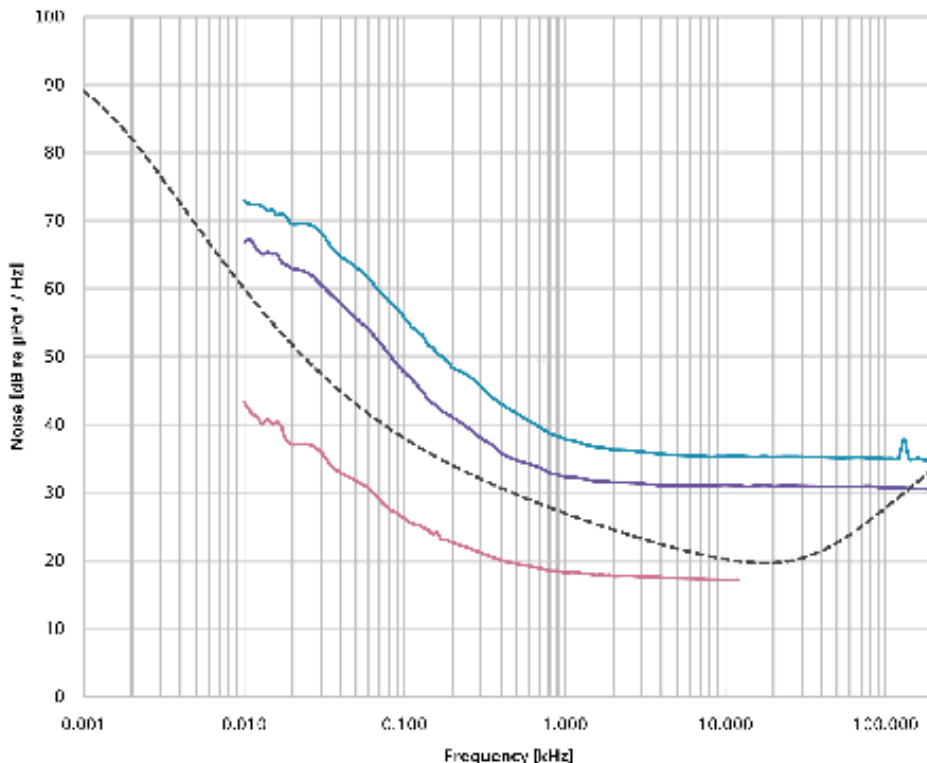
**Accurate. Simple. Reliable.**

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.**



- 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.

	SJ	RB	SA	Units
<b>SIGNAL PERFORMANCE</b>				
Low Frequency Cutoff	10	10	8	Hz
±3 dB Bandwidth	200	200	4	kHz
Usable Bandwidth	200	200	12.8	kHz
Maximum Data Sample Rate	512	512	32	ksps
Minimum Data Sample Rate	1	1	1	ksps
Resolution	24	24	24	bits
Minimum Self Noise	32	36	17	dB re $\mu\text{Pa}^2/\text{Hz}$
Peak Input Level ( $\mu\text{Pa}$ )	180	184	165	dB re $\mu\text{Pa}$
Peak Input Level (Volts)	6	6	6	dBV
Voltage Sensitivity	-173	-177	-159	dB re $\text{V}/\mu\text{Pa}$
Digital Sensitivity, 24-bit	-44	-48	-30	dB count/ $\mu\text{Pa}$
Dynamic Range, 1.0 Hz Bandwidth	147	147	148	dB
<b>MECHANICAL</b>				
Weight (Titanium Case) [in air]	1002	-	1045	g
Weight (Titanium Case) [in seawater]	670	-	686	g
Weight (Plastic Case) [in air]	579	478	632	g
Weight (Plastic Case) [in seawater]	220	137	273	g
Volume (Displacement)	342	341	368	$\text{cm}^3$
Overall Length, including connector	304	318	252	mm
Sensor Element Length	103	117	52	mm
Body (Can) Length	165	165	165	mm
Body Diameter	48	48	48	mm
Operating Temperature	-5 to 35			celcius
<b>POWER</b>				
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
<b>SOFTWARE / INTERFACE</b>				
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			
<b>BATTERY BYPASS MODE</b>				
-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