

LDHA-2523

LOW POWER DIGITAL HYDROPHONE ARRAY



32 Digital
Hydrophones
10 - 1400 Hz



Power
consumption
< 3 W



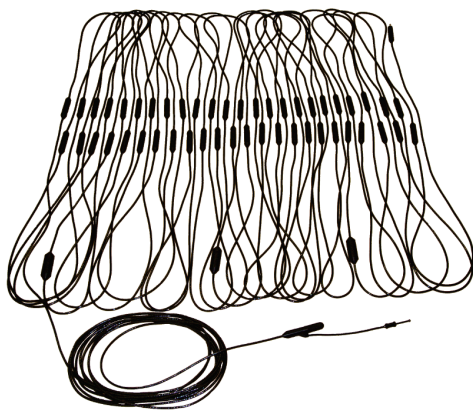
Input referenced
noise below SS0



55 m long array
weighing
26 kg in air



150 m operating
depth (300 m
survival)



DESCRIPTION

The LDHA-2523 is a rugged, bottom-lay, passive acoustic line array with 32 digital hydrophones. The hydrophones are evenly spaced by 1.5 m along the array cable and are simultaneously sampled with a bandwidth of 10 - 1400 Hz. Gain is software selectable from 20 - 60 dB in 10 dB steps. This array consumes less than 3 W of power while maintaining an input referenced noise level below Sea State 0.

- Autonomous detection and recording modes supported for battery deployed systems
- Rapidly deployable from a small craft without special handling equipment



LDHA-2523

SPECIFICATIONS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
	Hydrophone Spacing			1.5		m
P _{IN}	Total Power consumption	During normal operation			3	W
BW	Bandwidth		10		1400	Hz
e _n	Noise floor	40 dB gain 10 Hz			35	dB re 1 uPa/√Hz
		100 Hz			29	
		1000 Hz			28	
	Maximum Unclipped Tonal Signal	500 Hz, gain = 20 dB		190		dB
	Gain Matching	500 Hz		±0.2		dB
	Selectable Gain Range	In 10 dB steps	20		60	dB
SR	Sampling Rate			3000		Sps

CONFIGURATION OPTIONS

SPECIFICATION	OPTIONS
Number of Hydrophones	32 48
Deployment Configuration	Shore Teathered RF Buoy



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