AcSense-XCH

Product Description: Need multi-channel acoustics and environmental sensing together in one package? The AcSense-XCH is an underwater acoustic data recording or streaming system that includes an AcSense-ADM system for up to 8 or up to 16 channels of synchronous 16 bit acoustic data recording at 52 kHz, customizable to take nearly any underwater environmental sensor.

Standard Configuration: Standard features include 8 or 16 channel ADC for use with voltage or current mode hydrophone arrays, internal IMU and vacuum sensor, internal RTC or GPS/RTC, and a 122 Wh battery for 48 hours of continuous recording in a 4" diameter, 8" long housing rated to 500 m.

Customization: Need something a little different? We can help you design the sensing system for your application with custom arrays, connector configurations, and sensors. Example additional sensor options commonly requested include internal magnetometer, single-beam echosounder, Pressure/Temperature sensor, GPS, Iridium, acoustic modem, 3-axis underwater geophone, viewport and internal camera, DO, and CTD.

AcSense-8CH/AcSense-16CH Standard Configuration and Options			
Property	**AcSense-8CH**	**AcSense-16CH**	**Options**
Hydrophone array connector	MCBH9F connector for 8 channel arrays; Cobalt 8-pin connector for 4-7 channel arrays.	2x MCBH9F connector	Other underwater connectors, custom arrays.
Housing	4" diameter, 8" long housing (500 m rating)	4" diameter, 12" long housing (500 m rating)	2" diameter housing, 3" diameter housing, deckbox options, custom housings
Power	122 Wh Lithium-Polymer battery		Larger batteries, duty cycling, external power connectors, battery merge options
Battery Life	65 Hours	48 Hours	
Console connector	8-pin Cobalt pigtail for serial + charging + ethernet; FTP file transfer.		Connector customization.
On/Off	Blue Robotics external switch		Reed switch, no switch.
Dry sensors	RTC, IMU, Gyro, Vacuum, Temperature		Magnetometer, GPS, camera, iridium, acoustic modem.*
Wet sensors	Bar 100 Blue Robotics Pressure/temperature sensor.		Geophones, echosounder, CTD, DO, acoustic modem transducer, other environmental sensors.*

* Custom sensor integration available; battery life varies with sensor payload.