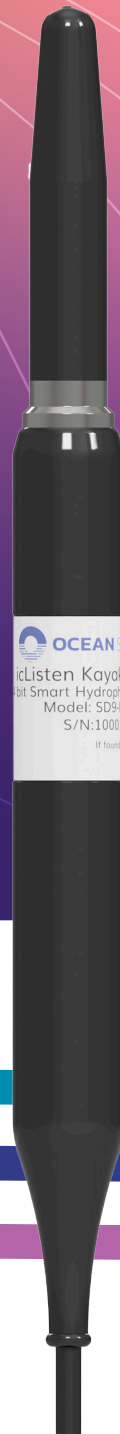# icListen Kayak

The First in a New Generation of Smart Hydrophones

Simple and small enough to deploy off the side of your kayak, with innovative digital technology that provides users with real-time HD acoustic data

The icListen Smart Hydrophones are the industry's most sensitive broadband digital hydrophone. This compact, all-in-one instrument processes data while streaming HD acoustic data in real time.

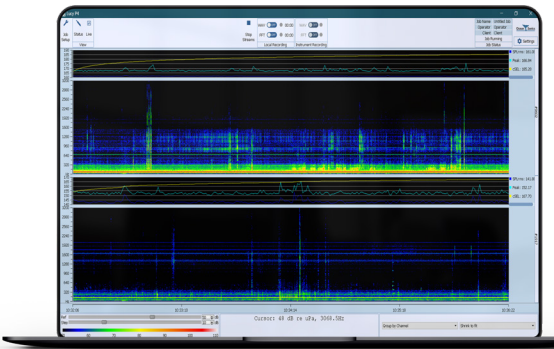*Listen Now. The Ocean Sonics Way.*

icListen Kayak Key Features

- Bandwidth 10 Hz to 200 kHz,
- 24-bit Resolution
- Very High Sensitivity
- Built-in Processing
- Extra Low Power, 0.2W

The smallest, lowest power smart hydrophone available on the market.

icListen Kayak is fully compatible with Lucy Software. Manage multiple data streams on a single screen.

Simplified Integration

Developed with AUVs, ROVs and gliders in mind, icListen Kayak is ultra-low power and extra small, measuring only 23mm in diameter.

Ask us today about integration/mounting options for your vehicle or platform. Create large arrays with simplified cabling and uncomplicated user interface.

OCEAN SONICS

icListen Kayak

All the smarts without the size
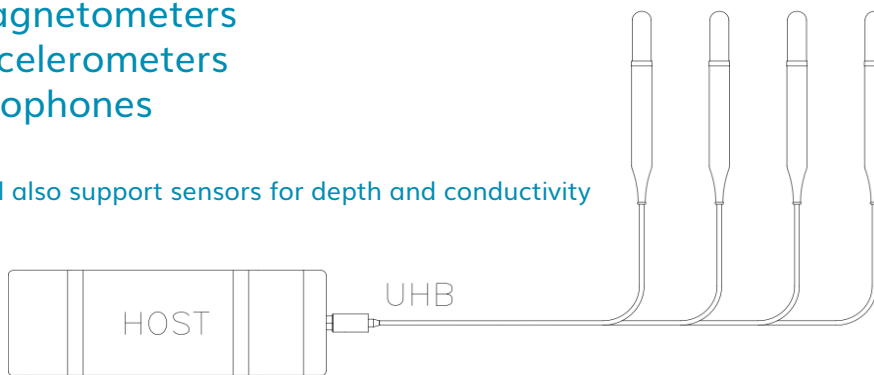
Really Big Arrays: Simplified

The Universal Hydrophone Bus (UHB) has been developed by Ocean Sonics to make scalable, large arrays easy to assemble and deploy.

Connect up to 100 hydrophones on a single UHB cable.

In the future, UHB will support multiple dynamic sensors, such as:

- Magnetometers
- Accelerometers
- Geophones

UHB will also support sensors for depth and conductivity

HOST   UHB

Hydrophone Sensing Element:

Ultra low noise and wide dynamic range for high quality data and long term stability. Choose the element that's right for your deployment:

Ocean Sonics Sensor Tip
High sensitivity, low self noise

Teledyne Reson: TC4059
Low drift, flat sensitivity

Bandwidth (+/- 6dB)
OS & Reson:10 Hz to 200kHz

Sample rate (Max kS/sec.)
OS & Reson: 1 to 480

Resolution:
16 or 24 Bits

Power
5 (+/-5%)VDC input
0.2W with Serial link

Software Interface
Lucy Software Supported
Serial, USB or Ethernet

Acquire Modes
Stream: Waveform/FFT/Epoch

Dynamic Range
OS & Reson: 124dB

Sensitivity
OS:-173 dBV re µPa
Reson: -186 dBV re µPa

Mass
OS & Reson: 195g

Weight in Water
OS & Reson: 130g
Or Neutral Buoyancy option

Length
OS & Reson: 213mm

Diameter:
OS & Reson: 23mm

Depth Rating
 900m, 3500m

Kayak pictured here, integrated into ecoSUBm25 small-AUV