OCEAN SONICS

# icListen HF

10 Hz to 200 kHz

## Accurate. Simple. Reliable.

The icListen HF Smart Digital Hydrophone is a compact, all-in-one solution for collecting high-quality underwater acoustic data. Fully calibrated and ready to deploy, it combines acoustic sensing, onboard processing, data storage, and real-time streaming in a single instrument.

Use icListen HF as a digital hydrophone, acoustic recorder, or both, with the flexibility to support a wide range of ocean monitoring applications.




## icListen HF Key Features

**Capture:** Collect data with ultra-low self-noise and wide dynamic range.

**Process:** Analyze acoustic data at the source with built-in edge processing.

**Detect:** Identify acoustic events in real time with Epoch Mode.

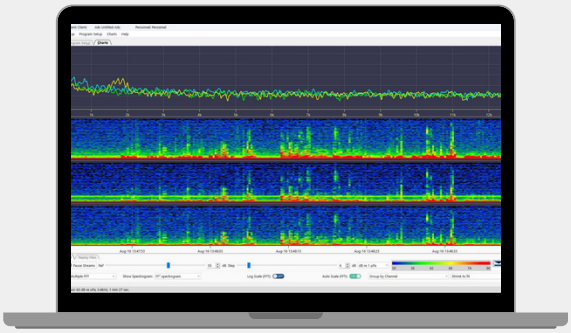
**Access:** Stream spectral or WAV data and control settings from your device.

**Deploy:** Choose from 900 m, 3,500 m, or 6,000 m depth ratings.

**Synchronize:** Connect hydrophones for multi-channel monitoring.

## Analyze with Lucy II

Our Lucy II software makes it easy to view, record, and analyze data from multiple hydrophones directly on your devices.



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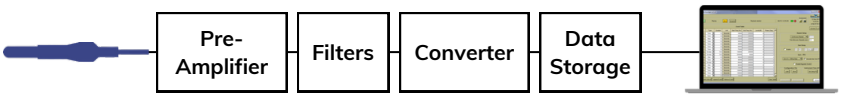
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# What Sets icListen HF Apart?

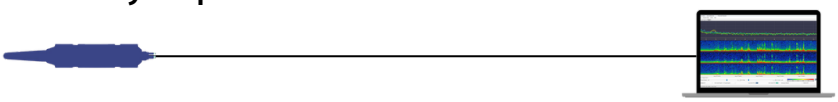
## All-in-One Design

icListen combines the hydrophone, pre-amplifier, filters, converter, processing, storage, and data connection in one compact system, eliminating the need for a traditional multi-component setup.

**Analog Hydrophone**




**Smart Hydrophone**



## In-House Designed ALTA Sensor

Ocean Sonics' ALTA sensor technology combines ultra-low noise, wide dynamic range, sensitivity, and bandwidth for reliable, long-term performance.

# icListen HF Applications

**Science:** Monitor marine life, ocean noise, and natural acoustic events for research.

**Defense:** Detect and monitor underwater acoustic activity for maritime awareness.

**Energy:** Monitor sound from offshore construction, operations, and infrastructure.

**Regulatory:** Measure underwater noise for environmental assessment and compliance.

# Specifications

**Frequency:**
10 Hz to 200 kHz

**Sensitivity:**
-172 dB re V/µPa

**Max SPL RMS:**
179 dB re µPa

**Sample Rate:**
1 - 512 kS/sec

**Depth Rating:**
900 m, 3500 m, 6000 m

**Dynamic Range:**
147 dB

**Autonomous Battery Life:**
8 Hr

**Resolution:**
24 bits

**Communication Interface:**
Ethernet

**Acquire Modes:**
Waveform/FFT/Epoch

**Internal Data Storage:**
1 TB

**Software:**
Lucy II

**Overall Length:**
304.2 mm

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# icListen AF

10 Hz to 12.8 kHz

## Accurate. Simple. Reliable.

The icListen AF Smart Digital Hydrophone is a compact, high-sensitivity solution for capturing lower-frequency underwater sounds. With ultra-low self-noise and wide dynamic range, it combines acoustic sensing, processing, storage, and real-time streaming in one instrument.

Use icListen AF as a digital hydrophone, acoustic recorder, or both, with the flexibility to support a wide range of ocean monitoring applications.




## icListen AF Key Features

**Capture:** Record lower-frequency sounds with ultra-low self-noise.

**Process:** Analyze acoustic data at the source with built-in edge processing.

**Detect:** Identify acoustic events in real time with Epoch Mode.

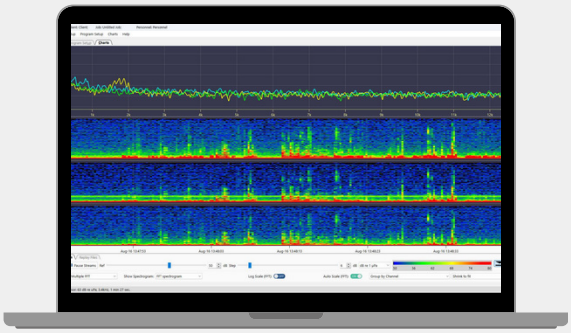
**Access:** Stream spectral or WAV data and control settings from your device.

**Deploy:** Choose from 900 m or 3,500 m depth ratings.

**Synchronize:** Connect hydrophones for multi-channel monitoring.

## Analyze with Lucy II

Our Lucy II software makes it easy to view, record, and analyze data from multiple hydrophones directly on your devices.



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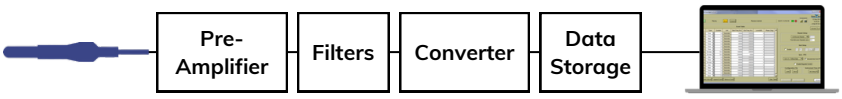
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# What Sets icListen AF Apart?

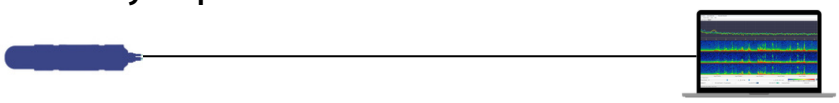
## All-in-One Design

icListen combines the hydrophone, pre-amplifier, filters, converter, processing, storage, and data connection in one compact system, eliminating the need for a traditional multi-component setup.

**Analog Hydrophone**




**Smart Hydrophone**



## In-House Designed ALTA Sensor

Ocean Sonics' ALTA sensor technology combines ultra-low noise, wide dynamic range, sensitivity, and bandwidth for reliable, long-term performance.

# icListen AF Applications

**Science:** Monitor marine life, ocean noise, and natural acoustic events for research.

**Defense:** Detect and monitor underwater acoustic activity for maritime awareness.

**Energy:** Monitor sound from offshore construction, operations, and infrastructure.

**Regulatory:** Measure underwater noise for environmental assessment and compliance.

# Specifications

**Frequency:**
10 Hz to 12.8 kHz

**Sensitivity:**
-162 dB re V/µPa

**Max SPL RMS:**
168 dB re µPa

**Sample Rate:**
1 - 32 kS/sec

**Depth Rating:**
900 m, 3500 m

**Dynamic Range:**
151 dB

**Autonomous Battery Life:**
8 Hr

**Resolution:**
24 bits

**Communication Interface:**
Ethernet

**Acquire Modes:**
Waveform/FFT/Epoch

**Internal Data Storage:**
1 TB

**Software:**
Lucy II

**Overall Length:**
275.1 mm

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OCEAN SONICS

# icListen Kayak

10 Hz to 200 kHz

## Accurate. Simple. Reliable.

The icListen Kayak Smart Digital Hydrophone is a compact, low-power solution for collecting high-quality underwater acoustic data. Purpose-built for multi-channel arrays, it combines acoustic sensing and real-time data streaming in a single instrument.

Use icListen Kayak as part of a synchronized array or as a standalone digital hydrophone, with flexible configurations to support a wide range of ocean monitoring applications.



## icListen Kayak Key Features

**Scale:** Build flexible, synchronized multi-hydrophone arrays.

**Conserve:** Minimize power consumption for efficient array operation.

**Integrate:** Fit easily onto AUVs and other space-constrained platforms.

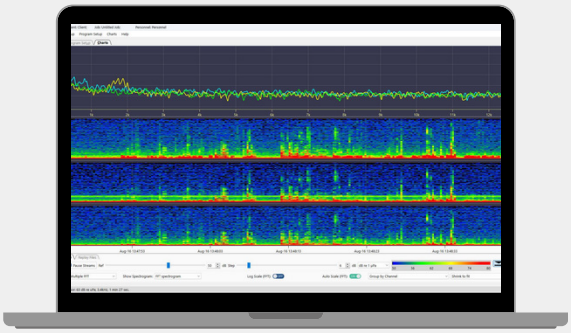
**Capture:** Collect data with ultra-low self-noise and wide dynamic range.

**Deploy:** Choose from 900 m or 3,500 m depth ratings.

**Access:** Stream spectral or WAV data and control settings from your device.

## Analyze with Lucy II

Our Lucy II software makes it easy to view, record, and analyze data from multiple hydrophones directly on your devices.



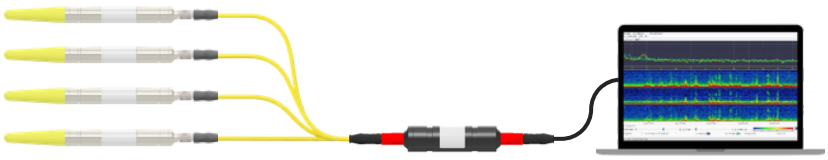
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# What Sets icListen Kayak Apart?

## Scalable Arrays

Build scalable, synchronized arrays with up to 100 hydrophones on a single cable. Easily assemble, deploy, and stream acoustic data in real time.



## All-in-One Design

icListen Kayak combines the hydrophone, pre-amplifier, filters, converter, and data connection in one compact system, simplifying integration into underwater acoustic systems and arrays.

## In-House Designed ALTA Sensor

Ocean Sonics' ALTA sensor technology combines ultra-low noise, wide dynamic range, sensitivity, and bandwidth for reliable, long-term performance.

# icListen Kayak Applications

**Science:** Monitor marine life, ocean noise, and natural acoustic events for research.

**Defense:** Detect and monitor underwater acoustic activity for maritime awareness.

**Energy:** Monitor sound from offshore construction, operations, and infrastructure.

**Regulatory:** Measure underwater noise for environmental assessment and compliance.

# Specifications

**Frequency:**
10 Hz to 200 kHz

**Sensitivity:**
ALTA: -172 dB re V/µPa

**Sample Rate:**
1 - 512 kS/sec

**Depth Rating:**
900 m, 3500 m

**Dynamic Range:**
124 dB

**Resolution:**
24 bits

**Communication Interface:**
Ethernet

**Acquire Modes:**
Waveform/FFT/Epoch

**Software:**
Lucy II

**Mass:**
195 g

**Weight in Water:**
135 g

**Overall Length:**
260 mm

**Diameter:**
23 mm

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OCEAN SONICS

# icListen

## Accurate. Simple. Reliable.

icListen Smart Digital Hydrophones offer compact, all-in-one solutions for collecting high-quality underwater acoustic data. Calibrated and ready to deploy, icListen combines acoustic sensing, filtering, data conversion, onboard processing, and real-time streaming in a single instrument, simplifying setup and deployment.

Designed for versatility, icListen hydrophones support underwater acoustic monitoring applications across science, defense, regulatory, and energy sectors.




## icListen Key Features

**Capture:** Collect data with ultra-low self-noise and wide dynamic range.

**Process:** Analyze acoustic data at the source with built-in edge processing.

**Detect:** Identify acoustic events in real time with Epoch Mode.

**Access:** Stream spectral or WAV data and control settings from your device.

**Deploy:** Choose from compact, depth-rated designs for a range of environments.

**Synchronize:** Connect hydrophones for multi-channel monitoring.

## Specifications

**Frequency:**
10 Hz to 200 kHz

**Depth Rating:**
Up to 6,000 m

**Sample Rate:**
Up to 512 kS/sec

**Array Capacity:**
Up to 100 hydrophones per cable

**Resolution:**
24 bits

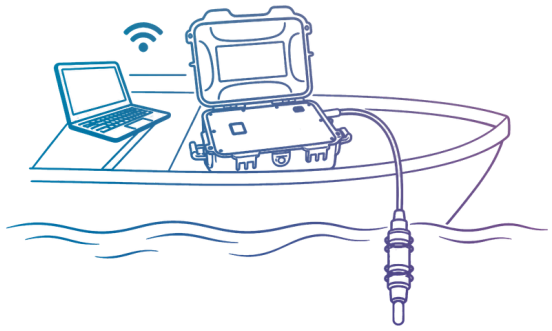
**Communication Interface:**
Ethernet

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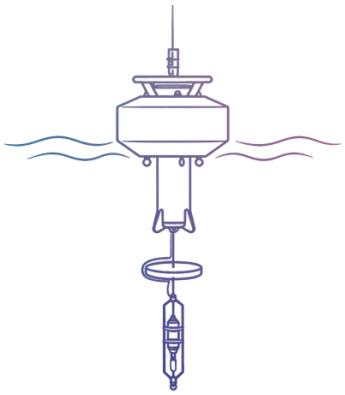
# icListen Deployment Solutions

icListen hydrophones can be deployed in a wide range of configurations, including gliders, AUVs, USVs, and fixed installations. Ocean Sonics also offers several deployment solutions to support different monitoring needs.



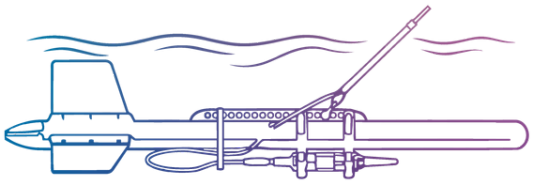
## Launch Box

A portable solution for powering icListen hydrophones, with built-in GPS synchronization and wireless access to real-time acoustic data through Wi-Fi.



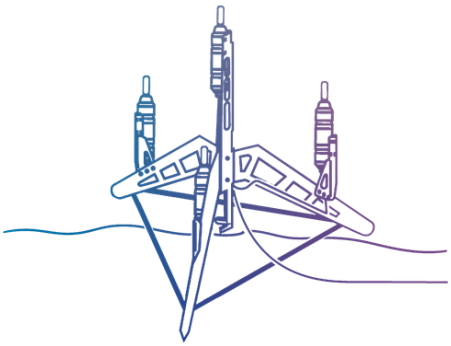
## Acoustic Buoy

A drifting or moored solution for real-time acoustic monitoring, wireless communication, and synchronized hydrophone deployments.



## Fyrefin Tow Fish

A towed deployment solution designed to reduce vessel noise interference and improve acoustic data collection.



## Subsea Tripod

A seabed-mounted system supporting synchronized multi-hydrophone monitoring, localization, and tracking.

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# Lucy II Software

## Accurate. Simple. Reliable.

Developed by Ocean Sonics, Lucy II is a PC-based software solution for streaming, recording, and analyzing acoustic data from one or multiple icListen hydrophones. Building on the original Lucy software, it enables real-time visualization, detection, localization, and tracking of underwater sound sources, with support for synchronized hydrophone arrays.



## Lucy II Key Features

**Connect:** Manage individual hydrophones or synchronized arrays.

**Visualize:** View plots, spectrograms, and acoustic measurements.

**Stream:** Monitor and record acoustic data in real time.

**Analyze:** Replay recordings and review WAV and FFT data.

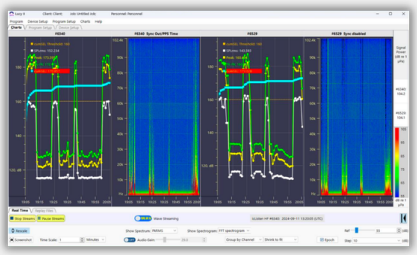
**Detect:** Identify acoustic events with specialized analysis plugins.

**Access:** Download and use Lucy II for free, with no licensing fees.

## Data Visualization



Vertical Display: Two icListen hydrophone recordings



Horizontal Display: Two icListen hydrophone recordings

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# Lucy II Plugins

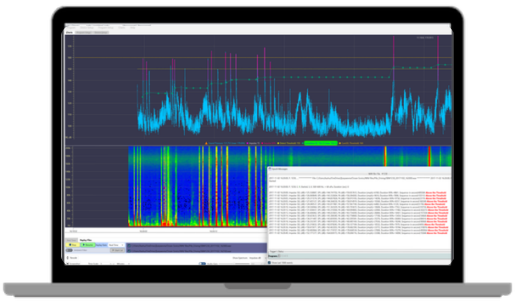
Ocean Sonics software plugins are extensions of Lucy II that add specialized features and functionality to help users interpret underwater acoustic data. Designed for specific monitoring applications, they analyze acoustic activity, detect sound events, and generate report-ready measurements and results.

Compatible with icListen products, these plugins simplify data analysis, reduce manual processing, and streamline reporting to support your project needs.

## Impact Plugin

The Impact Plugin provides real-time underwater construction impact monitoring aligned with ISO 18406, simplifying data collection and analysis.

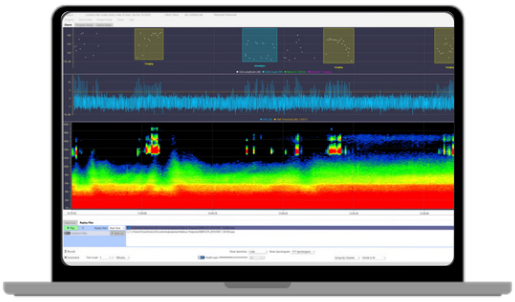
- **Detect:** Identify impulsive sound events.
- **Measure:** Track sound levels and intensity.
- **Report:** Export acoustic measurement data.



## CODA Plugin

The CODA Plugin detects and classifies harbour porpoise echolocation clicks in real time, helping users monitor acoustic activity and behaviour.

- **Detect:** Identify echolocation clicks.
- **Customize:** Configure detection parameters.
- **Classify:** Identify harbour porpoise behaviours.



OCEAN SONICS

# Battery Pack

## Accurate. Simple. Reliable.

Designed for extended autonomous deployments, the Ocean Sonics Battery Pack provides reliable, long-lasting power for icListen hydrophones and a wide range of ocean instruments.

Supporting multiple hydrophones simultaneously, it combines high battery capacity, synchronization capabilities, and field-replaceable D-cell batteries in a durable, depth-rated enclosure. Built for demanding underwater environments, it offers a flexible power solution for long-term acoustic monitoring.




## Battery Pack Key Features

**Power:** Supply power to hydrophones and compatible 24 V instruments.

**Connect:** Power and synchronize multiple hydrophones simultaneously.

**Replace:** Easily change batteries in the field for extended operation.

## Estimated Battery Endurance

| Channels | Alkaline | Lithium |
|---|---|---|
| 1 | 30 days | 90 days |
| 2 | 15 days | 42 days |
| 3 | 10 days | 26 days |
| 4 | 7.5 days | 19 days |

## Specifications

**Depth Rating:**
Alkaline: 200 m, 900 m, 3500 m
Lithium: 900 m, 3500 m

**Weight (Fully Loaded):**
Alkaline: 26 kg approx.
Lithium: 23 kg approx.

**Housing Material:**
Fibreglass tube

**Overall Length:**
70 cm

**Outside Diameter:**
18 cm

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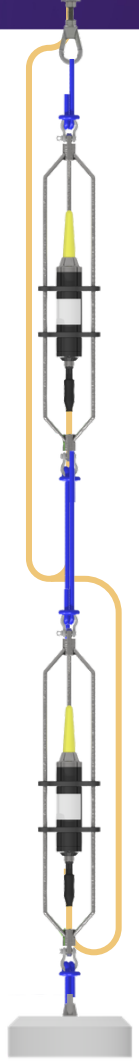
# Acoustic Buoy

## Accurate. Simple. Reliable.

The Ocean Sonics Acoustic Buoy provides a portable solution for real-time underwater acoustic monitoring. Designed for drifting or moored deployments, it combines power, wireless communication, and GPS time synchronization to support up to six icListen Smart Hydrophones.

Deployable from a small vessel, the buoy is ideal for marine mammal monitoring, underwater radiated noise measurements, vessel detection, and environmental compliance.





## Acoustic Buoy Key Features

**Deploy:** Flexible drifting or moored configurations for a range of underwater monitoring applications.

**Transport:** Lightweight, compact design allows easy handling and deployment from small vessels.

**Connect:** Wi-Fi or radio communication provides remote access to real-time acoustic data.

**Synchronize:** GPS time synchronization ensures accurate, time-aligned acoustic measurements.

**Monitor:** Supports up to six icListen hydrophones for simultaneous underwater acoustic monitoring.

**Reduce Noise:** Acoustically quiet design limits interference from water movement and surface motion.

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# icTalk

## Accurate. Simple. Reliable.

The icTalk HF Smart Projector is a compact, fully calibrated solution for generating precise underwater acoustic signals. Capable of producing tones, chirps, clicks, and sweeps, it provides flexible sound projection for calibration, testing, and underwater acoustic applications.

Operate independently using internal battery power or connect to a computer for full control with Talk Assistant. Synchronize with icListen hydrophones for coordinated acoustic operations.




## icTalk Key Features

**Generate:** Produce tones, chirps, clicks, and sweeps.

**Calibrate:** Deliver precise, consistent acoustic signals for sensor calibration.

**Customize:** Create complex sound patterns and sequences.

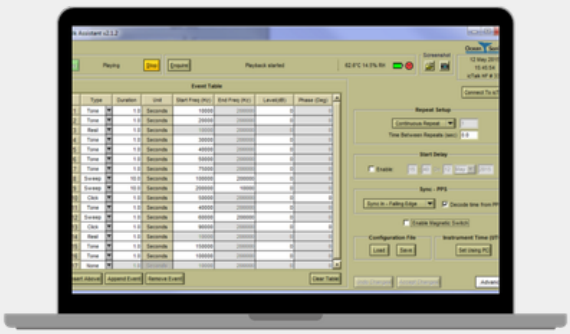
**Synchronize:** Coordinate acoustic transmission with icListen hydrophones.

**Deploy:** Operate autonomously with internal battery power.

**Control:** Configure and manage acoustic output using Talk Assistant.

## Control with Talk Assistant

Talk Assistant makes it easy to configure and control icTalk directly from your computer. Create and upload custom sound patterns for precise acoustic projection.



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OCEAN SONICS

# Launch Box

## Accurate. Simple. Reliable.

The Ocean Sonics Launch Box is a portable solution for accessing and powering icListen Smart Hydrophones in the field. Converting the hydrophone's Ethernet connection to Wi-Fi, it provides wireless access to real-time acoustic data and recording settings from a laptop or other device. With an internal rechargeable battery and GPS for time synchronization and positioning, the Launch Box simplifies setup and supports flexible deployments on deck, on shore, or in the lab.




## Launch Box Key Features

**Stream:** Access real-time acoustic data wirelessly through Wi-Fi.

**Power:** Extend hydrophone operation with a rechargeable battery.

**Synchronize:** Align hydrophone data using built-in GPS timing.

**Track:** Record GPS positioning data during deployments.

**Connect:** Support single hydrophones or synchronized arrays using Smart Cables.

**Deploy:** Compact and weather-resistant for convenient field use.

## Specifications

**Battery Endurance:**
Up to 48 hours

**Wi-Fi:**
2.4 GHz

**Hydrophone Synchronization:**
Within 1 µs

**Weight:**
2.3 kg

**Dimensions:**
231 × 173 × 97 mm

**Enclosure:**
IP67-rated when closed

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