

Overview

- Easily create digital hydrophone arrays by connecting two or more, self-synchronizing icListen Smart Hydrophones to operate as one.
- Record multichannel array data using the internal hydrophone memory, or log data externally.
- Select from a wide range of geometries, including vertical, horizontal, very small geometrical arrays, or spread out over many kilometers.
- Precisely locate hydrophones using the hydrophone array clamp which reduces interferences and strumming noise.
- Create vertical arrays with up to 32 hydrophone channels.



Smart Cable

- Simplify hydrophone connections
- Eliminate junction boxes and the clutter of cables
- Connect up to four hydrophones to a single input connector.
- Embedded electronics manage the network connections.
- Extend the reach to 1500m with an Ethernet Repeater



The Hub

- Connect complementary sensors to create a mini-observatory
- Low-power Linux-based processor for smarter array capability.
- GPS timing signal (PPS) using the IEEE 1588 PTP for longer cable runs
- A high-power Hub is available for larger arrays, up to 32 channels.



Ethernet Repeater

- An affordable, flexible way to operate over longer distances.
- Use up to 3 repeaters in series for maximum run of 400 meters



Tripod Array

- Mount up to 4 hydrophones to form an equilateral array, adjust height and baseline from 0.5 to 1.0 meters.
- Packs down for easy carrying and assembles in minutes
- Extra-large feet for soft bottom, or for adding ballast.



GPS Time Sync

- No Cables = No Problem. Connect wirelessly over long-distances using a GPS PPS to synchronize with sub-microsecond accuracy. Create hydrophone clusters that are synchronized via GPS time.
- GPS Time Sync sets date & time, while synchronizing to less than 1 Microsecond by encoding the date and time into the PPS stream.

Host Controller

- Provides a reliable shore connection for power, data and network connection packaged in a compact, weatherproof, mountable box.
- Powered from 24 Vdc, it connects GPS Time Sync, ISM Radio, and two connections for subsea array cables. Optional removable disk drive and Array Processor.
- LED indicator shows the GPS sync status.

Battery Packs for Autonomous Arrays

- Robust, safe and no special tools to service, and connector guards double as carry handles.
- Uses Alkaline or Lithium 'D' cell batteries, available in 30 or 90 day capacity



Cable Grips

Protect cable connectors from unexpected stress with cable grips that lock on to the armored part of the cable.

