

## Looking for a Multi-channel Instrument?

If you are looking for a multi-channel instrument for localization or to reduce pseudo noise, you can configure the icListen Smart Hydrophones as an array. Because the output is digital, you have more options for cables & connectors.

Most multi-channel hydrophone instruments suffer from crosstalk. This is where one channel 'bleeds' into an adjacent one. It gets noticed when there is a large difference in amplitude between the two channels. We address this by embedding the digitizer with the sensor element so there's one digitizer per element. You use multiple icListen digital hydrophones synchronized through their data cable to create the array. Combining multiple synced icListen's creates a new multi-channel instrument.

Hydrophone arrays can be synced as a self contained unit (by setting one of them as sync master), or you can use a GPS PPS signal. The icListen also supports IEEE 1588 PTP sync over networks. Timing accuracy can be as good as  $\pm 0.2 \mu\text{sec}$ .

The icListen multi-channel approach lets you set up just the channels you need, whether it's 2 or 20 channels. Channels can be synced even if they are running at different sample rates.

Syncing icListen Smart Hydrophones gives you new options too, such as sync up with other instruments. Hydrophones can be located far away from each other if they are synced using the GPS or network sync.

Use synced icListen digital hydrophones as acoustic logger arrays, or as real-time digital hydrophone arrays, or both.

