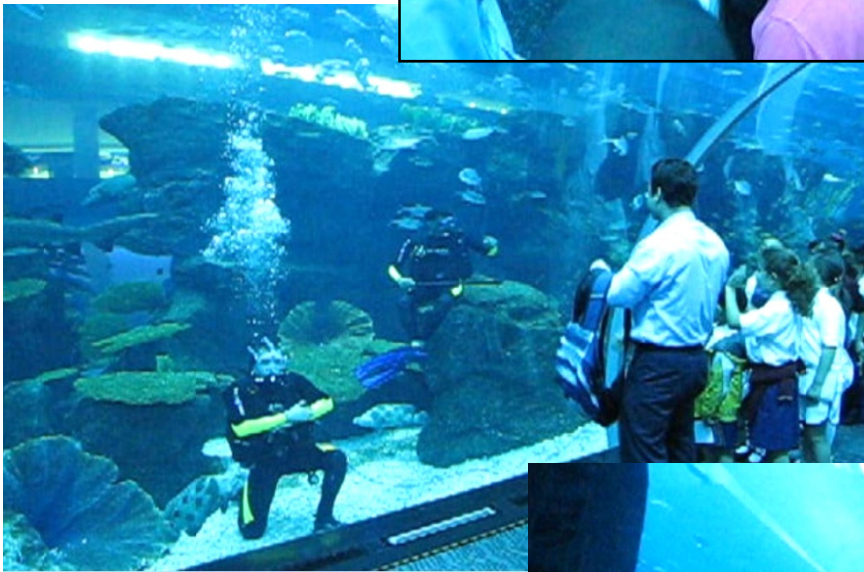


World Class Aquarium Diver Communications

The unique design of this Commercial installation allows for automatic, multiple service requirements of a public aquarium.

This means automatic public interaction via an announcer's microphone when the diver is in the water.

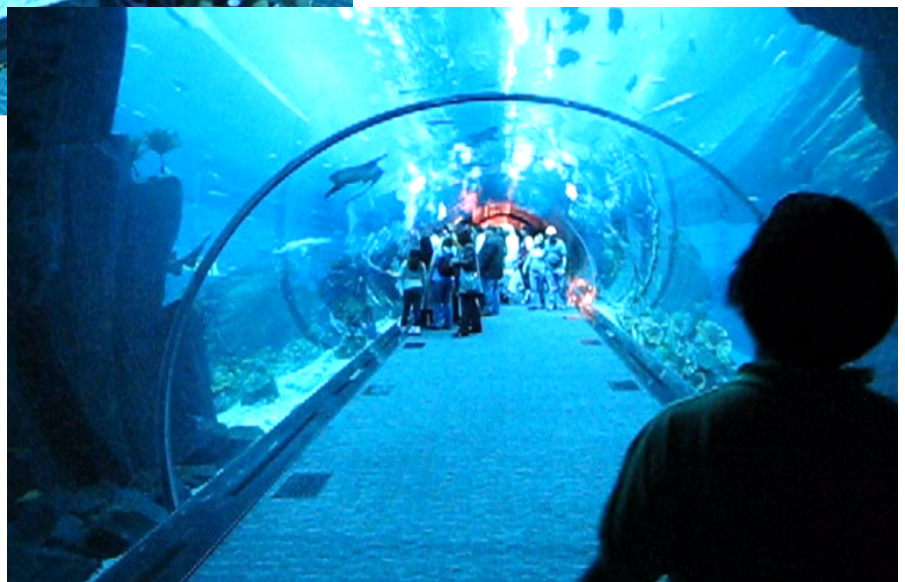


The experience of diver interaction is a major extension to the aquarium's ability educate and to display a live animal exhibit.

The diver responds to questions over the public address system.

The DIVELINK signal processor decides which direction to route audio based on sound level from the public microphone.

To walk into this venue with live audio interaction provides a unique focal point.



World Class Aquarium Diver Communications

The DIVELINK system is installed in a rack located permanently in a dry room near the aquarium upper level. **The rack houses:**

- A DIVELINK HARDWIRE Intercom COM-HW-RM-2.
- A Signal Processor DL-SOUNDWEB that mitigates the DIVELINK intercom and delivers or accepts sound from the Aquarium Public Address system.
- Wiring to the Aquarium tank with CAB-HW-x.



The Signal Processor mitigates sound from the PA and automatically engages the DIVELINK intercom, and also removes background noises.

The whole premise of operation is based on an announcer or public speaking to then listening to the divers in the aquarium. This is typically done by means of a wireless or wired microphone in the Venue Public Address System.

The audio from the announcer microphone is sent to the DIVELINK rack from the Public Address system. When the announcer speaks, the divers in the tank hear the announcer because the Signal Processor sends the sound to the DIVELINK diver. When the announcer stops speaking, then the Signal Processor changes the DIVELINK intercom to RECEIVE mode at which time the diver HARDWIRE takes priority and is heard over the Public Address system.



Local speech to and from the diver is available at the rack using a hand-held microphone. The HARDWIRE system may be operated locally in this manner.

As divers enter the water, typically an equipment check is performed with the PA system disabled. This is done to ensure that all SCUBA gear is fully functional before going live before an audience and is part of the venue's training and performance protocol. This option is available by the insertion of audio feed cut-out switches in the rack for local control by the dive master.



CAB-HW-x

Hardwire Intercom Cable from Rack to Diver

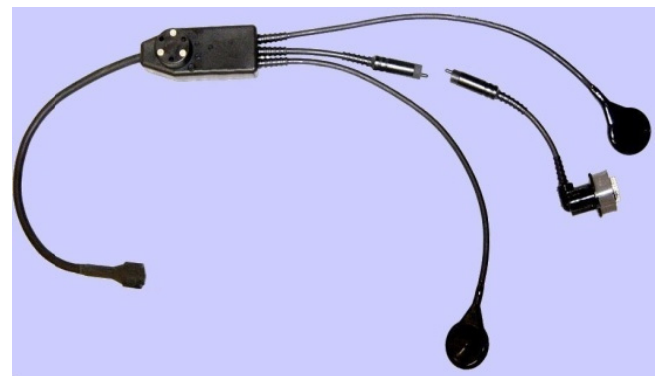
The connection from the Rack to the Diver is by means of a waterproof underwater connectable cable CAB-HW-x

(x=number of feet). This plugs into the diver EAR-MIC harness.

Diver EAR-MIC Harness and Microphone

Each diver wears an Earphone Microphone Harness and waterproof Microphone to suit the Full Face Mask being used.

Harness EAR-MIC-NOPTT (No Push To Talk switch as this is two way continuous communication) plus a Microphone MPC-xxx to suit a particular full face mask.



**EAR-MIC-NOPTT Harness and MPC-xxx
Waterproof Microphone
to suit Diver Full Face Mask**

World Class Aquarium Diver Communications – Safety Support

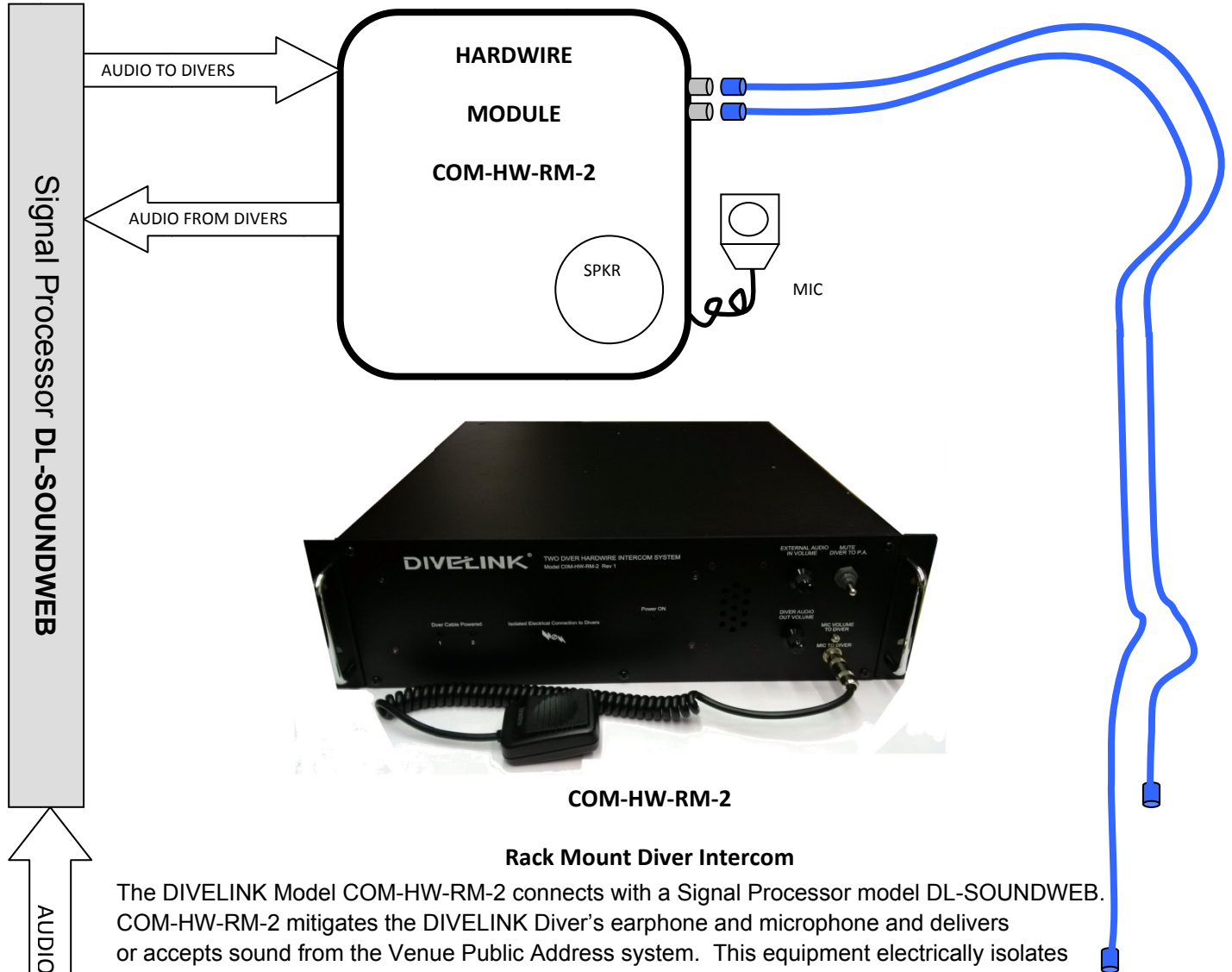
For those exhibits with dangerous animals, a safety diver may be wearing the second hardwire intercom connection with full face mask and microphone. All communications may be heard between divers and announcer. This allows continual monitoring of the conversation as well as the physical area around the performing diver. If warranted, the safety diver may be available with a stun stick to thwart any attack.

If a diver needs to disconnect from HARDWIRE then this may easily be done.



World Class Aquarium Diver Communications

System Block Diagram

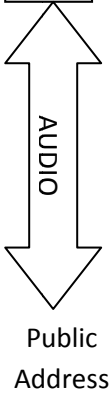


COM-HW-RM-2

Rack Mount Diver Intercom

The DIVELINK Model COM-HW-RM-2 connects with a Signal Processor model DL-SOUNDWEB. COM-HW-RM-2 mitigates the DIVELINK Diver's earphone and microphone and delivers or accepts sound from the Venue Public Address system. This equipment electrically isolates divers and allows connection with venue Ground and Aquarium tank water Ground.

CAB-HW-x Intercom Cables to the Diver EAR-MIC



DL-SOUNDWEB

Rack Sound Processor Interface to Venue Public Address System