



Multibeam System Integration Series -- Part 1

By Joe Burnett

On almost a daily basis, we here at HYPACK® are asked about the integration of the components for single beam, multibeam, and dredge systems. Since HYPACK® interfaces with several hundred pieces of equipment, it's almost impossible to produce an interface document for every possible combination of equipment that our users might have.

However, I'm going to start a series of Interface documents that cover the most popular Multibeam system setups that we currently deal with.

These documents will have the HYPACK® and HYSWEEP® HARDWARE setups, along with the wiring schematics to properly connect the components in the system together. (These documents were setup in Landscape Mode in MS WORD, and are best printed that way.)

In advance, I'd like to say that, I will do my best to cover as many setups as possible, as quickly as possible. These documents take time and verification to produce, as they usually come from recent training sessions. Because of this, we know that the setups we will be publishing, are correct and will work with your system.

I recently went on an Integration and Training trip with an R2Sonic 2024, Trimble GPS 852, Hemisphere Dual Antenna VS-100 GPS Heading system, and a TSS DMS3-05. In addition to this setup, I have also included an R2Sonic 2022/2024 with an Applanix POS MV in either Serial or Network configuration. These configuration documents will be posted soon on the Documentation page of our web site.

I've had these setups verified by both our Staff and the Staff at R2Sonic. In addition, I was on the boat, and know it worked when I was there.

Important : These setups will help you correctly wire your system and set it up within HYPACK® and HYSWEEP®. They do not have any COM port numbers or offsets (Starboard, Forward, Vertical, Yaw, Pitch, Roll, or Latency). These will all be specific to your computer, mounting locations, and Patch Test values for your survey vessel.

Also, as noted within these documents, using the Interfacing Notes document located within the Help directory of your version of HYPACK®, will aid you with specific setup information for the individual piece of equipment.