Southstar Hardware Setup Guide

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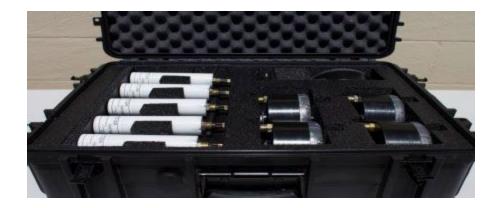
1. Intro

Thank you for your purchase of the Southstar Acoustic Tracking System. This guide describes the Southstar Hardware, as well as gives instructions for setup.

2. Component List

- 1 Storage case
- 1 MCU-5 Charging system (8 pin version)
- 1 RF Modem Dongle
- 5 TLT-32A Acoustic modules
- 5 FRF-2 RF modems
- 6 RF antennas
- 5 100ft.Data cables
- 4 Buoys and Buoy counterweight assemblies
- 4 Tripods and Tripod hardware sets
- 4 100ft Stainless steel braided cable

12 5lb. Lead diver weights



3. Hardware Setup

3.1 Electronics Setup:



- 1. FRF-2: Fully charge all of the FRF-2 units using the MCU-5 charging station.
 - 1. The charging process takes typically a full 24hrs or until the status indicator on the FRF-2 units are solid green.
 - 2. The MCU-5 is capable of charging all of the FRF-2 units simultaneously.
 - 3. Attach the FRF-2 units to the Buoy units. (see hardware diagrams for dimensional setup data)
 - 4. Connect supplied antennae when deploying the FRF/Buoy units to the array to reduce chance of breakage.

2. RF Dongle:

- 1. Connect supplied antenna.
- 2. Connect the RF Dongle to the PC running the Southstar software.



3.2 Tripod setup:



- 1. Unfold the tripod legs and insert hitch pins.
- 2. Install the TLT mounting hardware. (see hardware diagrams for dimensional setup data)
- 3. Attach the stainless steel tether cable's small carabineer to the eye-loop on the side of the tripod.
- 4. AttachTLT-32A to the TLT mounting hardware. (see hardware diagrams for dimensional setup data)
- 5. Attach supplied eight pin 100' data cable.
- 6. Attach the 5lb. diver weights to the feet of the tripods using the supplied stainless steel bolts and washers. (see hardware diagrams for dimensional setup data)
- 7. Attach the data cable to the stainless steel tether cable using cable ties and/or electrical tape giving some slack on the data cable in between ties to allow for strain relief.
- 8. Before deploying the tripods with the TLT-32A into the water they must be connected to an FRF-32A unit at zero depth. Note if the TLT-32A fails to report depth correctly in the Southstar software the depth of the TLT-32A must be entered manually in the Divebase software.

3.3 Buoy Unit setup:

- 1. Attach Buoy to the Buoy shackle/counterweigh assembly. (see hardware diagrams for dimensional setup data)
- 2. Attach the large carabineer to the shackle
- 3. Feed the data cable up through the Buoy.

- 4. Attach The FRF-2 unit to the 5/8" stainless steel threaded rod of the Buoy counterweight assembly. (see hardware diagrams for dimensional setup data)
- 5. Attach the male end of the data cable to the bottom of the FRF-2 unit.

