

Maritime Information Systems, Inc.

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Equipment Installation Guide

OVERVIEW

This hardware kit is for tracking and messaging Automatic Identification System (AIS) transponder equipped vessels. AIS-equipped aircraft vessels exchange information on VHF frequencies for collision avoidance purposes. The data is also captured by shore-stations for tracking and monitoring purposes. Our system enhances communications with vessels by sending automatic AIS messages to vessels from shore-based transceivers.

PURPOSE

The system will notify mariners and boaters in NOAA seasonal management areas (SMAs) that are not in compliance with speed regulations. Our goal is to use this technology alongside right whale conservation information to warn mariners when in proximity to recent right whale sightings.

INSTALLATION

Prerequisites

Hosting locations need to be within one mile of the shore. A 110 power outlet is required. The equipment will include a cellular router which will need its own antenna mounted outside. The remote reboot unit has a cellular connection and will also need an antenna mounted outside.

Antenna Installation

The kit includes four outside antennas, one for AIS, two for cellular access and the other for GPS. The antennas should be mounted with line of sight to sky and waterway.

Inside Installation

The MIS box should be installed inside within a few feet of a 110V power outlet. It can be mounted on a wall, set on a stand or clamped to a railing. It does not need to be bolted into place. The enclosure can be connected to a hard-wired internet connection if available (not required).

SET-UP PROCEDURE

1. Install the antennas at the highest point possible with the best line of sight view of the waterway.
2. Run cabling from the antennas into the building and connect it to the box.
3. Connect the provided power cord to the MIS box, and if possible use an Uninterruptible Power Supply or surge protector. (Power should be connected last)
4. Please call **Maritime Information Systems** at **401-247-7780** to verify signal reception.

Shipment Inventory

- Installation Instructions
- 2 cellular antennas
- GPS antenna antenna
- VHF antenna
- Enclosure
- Power Cable
- 4 Antenna coax cables
- Mounting hardware
- Remote reboot unit (if needed)

HARDWARE:

