



ISD710
Maritime Antenna
(Active)

Quick Start Guide

Suitable for IsatDocks



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PART #: USRMAN006401

ANTENNA SPECIFICATIONS

AMPLIFIER + INTEGRAL ANTENNA										EQUIPMENT TYPE		INTEGRATED OPERATING ENVIRONMENT		POWER SUPPLY REQUIREMENT		RF INPUT POWER RATING (US & CANADA)		RF OUTPUT POWER RATING (US & CANADA)		DUTY CYCLE		TX OPERATING FREQUENCY RANGE		RX OPERATING FREQUENCY RANGE		RF OUTPUT IMPEDANCE		CHANNEL SPACING	
		MODULATION		EMISSION DESIGNATION*		ANTENNA CONNECTOR		ANTENNA DESCRIPTION																					
OCCUPIED BANDWIDTH (99%)		TX Modulation: GMSK RX Modulation: OQPSK		G7W		Integral		Manufacturer: Aeroantenna Technology, Inc. Type Marine Model: AT1595-82 Frequency Range: GPS 1565.19- 1585.65 MHz; Inmarsat Receive: 1518-1559 MHz; Inmarsat Transmit: 1626.5-1660.5 MHz GPS Amplifier Gain: 26 dB INMARSAT RECEIVE Amplifier: 26 dB INMARSAT TRANSMIT Amplifier: 11 dB Antenna: 3.5 dBi (for model AT1595-82)		AMBIENT TEMPERATURE RATING STORAGE: OPERATIONAL:		-40°C to +80°C -25°C to +55°C																	

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. To Satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 55cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.



WARNING

All antenna cables used with these antennas must have a dB loss of 6.5dB. Failure to use Beam approved antenna cables will result in degraded performance and may damage the IsatPhone Pro.

Maritime Antenna Installation Guide

Step One:

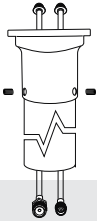
Antenna Cables to be brought to top of pole or mast



Connects to IsatDock

Step Two:

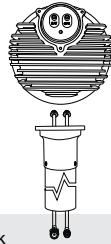
Place pole or mast mounting bracket over the top of the pole or mast and fix with 3 grub screws.



Connects to IsatDock

Step Three:

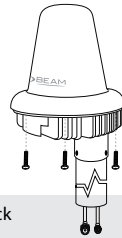
Attach both SMA connectors to the bottom of the antenna making sure to connect the GPS cable to the GPS connector and the Inmarsat Cable to the ISAT connector.



Connects to IsatDock

Step Four:

Place the antenna on top of the mast or pole and screw in the 3 mounting screws (with a split washer and a flat washer on each) to hold it into place.



Connects to IsatDock



WARNING

To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of **55 cm** or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

Installation Guidelines

To ensure maximum performance of the antenna system and to maximise availability and reliability of service the antenna must;

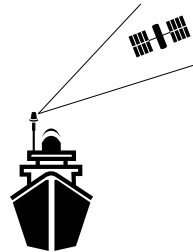
- have a clear line of site to the sky
- be clear and free of obstructions
- be clear of metal objects
- be located away from other transmitting devices
- be securely affixed in location
- not be located indoors
- be installed in conjunction with a certified cable

- Mount all antennas vertically and clear of nearby metal obstructions.
- Minimize horizontal obstructions as much as possible because they can create areas of poor system coverage.

Installation Options

The antenna system is suitable for marine, vehicle and fixed applications and is designed to meet Inmarsat System performance requirements when installed according to the instructions in this guide.

The following figure shows typical Installations:



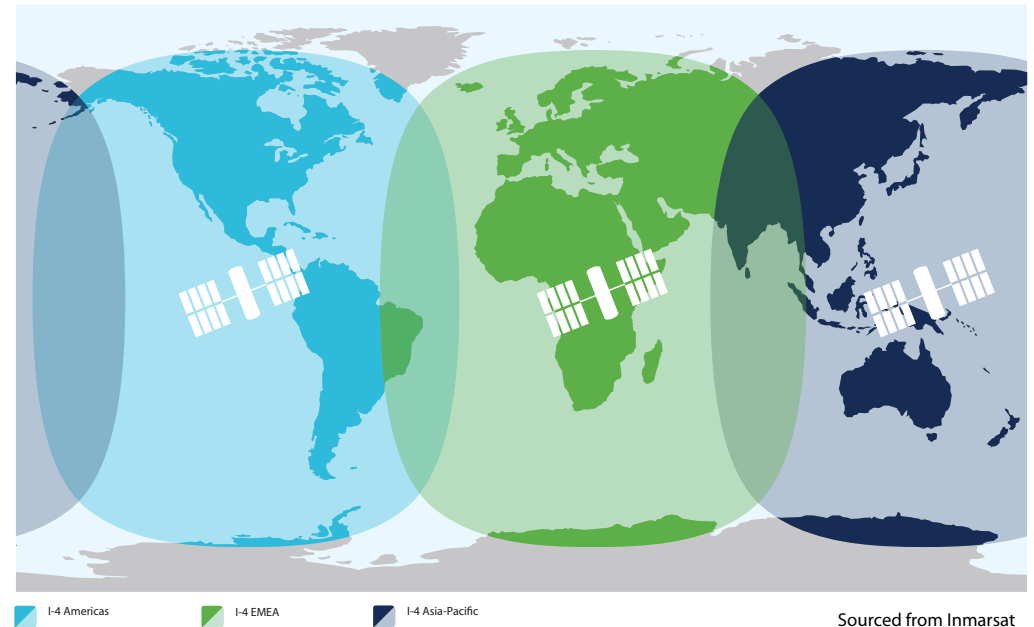
The antenna must be installed without obstruction of other instruments or structures. The antenna must not be positioned within range of radar equipment or other RF interference.



NOTE:

For Satellite & GPS connection instructions please consult your Beam Inmarsat Product manual.

Antenna Coverage



Maritime Antenna Kit Contents

1. Maritime Antenna
2. Pole or Mast Mounting Bracket to suite 34mm diameter pole
3. 3 x Small Mast Mounting Grub Screws
4. 3 x Large Antenna Mounting Screws
5. 3 x Small Split Washers
6. 3 x Large Flat Washers

