# **ANTENNA SPECIFICATIONS**

J°ZS+ 01 J°ZS-	OPERATIONAL:		
2°08+ of 2°0₽-	RATING STORAGE:	A/N	CHANNEL SPACING
	AMBIENT TEMPERATURE	SUULO OS	77.17.47.1841.10.1100.111
Antenna: 3.5 dBi (for model AT 595-82)		sm4O 02	RF OUTPUT IMPEDANCE
8b ff::19ilqmA TIM2NAЯT TA2ЯAMVI		1518-1559 MHz (Inmarsat)	
INMARSAT RECEIVE Amplifier: 26 dB		(SQD) ZHM 20.2821 -91.2021	RX OPERATING FREQUENCY RANGE
GPS Amplifier Gain: 26 dB			
zHM 2.0331-2.3231 :timznesT testemenl		zHM 2.0331 - 2.3231	TX OPERATING FREQUENCY RANGE
Inamarsat Receive: 1518-1559 MHz,			
,zHM 28.5851 -91.2851 292		A/N	DUTY CYCLE
Exedneucy Range:		(pəṭɔnp	(AUADA)
Z8-2621TA :l9boM		37.5 dBm or 5.6 Watts peak (con-	& SU) BRITAR RATING (US &
enine Marine σηγρ		ducted)	(AUANA)
Manufacturer: Aeroantenna Technology, Inc.	ANTENNA DESCRIPTION	30.0 dBm or 1.0 Watt peak (con-	RF INPUT POWER RATING (US &
	TYPE		
Integral	ANTENNA CONNECTOR	mumixem DQ VS8	POWER SUPPLY REQUIREMENT
	NOUN AND IGT OF NO IGGINIT	[ x ] Light Industry & Heavy Industry	WENT
MZÐ	EMISSION DESIGNATION* G7	[x] Commercial	-иотеся в ретипа на година и питеся в регитира и питеся в регитир
RX Modulation: OQPSK			
XZMD :noitsluboM XT	NODULATION	Mobile or Fixed Base Station	EQUIPMENTTYPE
	(%66)		
83.1 KHz	OCCUPIED BANDWIDTH	ANNETRIER + INTEGRAL ANTENNA	

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



PART #: USRMAN006401

## WARNING

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

in conjunction with any other antenna or transmitter. The antenna used for this transmitter must not be co-located

> Maritime Antenna (Active) **Quick Start Guide**



Suitable for IsatDocks

ISD710

Victoria, 3170, AUSTRALIA 8 Anzed Court, Mulgrave **BEAM Communications** 

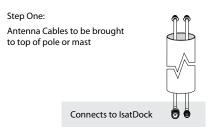
Support: support@beamcommunications.com Info: info@beamcommunications.com Web: www.beamcommunications.com

Fax: +61 3 9560 9055 Tel: +61 3 8588 4500



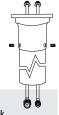


#### Maritime Antenna Installation Guide



# Step Two:

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



# Step Four:

Step Three:

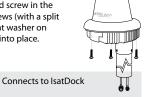
Place the antenna on top of the mast or pole and screw in the 3 mounting screws (with a split washer and a flat washer on each) to hold it into place.

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



### 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

# Installing Antenna Cables

When installing antenna cables, follow these guidelines:

- Route and restrain cables to prevent them from vibrating or moving under normal conditions, which could result in damage to the antenna or the coaxial cable connections.
- Wherever the cables contact structures, protect the cables from chafing or abrasion. If a cable needs to be bent, avoid kinking it, and ensure that each bend radius follows the cable supplier limits.
- Use coaxial sealant, shrink-wrap tubing, electrical tape, or another suitable product to seal all cable connections appropriately to prevent moisture and corrosion damage from weather exposure.

Mount all antennas vertically and clear of nearby metal obstructions.

Connects to IsatDock

 Minimize horizontal obstructions as much as possible because they can create areas of poor system coverage.

## **Installation Options**

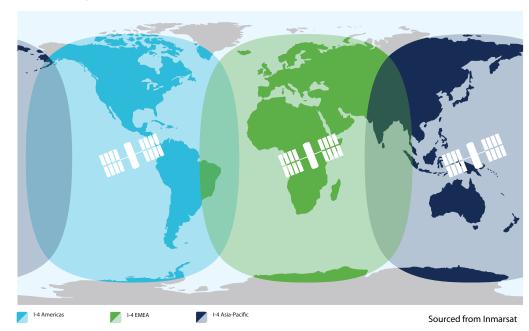
The antenna system is suitable for marine, vehicle and fixed applications and is designed to meet Inmarsat System performance requirements when installed according to the instructions in this guide.

The following figure shows typical Installations:



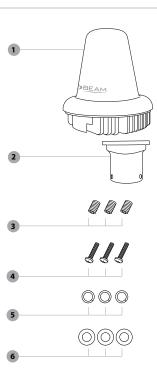
The antenna must be installed without obstruction of other instruments or structures. The antenna must not be positioned within range of radar equipment or other RF interference.

# Antenna Coverage



# Maritime Antenna Kit Contents

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





#### NOTE

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