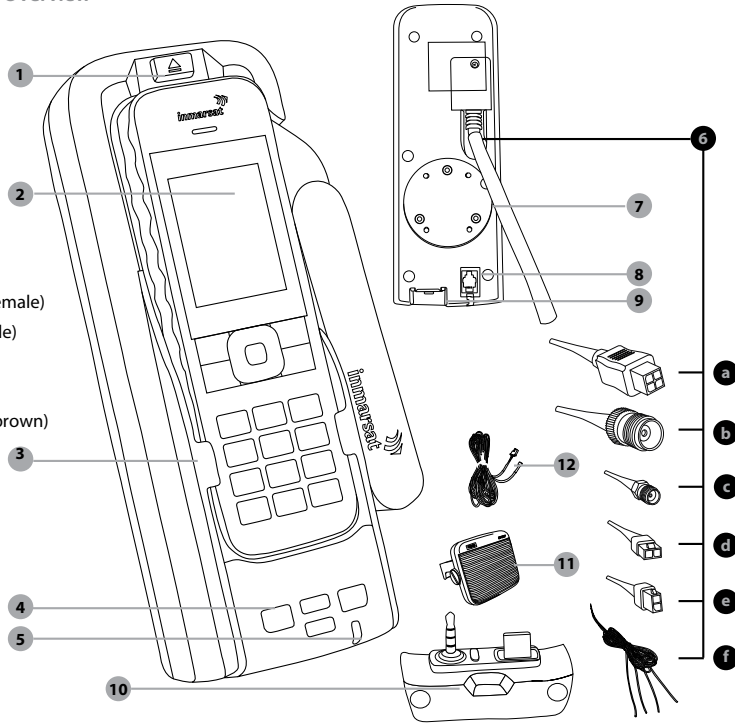## 1. IsatDock2 DRIVE Equipment Overview

1. IsatPhone 2 Eject Button
2. IsatPhone 2 (not included)
3. IsatPhone 2 Docking Tray
4. Function Buttons
5. Status Indication Light
6. Power Cable Loom
   a. Power Supply
   b. Satellite Connector (TNC-Female)
   c. GPS Connector (SMA-Female)
   d. Microphone
   e. Speaker
   f. BEAM Alert Loop (green & brown)
      Horn Alert (blue)

      Radio Mute (white)
7. RAM® Mounting
8. Privacy Handset Connection
9. Micro USB Data Connection
10. IsatDock2 Adapter
11. Speaker
12. Microphone

2. Specification Summary

Average Power Consumption Current @ 12V	Average	Watts
Power w/o IsatPhone 2	130mA	1.6W
Standby + Charging	360mA	4.3W
Transmit + Charging	875mA	10.5W
Sleep Mode	5mA	60mW
Peak Current	3.5A	42W
Physical Specifications	Metric	Imperial
Dimensions	229 x 99 x 76 (mm)	9.0 x 3.9 x 3.0 (inches)
Weight - dock	670g	1.47lbs
Total Kit Weight	1.67Kg	3.68lbs

Environmental Specifications		
Operating Range	-30ºC to +70ºC	-22ºF to +158ºF
Storage	-35ºC to +85ºC	-31ºF to +185ºF
Battery Charging Temp*	0ºC to +45ºC	+32ºF to +113ºF
Humidity		<=75% RH
I/O Alert		
1 x BEAM Alert Loop	Bare wire - "Normally closed" loop IN to OUT	
Personal Alert	In-built - single key press	
Connectors / Interfaces		
BEAM Antenna	TNC-Female	
GPS Antenna	SMA-Female	
10-32V DC	4-way microFit (AC/DC adapter, or DC lead)	
Privacy Handset Port	RJ9 connector	
Speaker	2-way microFit / Class D, >3W 8ohm	
Microphone	2-way microFit / 2.5V DC bias electret	

It is ideal for the ambient temperature to be approximately 18 degrees below the 45ºC upper limit for the handset to charge the battery whilst docked.

IsatDock2 **DRIVE**

Quick Start Guide
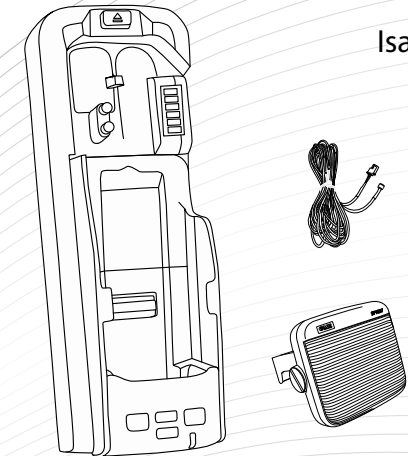


Suitable for the IsatPhone 2

3. Mounting Cradle

The IsatDock2 DRIVE is supplied with a universal RAM® mounting bracket that enables mounting to any flat surface (vertical or horizontal) within a vehicle, or other required location.

1. Attach one pivot base to the rear of the IsatDock2 DRIVE using the M4 screws and washers supplied.

2. Secure the second pivot base to the location you have selected for mounting the IsatDock2 DRIVE. (screws not supplied)

3. Use the interconnecting arm of the RAM® mount to secure the IsatDock2 DRIVE to the pivot base and tighten into the desired position firmly using the wing nut on the arm.
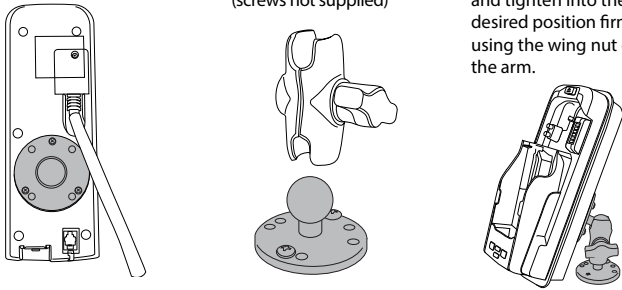
4. Antenna Connection

The antenna connections exit from the rear of the IsatDock2 DRIVE cradle, via the antenna loom. There are two RF connections required, the Satellite Connector (TNC-Female) and GPS Connector (SMA-Female).

1. Refer to the antennas installation guide for antenna mounting and location requirements.

2. Connect the antenna cable labelled "Inmarsat" to the IsatDock2's TNC connector

3. Connect the antenna cable labelled "GPS" to the IsatDock2's SMA connector

4. Connect the antenna cable labelled "Inmarsat" to the antenna connector labelled "SAT" via the SMA connector.

5. Connect the antenna cable labelled "GPS" to the antenna connector labelled "GPS" via the SMA connector

⚠️
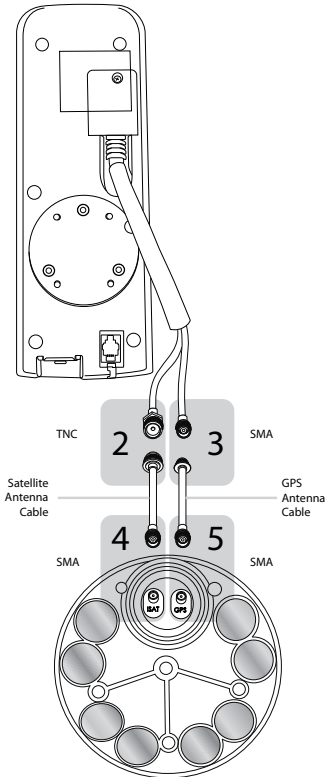
WARNING

DO NOT pull with force on the cables from the rear of the IsatDock2 DRIVE. Please install strain relief clamping for the antenna cables where required.

Correct installation of the antenna system is a vital part of the IsatDock2 DRIVE system, to ensure reliable functionality, and drop-free calls.

WARNING

Changes or modifications not expressly approved by BEAM Communications could void the product warranty.

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.

## 5. Docking and Un-docking your IsatPhone 2

1. Lift the antenna 'cover' and rotate through 180 degrees, then push down into the open position.

2. The 'cover' in the base of the phone should be rotated 180 degrees to be in the open position
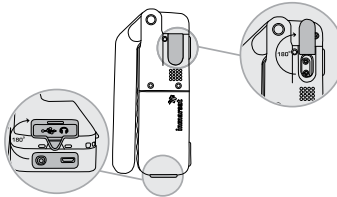

3. Detach the USB/Audio adapter from the dock and insert by hand in the base of the IsatPhone 2.
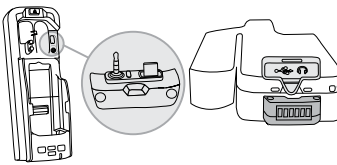
4. To dock the handset, open the antenna slightly, align the IsatPhone 2 with the phone tray and slide the handset down until it seats flush to the bottom of the tray. Swing the phone down into the cradle by applying pressure to the top of the handset. An audible 'click' is heard when the phone is in the docked position.
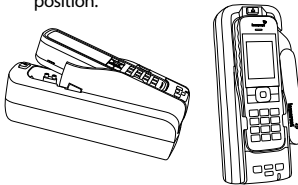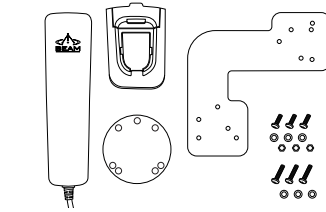

5. To remove the handset from the cradle, press the EJECT button at the top of the docking station. The dock will swing out and the handset can be removed.

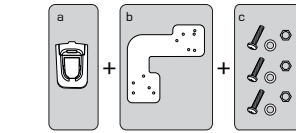6. Place the adapter back in its dedicated slot, when the phone is not in the docking unit.
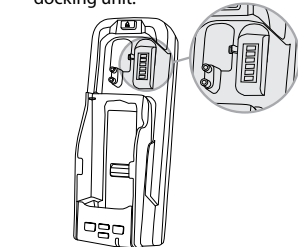
6. Privacy Handset (Optional - Extra Order)

The IsatDock2 DRIVE provides a RJ9 audio socket on the bottom of the docking unit, for connection to the BEAM privacy handset. This provides a local handset function, conveniently mounted next to the IsatDock2 DRIVE cradle.

1. The Privacy Handset Kit (purchased/ordered separately) contains a bracket, spacer plate, screws, washers and nuts.


2. Mount the handset cup to the bracket which can be installed to the left or right side of the dock. Use the washers and nuts behind the bracket to secure the cup.


[a] Handset cup   **[b]** Mounting bracket
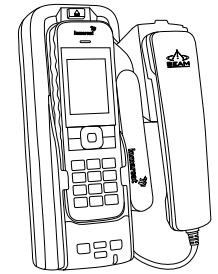**[c]** 3 x M4x14 screws, washers and nuts

3 screws M4x14   Left and right configuration

3. Mount the spacer plate and the mounting bracket to the rear of the IsatDock2 DRIVE, by using the longer screws provided with the kit. The original RAM® Base is also reinstalled on top of the plate and spacer. Install in the following order:
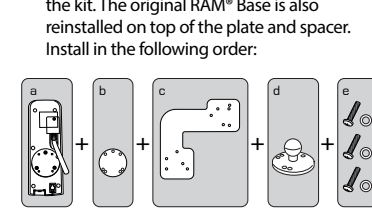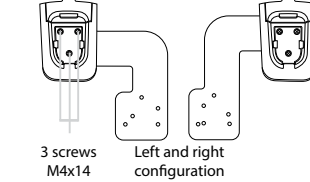
[a] Rear of IsatDock2 DRIVE   **[b]** Spacer plate
[c] Mounting bracket   **[d]** RAM® Base
[e] 3 x M4x18 screws and washers
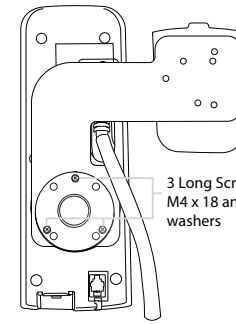
3 Long Screws M4 x 18 and washers

4. Plug the Privacy Handset RJ9 connector into the bottom of the docking unit.
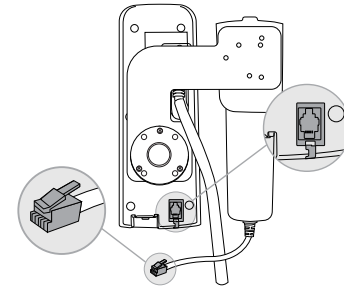
Privacy Handset mode is enabled when the handset is removed from the cup. Please ensure to re-dock the Privacy Handset when not in use.

7. IsatDock2 DRIVE Front Panel

Location	Button Mode	Action	LED/Sound
	Mute Press ON/OFF	**In a Call:** Mute the microphone (uplink) on the privacy handset if connected to cradle.	LED turns RED - Muted LED turns OFF - Not muted
OR	UP/DOWN	**In a Call:** Increase/decrease volume on the internal hardware or privacy handset (optional accessory) if connected to cradle.	Audio will sound louder/quieter in privacy handset with each press.
		Out of Call: Increase/decrease volume of incoming ring tone on the internal hardware speaker.	A beep will sound indicating the increased/decreased ring tone volume
	Single Press (1 second)	Send a Personal Alert message to the IsatPhone 2's pre-configured destination*	A beep will sound to indicate that a Personal Alert button was pressed.#
	Brightness dual button simultaneous press (1 second)	**Out of Call:** Enter LED brightness change mode. Press UP and DOWN arrows to vary intensity. Mode will automatically exit after 5 seconds after the last button press.	All LED's will change to WHITE and a double beep will sound when entering brightness change mode. A short single beep will sound when exiting change mode.

* This action is optional, only when the Personal Alert Mode for your IsatPhone 2 is configured.

 # A beep will only sound if audible alerts are enabled in the Falcon