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# Remote Satellite Systems

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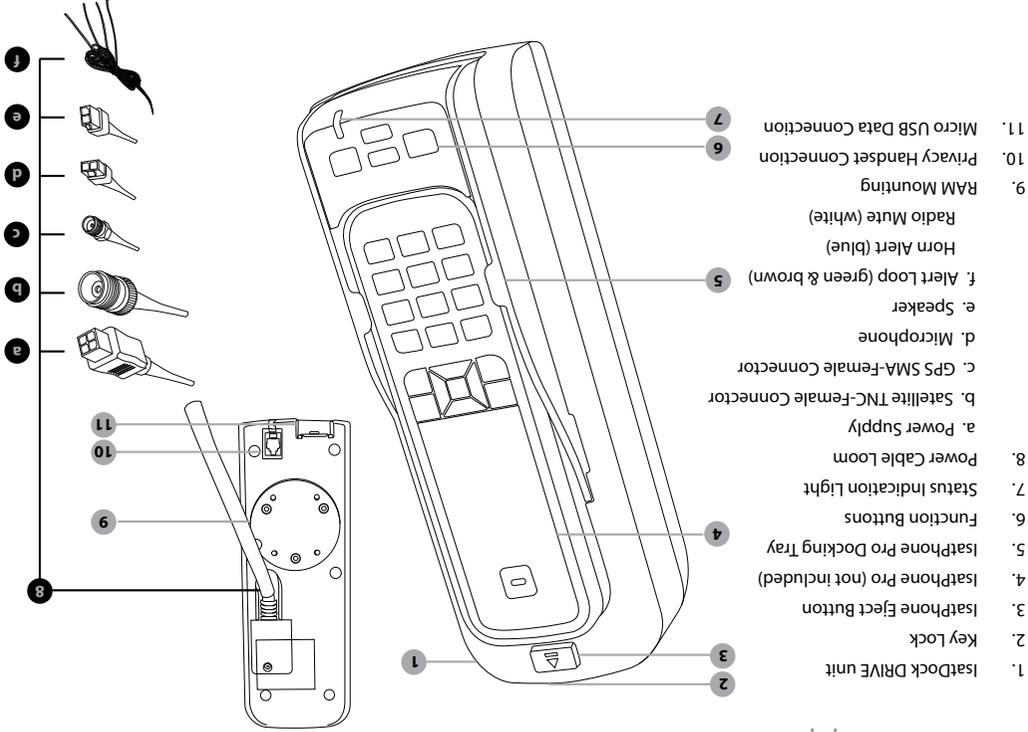
## IsatDock DRIVE

### Quick Start Guide



Suitable for the IsatPhone Pro

1. IsatDock DRIVE Equipment Overview



## 2. Specification Summary

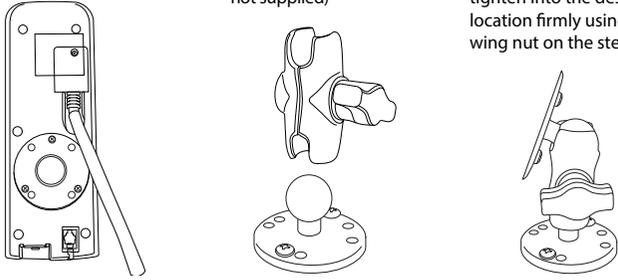
Physical Specifications	
Average Power Consumption @ 12V	1.6W
Power w/o IsatPhone	130mA
Standby + Charging	360mA
Transmit + Charging	875mA
Sleep Mode	60mW
Peak Current	3.5A
	42W
Environmental Specifications	
Operating Range	-30°C to +70°C -22°F to +158°F
Storage	-35°C to +85°C -31°F to +185°F
Battery Charging Temp*	0°C to +45°C +32°F to 113°F
Humidity	<= 75% RH
Dimensions	
Weight - dock	1.47lbs
Weight - kit	1.67kg
Dimensions (mm)	230 x 84 x 80
Dimensions (inches)	9.1 x 3.3 x 3.2
Connectors / Interfaces	
GPS Module (Internal)	14 tracking, 51 channel acquiring
Channels	1Hz
Update Rate	Position 2.5m CEP, Velocity 0.1m/s, Timing 300ns
Accuracy	Acquisition TTF Cold 29sec, Hot 1sec
Sensitivity	-161 dbm
Operational Limits	Altitude 18000m, Velocity 515m/s
Dynamics	4G
I/O Alarm/Alert	Alert Button in-built Two button press
Track	1 x alarm loop Bare wire - "Normally closed" loop IN to OUT
Connectors / Interfaces	In-built - single key press
Immarsat Antenna	TNC-Female
GPS Antenna	SMA-Female
10-32V DC	4-way microFit (AC/DC adaptor, or DC lead)
Privacy Handset Port	RF9 connector
Speaker	2-way microFit
Microphone	2-way microFit

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

### 3. Mounting Cradle

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

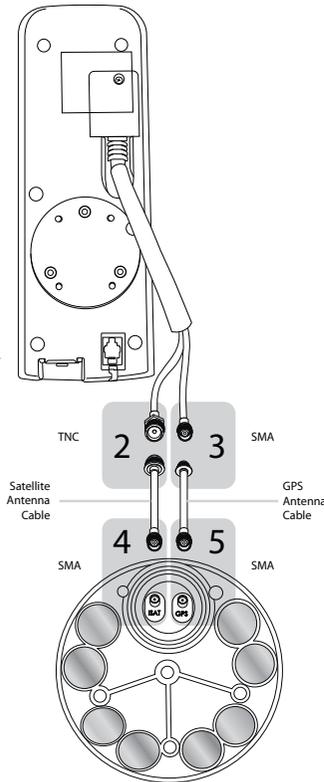
1. Attach one pivot base to the rear of the IsatDock DRIVE using the M4 screws and washers supplied.
2. Secure the second pivot base to the location you have selected for mounting the IsatDock DRIVE. (screws not supplied)
3. Use the interconnecting step of the RAM® mount to secure the IsatDock DRIVE to the pivot base and tighten into the desired location firmly using the wing nut on the stem.



### 4. Inmarsat Antenna Connection

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

1. Refer to the antennas installation guide for antenna mounting and location requirements.
2. Connect the antenna cable labelled “Inmarsat” to the IsatDock’s TNC connector
3. Connect the antenna cable labelled “GPS” to the IsatDock’s SMA connector
4. Connect the antenna cable labelled “Inmarsat” to the antenna connector labelled “ISAT” 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 IsatDock DRIVE. Please install strain relief clamping for the antenna cables where required.

Correct installation of the antenna system is a vital part of the IsatDock 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.

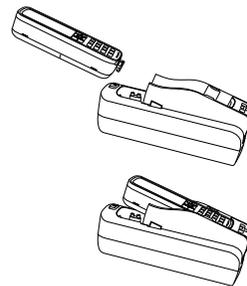
### 5. Docking and Un-docking your IsatPhone Pro

To place the IsatPro Phone into the docking unit, both the ‘covers’ on the external antenna connectors and the USB/Audio connectors need to be opened.

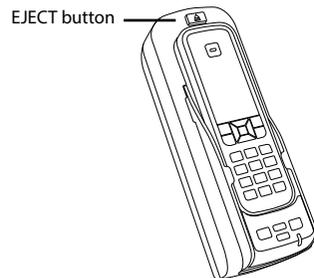
1. The antenna ‘cover’ must be placed at 90 degrees to the antenna connector cavity and run parallel to the top edge of the phone.
2. The ‘cover’ in the base of the phone should be in the a 90 degree opened position.



3. To dock the handset, align the IsatPhone 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.



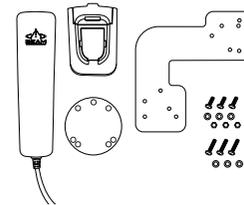
4. To remove the handset from the cradle, press the EJECT button at the top of the docking station. The dock will swing out and the handset can be removed.



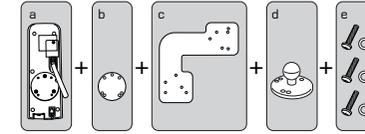
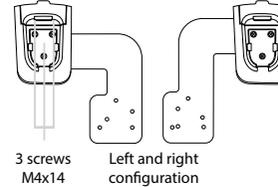
### 6. Privacy Handset (Optional - Extra Order)

The IsatDock 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 IsatDock DRIVE cradle.

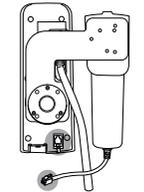
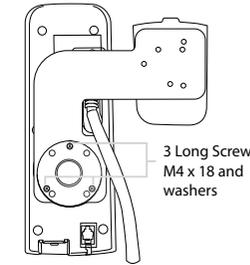
1. The Privacy Handset Kit (purchased/ordered separately) contains a mounting bracket, spacer plate, screws, washers and nut bolts.
2. Mount the handset cup to the mounting plate, it can be installed to the left or right side of the dock by simply rotating the bracket. Secure the cup with the washer and nut bolt behind the bracket.
3. Mount the spacer plate and the mounting bracket to the rear of the IsatDock DRIVE, by using the longer screws provided with the kit. The original RAM® arm-bracket plate is also re-installed behind these plates.
4. Plug the Privacy Handset RJ9 connector into the bottom of the docking unit, as per image below.



2. Mount the handset cup to the mounting plate, it can be installed to the left or right side of the dock by simply rotating the bracket. Secure the cup with the washer and nut bolt behind the bracket.



[a] Rear of IsatDock [b] Spacer  
[c] Mounting plate [d] RAM base  
[e] Mounting screws and washers



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. IsatDock DRIVE Front Panel

Location	Button Mode	Action	LED/Sound
	Mute Press on/off	<b>In a Call:</b> Mute the microphone (uplink) on the optional privacy handset, if connected to cradle.	LED turns RED - Muted LED turns OFF - Not muted
		<b>Out of Call:</b> Increase/decrease volume of incoming ring tone on the external speaker.	A beep will sound indicating the increased/decreased ring tone volume .
	Up/Down OR Down	<b>In a Call:</b> Increase/decrease volume on the external speaker or privacy handset (optional accessory) if connected to cradle.	Audio will sound louder/quieter in privacy handset with each press.
		<b>Out of Call:</b> Increase/decrease volume of incoming ring tone on the external speaker.	A beep will sound indicating the increased/decreased ring tone volume .
	Single Press (1 second) Single Press (7 seconds)	<b>In Tracking Mode*:</b> Send a tracking message to the pre-configured destination	A beep will sound to indicate that a tracking message is to be sent*
		<b>In Alert/Emergency Mode*:</b> Clear the alert/emergency mode and return to the Tracking mode.	LED changes from RED/YELLOW (solid or flashing) to GREEN*
	Two button press (2 seconds)	<b>In Tracking Mode*:</b> Activate the Alert/Emergency mode.	A beep will sound indicating alert/emergency mode is activated* LED changes from GREEN to solid RED. LED changes to flashing RED once the alert has been sent. LED will change to slow flashing YELLOW once the remote server has acknowledged receiving the alert.
	Brightness dual button simultaneous press	<b>Out of Call:</b> 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 single beep will sound when entering brightness change mode. A short double beep will sound when exiting change mode.

\* This action is optional, only when the Tracking Mode for your IsatDock DRIVE is configured and activated.

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