DEVICE DESCRIPTION OVERVIEW: The SHOUT tsM is a handheld, global, satellite personal tracker designed to operate with the Iridium low-Earth orbit satellite network. It provides location information determined by the selected receiver. It comprises an Iridium 9603 transceiver module; a Military GPS receiver; a GNSS receiver; an embedded 3800 mA-Hr battery, an Iridium antenna, an L1/L2 GNSS/M-Code antenna; and an IP67 screen display w/ protective overlay. The SHOUT tsM allows only SBD connectivity to the Iridium satellite network.

IMPORTANT: The SHOUT tsM antennas must have a clear view of the sky during transmission.

GNSS/M-Code L1/L2 Antenna (SMA)

Iridium Antenna (SMA)

Emergency Switch Cover

3.0" Resistive Touch Display

Micro DB-15 Connector Port (Key Fill/1-PPS)

USB-C (Power/Data) Connector Port

Indicator LEDs

Power Button

1

DEVICE DESCRIPTION

- ☐ **Micro DB-15 Connector Port:** The micro DB-15 connector port is IP-67 compliant. It is mounted on the side of the device above the USB-C connector port, and supports**:**

  - ➢ EKMS-308 Compliant Key-Fill

  - ➢ SHOUT Bidirectional Data Transfer Mode supporting Position-Only and Precise-Time transfers.

- ☐ **USB-C Connector Port:** The USB-C connector port is IP-67 compliant, and is mounted on the side of the SHOUT tsM device. It is used to power the device, charge the embedded battery, and data usage.
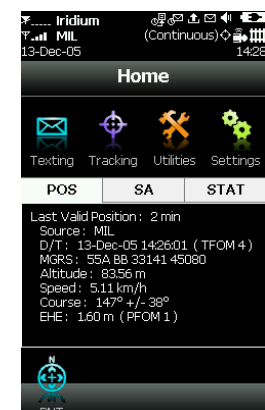
CHARGING BATTERY

- ☐ Fully charge the SHOUT tsM using a USB-C cable.
  NOTE: NAL Research recommends an AC adapter that is capable of 2.5A at 5V for fastest charging speed.

EMERGENCY MODE

- ☐ **Activate**: Slide the Emergency Switch Cover, and quickly press and release the Emergency button to trigger emergency tracking. When emergency tracking is active, the Emergency LED illuminates.

- ☐ **Deactivate**: Press/hold the Emergency button longer than three (3) seconds to take the SHOUT tsM out of emergency tracking.
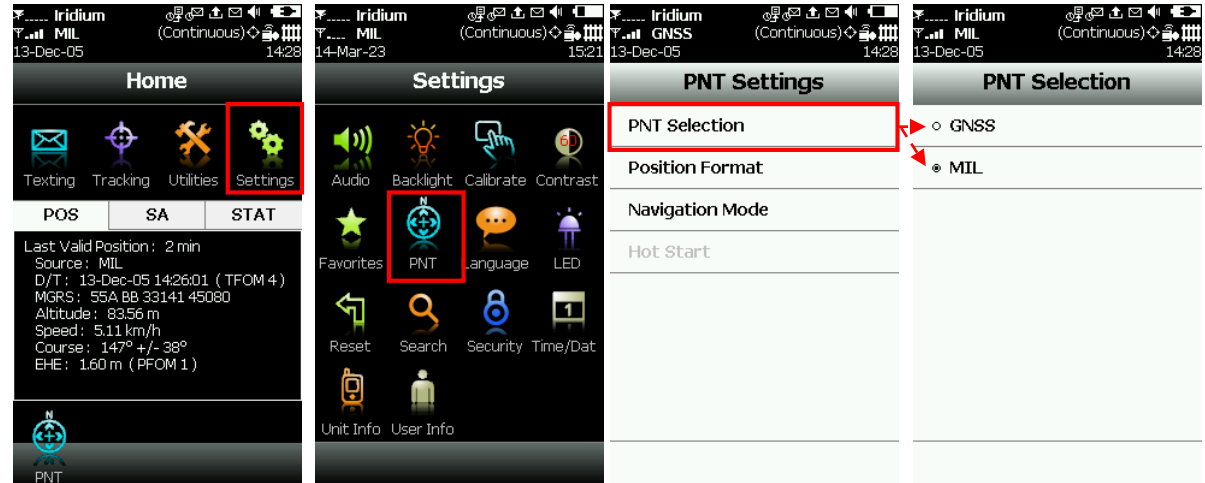
POWER-ON/NAVIGATE TO HOME SCREEN

1. Press the **Power** button (2-3 seconds).

2. Press **Press to Unlock** button.
   The Home screen displays.

2

Select Receiver

1. Press **Setting** on the Home screen.
   The Setting screen displays.

2. Press **PNT**.
   The PNT Setting screen displays.

3. Press **PNT Selection**.
   The PNT Selection screen displays.

4. Select **Commercial** or **MIL**.

Display MIL Status

1. Select **Utilities** from the Home screen.
   The Utilities screen displays.

2. Select **MIL**.
   NOTE: If the MIL encryption keys are not loaded, make the appropriate contact to load the encryption keys.