

SHOUT nano 100

Low-Profile Tracker with New Screen



New Screen

For stand-alone use or can be paired with your phone



Low Profile

Low SWaP for discrete tracking & communications



Custom App

Easy to use, bluetooth compatible with Android

Low-Profile Body-Worn Iridium® Tracker

NAL Research designed the SHOUT nano 100 with discretion in mind. This device sends position location information, communicates via 2-way messaging, pairs with an Android smartphone via bluetooth, and has a miniature screen for display of messaging and alerts so that it may be used as a stand-alone device.

The SHOUT nano 100 is a bodyworn tracker/messaging device weighing less than 3 ounces and is 60% smaller than the SHOUT ts in volume. Both the Iridium and GPS antennas are embedded inside the enclosure. The operating parameters for the SHOUT nano 100 are set by connecting your device to a computer via the USB port and using SatTerm or via the SHOUT app on your smartphone (which can be found in the Google Play Store).

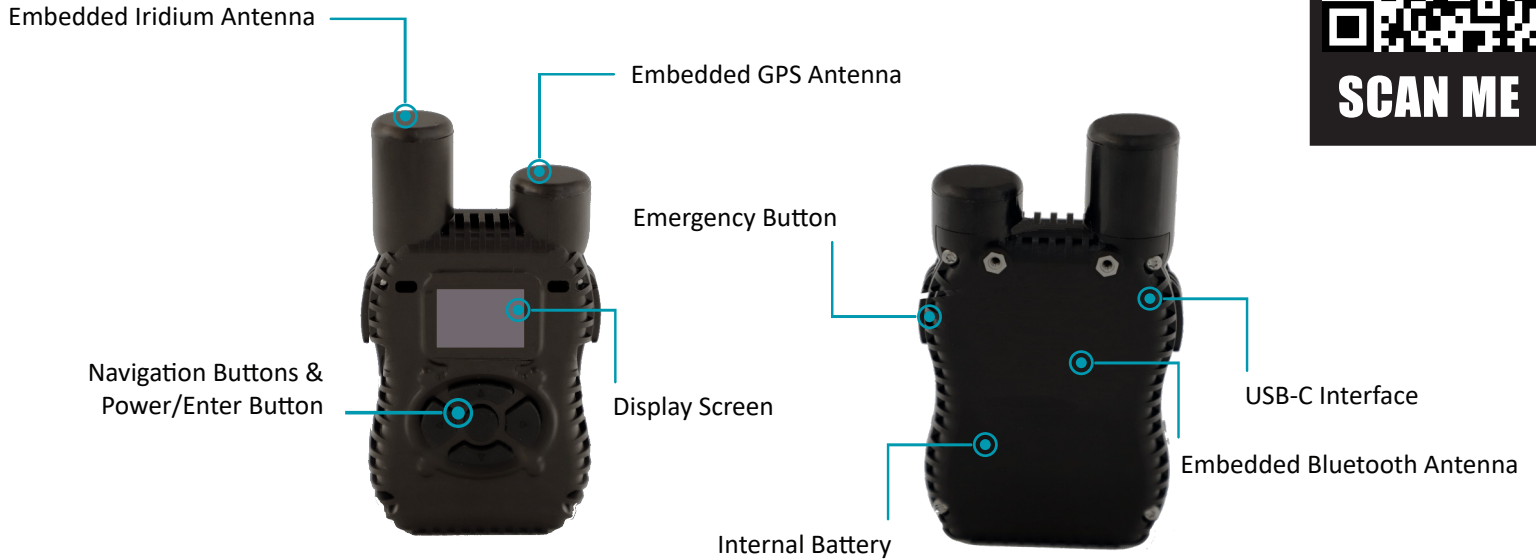
Data is packaged in either standard plain text or 256-bit AES encrypted format, and data can still be sent in encrypted PECOS formats, including Brevity codes. The SHOUT nano 100 can send tracking reports every 60 seconds, support transmission of messages or positions, and has an emergency alert switch for quick extractions.

Additional Features

- Low-Cost, Body-Worn Tracker
- Ultra Low Power Consumption
- DoD or Commercial Gateway
- Bluetooth
- Texting (Free-Text or Canned)
- 256-Bit AES Encryption
- Internal Rechargeable Battery
- Charging: AC, 12v, or Solar Chargers via USB-C
- Integrated Motion Sensor
- 72-Channel GPS Receiver
- IP67 Compliant
- Emergency Alert Switch
- Automated Location Reports
- Data Logging (Waypoints & Reports)
- Near Real-Time, Pole-to-Pole Coverage

SHOUT nano 100





What's In the Box?

- SHOUT nano 100
- USB-C Power Cable
- AC Wall Adapter

Technical Specifications

Weight:	3 oz (85 g)
Dimensions:	3.3" x 1.8" x 0.7" (76 x 46 x 18 mm)
Battery:	Internal 3.7V Li-Ion 2000 mAh
Software Interface:	AT Commands through USB UART
Operating Humidity:	< 75% RH
Operating Temperature:	-20°C to +60°C (-4°F to +140°F)
Environmental Rating:	IP67 Natural Convection Cooling
Mechanical / Emissions:	MIL-STD-810G / MIL-STD-461E
USB Input:	Type C USB 2.0 5V DC, up to 1A

Iridium RF Board

Operating Frequency:	1616 to 1626.5 MHz
Link Margin Downlink:	13 dB average
Link Margin Uplink:	7 dB average
Avg. Power Transmission:	1.0 W

GPS Receiver

Receiver Type:	1575.42 MHz (L1), 50-channel, C/A code
Accuracy:	2.5 m CEP
Update Rate:	4 Hz
Start-up Times:	< 1sec hot, 29 sec warm, and 29 sec cold
Sensitivity:	-160 dBm