

IRIDIUM™ HANDHELD TRACKER: SHOUT ts



- ✓ Low-cost tracker and messaging device
- ✓ Programmed for either DoD or commercial Iridium gateway
- ✓ Ultra-low power consumption
- ✓ Automatic location reports (>1500 reports)
- ✓ Guarded 911 alert switch
- ✓ High resolution touchscreen
- ✓ Free-text, canned messages or combined free-text and canned messages
- ✓ Data logging (waypoints and tracking reports)
- ✓ 256-bit AES encryption
- ✓ Real-time, pole-to-pole coverage
- ✓ Weighs ~7.2 ounces
- ✓ Volume of 4.1" x 2.3" x 0.9"
- ✓ Internal rechargeable battery using AC adapter, computer USB port or solar charger
- ✓ Integrated motion sensor
- ✓ USB interface
- ✓ 50-channel GPS receiver with -160 dBm sensitivity

HANDHELD TRACKER/MESSAGING DEVICE: SHOUT ts

The SHOUT ts is a handheld, global, two-way satellite messaging and personal tracking device. It utilizes Iridium's short burst data (SBD) service to provide location information determined by a GPS receiver, two-way inbound and outbound status, text messaging, and emergency/alert notifications. The ts measures 4.1" x 2.3" x 0.9" and weighs ~7.2 ounces.

The ts is designed with ultra-low power consumption electronics drawing less than 35µA during sleep. With an internal 1.95 A-Hr rechargeable Li-Ion battery, it can send a position report every hour for up to two months (about 1,500 reports). The ts is equipped with a high resolution color touchscreen supporting transmission of free-text, canned messages and a combination of free-text and canned messages. Similar to a "smart" phone, the menu options are displayed as icons for quick access. The device can periodically wake up from sleep to send its position report to a command center. A 911 button is used for immediate emergency/alert notifications. Data are packaged in either standard or 256-bit AES encrypted format. Data can also be sent in encrypted PECOS formats to include Brevity codes.

The ts offers a variety of services including:

- Normal Tracking — programmed to automatically wake up and send a position report at a set interval ranging from continuous to once every seven days.
- Emergency Alert — sends alerts to a designated monitoring center using a 911 button. The monitoring center and the user can then communicate to define further specifics of the emergency.
- Free-Text Messaging — sends free-text via four different sets of on-screen keyboards.
- Canned Text Messaging — sends canned (pre-defined) messages in short codes to save bandwidth instead of the entire message body.
- Waypoint Tracking — sends and/or saves waypoints (interested landmarks) for later retrieval.
- Check-In — allows a quick check-in message to be sent using a single soft key.

IRIDIUM HANDHELD TRACKER
POWERED by the IRIDIUM NETWORK



IRIDIUM™ HANDHELD TRACKER: SHOUT ts



- ✓ Pocket-size, self-contained satellite tracker
- ✓ Ultra-low power consumption
- ✓ AES 256-bit encryption both transmit/receive
- ✓ Two-way communications
- ✓ Real-time reporting
- ✓ Truly global coverage

Specifications

Mechanical

Dimensions:	4.1" L x 2.3" W x 0.9" D
Weight:	~7.2 Oz
I/O Interface:	USB
Cooling:	Convection
Enclosure:	Hard-Anodized Aluminum

Electrical

Input Voltage Range:	2.7VDC to 5.5VDC
Input Nominal Voltage:	4.0VDC
Power consumption during standby:	less than 35µA @ 5.0VDC
Power Input Type:	External DC power or internal battery

Iridium RF Board

Operating Frequency:	1616 to 1626.5 MHz
Link Margin Downlink:	13 dB average
Link Margin Uplink:	7 dB average
Average 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:	< 1 sec hot start, 29 sec warm start and 29 sec cold start
Sensitivity:	-160 dBm

Environmental

Operating Temperature:	-40°F to +185°F (-40°C to +85°C)
Operating Humidity:	< 75% RH

IRIDIUM™ HANDHELD TRACKER: SHOUT ts



- ① Power/Back: 1. Used to turn device ON/OFF when hold down for two seconds or
2. Used to go back to a previous menu.
- ② LED: Displays tracking and emergency statuses.
- ③ USB Port: Used to charge the battery, update firmware or setup operating parameters using a computer.
- ④ Touchscreen: Used to access device features.
- ⑤ Antenna: Iridium antenna.
- ⑥ Antenna: GPS antenna.
- ⑦ Guard: Protects emergency button from being accidentally activated.
- ⑧ Emergency: Used to send an emergency alert/notification.