

SITENAV

What is a Base Station Radio?

A mobile GNSS base radio is a device that transmits differential corrections to GNSS receivers to improve the accuracy of their positioning data. It functions as a reference station by sending correction signals in real time, reducing errors caused by factors such as atmospheric disturbances and satellite clock inaccuracies.



Benefits of the Sitenav Radio Base

- 1 Reduced Ionospheric Effects:** Mobile bases minimize disruptions caused by solar and geomagnetic storms, improving the accuracy of GNSS measurements.
- 2 Increased Accuracy:** By being close to the mobile receiver, the base provides real-time corrections, enabling precise and reliable positioning.
- 3 Flexibility & Reduced Cost:** A single base station can transmit corrections to multiple receivers without requiring a subscription per device, lowering both costs and complexity.
- 4 Compatibility:** Mobile base stations are compatible with different types of GNSS receivers, allowing professionals to use their existing equipment.
- 5 Sharing:** Our mobile bases can be shared across all of our guidance solutions. The GNSS antennas are identical to those used on excavators, bulldozers, and stakeout poles.
- 6 Easy Installation:** Bases can be installed on a tripod or a building, offering great flexibility in use.

TECHNICAL SPECIFICATIONS

Type: GNSS receiver that can be used as a base station or rover.

Coverage / Signal Tracking: GPS, GLONASS, Galileo, BeiDou, and QZSS.

Protection Rating: IP68

Accuracy: ±2 cm up to a radius of 7.5 km, depending on terrain topography (open terrain).

Features: Real-time tracking, compatibility with 2D and 3D guidance systems, Bluetooth connection to eliminate cables.

Battery Life: The CTI40T provides an average of 12 hours of continuous use, depending on usage conditions and configuration settings.

Fast Charging: Secure, extended battery life of an additional 20 hours thanks to the included 50,000 mAh power bank.

Radio Protocols: Trimtalk 450S 4800 / Trimtalk 450S 9600 / Satel 3AS 9600 / Satel 3AS 19200, and for RTCM corrections in 3.0 or 3.2.

Free Radio Frequencies Included: 444.5500 / 444.8375 / 444.9875

PACKAGE COMPOSITION

- ✓ Spotman GNSS Tilt
- ✓ Quick-Release Male
- ✓ Female Radio Base Case Kit
- ✓ Aluminum Tripod
- ✓ Stonex Base: Optical Plummet
- ✓ Fixed GPS Adapter
- ✓ Mini Aluminum Pole
- ✓ SITENAV Sticker for Case

ARCEP

ARCEP is responsible for managing and regulating radio frequencies in France. Any use of radio frequencies requires prior authorization to prevent interference and ensure efficient use of the radio spectrum. Authorization from ARCEP is required to operate on public radio frequencies.



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