

Spectra Precision EPOCH 35 GNSS FAQ

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Frequently Asked Questions about EPOCH 35

Product Definition

What is the EPOCH 35 GNSS system?

The Spectra Precision® EPOCH® 35 GNSS system is a real-time positioning system combining proven GPS + GLONASS technology with easy-to-use Survey Pro™ field software and an ultra-rugged Microsoft® Windows Mobile® data collector. The complete system consists of:

- Spectra Precision EPOCH 35 GNSS base receiver
- Spectra Precision EPOCH 35 GNSS rover including internal data link radio modem
- Data collector and field software options:
 - In the USA, Canada and Puerto Rico, the TDS Recon®, Nomad™ or Ranger™ data collector with Microsoft Windows Mobile operating system running TDS Survey Pro software version 4.7 or later.
- Pacific Crest PDL base data link radio modem (HPB or LPB) with accessories
- Spectra Precision Survey Office software

Marketing Overview

What are the key messages for the EPOCH 35 GNSS?

1. The EPOCH 35 GNSS technology and system is rugged for all conditions.
2. The EPOCH 35 GNSS and its positional outputs are reliable and precise.
3. The field software and operating system running on a Windows Mobile data collector is field-proven, user friendly and easy to learn.
4. The EPOCH 35 GNSS provides a significant increase in the speed and efficiency of data collection and field staking, therefore maximizing your return on investment.

Who are the target customers for the EPOCH 35 GNSS?

EPOCH 35 GNSS target customers are:

1. Surveyors who are new to GPS or GNSS surveying and desire increased productivity
2. Traditional Nikon total station customers who need easy-to-use software
3. Surveyors who need an affordable high-precision GNSS solution
4. Current TDS Survey Pro customers who only use a total station but have the need for GNSS capability
5. Existing GPS customers (L1 or L1/L2) who wish to gain benefit from a GNSS RTK system

FAQ Bulletin



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What are the key features of the EPOCH 35 GNSS and TDS Survey Pro field software?

Feature	Benefit
EPOCH 35 GNSS uses GPS + GLONASS signals	Combining both these satellite services provides the user with the greatest possible satellite coverage, allowing observations in areas where only one satellite solution would not provide results – resulting in increased productivity.
RTK- real-time positioning	The Spectra Precision EPOCH 35 GNSS uses highly accurate Global Positioning System (GPS) and GLONASS technology for cadastral, topographic, control, stakeout and other precision survey applications.
Network RTK positioning	The TDS Survey Pro field software and the EPOCH 35 GNSS combine to connect to any Network RTK solution supported simply by connecting to an external data capable cellular modem.
Flexible multi-purpose design	The base and rover can be used for RTK or post-processing needs. Flexible enough to be set up as an integrated on-the-pole solution or on a surveyor's tripod.
Compact, lightweight and portable	Built especially for tough surveying conditions, the compact and lightweight EPOCH 35 GNSS handles drops, extreme temperatures, dirt and water.
Rugged transport case built for performance under stress	Easy to transport. Carry two receivers, accessories and a data collector in one case, confident they are protected while in transit.
Low power consumption	A full internal rover battery lasts for 5.5 hours under normal operating conditions – two batteries are supplied standard for a full day's work.
Choice of TDS Recon, Nomad or Ranger	Adding the TDS Recon, Nomad or Ranger to your sales bundles will allow users to have full control over surveys with the fastest field computers in the market.
Industry-standard Microsoft Windows Mobile operating system	Familiar user interface (UI) is easy to learn and use. Run other specialized Windows Mobile programs to enhance productivity. Useful programs come standard, e.g., Word Mobile.
User friendly field software for simple setup with intuitive workflow	Minimal training is needed so you can put the system to work right away. You save time and keep the learning curve low even for first-time GNSS users.
Field software localized into different languages	Well suited for multi-lingual survey organizations and work sites. Languages supported: English, Spanish and French.
Affordable GPS + GLONASS integrated receiver	Spectra Precision quality products are designed to meet the needs of every surveyor.

What applications is the EPOCH 35 suited for?

The main applications survey customers should use this product for are:

1. Cadastral
2. Topographic
3. Control
4. Stakeout surveys
5. Any applications where RTK can be used.

What languages are supported by Survey Pro 4.7?

Survey Pro 4.7 supports English, Spanish and French.

Spectra Precision EPOCH 35 GNSS Receiver

How are the EPOCH 35 GNSS base and rover different?

1. The EPOCH GNSS base can be used as a base receiver or as a rover in a Network RTK using an external GPRS data modem.
2. The EPOCH 35 GNSS base does not have an internal radio. It cannot receive RTK corrections and cannot be used as a rover. It may be connected to an external radio for broadcast of RTCM /CMR corrections. The EPOCH 35 base can log raw data for post-processing with a SD expansion card.
3. The EPOCH 35 GNSS rover can only be used as an RTK rover and uses a RTCM/CMR+ data correction formats.

What is the operating time for the internal battery in the EPOCH 35 GNSS rover?

The removable and rechargeable internal battery has a specified operating time of 5.5 hours. Two batteries are supplied to provide for a full day's work.

Can I purchase additional rovers?

Yes. Additional EPOCH 35 rovers may be purchased individually.

Does the EPOCH 35 GNSS receiver support Bluetooth?

Yes, the EPOCH 35 receivers have internal Bluetooth for cable-free communications to the data collector.