

**Trimble GNSS Surveying Systems:
The satellite surveying power you need today...and tomorrow.**



 **Trimble**
GNSS SYSTEMS



Trimble has pioneered significant advancements in the field of GNSS surveying. Surveyors using Trimble systems were the first to access static and kinematic postprocessed surveying. Now, with advancements in GPS Modernization, GLONASS and Galileo, surveyors everywhere can count on Trimble to continue providing superior GNSS solutions.



TRIMBLE® GNSS SOLUTION

Trimble innovation in GNSS surveying provides the most advanced receiver technology in the industry, and the most complete surveying solutions. Our workflows unify hardware and software systems that empower surveyors and project managers to achieve more.

TRIMBLE'S CONNECTED SITE MODEL

Partnering with Trimble places the right tools and techniques at your fingertips in the field and office. Trimble surveying systems seamlessly integrate via shared workflows and technologies, making your everyday job site a place where the whole is greater than the sum of its parts; this is Trimble's Connected Site model.

With the Connected Site, Trimble work solutions handle the “back end” so you can focus on the business elements most important to you—the work you do best. Building a Connected Site with Trimble enables your business to incorporate seamless workflows—reducing rework and maximizing productivity to help elevate your business to the next level.

Through every stage of your surveying project, a Trimble GNSS system ensures you're working at optimal efficiency and with the utmost confidence in your work.



CONTROL

When you need to establish control, a Trimble GNSS solution delivers the highest possible accuracy...fast. Use the Trimble® R8 GNSS for cable-free convenience, or the Trimble® R7 GNSS with its separate geodetic antenna for reduced multipath interference. Putting your GNSS system to work with an optical system enables you to verify all data independently for even greater surveying quality control.

TOPOGRAPHIC

For topographic work, Trimble GNSS systems are unrivalled for field performance. Lightweight, cable-free and rugged, they'll go almost anywhere you need to. And since they're able to track all available satellite signals, Trimble systems give you the confidence to use GNSS in the most challenging environments.

TRIMBLE GNSS SOLUTIONS SUPPORT EVERY STAGE OF EVERY JOB

Trimble rovers and base stations offer numerous features to make your job in the field faster and easier.



Reduce rework and increase productivity: All Trimble surveying solutions help keep engineering and construction projects on track and profitable.



Trimble GNSS solutions are scalable and flexible. Choose the system configuration and level of GNSS support that will best support your application and business needs.

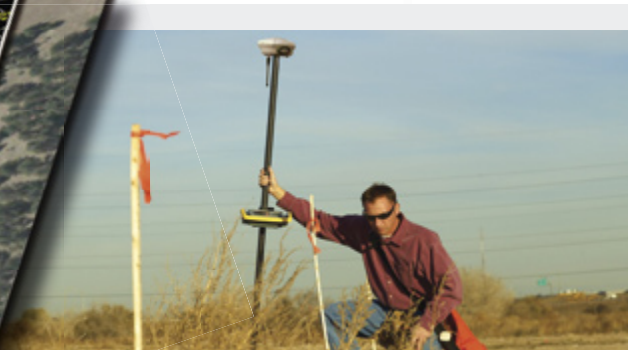


DESIGN

A Trimble GNSS solution supports your workflow with seamless data transfer between the field and office. For instance, after a topographic survey, send your data via e-mail from your Trimble field software to your office software. When processing and design work in the office is complete, exporting the design file back to your Trimble controller is just as easy.

STAKEOUT

Now staking out can be completed almost as quickly as you can walk. And you can measure at speed without sacrificing accuracy—you won't have to return to the job to re-measure. You can also use your controller for field calculations and graphically navigating to points in the field.



With a Trimble GNSS solution, not only can you experience the latest in GNSS satellite support, you can also choose the system configuration that best suits your application. All Trimble GNSS systems are designed with the most efficient workflow in mind.



The Trimble R8 GNSS receiver features full Trimble R-Track technology capability with L2C, L5, and GLONASS support.



The Trimble R6 GPS offers an R-Track option providing GLONASS.

TRIMBLE INTEGRATED SYSTEMS: TRIMBLE R8 GNSS AND TRIMBLE R6 GPS

The Trimble R8 GNSS and Trimble® R6 GPS systems share an integrated design in which the GNSS receiver, antenna, radio-modem, and battery are combined in one compact unit. This field-proven configuration gives surveyors the latest in GNSS technology in a user-friendly system that is lightweight, rugged, and cable free.

GNSS SYSTEMS FOR ALL YOUR LAND SURVEYING NEEDS

COMPLETELY CABLE-FREE AS A BASE OR ROVER.

Switch between base and rover functions quickly, and increase productivity with easy setup and cable-free convenience. Integrated Bluetooth® technology enables cable-free communication between the receiver and your controller. An internal Ultra-high Frequency (UHF) receive/transmit radio option makes an external radio unnecessary.

INTERNAL GSM/GPRS MODEM FOR NETWORK ROVING

An internal GSM/GPRS module creates a clean and efficient field solution for Trimble® VRS™ network users. No external cell phone is required.

RUGGED AND LIGHTWEIGHT

Both receivers are built to survive a 2 meter (6.6 feet) pole drop and can be submerged in 1 meter of water. The entire system, including batteries, range pole, and controller weighs just 3.7 kg (8.2 lb).

MINIMAL POWER CONSUMPTION

Power consumption is less than 3.1 W, so batteries last longer. Fewer changes in the field are required.

INTERNAL MEMORY

For efficient data logging on postprocessing surveys, the Trimble integrated receivers include an internal memory that supports 300 hours of data logging.

TRIMBLE R-TRACK TECHNOLOGY PUTS YOU ON TRACK FOR THE FUTURE OF SURVEYING

Trimble® R-Track™ technology inside Trimble receivers enables you to take advantage of the latest GNSS signals. Receivers such as the Trimble R8 GNSS and Trimble® R7 GNSS systems deliver maximum productivity to professional surveyors by utilizing modernized GPS L2C and L5, and GLONASS L1/L2 signals. Trimble R-Track using GPS L2C and L5 future-proofs your investment in GNSS technology for years to come.





TRIMBLE MODULAR SYSTEM: TRIMBLE R7 GNSS

The Trimble R7 GNSS receiver offers the same comprehensive GNSS support as the Trimble R8 GNSS, but in a modular design that employs an external GNSS antenna. Its integrated RTK radio link features a built-in, high performance 20 MHz span UHF radio modem receiver, with up to 20 channels.

SUPPORTING THE UNIQUE WAYS YOU NEED TO WORK

FLEXIBLE ANTENNA OPTIONS

Pair the receiver with the Trimble® Zephyr™ 2 antenna for roving flexibility: Carry the receiver on the pole, wear it in the purpose-built Trimble backpack, or drive with the Trimble R7 GNSS inside your vehicle. Use the Trimble® Zephyr Geodetic™ 2 ground plane antenna to minimize signal multipath at your base, providing the “cleanest” data.

DURABLE DESIGN

A magnesium alloy case beats the toughest mechanical and waterproofing specs in the business.

HIGH-CAPACITY COMPACTFLASH

Up to 256 MB of internal, removable CompactFlash memory stores more than 4,600 hours of continuous 15-second GPS and GLONASS data collection.

TAKE CONTROL OF ANY SURVEY WITH A POWERFUL TRIMBLE CONTROLLER

Trimble controllers provide a single, easy-to-use Windows-based interface for all your tasks and all your instruments, including optical. Collect data in one job file on one controller, then transfer it seamlessly to Trimble office software. The latest Trimble® TSC2® and Trimble® CU controllers include:

ADVANCED COMMUNICATION TECHNOLOGIES FOR GREATER FIELD EFFICIENCY

Easily send and receive files by e-mail and via the Internet using an external cellular modem. Bluetooth technology provides cable-free communication.

FUNCTIONAL GRAPHIC DISPLAY

The color touch screen makes software navigation quick and easy, and the graphic display gives real-time feedback.



Trimble focuses not only on delivering the best possible surveying products, but also on providing complete surveying solutions. Trimble Integrated Surveying, where GNSS and optical techniques are seamlessly combined, has become the industry standard for optimal workflow support.



GNSS AND OPTICAL SYSTEMS: SYNERGY AT WORK

Until recently, surveyors had to choose between either GNSS or optical surveying. But now at Trimble, the two belong together as complementary parts of one surveying solution

In the 1990's the first data collector software with the ability to combine data from both techniques was introduced. The Trimble® Integrated Surveying™ solution—which has become an industry standard—allowed surveyors to use one interface for both sensors. The data from both techniques was combined in one job for easy data management and file transfer.



Still invaluable today, the original Integrated Surveying solution evolved with today's technology. Support for the newest sensors is being added all the time, and GNSS and optical are becoming more and more integrated.

TRIMBLE I.S. ROVER:



Increase flexibility and save time: Total stations are well suited to small surveying areas with clear lines of sight; GNSS is well suited to large surveying areas with no overhead obstructions. Seamlessly switch between techniques as your job demands.

Quickly reacquire a lost prism: A unique function in Trimble field software, GPS Search employs GPS to quickly locate a lost prism. In just 3 seconds the Trimble® S6 Total Station can find the correct position and lock onto the robotic rover. This feature on the Trimble I.S. Rover can save a surveyor minutes upon minutes every day, adding up to considerable time and cost savings.

TRIMBLE I.S. ROVER: CONTINUING THE PATH OF INTEGRATION

The Trimble® I.S. Rover is a unique, patented solution that integrates GNSS and optical data collection on one rover pole. All you need is a Trimble robotic total station such as the Trimble S8 and a Trimble R8 GNSS surveying system to enhance productivity in virtually any application. Simply attach a prism to the GNSS rover and you're ready to go.

GNSS SYSTEMS FOR YOUR LAND SURVEYING NEEDS

Whatever your surveying application, a Trimble solution will help you work faster and smarter. Built on a foundation of reliable service, equipment and software, Trimble GNSS systems are designed to support all surveying applications, including:

- Land Surveying
- Cadastral & Boundary Surveying
- Engineering & Construction Surveying
- Geodetic & Control Surveying
- Seismic, Exploration, and Natural Resources
- Utilities & Transportation

By offering integrated solutions with leading-edge innovation, Trimble ensures premier productivity and return on investment. From GNSS to optical, application software to infrastructure, you can rely on Trimble for unparalleled accuracy and reliability for all of your surveying needs.



Improve efficiency on control surveys: Use GPS to establish control over larger areas for total station surveys; use optical technology to quickly establish local GNSS calibration parameters.

Independently verify measurements in a single point occupation: Applications such as cadastral surveys often require independent verification. Measuring points with both GNSS and optical technology provides an efficient and effective way to verify measurements.





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