The Trimble S6 Total Station—the sum of everything you've been hoping for

Trimble

TRIMBLE S6 TOTAL STATION

Real productivity comes from a powerful interaction of technology, ergonomics and software. With significant advances in all three, the Trimble S6 Total Station is the sum of everything you've been hoping for.

Fast. Silent. Precise. The Trimble® S6 Total Station redefines these words with exceptional servo and angle sensor performance. Based on fifty years' experience in total station technology, the Trimble S6 has been engineered with innovative MagDrive™ servo technology, state-of-the-art electronics, and modern communication protocols. And the result? The most advanced optical total station in the world.

TRIMBLE S6 TOTAL STATION

MULTITRACK TO CONVENTIONAL PRISMS
The Trimble S6 contains MultiTrack™ technology, which combines passive prism tracking with active Target ID to provide exceptional flexibility and performance. The instrument will lock and track a wide variety of targets and conventional prisms to exceptional range. Its flexibility expands opportunities in all surveying applications.

MAGDRIVE SERVO TECHNOLOGY
Aiming is faster and more precise than ever before. Trimble's MagDrive servo technology silently spins the instrument through 180º in three seconds, while still providing ultra-fine control for precise pointing.

SUREPOINT ACCURACY ASSURANCE
For the highest possible positioning accuracy, the Trimble S6 offers SurePoint™ technology. SurePoint guards against the sinkage, vibration, and handling that can affect an instrument after setup. Its automatic pointing correction monitors and corrects the effects of tilt axis and collimation, so you can measure with speed and confidence.

DR TECHNOLOGY
Direct Reflex (DR) technology from Trimble enables measurement without a prism even to extreme distances. Hard-to-reach or unsafe targets are no obstacle to the Trimble S6. Measure quickly and safely without compromising accuracy.

The sleek Trimble S6 Total Station is a 100% cable-free total station even in Robotic mode.

COAXIAL OPTICS, EDM, TRACKER, LASER POINTER
In Face 1 or Face 2, whether aiming manually or with the tracker, the Trimble S6 lets you measure exactly what you see. The Trimble S6 optics by Carl Zeiss are fully coaxial for full measurement confidence.

SERVO FOCUS
For comfort and speed the servo-driven focusing knob is located on the side cover. Now all sighting controls are under one hand and you never have to take your eye away from the scope. When you're ready to measure, the trigger button is right under your thumb.

INTERNAL SMART BATTERY
The Li-Ion internal smart battery provides six hours operating time in Robotic mode. The smart battery also displays accurate battery discharge information.

FACE 2 DISPLAY
For convenient Face 2 measurements all important data is available on a second display on the back of the instrument. The simple keyboard allows Face 2 measurements to be easily performed at MagDrive speed.

FULL VERTICAL OPERATION
The new ergonomic design of the handle is not only more comfortable to carry, it also allows full vertical measuments. For scanning, the handle can be removed for unobstructed measurements.

TRIMBLE S6 ROBOTIC ROVER

TARGET ID
With Target ID in Trimble's MultiTrack technology you can always find and lock to the correct target. Save time by eliminating lock onto false targets. Up to eight Trimble S6 instruments with Target ID can be used on a site, each separated with a unique ID.

UPGRADABLE
The Trimble S6 is completely upgradable from Servo to Autolock® to Robotic. Start with the instrument you need and it will grow with your business.

The Trimble S6 Robotic Rover is 100% cable free when used with the new Trimble® CU controller. The controller, radio, and battery are integrated in a compact lightweight holder.

To be competitive in today's survey world you need tools that are ready to take on new challenges when the time comes.

AN INSTRUMENT THAT GROWS WITH YOUR BUSINESS

Acquire the Trimble S6 with the functionality you need today, and upgrade seamlessly as your business needs expand. All components of the Trimble S6 system support your upgrade path, from the instrument to the field software. You can start with a servo-only instrument, expand into Autolock, and then explode into full Robotic … protecting your investment all the way.

IT'S YOUR CHOICE: SERVO, AUTOLOCK, OR ROBOTIC

TRIMBLE S6 SERVO
The Trimble S6 Servo Total Station provides all the exceptional benefits of the Trimble S6, including MagDrive servo technology, SurePoint accuracy assurance and DR measurement. And it's ready to grow when you do.

TRIMBLE S6 AUTOLOCK
With an upgrade to Trimble's proven Autolock system customers receive automatic locking and following of passive targets. Tasks such as measuring a round of angles can then be completely automated.

Autolock eliminates the repetitive locking and unlocking of motion locks and telescope focusing. As a result, many users report that adding the Autolock module to their servo instrument doubles productivity in the field.

TRIMBLE S6 ROBOTIC
For the ultimate in automated surveying, the robotic configuration allows you to detach the controller from the instrument and clip it into the controller holder on the rod. This holder contains an integrated 2.4 GHz radio for communication.

You can control all the functions of the Trimble S6 from the rod as you move through the job site making measurements. Since you don't have to communicate with a rod person there's no lag in measurement time. Now a single surveyor can perform high accuracy stakeout or topographic surveys by themselves.

And best of all, your most experienced crew member can control the survey from the cable-free rod, which can significantly improve the quality of your surveys.

A WORLD OF APPLICATIONS AT YOUR FINGERTIPS

CONTROL
Start with the unmatched accuracy of the Trimble S6 and add the advanced field data management software in the controller. You'll find that bringing in control is faster than ever before. Automated routines check your work as you go, virtually eliminating costly revisits.

TOPOGRAPHIC SURVEYING
With Autolock and MagDrive servo technology you can measure and log points as fast as you can walk. The graphic map updates with the points you've collected in real time so it's easy to see what you've done and where you need to go next.

STAKEOUT AND ROADING
Trimble software automates the stakeout of points, centerlines, offsets, slopestakes, and more. A graphic representation of the road cross-section clearly shows your position relative to the road. The instrument quickly guides you to the target and provides cut and fill information. And with robotic surveying you'll increase your stakeout productivity by 80%.

LONG-RANGE DIRECT REFLEX
Trimble's proprietary high-accuracy DR capability opens up a new world of applications. Objects that were previously difficult or impossible to reach can now be measured as easily as those measured with a prism. Visible property boundaries and corners can be measured without gaining access. Overhead cables, tunnels, bridges, quarry faces, buildings, and elevations can all be measured easily and safely.

Long-range DR – hard-to-reach or unsafe targets can now be measured as easily as those measured with a prism.

Control – automated routines check your work as you go.

Topographic surveying – in Robotic mode one person can measure and log points as fast as he or she can walk.

Stakeout and roading – automated stakeout of simple or complex projects.

Today's surveyor must be a master of many technologies, bringing both optical and GPS measurements into a single project. Trimble surveying systems make this integration seamless and simple.

Take ultimate control of any survey with the Trimble S6 system, including the powerful and innovative Trimble controller and field software of your choice.

The new Trimble CU controller is especially designed for use with the Trimble S6 and the latest Trimble GPS systems.

The Trimble TSCe™ controller offers a handheld form factor.

CHOOSE YOUR TRIMBLE CONTROLLER

Trimble controllers provide a single, easy-to-use interface for all your tasks and all your instruments, including GPS. Each controller's Windows CE.Net operating system is familiar and easy to learn.

The extremely rugged Trimble CU and TSCe controllers offer the latest innovations:

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.

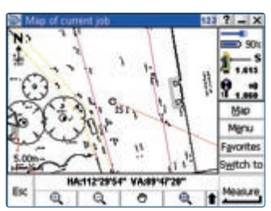
Advanced graphic display: The color touch screen makes software navigation quick and easy, and the graphic display gives real-time feedback. Upload a 3D design file to the controller and enjoy the flexibility to adapt your work to changing site conditions. The illuminated TFT display and keyboard are very easy to use.

Control using all your senses: Apply all your senses when controlling a survey—hear audio feedback in real time, and record voice messages in the field.

POWERFUL TRIMBLE FIELD SOFTWARE

Improve your field performance and the quality of your results with the help of the field-proven Trimble Survey Controller™ software or one of Trimble's powerful local solutions. Designed by surveyors for surveyors, Trimble field software runs on your choice of Trimble controller to optimize the performance of your Trimble S6 or GPS system.

Instrument control



Color maps

Long-Range DR

Graphical stakeout and roading

Trimble's Integrated Surveying is seamless and simple.

FULL INTEGRATED SURVEYING™ SYSTEM FOR FULL FLEXIBILITY

Trimble sensors and controllers are designed to support and seamlessly integrate GPS and optical systems. And the result is a total surveying solution that's so advanced it's simple.

All functions, whether GPS or optical, are handled by the same control interface, and all data is seamlessly integrated into a single data file. That means just one controller, one software, one interface, and one job file. So you can set control with a Trimble GPS system and then moments later use that control data with the Trimble S6. Just detach the controller from the GPS rover and attach it to the total station … on the instrument or the rover.

When you buy a Trimble S6 Total Station you're not just acquiring an advanced surveying solution, you're adding a partner, a partner with a sincere interest in your success.

TRIMBLE: A PARTNER IN YOUR SUCCESS

At Trimble, many of our staff are surveyors, which accounts for the results-driven character of our product offerings ... and for our real understanding of the challenges you face.

We're proud of our long history of ground-breaking innovations—advances that have resulted in a comprehensive set of integrated tools that bring new efficiencies to every aspect of the profession.

But we're not only developing new technologies, we're innovating new ways to support those technologies as well.

With sales and support offices in over 100 countries and a network of certified dealers around the world you can rest assured that a Trimble representative is always ready to lend a hand with technical or service assistance you need.

NORTH AMERICA
Trimble Geomatics and Engineering Division
5475 Kellenburger Road
Dayton, Ohio 45424-1099
USA
800-538-7800 (Toll Free)
+1-937-245-5154 Phone
+1-937-233-9441 Fax

EUROPE
Trimble GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY
+49-6142-2100-0 Phone
+49-6142-2100-550 Fax

LATIN AMERICA
Trimble Navigation Limited
6505 Blue Lagoon Drive
Suite 120
Miami, FL 33126
USA
+1-305-263-9033 Phone
+1-305-263-8975 Fax

AFRICA & MIDDLE EAST
Trimble Export Middle-East
P.O. Box 17760
Jebel Ali Free Zone
Dubai
U.A.E.
+971-4-881-3005 Phone
+971-4-881-3007 Fax

ASIA-PACIFIC
Trimble Navigation Singapore PTE Limited
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 449269
SINGAPORE
+65-6348-2212 Phone
+65-6348-2232 Fax

CHINA
Trimble Beijing
Room 2805-07
Tengda Plaza
No. 168 Xiwai Street
Haidian District, Beijing
CHINA 100044
+86-10-8857-7575 Phone
+86-10-8857-7161 Fax
www.trimble.com.cn

Reorder PN 022543-097 (01/05)