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

MAGDRIVE SERVO TECHNOLOGY

Aiming is faster and more precise than ever before. Trimble's MagDrive servo technology silently spins the instrument through 180° 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.

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.

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

TRIMBLE S6 ROBOTIC ROVER

TRIMBLE MULTITRACK TARGET FOR PASSIVE AND ACTIVE TRACKING

Choose from active or passive tracking via the Trimble® MultiTrack™ Target. The flexibility of MultiTrack technology expands opportunities in all surveying applications.

Active tracking ensures that you always locate and lock on to the correct target. With the Trimble MultiTrack Target nearby reflective surfaces, including road signs, cars, warning vests, and other prisms, will not disrupt your surveys. Active tracking also offers longer range, and the 360 degree active LED rings ensure accurate target tracking from any angle.

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.

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

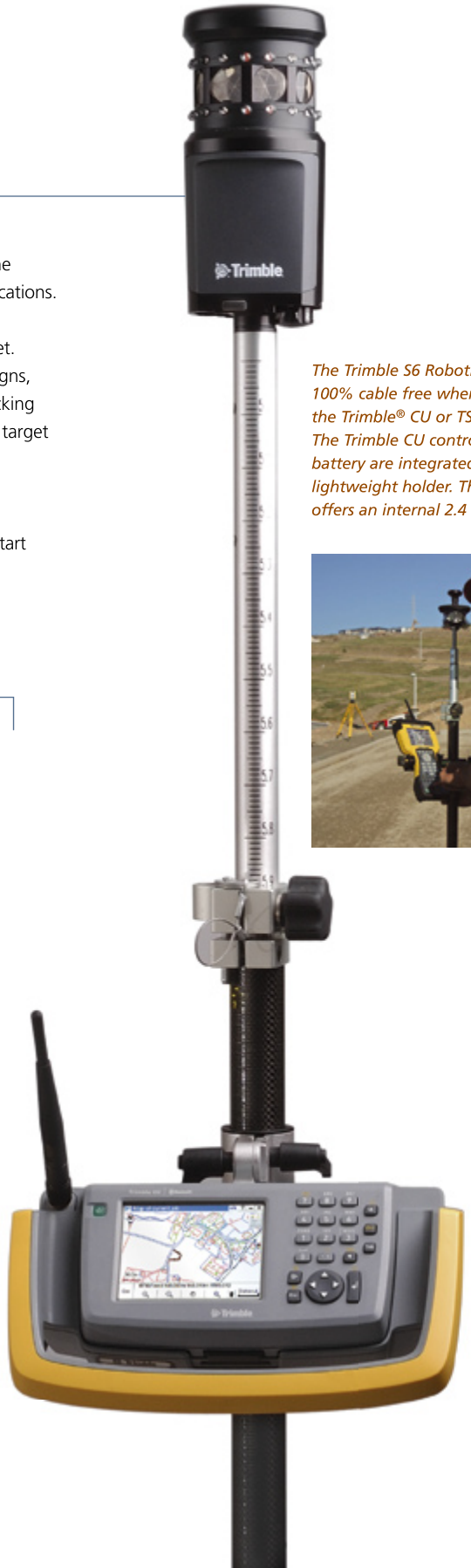
The Li-Ion internal smart battery provides six hours operating time in Robotic mode. The smart battery also displays accurate battery discharge information.

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 measurements. For scanning, the handle can be removed for unobstructed measurements.



The Trimble S6 Robotic Rover is 100% cable free when used with the Trimble® CU or TSC2® controller. The Trimble CU controller, radio, and battery are integrated in a compact lightweight holder. The TSC2 controller offers an internal 2.4 GHz radio option.

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

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.

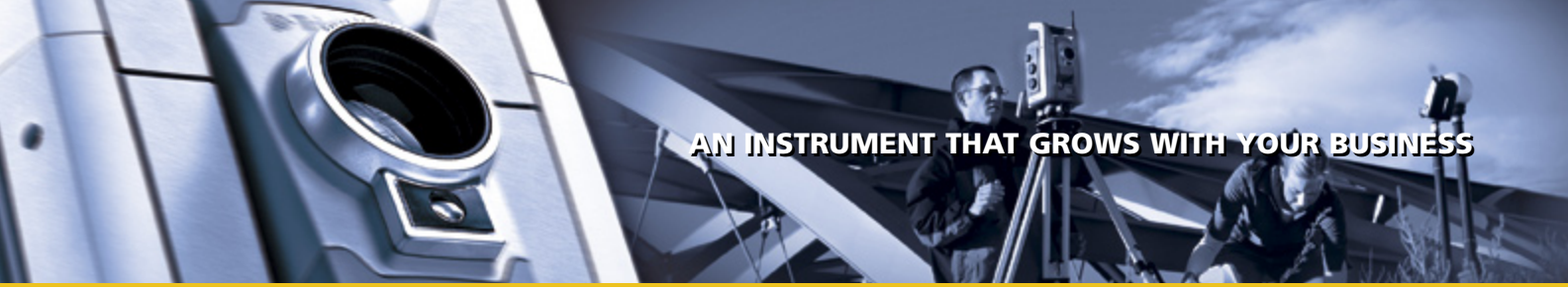
Autolock eliminates the repetitive locking and unlocking of motion locks and telescope focusing. As a result, many users report that adding the Autolock module to their servo instrument doubles productivity in the field.

TRIMBLE S6 ROBOTIC

For the ultimate in automated surveying, the robotic configuration allows you to detach the Trimble CU 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 Trimble CU controller is especially designed for use with the Trimble S6 and the latest Trimble GPS systems.

The Trimble TSC2 controller offers a handheld form factor and an integrated 2.4 GHz radio for robotic operation.

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 TSC2 controllers offer the latest innovations:

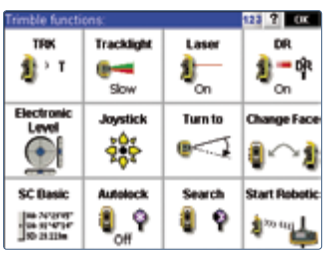
Advanced communication technologies for greater field efficiency: Easily send and receive files by e-mail and via the Internet using an external cellular modem. Bluetooth® technology provides cable free communication.

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.

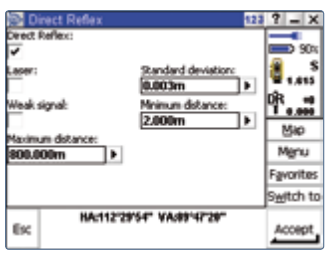
POWERFUL TRIMBLE FIELD SOFTWARE

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.

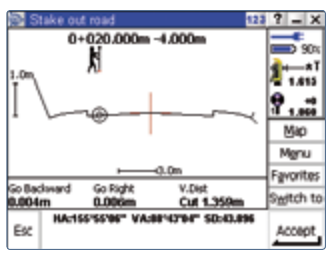


Instrument control

Color maps



Long-Range DR



Graphical stakeout and roading

INTEGRATED SURVEYING BRINGS IT ALL TOGETHER

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.

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