THE POWER OF ONE.

One surveyor.
One system.
One company.
As a 21st-century surveyor, you face challenges undreamed of before. In a single day, you might be called upon to bring in a first-order control point, then stake out a section of road grade, and finish up with a quick “as-built” audit on another site. More than ever that means moving mountains of data. You must translate complex CAD designs, work with conflicting datums and coordinate systems, generate sophisticated topo maps, and integrate measurements from a variety of instruments. That’s tough enough in an office environment, but you know where the real work is done: In slushy snow, desert sun, and dusty construction sites.

That’s why at Trimble we’ve been working toward a single goal: Giving you, the surveying professional, the capability to handle anything that comes your way. We can simplify your job by providing a single system so versatile it can handle virtually every facet of surveying, from concept to completion. Run by a multi-tasking controller that speaks to office computers and both GPS and conventional field instruments with no translation or interfacing issues, in a format that’s so easy to use apprentices will be as productive as old pros. All supported by the same innovative spirit that brought you the first EDM, the first robotic total station, and the first real-time kinematic GPS system.

With the 5600 Total Station series we’ve achieved our goal. One system. One surveyor. One partner to turn to for support: Trimble, the number one supplier of complete surveying solutions.
To be competitive these days, you need to work fast and work smart—every step of the way. If you want to be profitable, you can’t waste time fiddling with finicky instruments or manually juggling complex data translations.

Getting the job done fast while still producing accurate, high-quality results is critical for you and your clients. The Trimble 5600 Total Station series gives you access to the best, most-productive measuring methods available—ideal for a wide range of applications.

Each Trimble 5600 Total Station is an advanced surveying system for today’s surveyor. With its innovative technology, each instrument allows you and your survey crews to survey faster, easier, and better than ever before.

FAST. Equipped with a 4-speed servo, the 5600 series instruments allow for fast, smooth, accurate aiming.

Servo technology enables automated measuring processes. To measure a set of angles for example, simply aim the instrument at each point just once. You can then let the instrument repeat the measurements automatically. As many times as needed.

And as your job requirements grow, so can your 5600 series instrument. The servo system provides the base for upgrades to Autolock and robotic surveying.

EFFICIENT. To further increase productivity, upgrade your 5600 series instrument to Autolock™—a semi-robotic measuring method where measuring and recording occur at the total station. With Autolock, the instrument seeks out the RMT (active remote positioning target), locks to it, and follows as the target is moved from point to point. Autolock looks only for the RMT, so there is never a problem that measurements are taken to other reflective objects.

Autolock technology eliminates the need for time-consuming, error-prone focusing and allows you to work effectively even in poor- and low-visibility environments. Using Autolock, it is now possible to survey and stakeout as quickly as the rodman can move—getting the job done quickly and accurately.
[ROBOTIC]  UPGRADE TO ROBOTIC AND YOU INCREASE PRODUCTIVITY ANOTHER 30%.

ONE-PERSON SURVEYING. For true one-person surveying, robotic operation enables you to now survey and stakeout on your own from the prism—further increasing your productivity and reducing your labor and travel costs.

Robotic is ideal for both survey and stakeout work. When surveying in robotic mode, simply take the control unit with you to the prism to record measurements and collect other data. For stakeout, use the control unit to navigate to the point. Robotic operation ensures higher data quality, because you are taking the measurements at the point being measured, where errors can be quickly identified and corrected.

The 5600 series Robotic option uses a radio to communicate between the total station and the prism. The control unit gives you complete remote control of the instrument and its functions.

[DIRECT REFLEX]  INNOVATIVE DIRECT REFLEX DR200+ EDM MEASUREMENT SYSTEM.

INNOVATIVE. The innovative Direct Reflex (DR) EDM option is ideal for surveying where the target is difficult, impossible or dangerous to reach. It opens up a world of new applications—building elevation surveys, tunnel profiling, measuring to objects on private land, and safe positioning of points in active traffic on roads and railways.

The DR measurement system is equipped with purpose-built software tools that automate and control the measurement of complex points. Surface and line intersection, plane intersection, and automated scanning are tools that will help you get the job done.

Using the DR200+ you can measure to white objects up to 600 meters away and to Kodak Grey up to 200 meters away. (Kodak Grey is the international standard to determine the range of reflectorless total stations.) And the range when using a single prism is 5.5 kilometers.

The DR200+ helps you survey faster and more safely than ever before.

[INTEGRATED SURVEYING™] COMBINE THE 5600 WITH A GPS SYSTEM AND HAVE THE BEST OF BOTH WORLDS.

SYNERGY. The 5600 Total Station series is the ideal complement to the Trimble GPS Total Station® 5700, providing a means of filling in detail that cannot be acquired using GPS alone. A two-person crew can work independently or together, with the technology that suits the job to attain the highest possible productivity.

The two are seamlessly linked using our universal controller, the TSCe. You can instantly switch between RTK and total station measurements. All the combined data can be processed and analyzed within the Trimble office software environment.
FULLY UPGRADABLE
Protect your investment. With Servo as standard, you have the option of either conventional or DR measurements. And for faster, more productive surveying, each 5600 Total Station series is fully upgradable to Autolock and Robotic technology.

GEODIMETER TECHNOLOGY
Tried, tested, and proven Geodimeter® EDM. Using DR reflectorless technology, your survey crews can measure up to 600 meters without a prism and to 5500 meters with a single prism.

ACTIVE TARGET TECHNOLOGY
Reduce operator fatigue and increase productivity. The unique active target tracking gives 100% reliable target acquisition.

TRACKLIGHT™—LINE OF SIGHT INDICATOR
Improve productivity. A highly visible red, white, and green light allows your crews to stake out faster than ever.

FOUR-SPEED SERVO
For smooth, fast, accurate, and automatic aiming.

DETACHABLE CONTROL UNITS
Flexibility to select the right interface. A variety of user interfaces and control units can be used with the 5600 series, allowing you to select the interface that best suits your organization, work, and special applications.

ONE INSTRUMENT. MANY CONFIGURATIONS.
Flexibility is built in.

At Trimble our goal is to design and build surveying tools that give you the flexibility to meet all your challenges today and tomorrow. Tools that simplify your complex tasks. Tools that are intuitive, easy to use, and meet your requirements—whatever the situation.

Advanced technology, upgrade options, and a selection of user interfaces from the Trimble Toolbox to best suit your work give you the versatility you need for highly productive operations. And you can be sure you have made a sound investment—upgrade options can adapt your instrument to your changing needs as your work challenges change.

At Trimble we know that the real key to productive survey and stakeout work is in the software—the user interface. That’s why we offer you the flexibility to select from a variety of interfaces available in the Trimble Toolbox. You can work with the tool that is most familiar and best suited to your operations—whether that be graphical or text-based, an on-board control unit or a separate controller.

Additionally, you can use the same interfaces with our other surveying instruments. Simply take the control unit or controller with you as you change from working with your 5600 Total Station series instrument to the GPS Total Station 5700.

The Total Station 5600 series can be operated with your preferred data collection or field computation system—Geodimeter, Zeiss Elta and Trimble. Or you can take advantage of our Open System DOS control unit to run your favorite software—TDS, SMI and more—directly on board.
A SYSTEM YOU CAN RELY ON.

Reliability, productivity, and simple operation are the three cornerstones of the Trimble Total Station 5600 series. And through the integration and evolution of field-proven Geodimeter technology, it is the most reliable Total Station for your work today.

With the 5600 series, you have the flexibility to select the right technology for your work—4 speed servo, active target technology and search mechanism, long range direct reflex, and upgradability to Autolock and Robotic.

Each instrument is a single, powerful tool ideal for handling all your measurement operations from initial concepts to final completion.

Using the Trimble 5600 series, you can depend on getting performance and results. From the big jobs to the small ones, from the arctic to the humid tropics, the instrument is designed and built to work where you want to work.

The Trimble 5600 series has the patented and proven search system that ensures surveying quality. This means you can be absolutely sure that the instrument locks onto and measures the right target, the RMT reflector. The instrument only senses the coded signal emitted by the infrared (IR) diode on the RMT.

The DR200+ measurement technique is based upon the pulsed measurement principle—this means the time taken for a very short light pulse to travel to the target and back is measured. What makes the Trimble technique unique is the way in which we determine the shape of the pulse before computing the transmit time. In this way, the influence of noise can be greatly reduced. That’s why the range of our DR200+ EDM is so long without degradation of its accuracy.

**Typical ranges for DR 200+**

- Dark rock: 150 m
- Wood: 200 m
- Concrete: 300 m

Active Target—emits coded control signal that is detected by the instrument.
Many options—no compromises. Choice usually also means leaving things out. This is not the case when you choose the Trimble 5600 series. Whichever version you choose, the simplest or the most advanced, you keep all your options open for the future. You always have the option to upgrade and allow the surveying system to grow with the task. All you have to do is decide the level you need for your current surveying requirements. Do you need the highest possible surveying capability immediately or does a servo-driven Total Station suffice? With the Trimble 5600 series, you get what you need today without compromising your future.
**Total Station. Total solution.** When you invest in a Trimble 5600 Total Station series, you get more than just an advanced survey instrument—much more. Because a 5600 series instrument is really a complete surveying solution. A servo-driven total station, which, through modular upgrades, can become an Autolock or robotic total station. With DR200+ technology built in, the instrument is capable of measuring to any object up to 600 m away—without a prism!

All Trimble products are supported with powerful field and office software, which integrate seamlessly with the instrumentation. All are designed by Trimble and linked together through the Trimble Toolbox environment, which is rapidly becoming the world standard for high-performance surveying.

**Seamless data flow.** In the Trimble Toolbox environment, a single controller handles all of your instruments from mechanical and robotic total stations to RTK GPS receivers, even instruments from other manufacturers. All with seamless “plug and play” simplicity. You can change instrument types on the fly—the survey controller automatically combines and correlates the different measurements into a single, unified dataset.

Back in the office, the control unit interfaces directly to Trimble Geomatics Office™ software—a single comprehensive program for all your data processing needs. No matter how your clients want their data delivered, the software is ready to automatically translate your field data into more than 50 design, CAD, GIS, and survey formats. There's even a Trimble Link™ module that lets you directly move your field data into the AutoDesk AutoCAD Land Development Desktop.
design package for analysis. Or, for in-house design work, use the Terramodel™ software, Trimble's advanced design application for complete concept-to-completion integration. When your clients are ready to give their construction designs back to you for stakeout, the translation is just as seamless. Our new RoadLink™ Wizard automates the process for more than 30 road design software formats.

**Field efficiency.** The tight integration of the Trimble 5600 series will radically boost your productivity in the field. The combination of robotic and DR200+ measurement techniques creates the ultimate measuring machine, making it easy for a single surveyor to go anywhere and carry out any job previously carried out by an entire crew.

You can upload your entire continuous 3-dimensional design to the survey controller, which allows you to put the pole down anywhere on site and instantly see the station, offset, cut or fill. Even if someone parks a bulldozer in your path, you can work right around it. And if you find it more productive, you can add a Trimble GPS Total Station system and continue surveying by yourself without any interruption.

For large sites, add a Trimble GPS system to rapidly cover open areas and positions not readily accessed with the total station, and continue surveying by yourself with no interruption.

Integration, interoperability, and seamless compatibility. It all adds up to the power of one—one surveyor, one system, one company. Trimble.
In the 20th century, Geodimeter, Trimble, and Zeiss revolutionized the world of surveying—with the first automatic level, the first EDM, the first Robotic Total Station, the first commercial GPS receiver, and the first Real-Time Kinematic surveying system.

Now in the 21st century, the new combined force of Trimble is bringing that same pioneering spirit to bear on practical solutions for the new challenges that will face the surveyor in the new millennium. We’re closing the gap between field and office with integrated products that offer real-time data management, real-time data exchange, and real-time quality control—from Concept to Completion.

The new Trimble Toolbox offers the most comprehensive survey toolset in the world. With sales and support facilities around the globe, all interconnected with advanced global communications technology, we’re ready to provide expert support anywhere your work takes you, 24 hours a day.

Welcome to the 21st century.