



Trimble Total Stations

TRANSFORMING THE WAY THE WORLD WORKS



The Most Advanced Stations. The Ultimate in Efficiency.



FASTER, EASIER AND MORE PRODUCTIVITY

Our five total stations; the S5, S7, S9, S9 HP and the SX10; deliver even greater performance and more features than ever. Together, they offer a clear choice—between an all-in-one station for maximum flexibility, an everyday workhorse designed for basic surveying, and an extremely precise model for specialized needs. They're all backed by Trimble's legendary training, service and support.

At Trimble, we're constantly focused on making the day-to-day job of surveying faster, easier and more productive. All of our total stations' features, functions and software components are designed to boost efficiency in the field and in the office without compromising performance and accuracy.

Our EDM technology enables faster in-field measurements with fewer setups while enhancing scanner performance. SurePoint™ technology reduces aiming errors and costly re-measurements. Our proven field software, Trimble Access™, ensures quick data capture in the field. Trimble SureScan technology boosts accuracy, ensures repeatability, and cuts the time necessary to return to the field to collect additional data.

It doesn't stop there. Data processing is easier and faster using Trimble® Business Center software to integrate all of your geospatial collected data.

The conclusion is clear: Trimble Total Stations offer the ultimate in efficient, reliable performance.



Trimble Total Stations: trusted today, designed for tomorrow.

For more than a decade, on countless jobs all over the world, Trimble Surveyor Total Stations have delivered superior performance, reliability and efficiency. But at Trimble, we are always pushing the envelope, innovating—improving.



Rely on Trimble Total Stations to:

- ▶ Deliver surveying, imaging and 3D scanning in one powerful solution
- ▶ Capture data faster and more accurately
- ▶ Give the advantage of Trimble VISION™ technology for video robotic control, scene documentation and measurements
- ▶ Improve accuracy, even over long distances, with Trimble DR Plus and Lightning 3DM
- ▶ Create enhanced 3D models
- ▶ Enable quick data processing with Trimble Business Center office software
- ▶ Locate your equipment in real-time with Locate2Protect and manage your equipment with Trimble InSphere™ Equipment Manager

SX10 Scanning Total Station



MERGE ALL OF THE GEOSPATIAL SKILLSETS IN YOUR WORKFLOW

The Trimble SX10 is the world's first scanning total station that truly merges high-speed 3D scanning, enhanced Trimble VISION imaging and high-accuracy total station measurements in a single instrument.

Designed from the ground up to provide maximum accuracy, efficiency and detail, this scanning total station features Trimble's trusted MagDrive™ and Autolock® technologies for industry-leading durability and reliability. And the SX10's powerful new Lightning 3DM has the capabilities you need to handle any survey project.

Boost productivity, save money and get greater versatility

The Trimble SX10 captures rich point cloud data at 26,600 points per second and at a range of up to 600 m.

When you get back to the office, the scans register automatically, so you spend less time preparing data and

more time creating results. And, since Trimble Access and Trimble Business Center allow operation of the SX10 within familiar survey workflows, there's no need for specialized training, dedicated 3D scanners and personnel.

The Trimble SX10 delivers reduced costs and greater versatility to expand to new applications, all with a single investment.

A foundation of superior 3D scanning

At the heart of the Trimble SX10 are fully integrated 3D scanning capabilities. Trimble's Lightning technology allows the Trimble SX10 to measure dense 3D scan data at high speeds while maintaining high precision over the full measurement range.

You can choose your level of scan density, based on your project. Since registration is automatic, the data you gather drops right into your survey coordinate system.



Key features of SX10 Total Station:

The Trimble SX10 Scanning Total Station enables familiar, easy and efficient survey workflows, from the field to the office. Here's how:

- ▶ Combines surveying, imaging and high speed 3D scanning in one revolutionary Scanning Total Station
- ▶ The new Lightning 3DM combines high accuracy survey measurements with high speed scanning
- ▶ Utilizes Trimble Lightning Scanning technology to scan up to 26,600 points per second—captures a full dome scan in as little as 12 minutes
- ▶ Boosts precision, versatility, and efficiency with improved VISION technology. Allows users to manage total station, imaging and 3D scan data efficiently using Trimble Business Center software, making it easy to create results
- ▶ Offers an industry-leading 3D scan range of 600 m while also boasting the smallest spot size in the industry—a mere 14 mm at 100 m
- ▶ Provides a horizontal 360° x vertical 300° field of view with scanning and imaging to cover your entire setup



SX10 Scanning Total Station



ADVANCED VISION TECHNOLOGY THAT HELPS YOU DELIVER SUPERIOR RESULTS

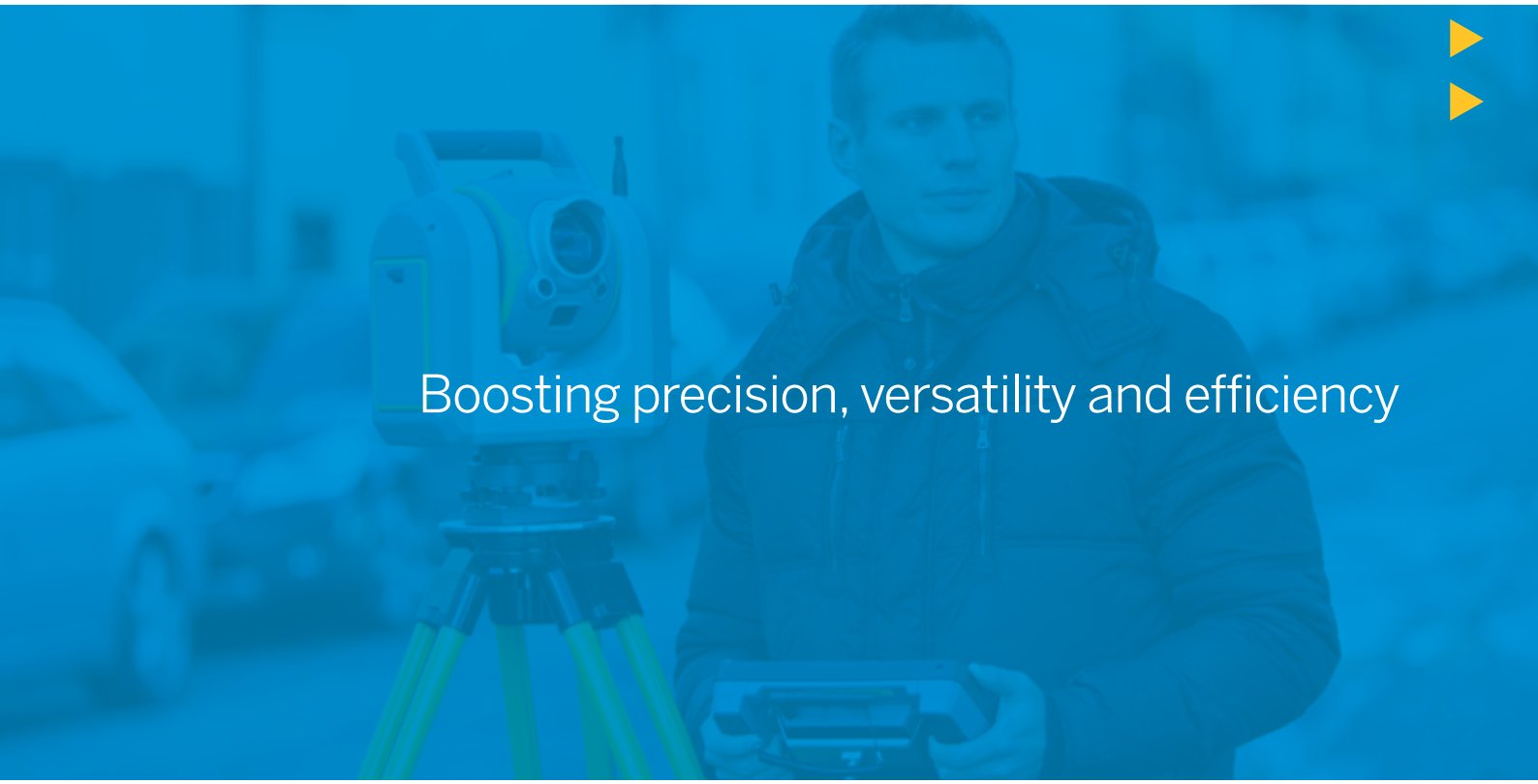
The VISION technology onboard the Trimble SX10 makes it easy to direct surveys via live video on the controller.

VISION offers varying levels of imaging capabilities and resolutions, so you can collect just the right amount of data to fit your needs, whether you're documenting your site or capturing additional visual detail on your DR observations.

Back in the office, Trimble VISION data gives you the option of making additional measurements or delivering 360-degree panoramas.

SX10 Applications

- ▶ Topographic Survey/General Survey
- ▶ Roadway/Corridor Survey
- ▶ Volumetric Survey
- ▶ Infrastructure As-Built
- ▶ Building As-Built
- ▶ Utility Design Survey
- ▶ Power Line Inspection/Clearance
- ▶ Forensics
- ▶ Mine/Quarry Survey
- ▶ Tank Calibration/Inspection
- ▶ Dimensional Control



Boosting precision, versatility and efficiency

FAMILIAR TRIMBLE ACCESS AND TRIMBLE BUSINESS CENTER WORKFLOWS

Combined with Trimble Access software, the SX10 efficiently and reliably collects the most complete dataset from the field. While in the field, it allows you to:

- ▶ Measure the desired level of detail
- ▶ Integrated scanning workflows
- ▶ Efficient data management

In the office, Trimble Business Center seamlessly integrates your project data and provides a virtual surveying environment enabling:

- ▶ Efficient 2D and 3D topographic and façade map creation
- ▶ Earthwork, volumetric and corridor workflows
- ▶ Quickly measure any forgotten or complex field information

Unparalleled Precision That's the Trimble SX10

The Trimble SX10 Scanning Total Station sets a new standard for accuracy, capability and performance. Whether you're performing a typical job or your most challenging survey projects, the SX10 delivers the confidence to do it all and do it well.

S9 and S9 HP Total Stations



GET THE PERFORMANCE AND ACCURACY YOU NEED FOR SPECIALIZED APPLICATIONS

We took our best field technologies, added our highest level of accuracy, and then included all of our specialized engineering features. The result is the Trimble S9 and S9 HP, our premium-performance Total Stations designed for your most-challenging projects.

Whether it's for tunnels, monitoring, mines, or other difficult applications, rely on the S9 Total Stations to combine scanning, imaging and surveying into a single, precise solution.





Designed for your most-challenging projects.



Get the Advanced Solution You Need for Tough Jobs

Here are just some of the powerful features and options available for the Trimble S9:

- ▶ 0.5" or 1" accuracy
- ▶ Specialized modules for tunnels, monitoring, or mines for dedicated workflows
- ▶ Optional Trimble SureScan and VISION technology
- ▶ Trimble SurePoint
- ▶ DR HP EDM in the Trimble S9 HP
- ▶ Monitor projects—both real time and post-processed—to rapidly detect critical structural movements, with Trimble 4D Control™ software
- ▶ Additional engineering-specific features include Trimble FineLock™ technology and our Class 3R laser pointer. Trimble FineLock detects targets without interference from surrounding prisms and LongRange FineLock extends that functionality; both provide critical support for high precision applications in close quarters, such as rail alignment, deformation monitoring and tunneling. The Class 3R laser pointer visually mark points at greater range in tunnels or underground mines.

≡ S7 Total Station



FULLY LOADED FOR MAXIMUM FLEXIBILITY AND PERFORMANCE

Imagine needing just one total station on your job site to perform all of the data capture. Imagine just one powerfully equipped total station to handle scanning, imaging and surveying, to create 3D models, to process highly accurate visual site documentation and point clouds, and to do much more. That total station is the Trimble S7.

Work Faster with Integrated Scanning and VISION

With Trimble SureScan you collect and process data faster by focusing on collecting the right points, not just more points. SureScan patented technology maintains a user-defined, equal density of points so you won't capture too many points at short distances or too few points at longer distances.

The S7 is equipped with Trimble VISION technology. Use it to direct your survey through live video images on the controller. Back in the office, you can use your Trimble VISION data for measurements, or to process 360-degree panoramas and high dynamic range (HDR) images for even clearer deliverables.

Enhance your Accuracy with Trimble DR Plus

The S7, equipped with DR Plus, delivers enhanced scanner performance with fewer instrument setups. Our DR Plus range measurement feature also dramatically extends the range of Direct Reflex measurement without a prism. Trimble DR Plus makes for quick and easy measurements without compromising accuracy.



Maximize efficiency in the field and in the office.

THE ULTIMATE TOTAL STATION

The Trimble S7 is a powerful total station with all of the features and tools you need to maximize efficiency in the field and in the office. Other technologies you'll find standard:

- ▶ **MagDrive**, for exceptional speed and accuracy, reduce wear and tear, and smooth, silent operation
- ▶ **FineLock**, which detects targets without interference from surrounding prisms, ensuring target lock over long distances, and eliminating errors caused by interference
- ▶ **SurePoint**, ensures precise pointing and measuring by staying on target through virtually any situation, from windy weather to vibrations
- ▶ **Locate2Protect** technology and InSphere Equipment Manager
- ▶ **Industry-leading field and office software** for fast data collection and processing no matter the Trimble instrument

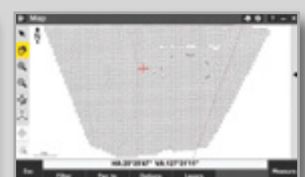
INCREASE PRODUCTIVITY WITH TRIMBLE SURESCAN

Trimble SureScan technology is a true productivity-booster that saves you time in the field and in the office. It allows you to easily and quickly define a single framed area and set a consistent resolution. This means cleaner, more usable initial data sets, which minimizes the amount of point data and the number of setups required while facilitating office data processing.

With SureScan, you can efficiently capture everything you need to create digital terrain models (DTMs) and volume calculations. Plus you can perform topographic measurements faster than traditional surveying methods.



Standard scanning grid



SureScan scanning grid

S5 Total Stations



THE RELIABLE, EFFICIENT, TRUSTED PERFORMER

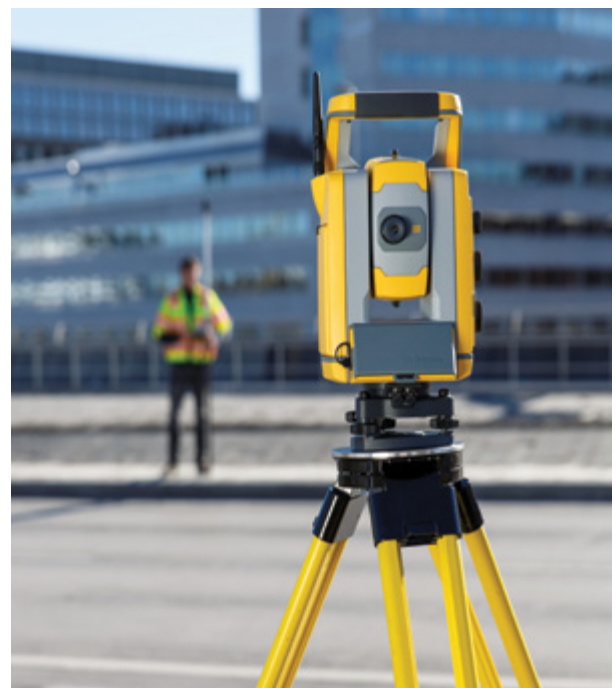
The Trimble S5 offers the ideal package of exclusive Trimble features and proven technology to help you work efficiently and accurately, project after project, year after year.

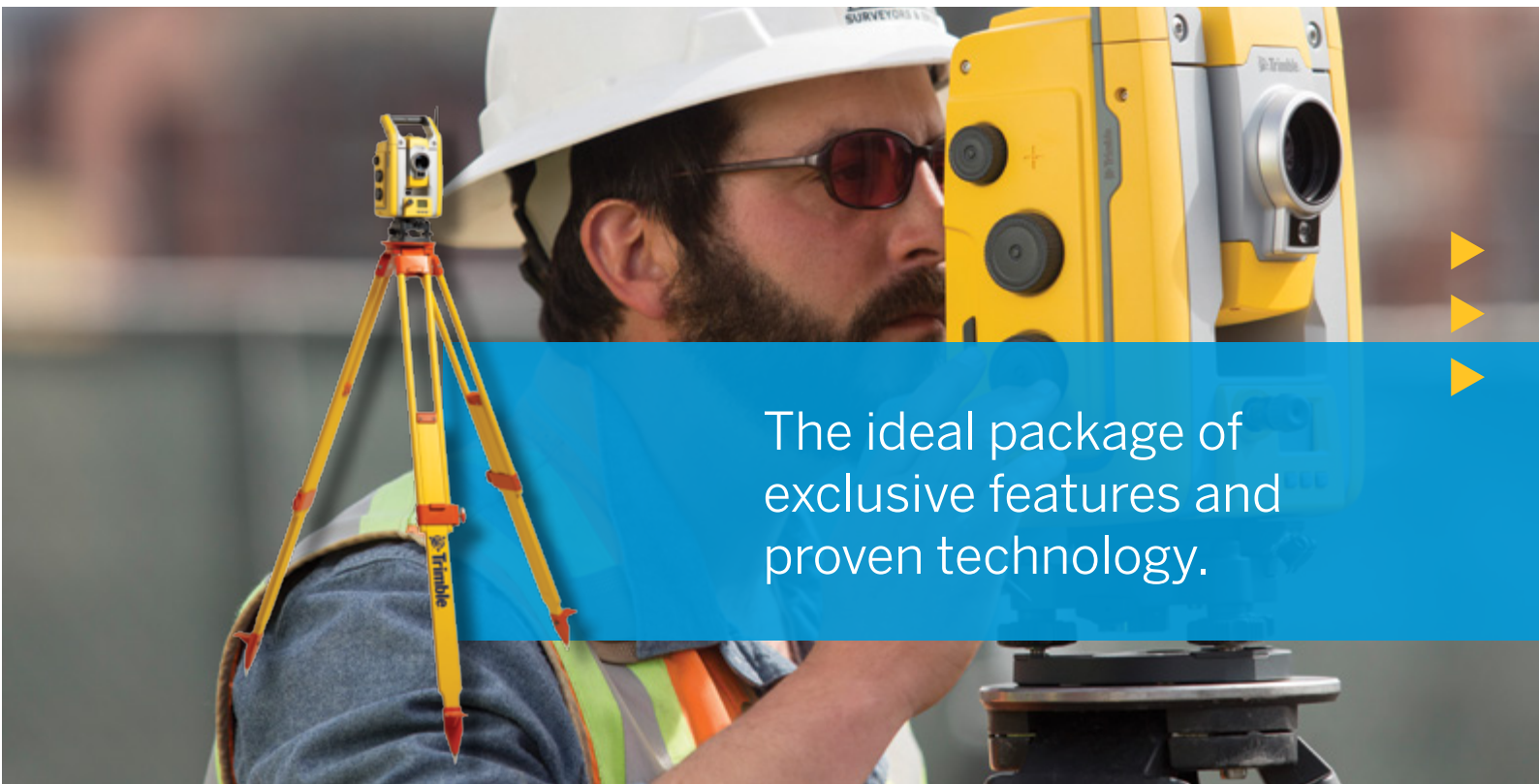
This is the economical, proven performer that makes your job easier both in the field and in the office. And it's backed by the world-class support—including service and training—you expect from Trimble.

Measure Farther and Faster with the S5

The S5 can include a complete package of Trimble technology to deliver solid, reliable results, on a full range of projects:

- ▶ DR Plus EDM for measuring at greater distances with fewer instrument set-ups, while enhancing scanning performance
- ▶ Your choice of 1", 2", 3", and 5" accuracy
- ▶ MagDrive™ servo technology, SurePoint, Locate2Protect and InSphere Equipment Manager standard





The ideal package of exclusive features and proven technology.

STAY ON TARGET

Trimble MultiTrack and ActiveTrack 360 Targets

Trimble targets are built for surveyors and field engineers looking for a reliable, robust and easy to use solution for robotic surveying. The new ActiveTrack 360 target was designed to provide a smaller, lightweight target for optical surveying utilizing Trimble's industry leading active tracking technology.

ActiveTrack 360 target is an active-only device and thus contains no glass prisms. Eliminating the prisms provides for a smaller, lighter weight target, while maintaining robustness and measurement accuracy.

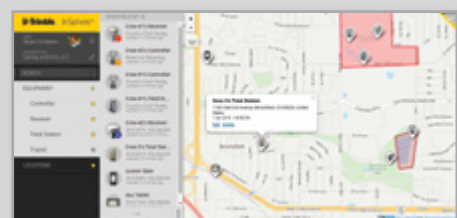


The Trimble MultiTrack™ target provides versatility to track both active and passive targets. Up to eight active targets can operate simultaneously on the same site with no risk of tracking the wrong target, ensuring accuracy and completeness of work with no loss in productivity due to false target lock.

MANAGE YOUR EQUIPMENT 24/7

Know where your total stations are 24 hours a day with Trimble Locate2Protect technology. See where your equipment is at any given time and get alerts if your instrument leaves a job site or experiences unexpected equipment shock or abuse.

Save time managing all of your instruments firmware, software and maintenance requirements with our web-based Trimble AllTrak™ Cloud application. Now you can view usage and keep up-to-date on all of your total stations in one location.



Office Software



THE POWER TOOLS FOR MAXIMUM EFFICIENCY

Make Everyday Work Efficient, with Trimble Access Field Software

With its easy-to-use interface, comprehensive coordinate geometry routines for calculating points, graphical staking of points, lines, arcs, alignments and roads from active maps, and powerful Measure codes function to quickly feature code measured points, Trimble Access provides all the tools you need for a day in the field. Because it includes integrated surveying technology, Trimble Access keeps things simple by allowing you to combine optical, scanning, and GNSS data plus images all in one job.

Bridge the gap between field and office by using Trimble Access to share files. Move files, send clients updates, and even deliver completed projects, online in real time. Dramatically reduce downtime and improve your productivity with Trimble Access.

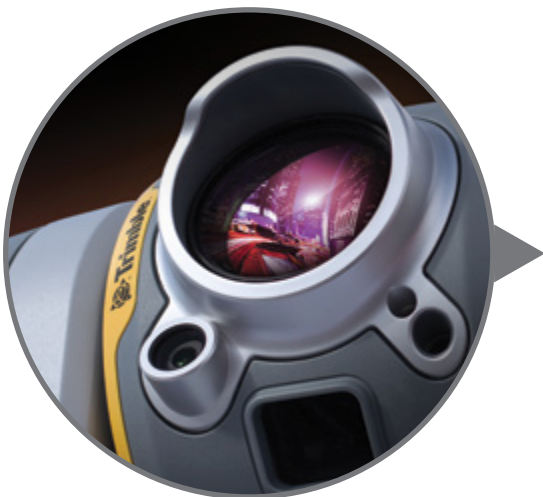
Streamline the Process with Trimble Business Center

Trimble Business Center brings all the data together in a desktop environment. In a single software package you can efficiently work with GNSS, total station, level, scanning, terrestrial and aerial data. Trimble Business Center offers topographic map creation workflow, earthwork operations, corridor operations, bringing the field environment to the office.

- ▶ Network and Traverse adjustment workflows for accuracy and confidence
- ▶ Survey CAD environment for end to end deliverables
- ▶ Point cloud tools for visualization, registration, clean up, and automated classification
- ▶ Topo and surface modeling with precise volume calculation and contour creation
- ▶ Data traceability with raw measurement visibility and chronological history
- ▶ GIS integration and compatibility for seamless integration



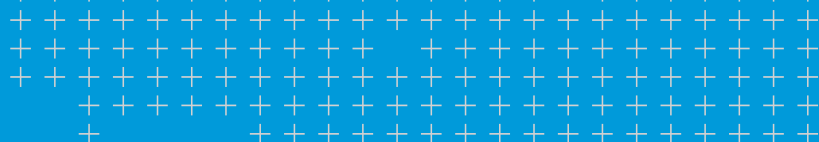
Stronger Software for Stronger Data



SEE THE FUTURE OF SURVEYING WITH TRIMBLE VISION TECHNOLOGY

Trimble VISION technology gives you the power to see everything the instrument sees without a trip back to the tripod. Direct your survey with live video images on the controller. VISION's calibrated photo documentation provides customers with deliverables they can trust. VISION's improved camera offers a sharper image through the controller. VISION frees you to:

- ▶ Quickly document your site
- ▶ Capture measurements with point-and-click efficiency
- ▶ Calculate measurements back in the office
- ▶ Process 360-degree panoramas and images for even more-precise deliverables



Trimble Total Station Configurations

Instrument	Angular Accuracy	EDM Technology	EDM Accuracy	Servo	Trimble Vision	Prism Tracking Technology	Scanning Technology Speed	FineLock	Additional Features
Trimble S5 Total Station	1", 2", 3", or 5"	DR PLUS	1.0 mm + 2 ppm Prism 2.0 mm + 2 ppm DR	Robotic or Autolock		Autolock			Tracklight
	1", 2", 3", or 5"	DR PLUS	1.0 mm + 2 ppm Prism 2.0 mm + 2 ppm DR	Robotic or Autolock		Autolock or MultiTrack			Tracklight
Trimble S7 Total Station	1", 2", 3", or 5"	DR PLUS	1.0 mm + 2 ppm Prism 2.0 mm + 2 ppm DR	Robotic or Autolock	Single Camera	Autolock or MultiTrack	SureScan 15pps	✓	
Trimble S9 Total Station	0.5"	DR PLUS	1.0 mm + 2 ppm Prism 2.0 mm + 2 ppm DR	Robotic	Single Camera	Autolock or MultiTrack	SureScan 15pps	✓	
	0.5"	DR PLUS	1.0 mm + 2 ppm Prism 2.0 mm + 2 ppm DR	Robotic		Autolock or MultiTrack		✓	Long Range FineLock
	1"	DR PLUS	1.0 mm + 2 ppm Prism 2.0 mm + 2 ppm DR	Robotic or Autolock		Autolock or MultiTrack		✓	Long Range FineLock
Trimble S9 HP Total Station	0.5"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic		Autolock or MultiTrack		✓	Long Range FineLock
	0.5"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic or Autolock		Autolock or MultiTrack		✓	Tracklight
	0.5"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic	Single Camera	Autolock or MultiTrack		✓	
	1"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic or Autolock	Single Camera	Autolock or MultiTrack		✓	
	1"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic or Autolock		Autolock or MultiTrack		✓	Tracklight
	1"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic or Autolock		Autolock or MultiTrack		✓	Long Range FineLock
	1"	DR HP	0.8 mm + 1 ppm Prism 3.0 mm + 2 ppm DR	Robotic		Autolock or MultiTrack		✓	3R Laser Pointer

Instrument	Angular Accuracy	EDM Technology	EDM Accuracy	Servo	Trimble Vision	Prism Tracking Technology	Scanning Technology Speed	Scanning Range	Range Noise
Trimble SX10 Total Station	1"	Lightning 3DM	1.0 mm + 1.5 ppm Prism 2.0 mm + 1.5 ppm DR	Robotic	Multi-Camera	Advanced Autolock	BandScanning 26.6kHz	600 m	1.5 mm @ 50 m 1.5 mm @ 120 m

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