Trimble S5

TOTAL STATION

TRUSTED PERFORMANCE

All you need to perform efficient surveying campaigns is available in the Trimble® S5 Robotic Total Station solution: An accurate and reliable instrument, DR Plus EDM, MagDrive™ technology, the popular Trimble TSC3 controller with Trimble Access™ field software and quick data processing with Trimble Business Center office software.

Trimble has been manufacturing the industry's leading robotic total stations for over a decade. You can depend on the Trimble S5 Total Station to keep you productive in the field no matter what you encounter.

Trimble Technology

The Trimble S5 Total Station is built upon proven Trimble technologies like SurePoint™, MagDrive and our DR Plus EDM, helping you work more efficiently while maintaining the highest accuracy possible. Smooth and silent, Trimble MagDrive electro-magnetic technology means fewer moving parts, which reduces servicing requirements. Trimble SurePoint ensures accurate pointing and measurements by actively correcting for unwanted movements like wind, handling, and sinkage. The Trimble DR Plus EDM allows you to measure with fewer instrument set-ups and enhance your direct reflex performance.

Manage Your Assets 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 jobsite or experiences unexpected equipment shock or abuse.

Trimble InSphere™ Equipment Manager system lets you view usage and keep up-to-date on firmware, software and maintenance requirements. With Trimble Locate2Protect and InSphere Equipment Manager, you can rest assured knowing your equipment is up-to-date and where it should be.

Robotic and Autolock

The Trimble S5 Total Stations are available in robotic or Autolock*-only versions. The Trimble S5 robotic and Autolock versions have an optional TCU data collector with Trimble Access field software for convenient, simple operation in any environment.

Integrated Surveying

The Trimble S5 Total Station provides the foundation for Trimble's Integrated Surveying™ solutions. With Integrated Surveying, you can seamlessly integrate complementary technologies on the job site, such as Trimble GNSS receivers and optical measurements.

Powerful Field and Office Software

Choose from a variety of Trimble controllers operating the feature rich, intuitive Trimble Access field software. Streamlined workflows guide crews through common project types, helping to get the job done faster with less distractions. Trimble Access workflows can also be customized to fit your needs.

Back in the office, trust Trimble Business Center software to help you check, process and adjust your optical, leveling, and GNSS data in one software solution. No matter what Trimble instruments you use in the field, you can trust that Trimble Business Center office software will help you generate industryleading deliverables.

Trimble S5 Configurations

EDM	Angle	Servo	Active
	Accuracy	Control	Track
DR Plus	1", 2", 3", 5"	Robotic, Autolock	Optional

Key Features

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- Everything you need to perform survey campaigns
- Measure further and faster with the Trimble DR Plus EDM
- Locate2Protect real-time equipment management
- Seamless integration with the Trimble
 V10 Imagine Rover and GNSS receivers
- Intuitive Trimble Access Field Software
- Trimble Business Center Office Software for quick data processing





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PERFORMANCE

	Good (Good visibility, low ambient light)	Normal (Normal visibility, moderate sunlight, some heat shimmer)	Difficult (Haze, object in direct sunlight, turbulence)		
White card (90% reflective) ⁴	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,200 m (3,937 ft)		
Gray card (18% reflective) ⁴	600 m (1,969 ft)	600 m (1,969 ft)	550 m (1,804 ft)		
Reflective foil 20 mm 1000 m (3280 ft) Shortest range 1 m (3.28 ft) DR Extended Range Mode White Card (90% reflective) ⁴ 2200 m					
EDM SPECIFICATIONS Light source Pulsed laserdiode 905 nm, Laser class 1 Beam divergence 4 cm/100 m (0.13 ft/328 ft) Horizontal 4 cm/100 m (0.26 ft/328 ft) Vertical 8 cm/100 m (0.26 ft/328 ft)					

Standard deviation according to ISO17123-4.
Standard clear: No haze. Overcast or moderate sunlight with very light heat shimmer.
Range and accuracy depend on atmospheric conditions, size of prisms and background radiation.
Kodak Gray Card, Catalog number E1527795.
The capacity in –20 °C (–5 °F) is 75% of the capacity at +20 °C (68 °F).
Bluetooth type approvals are country specific. Contact your local Trimble Authorized Distribution Partner for

more information.

Dependent on selected size of search window.

Solution acquisition time is dependent upon solution geometry and GPS position quality. Functionality and availability dependent on region.

SYSTEM SPECIFICATIONS

_eveling
Circular level in tribrach
Electronic 2-axis level in the LC-display with a resolution of 0.3" (0.1 mgo
Servo system
MagDrive servo technology, integrated servo/angle sensor electromagnetic

Centering

 Telescope
 30×

 Magnification
 40 mm (1.57 in)

 Field of view at 100 m (328 ft)
 2.6 m at 100 m (8.5 ft at 328 ft)

 Shortest focusing distance
 1.5 m (4.92 ft)-infinity

 Illuminated crosshair
 Variable (10 steps)

Weight and Dimensions
 Weight and Dimensions
 5.4 kg (11.35 lb)

 Instrument (Autolock)
 5.5 kg (11.57 lb)

 Instrument (Robotic)
 5.5 kg (11.57 lb)

 Trimble CU controller
 0.4 kg (0.88 lb)

 Tribrach
 0.7 kg (1.54 lb)

 Internal battery
 0.35 kg (0.77 lb)

 Trunnion axis height
 196 mm (7.71 in)

...... USB, Serial, Bluetooth 6 Communication USB, Serial, Bluetooth^{®6}
Operating temperature -20 °C to +50 °C (-4 °F to +122 °F)
Tracklight built in Available in all models
Dust and water proofing IP65
Humidity 100% condensing
Laser pointer coaxial (standard) Laser class 2
Security Dual-layer password protection, Locate2Protect⁹ Communication

GPS SEARCH/GEOLOCK

GPS Search/GeoLock......360 degrees (400 gon) or defined horizontal and Solution acquisition time Solution time Solution acquisition time Solution time Soluti









Specifications subject to change without notice.

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Contact your local Trimble Authorized Distribution Partner for more information

