TRIMBLE S6 TOTAL STATION

KEY FEATURES

Now available with **Trimble VISION** technology for video robotic control and scene documentation

Powerful and flexible, ready for anything

Trimble DR Plus technology for long range and superior accuracy

Unmatched fast and smooth performance with MagDrive servo technology

Trimble SurePoint accuracy assurance automatically corrects instrument pointing

POWERFUL AND FLEXIBLE

The Trimble® S6 Total Station provides the power and flexibility required by today's Surveying Professionals. With the industry's most advanced technology and available feature set, the Trimble S6 Total Station will meet the changing needs of your business, allowing your investment to go further.

TRIMBLE VISION TECHNOLOGY

Now available with optional Trimble VISION™ technology, the Trimble S6 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. Now you are free to capture measurements, to prism or reflectorless surfaces, remotely, and with point-and-click efficiency.

The on-board camera integrates surveyed data with the live scene images, so you can verify the work that you've done before leaving the job site. Calibrated photo documentation provides customers with deliverables they know they can trust.

TRIMBLE DR PLUS TECHNOLOGY

Trimble DR Plus™ range measurement technology provides extended range of Direct Reflex measurement without a prism to exceptionally long range distances. Hard-to-reach or unsafe targets are no obstacle to the Trimble S6. Trimble DR Plus, combined with MagDrive™, creates unmatched capability for quick and safe measurements, without compromising on accuracy.

MAGDRIVE SERVO TECHNOLOGY

The Trimble S6 Total Station redefines surveying instrument performance with unsurpassed integration of servos, angle sensors and measurement technology. The instrument's advanced error compensation provides fast, accurate measurement every time. With smooth, silent MagDrive servo motors, the Trimble S6 offers exceptional speed.

TRIMBLE SUREPOINT ACCURACY ASSURANCE

The Trimble S6 Total Station aims and stays on target through windy weather, vibrations, handling, and sinkage. Trimble SurePoint™ technology enables the Trimble S6 to actively correct for unwanted movement ensuring accurate pointing and measurement every time. Reduce aiming error, avoid costly re-measurement and be confident in your results with Trimble SurePoint.

With its exclusive MultiTrack™ technology and Target ID capabilities, surveyors can choose the type of target, passive or active, that best suits the jobsite conditions and be confident that they will find and lock to the correct target.

ELIMINATE SEARCH TIME WITH GPS SEARCH

With GPS Search the Trimble S6 locks onto a prism in just seconds. Using a consumer grade GPS card with Bluetooth receiver or your survey grade GNSS in a Trimble I.S. rover configuration, GPS Search uses GPS positioning at the robotic rod to locate or reacquire targets rapidly. With GPS Search, waiting for target search becomes a thing of the past.

INTEGRATED SURVEYING

Put the equipment in your truck or van to the best possible use by combining your GNSS with your robotic rod into a Trimble I.S. Rover™. In clear sky, enjoy the high productivity of GNSS measurements. In obstructed areas, Trimble Access seamlessly switches to optical measurements. Or collect both GNSS and optical data simultaneously for redundant results. With the Trimble I.S. Rover, you have the freedom to use the best tool for the jobsite conditions, optimizing your productivity.



TRIMBLE S6 DR PLUS

PERFORMANCE Angle measurement			
Sensor type		Absolute encod	er with diametrical reading
		3" (1.	0 mgon), or 5" (1.5 mgon)
Angle Display (least count) Automatic level compensator			_
Type			0.5" (0.15 mgon)
Range			± 5.4" (±100 mgon)
Prism mode Standard		2 mm + 1	2 nnm (0 0065 ft ± 2 nnm)
Standard deviation according Tracking	g to ISO17123-4	1 mm +	2 ppm (0.003 ft + 2 ppm)
DR mode Standard			
Tracking			
Prism mode Standard			
Tracking			
Tracking			
Prism mode (under standard clea	r conditions ^{1,2})		
1 prism			m (18,044 ft) (max. range)
DR mode			
DR mode	Good (Good visibility, low ambient light)	Normal (Normal visibility, moderate sunlight, some heat shimmer)	Difficult (Haze, object in direct sunlight, turbulence)
	(Good visibility, low ambient light)	(Normal visibility, moderate sunlight, some heat shimmer)	(Haze, object in direct sunlight, turbulence)
White card (90% reflective) ³	(Good visibility, low ambient light) 1,300 m (4,265 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft)
	(Good visibility, low ambient light)	(Normal visibility, moderate sunlight, some heat shimmer)	(Haze, object in direct sunlight, turbulence)
White card (90% reflective) ³	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock Dark rock Reflective foil 20 mm DR Extended Range Mode White Card (90% reflective) ³ . Gray Card (18% reflective) ³ .	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock Dark rock Reflective foil 20 mm DR Extended Range Mode White Card (90% reflective) ³ . Gray Card (18% reflective) ³ . Accuracy Camera	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock Dark rock Reflective foil 20 mm DR Extended Range Mode White Card (90% reflective) ³ . Gray Card (18% reflective) ³ . Accuracy Camera Chip Resolution	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock Dark rock Reflective foil 20 mm DR Extended Range Mode White Card (90% reflective) ³ . Gray Card (18% reflective) ³ . Accuracy Camera Chip	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock Dark rock Reflective foil 20 mm DR Extended Range Mode White Card (90% reflective) ³ Gray Card (18% reflective) ³ Accuracy Camera Chip Resolution Focal length Depth of field Field of view Digital zoom Exposure	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)
White card (90% reflective) ³ Gray card (18% reflective) ³ Shortest range DR Ranges (typically) Concrete Wood construction Metal construction Light rock Dark rock Reflective foil 20 mm DR Extended Range Mode White Card (90% reflective) ³ . Gray Card (18% reflective) ³ . Accuracy Camera Chip Resolution Focal length Depth of field Field of view Digital zoom	(Good visibility, low ambient light) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Normal visibility, moderate sunlight, some heat shimmer) 1,300 m (4,265 ft) 600 m (1,969 ft)	(Haze, object in direct sunlight, turbulence) 1,200 m (3,937 ft) 550 m (1,804 ft)

GENERAL SPECIFICATIONS

Light source	EDM SPECIFICATIONS	
Horizontal 4 cm/100 m (0.13 ft/328 ft) Vertical 8 cm/100 m (0.26 ft/328 ft) Atmospheric correction—130 ppm to 160 ppm continuously Leveling Circular level in tribrach 8/72 mm (8/0.007 ft) Servo system	Light source	Pulsed laserdiode 905 nm, Laser class 1 Laser class 2
Leveling Circular level in tribrach Servo system MagDrive servo technology, integrated Servo/angle sensor electromagnetic direct drive Rotation speed Rotation time Face 1 to Face 2 Positioning time 180 degrees (200 gon) Centering Centering Centering Centering Centering System Magnification/shortest focusing distance Magnification/shortest focusing distance Magnification Magnifi	Horizontal	8 cm/100 m (0.26 ft/328 ft)
Circular level in tribrach. 8'/2 mm (8'/0.007 ft) Servo system	Atmospheric correction	–130 ppm to 160 ppm continuously
Circular level in tribrach. 8'/2 mm (8'/0.007 ft) Servo system	Leveling	
Servo system		8'/2 mm (8'/0 007 ft)
Rotation speed 115 degrees/sec (128 gon/sec) Rotation time Face 1 to Face 2 2.6 sec Positioning time 180 degrees (200 gon) 2.6 sec Clamps and slow motions. Servo-driven, endless fine adjustment Centering Centering system. Trimble 3-pin Optical plummet Baulit-in optical plummet Magnification/shortest focusing distance 2.3×/0.5 m-infinity (1.6 ft-infinity) Telescope Magnification 30x Aperture 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) Tracklight built in Not available in all models Operating temperature -20 °C to +50 °C (-4 °F to +122 °F) Dust and water proofing. IP55 Humidity. 100% condensing Power supply Internal battery Rechargeable Li-lon battery 11.1 V, 5.0 Ah Operating time for video robotic ⁴ One internal batteries in multi-battery adapter Approx. 6.5 hours Robotic holder with one internal battery -5.5 hours Three internal batteries in multi-battery adapter -1.3 kg (11.35 lb) Instrument (Robotic) 5.25 kg (11.57 lb) Trimble CU controller 5.25 kg (11.57 lb) Irimble CU controller 0.0.4 kg (0.88 lb) Iribrach 0.0.7 kg (1.54 lb) Internal battery 0.35 kg (0.77 lb) Trunnion axis height 5.00 cm (1.58 ccurity 2.00 cm) Dual-layer password protection; available on some models		
Rotation time Face 1 to Face 2. 2.6 sec Positioning time 180 degrees (200 gon) 2.6 sec Clamps and slow motions. Servo-driven, endless fine adjustment Centering Centering ystem. Trimble 3-pin Optical plummet Built-in optical plummet Magnification/shortest focusing distance. 2.3x/0.5 m-infinity (1.6 ft-infinity) Telescope Magnification 30x Aperture 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) Tracklight built in Not available in all models Operating temperature 20°C to +50°C (-4°F to +122°F) Dust and water proofing 100% condensing Power supply Internal battery Rechargeable Li-lon battery 11.1 V, 5.0 Ah Operating time ⁴ One internal batteries in multi-battery adapter Approx. 20 hours Robotic holder with one internal battery 5.5 hours Three internal batteries in multi-battery adapter 5.5 hours Three Determine (Robotic) 5.5 kg (11.57 lb) Instrument battery 5.5 hours Three batteries in multi-battery adapter 5.5 hours Three batteries in multi-battery adapter 5.5 kg (11.57 lb) Instrument (Robotic) 5.5 kg (11.57 lb) Ins		servo/angle sensor electromagnetic direct drive
Positioning time 180 degrees (200 gon) 2.6 sec Clamps and slow motions Servo-driven, endless fine adjustment Centering Centering System Trimble 3-pin Optical plummet Built-in optical plummet Agnification/shortest focusing distance 2.3 x/0.5 m-infinity (1.6 ft-infinity) Telescope Magnification/shortest focusing distance 2.3 x/0.5 m-infinity (1.6 ft-infinity) Telescope Magnification 30x Aperture 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) Tracklight built in Not available in all models Operating temperature 20° C to +50° C (-4°F to +122°F) Dust and water proofing. IP55 Humidity. 100% condensing Power supply Internal battery 8.6 Rechargeable Li-Ion battery 11.1 V, 5.0 Ah Operating time ⁴ One internal battery Approx. 20 hours Robotic holder with one internal battery Approx. 20 hours Robotic holder with one internal battery 13.5 hours Operating time for video robotic ⁴ One battery 5.5 hours Three batteries in multi-battery adapter 5.5 hours Three batteries in multi-battery adapter 5.5 hours Three batteries in multi-battery adapter 17.7 hours Weight Instrument (Servo/Autolock) 5.15 kg (11.35 lb) Instrument (Robotic) 5.25 kg (11.57 lb) Trimble CU controller 0.4 kg (0.88 lb) Instrument (Robotic) 5.25 kg (11.57 lb) Trimble CU controller 0.4 kg (0.88 lb) Instrument six height 196 mm (7.71 ln) Communication USB, Serial, Bluetooth® Security. Dual-layer password protection; available on some models		
Clamps and slow motions. Centering Centering system. Centering system. Centering system. Centering system. Optical plummet Magnification/shortest focusing distance. Magnification Store		
Centering Centering system. Optical plummet Magnification/shortest focusing distance Magnification/shortest focusing distance Magnification Aperture Magnification Mag	Positioning time 180 degrees (200 gon)	
Centering system. Trimble 3-pin Optical plummet Built-in optical plummet Magnification/shortest focusing distance 2.3×/0.5 m-infinity (1.6 ft-infinity) Telescope Magnification 30x Aperture 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) Tracklight built in Not available in all models Operating temperature 20°C to +50°C (-4°F to +122°F) Dust and water proofing. IP55 Humidity. 100% condensing Power supply Internal battery Approx. 6.5 hours Three internal battery Approx 6.5 hours Three internal batteries in multi-battery adapter Approx 20 hours Robotic holder with one internal battery . 3.5 hours Operating time for video robotic One battery. 5.5 hours Three batteries in multi-battery adapter 5.5 hours Three batteries in multi-battery adapter 17 hours Weight Instrument (servo/Autolock) 5.15 kg (11.35 lb) Instrument (Robotic) 5.25 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) Communication . USB, Serial, Bluetooth® Security. Dual-layer password protection; available on some models		Servo-driven, endless fine adjustment
Optical plummet Magnification/shortest focusing distance Magnification/shortest focusing distance Rescope Magnification Aperture Field of view at 100 m (328 ft) Shortest focusing distance 1.5 m (4.92 ft)-infinity Illuminated crosshair Variable (10 steps) Tracklight built in Not available in all models Operating temperature -20 °C to +50 °C (-4 °F to +122 °F) Dust and water proofing. Internal battery Internal battery One internal battery One internal batteries in multi-battery adapter Approx. 20 hours Robotic holder with one internal battery One battery. One battery. Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. S5.5 hours Three batteries in multi-battery adapter One battery. One battery. S5.5 hours Three batteries in mul		Trimble 2 nin
Magnification/shortest focusing distance Magnification Magnification Aperture Magnification Magnification Aperture Magnification Magnification Aperture Magnification Magnification Magnification Magnification Aperture Magnification Magnification Magnification Aperture Magnification Magnification Aperture Magnification Magnification Magnification Aperture Magnification Aperture Magnification Magnification Aperture Magnification Magnification Aperture Magnification Magnification Magnification Aperture Magnification Magnifica		
Telescope Magnification Aperture		
Magnification	Telescone	
Aperture	Magnification	30×
Shortest focusing distance		
Illuminated crosshair		
Tracklight built in		
Operating temperature. —20 °C to +50 °C (—4 °F to +122 °F) Dust and water proofing. —1P55 Humidity. —100% condensing Power supply Internal battery —1.1 V, 5.0 Ah Operating time ⁴ One internal batteries in multi-battery adapter —1.3.5 hours Robotic holder with one internal battery —1.3.5 hours Operating time for video robotic ⁴ One battery —5.5 hours Three batteries in multi-battery adapter —1.7 hours Weight Instrument (servo/Autolock) —5.15 kg (11.35 lb) Instrument (Robotic) —5.25 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) Communication —5.0 Dual-layer password protection; available on some models		
Dust and water proofing. IP55 Humidity. 100% condensing Power supply Internal battery Rechargeable Li-Ion battery 11.1 V, 5.0 Ah Operating time ⁴ One internal batteries in multi-battery adapter Approx. 20 hours Robotic holder with one internal battery. 13.5 hours Operating time for video robotic ⁴ One battery. 5.5 hours Three batteries in multi-battery adapter 17 hours Weight Instrument (servo/Autolock) 5.15 kg (11.35 lb) Instrument (Robotic) 5.25 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) Communication USB, Serial, Bluetooth ^{®5} Security. Dual-layer password protection; available on some models		
Humidity. 100% condensing Power supply Internal battery . Rechargeable Li-lon battery 11.1 V, 5.0 Ah Operating time ⁴ One internal battery . Approx. 6.5 hours Three internal batteries in multi-battery adapter . Approx. 20 hours Robotic holder with one internal battery		
Power supply Internal battery		
Internal battery Operating time ⁴ One internal battery One internal battery Approx. 6.5 hours Three internal batteries in multi-battery adapter Robotic holder with one internal battery Operating time for video robotic ⁴ One battery One battery Three batteries in multi-battery adapter Neight Instrument (servo/Autolock) Instrument (Robotic) Trimble CU controller One battery One battery Ush (1.35 lb) Instrument (Robotic) Trimble CU controller One battery One battery		
Operating time ⁴ One internal battery One internal battery Three internal batteries in multi-battery adapter Robotic holder with one internal battery Operating time for video robotic ⁴ One battery One battery Three batteries in multi-battery adapter Neight Instrument (servo/Autolock) Instrument (Robotic) Trimble CU controller One battery One batteries in multi-battery adapter Nors Weight Instrument (Robotic) Instrument (Robotic) One batteries in multi-battery adapter One batteries in multi-battery adapter Nors Weight Instrument (servo/Autolock) Instrument (Robotic) One battery One		Rechargeable Li-Ion battery 11 1 V 5 0 Ah
One internal battery. Three internal batteries in multi-battery adapter Robotic holder with one internal battery. Operating time for video robotic ⁴ One battery. Three batteries in multi-battery adapter Neight Instrument (servo/Autolock). Instrument (Robotic). Trimble CU controller. One battery. 5.5 hours 5.15 kg (11.35 lb) 1.57 lb) 1.57 lb) 1.57 lb) 1.57 lb) 1.57 lb) 1.58 g (11.57 lb) 1.58 g (11.57 lb) 1.59 lb) 1.50 lossessessessessessessessessessessessesse		
Three internal batteries in multi-battery adapter Robotic holder with one internal battery	One internal battery	
Operating time for video robotic ⁴ One battery. 5.5 hours Three batteries in multi-battery adapter 17 hours Weight Instrument (servo/Autolock) 5.15 kg (11.35 lb) Instrument (Robotic) 5.25 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) Communication USB, Serial, Bluetooth ^{®5} Security. Dual-layer password protection; available on some models	Three internal batteries in multi-battery adapter	
One battery. 5.5 hours Three batteries in multi-battery adapter 17 hours Weight Instrument (servo/Autolock) 5.15 kg (11.35 lb) Instrument (Robotic) 5.25 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) Communication USB, Serial, Bluetooth®5 Security. Dual-layer password protection; available on some models	Robotic holder with one internal battery	13.5 hours
Three batteries in multi-battery adapter Weight Instrument (servo/Autolock)		
Weight Instrument (servo/Autolock) Instrument (Robotic) Instrument (Robo		
Instrument (servo/Autolock) Instrument (Robotic) Instrument (Robotic) Instrument (Robotic) Irimble CU controller Instrument (servo/Autolock) Instr		1/ hours
Instrument (Robotic) 5.25 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) Communication USB, Serial, Bluetooth®5 Security. Dual-layer password protection; available on some models		5 15 kg (11 25 lb)
Trimble CU controller	· · · · · · · · · · · · · · · · · · ·	<i>y</i>
Tribrach		
Internal battery		
Trunnion axis height		
SecurityDual-layer password protection; available on some models	Trunnion axis height	196 mm (7.71 in)
	,	er password protection; available on some models



TRIMBLE S6 TOTAL STATION

ROBOTIC SURVEYING

Autolock and Robotic Range ²	
Passive prisms 500	m-700 m (1,640-2,297 f
Trimble MultiTrack Target	
Autolock pointing precision at 200 m (656 ft) (S	standard deviation) ²
Passive prisms	<2 mm (0.007 f
Trimble MultiTrack Target	<2 mm (0.007 f
Shortest search distance	
Type of radio internal/external 2.	4 GHz frequency-hopping
	spread-sprectrum radio
Search time (typical) ⁶	

GPS SEARCH/GEOLOCK WITH THE TRIMBLE MULTITRACK TARGET

GPS Search/GeoLock. . . . 360 degrees (400 gon) or defined horizontal and vertical search window

Standard clear: No haze. Overcast or moderate sunlight with very light heat shimmer.

 Is a latitudar Geal. No Index. Over-ass of infooterate stillinght with very light freat stillines.
 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 bluetool type approvals are county specific. Contact your local millible Authorized Distrinformation.

Dependent on selected size of search window.

Solution acquisition time is dependent upon solution geometry and GPS position quality.

© 2005–2013, Trimble Navigation Limited. All rights reserved. Trimble, the Globe & Triangle logo and Autolock are trademarks of Trimble Navigation Limited registered in the United States and in other countries. DR Plus, MagDrive, MultiTrack, SurePoint, and Trimble Survey Controller are trademarks of Trimble Navigation Limited. The Bluetooth word mark and logos are owned by the Bluetooth Slo, Inc. and any use of such marks by Trimble Navigation Limited is under license. All other trademarks are the property of their respective owners. PN 022543-098L (06/13)

Specifications subject to change without notice.





NORTH AMERICA

Trimble Navigation Limited 10368 Westmoor Drive Westminster CO 80021

EUROPE

Trimble Germany GmbH Am Prime Parc 11 65479 Raunheim GERMANY

ASIA-PACIFIC

Trimble Navigation Singapore Pty Limited 80 Marine Parade Road #22-06, Parkway Parade Singapore 449269 SINGAPORE

