Trimble RTS573 ROBOTIC TOTAL STATION

ACCURACY FOR EVERYDAY APPLICATIONS

With the Trimble® RTS573 Robotic Total Station contractors can improve efficiency and accuracy for common layout tasks in building construction.

For Everyday Layout

Automate building layout tasks with total confidence. The Trimble RTS573 streamlines layout of curbing, retaining walls, landscape, grade checks, concrete forms, anchor bolts, or utilities. Versatile enough for light topographic projects and as-built data collection, the RTS573 can handle almost any challenge on the job site.

UNSURPASSED TOTAL STATION TECHNOLOGY

Trimble MagDrive[™] Servo Technology provides for exceptional speed and accuracy with smooth, silent operation.

Trimble SurePoint[™] Technology ensures accurate measurements by automatically correcting for unwanted movement due to wind, sinkage, and other factors.

Trimble MultiTrack[™] technology locks on and tracks passive prisms for control measurements and active targets for dynamic measurement, stakeout and grade control.

BUILT FOR CONSTRUCTION

- For construction applications, you need a measurement solution with optimal speed, accuracy and reliability. With the Trimble DR Plus EDM you have the flexibility to tackle the most demanding projects.
- Visually mark points, with high precision, using the Class 2 Laser Pointer.
- Automatic Servo Focus sets the optical focus for quick manual aiming when laying out points in DR mode.
- Combine with Trimble Field Link software running on the Trimble Field Tablet to optimize your accuracy and productivity.

Key Features

- MagDrive technology for maximum speed and efficiency
- MultiTrack technology offers the choice between passive and active tracking
- Long range EDM to collect specific job site conditions





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PERFORMANCE

Horizontal angle measurement accuracy (standard deviation based on DIN 18723)

based of Dirt 10/20/	(0.5 mgon)
Vertical angle measurement accuracy (standard deviation	
based on DIN 18723) 2	" (0.6 mgon)
Angle display (least count)0.1"	(0.01 mgon)

Distance measurement

Distance meas	surennenn			
Typical Accuracy	50 m (164 ft)	100 m (328 ft)	200 m (656 ft)	300 m (984 ft)
Prism mode Standard Tracking	2 mm (5/64") 4 mm (5/32")	3 mm (1/8") 5 mm (13/64")	4 mm (5/32") 6 mm (15/64")	6 mm (15/64") 7 mm (9/32")
DR mode Standard Tracking	2 mm (5/64") 4 mm (5/32")	3 mm (1/8") 4 mm (5/32")	4 mm (5/32") 5 mm (13/64")	5 mm (13/64") 6 mm (15/64")
Tracking DR mode Standard				
Prism mode		,		2,500 m (8,202 ft)

			2,500 m (8,202 ft)
Shortest range.	 	 	0.2 m (0.7 ft)
0			

DR mode

	Extended Mode	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) ³	2,200 m (7,218 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,200 m (3,937 ft)
Gray card (18% reflective) ³	1,000 m (3,280 ft)	600 m (1,968 ft)	600 m (1,968 ft)	550 m (1,804 ft)
Shortest ra	ange			1.0 m (3.3 ft)

EDM SPECIFICATIONS

Light source EDM DR PlusLaser Class 1 TrackerLaser Class 1
Laser pointerLaser class 2 Beam divergence
Beam divergence Horizontal

GENERAL SPECIFICATIONS

3''(0.9 m gon)

Leveling Circular level in tribrach
Type Centered dual-axis Accuracy 0.5" (0.15 mgon) Range ±5.4' (±100 mgon) Servo system MagDrive servo technology, integrated servo/angle sensor; electromagnetic direct drive servo/angle sensor; electromagnetic direct drive Rotation speed .115 degrees/s (128 gon/s)
Rotation speed 115 degrees/s (128 gon/s) Rotation time Face 1 to Face 2 2.6 s Positioning speed180 degrees (200 gon) 2.6 s Clamps and slow motions Servo-driven, endless fine adjustment Centering Servo-driven, endless fine adjustment
Centering system
Telescope 30× Magnification .30× 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) to infinity Illuminated crosshair Variable (10 steps) Autofocus Standard Tracklight built in Not available in all models Operating temperature 20° C to +50° C (-4° Fto +122° F) Dust and water proofing
Internal batteryRechargeable Li-Ion battery 10.8V, 6.5Ah, 70Wh Operating time ⁴
Óne internal battery. Approx. 6.5 hours Three internal batteries in multi-battery adapter. Approx. 18 hours Robotic holder with one internal battery
Öne battery
Weight 5.15 kg (11.35 lb) Instrument (Servo/Autolock"). 5.25 kg (11.57 lb) Instrument (Robotic). 5.25 kg (11.57 lb) Trimble CU controller. 0.4 kg (0.88 lb) Tribrach 0.7 kg (154 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
ROBOTIC RANGE Autolock and Robotic range ²
Passive prisms
Passive prisms

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

6 Dependent on selected size of search window.

Specifications subject to change without notice.



Trimble.

UPLOAD

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