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





Trimble RTS573 ROBOTIC TOTAL STATION

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I LIG OTTO TOL
Horizontal angle measurement accuracy (standard deviation
based on DIN 18723)
Vertical angle measurement accuracy (standard deviation
based on DIN 18723) 2" (0.6 mgon
Angle display (least count)

Distance measurement

,	Typical Accuracy	50 m (164 ft)	100 m (328 ft)	200 m (656 ft)	300 m (984 ft)
	rism 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")
	R 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")

Measurin;	g time
Prism n	ahon

I Hallinouc															
Standard	 	1.2	9												
Tracking	 	0.4													
DR mode															
Standard	 	1-5	9												
Tracking	 	0.4	0												

Range (under standard clear conditions^{1,2})

Prisr	nı	no	de
1 pr	icr	22	

1 prism	 2,500 m (8,202 ft)
Shortest range	 0.2 m (0.7 ft)

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)

EDM SPECIFICATIONS

Ream diverge	ence				
				. 2 cm/50 m (0. . 4 cm/100 m (0	
Atmospheric	correction		_130	nom to 160 nom	continuously

GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS
Leveling Circular level in tribrach
Type
Clamps and slow motions Servo-driven, endless fine adjustment Centering Centering system Trimble 3-pin Optical plummet Built-in optical plummet Built-in optical plummet Servo-driven, endless fine adjustment Centering System Trimble 3-pin Optical plummet Servo-driven, endless fine adjustment Centering Centering System Servo-driven, endless fine adjustment Centering Centering System Servo-driven, endless fine adjustment Centering Centering System Centering Centering System Centering Centering System Centering Cen
Telescope Magnification
Öne battery
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 (71 in) Communication USB, Serial, Bluetooth* Security Dual-layer password protection
ROBOTIC RANGE Autolock and Robotic range² Passive prisms 500-700 m (1,640-2,297 ft) Trimble MultiTrack Target 800 m (2,625 ft) Autolock pointing precision at 200 m (656 ft) (standard deviation)² <2 mm (0.007 ft)

- 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.

- 6 Dependent on selected size of search window

Specifications subject to change without notice.



Contact your Distribution Partner today



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TRANSFORMING THE WAY THE WORLD WORKS



