Trimble RTS673

ROBOTIC TOTAL STATION

ACCURACY FOR EVERYDAY APPLICATIONS

With the Trimble* RTS673 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 RTS673 streamlines layout of sleeves, hangers, stub-up, anchor bolts, concrete forms, utilities, or cable trays. Versatile enough for light topographic projects and as-built data collection, the RTS673 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 HP Precision 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
- Quickly mark layout points with Class 2 laser Pointer
- ► Lock onto your target faster in robotic mode with Track-Light technology





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PERFORMANCE

Angle measurement accuracy (standard deviation	
based on DIN 18723)	3" (0.9 mgon)
Angle display (least count)	.1" (0.01 mgon)
Distance measurement	

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") 5 mm (13/64")	3 mm (1/8") 5 mm (13/64")	4 mm (5/32") 6 mm (15/64")	6 mm (15/64") 8 mm (5/16")
DR mode Standard Tracking	3 mm (1/8") 10 mm (25/64")	4 mm (5/32") 10 mm (25/64")	5 mm (13/64") 11 mm (7/16")	6 mm (5/64") 12 mm (15/32")

Measuring time Prism mode
Standard
Tracking
DR mode
Standard 3–15 s Tracking 0.4 s
Range (under standard clear conditions ^{1,2})
Prism mode
1 prism
Shortest range
DR 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	> 150 m (492 ft)	150 m (492 ft)	70 m (229 ft)
Gray card (18% reflective) ³	> 120 m (394 ft)	120 m (394 ft)	50 m (164 ft)

Shortest range	 15 m (49ft)

FDM SPECIFICATIONS

LDIVI 31 LOII TOATTONS	
Light source	Laserdiode 660 nm; Laser class 1 in Prism mode
Elgitt doditoo	
	Laser class 2 in DR mode
Laser pointer coaxial (standard).	Laser class 2
Beam divergence Prism mode	
	4 (100 (010 (1)000 (1)
	4 cm/100 m (0.13 ft/328 ft)
Vertical	4 cm/100 m (0.13 ft/328 ft)
Beam divergence DR mode	
Horizontal	
Atmospheric correction	-130 ppm to 160 ppm continuously

GENERAL SPECIFICATIONS

Leveling Circular level in tribrach
Automatic level compensator
Type
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° F to +122° F) Dust and water proofing IP55 Humidity 100% condensing Power supply
Internal battery
Three batteries in multi-battery adapter .17 hours Weight 5.15 kg (11.35 lb) Instrument (Servo/Autolock*) 5.25 kg (11.57 lb) Instrument (Robotic) 5.25 kg (11.67 lb) Trimble CU controller 0.4 kg (0.88 lb) Tribrach .0.7 kg (1.54 lb)
Internal battery
ROBOTIC RANGE Autolock and Robotic range ² Passive prisms

ROBOTIC RANGE
Autolock and Robotic range ²
Passive prisms
Trimble MultiTrack Target
Autolock pointing precision at 200 m (656 ft) (standard deviation) ²
Passive prisms <2 mm (0.007 ft)
Trimble MultiTrack" Target
Shortest search distance
Search time (typical) ⁶

- 1 Standard clear: No haze. Overcast or moderate sunlight with very light heat shimmer.
 2 Range and accuracy depend on atmospheric conditions, size of prisms and background radiation.
 3 Kodak Gray Card. Catalog number E1527795.
 4 The capacity in -20 °C (-5 °F) is 75% of the capacity at +20 °C (68 °F).
 5 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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