

## RTS010/RTM010 High Precision Total Station



- Angle measurement accuracy: 1", distance measurement accuracy: 1mm+1ppm(Prism)
- 1000m long range reflectorless distance measurement
- **RTMO 1 0**----industrial measurement instrument, distance measurement accuracy reaches to 1mm+1ppm with reflective sheet
- Ultra-narrow EDM laser beam, can precisely measure high voltage wire, walls, corners, manholes on the road surface, even chain-link fences and tree branches
- High accuracy surveying can be achieved in an easy, fast and reliable way
- Applied for high precision surveying area, such as high-speed railway construction, structural monitoring and large-scale 3D measurement
- Windows CE 5.0 operating system, onboard software: FOIF Fieldgenius or Carlson SurvCE















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## ■ Technical data

	RTS010	RTM010			RTS010	RTM010
Telescope		Compensa	Compensator Dual axis compens		ompensator	
Length/Image	ength/Image 156mm/Erect		Working ra	ing range $\pm 3'$		
Objective aperture $\phi$ 45mm		Setting accuracy 1"				
Magnification 30x		Laser plummet(Standard)*4				
Field of view 1° 30′		Accuracy $\pm 1.0$ mm/ $1.5$ m		.5m		
Shortest focus distance 1.0m			Laser class Class 2/IEC60825-1			
Angle measurement			Laser brightness Adjustable			
Reading system Absolute encoder			Laser wave length 635nm			
Angle unit 360° /400gon/6400mil, selectable			Optical plummet(Factory optional)			
Display resolution 0.1" /0.5" /1" (or 0.02mgon/0.1mgon/0.2mgon)			Accuracy $\pm 0.8$ mm/1.5m			
Accuracy*1	1"		Image		Erect	
Distance measurement			Magnificat	ion	3 ×	
Laser class			Field of vie	w	4°	
Standard prism mode	Class 1		Focus rang	е	0.5m to ∞	
Long prism mode	Class 2		<b>Display</b> 3.5" colour TFT LCD (320 x 240 dots) touch screen			
Reflective sheet Class 2			transflective sunlight readable display			
Standard reflectorless mo	de Class 2		Power			
Long reflectorless mode	Class 3R		Battery	3	3400mAh Li-ion F	techargeable
Measurement range (Good condition )*2			Output vo	Itage	7.4V DC	
Standard mode/Prism 1 to 3500m			Continuous	operation time	8 hours	
Long mode /Prism 1 to 30000m			(Single distance measurement every 30 seconds)			
Reflective sheet/RP60	1 to 1200m	1 to 2000m	Charger		FDJ6-Li(11	0V /240V )
Reflectorless*3	1 to 1000	)m	Charging t	ime(at +20℃)	Approx. 4	nours
Accuracy			Application programs			
Standard prism mode	andard prism mode 1mm+1ppm		Data collection/Stake out/Resection/REM/MLM/Point to line			
Long prism mode	1mm+1pp	om	AREA/Z cod	AREA/Z coordinate/OFFset/3D Road/Traverse adjustment		
Reflective sheet/RP60	2mm+2ppm	1mm+1ppm	Tape meas	urement/sectio	n/Axis positioning	measurement
Reflectorless	1-500m:2	mm+2ppm	Others			
	>500m:4	mm+2ppm	CPU		ARM9 Core	
Typital measuring time(max.20s)			Memory		2G interna	l memory
Prism standard mode	1.0s~5.0s	5	Sensors	Built-in t	temperature and p	ressure sensors
Prism long mode	0.7s~6s		Keyboard	Alphanume	erical illuminated ke	y board, both sides
Reflective sheet/RP60	1s~5s		Weight(inc	luding batteries	6.5kg	
Reflectorless	1-500m:0	.7s~6s	Dimension	ıs(WxDxH)	180x220x3	60mm
	>500m:3s	s~12s	Operating	temperature	-20°C to+5	o°C
Display resolution(m/inch selectable) 0.1mm/1mm			Storage te	mperature	-40°C to +7	0℃
Temperature input range -40°C to+60°C(1°C steps)			Interface USB host/USB slave/RS-232C/Bluetooth(Optional)			
Pressure input range	500hPa to 1500h		Water and	dust protection	IP55(IEC60	529)
Prism constant correction -99.9mm to +99.9mm			Data transfer&processing software FOIF Geomatics Office			
Level vial sensitivity			Data collec	tor	PS236, fully rugg	ed PDA(Optional)
Plate level vial	30″ /2mn	า				
Circular level vial	8′ /2mm					

<sup>\*1</sup> Standard deviation based on ISO17123-3

Illustrations, descriptions and technical specifications are not binding and may change



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**Local Dealer:** 

<sup>\*2</sup> Good conditions: no haze, visibility about 40km, no heat shimmer, breeze