



RTS010 High Precision Total Station



- Angle measurement accuracy: 1", distance measurement accuracy: 1mm+1ppm(Prism)
- 1000m long range reflectorless distance measurement
- Ultra-narrow EDM laser beam, can precisely measures 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 areas, such as high-speed railway construction, structural monitoring and large-scale 3D measurement
- Windows CE 7.0 operating system, onboard software: FOIF Survey, FOIF Fieldgenius.



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Technical data

RTS010		RTS010	
Telescope		Laser plummet(Standard)* ⁴	
Length/Image	156mm/Erect	Accuracy	±1.0mm/1.5m
Objective aperture	φ45mm	Laser class	Class 2(Max. output power≥ 0.7mW)
Magnification	30x	Laser spot	2.5mm/1.5m
Field of view	1° 30'	Laser wave length	635nm
Shortest focus distance	1.0m	Display	3.5" colour TFT LCD (320 x 240 dots) touch screen
Angle measurement			transflective sunlight readable display
Reading system	Absolute encoder	Power	
Angle unit	360° /400gon/6400mil, selectable	Battery	3400mAh Li-ion Rechargeable
Display resolution	0.5"/1"/0.1" (0.15mgon/0.3mgon/0.03mgon)	Output voltage	7.4V DC
Accuracy* ¹	1"	Continuous operation time	5 hours (Single distance measurement every 30 seconds)
Distance measurement		Charger	FDJ6-LI(100V /240V)
Laser class		Charging time	Approx.4 hours
Prism standard mode	Class 1	Application programs	
Prism long mode	Class 2	Data collection/Stake out/Resection/REM/MLM/LHM	
Reflective sheet	Class 2	Offset measurement/ Traverse surveying	
Reflectorless standard mode	Class 2	Others	
Reflectorless long mode	Class 3R	CPU	ARM Cortex A8
Measurement range (Good condition)* ²		Memory	4GB internal memory
Prism long mode	1 to 6000m	Sensors	Built-in temperature and pressure sensors
Reflective sheet/RP60	1 to 1200m	Keyboard	Alphanumerical illuminated key board, both sides
Reflectorless standard mode* ³	1 to 1000m	Weight(including batteries)	6.5kg
Accuracy		Dimensions(WxDxH)	185x220x360mm
Prism standard mode	1mm+1ppm	Operating temperature	-20℃ to +50℃
Reflective sheet/RP60	2mm+2ppm	Interface	USB host/USB slave/RS-232C/Bluetooth(Optional)
Reflectorless	2mm+2ppm(0.1-500m); 4mm+2ppm(500-1000m)	Water and dust protection	IP54(IEC60529)
Typital measuring time		Onboard software	FOIF Survey,FOIF Fieldgenius
Prism standard mode	1.0s~5.0s	Related products  OTS680 RTS350 RTS100 DT400/LP400	
Prism long mode	0.7s~6s		
Reflective sheet/RP60	>200m: 1s~5s <200m: 0.9s		
Reflectorless	0.1-500m:0.7s~6s >500m:3s~12s		
Min. display resolution	0.0001m/0.001ft /0.001ft(US)		
Level vial sensitivity			
Plate level vial	30" /2mm		
Circular level vial	8' /2mm		
Compensator			
Compensation method	Dual-axis		
Working range	±3'		

*1 Standard deviation based on ISO17123-3

*2 Good conditions: no haze, visibility about 40km, no heat shimmer, breeze

*3 Reflector: White side of Kodak Gray Card with 90% reflective

*4 Laser plummet mounted on the bottom of the vertical axis

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

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