



RTS010/RTM010 High Precision Total Station



- Angle measurement accuracy: 1" , distance measurement accuracy: 1mm+1ppm(Prism)
- 1000m long range reflectorless distance measurement
- **RTM010**---industrial measurement instrument, distance measurement accuracy reaches to 1mm+1ppm with reflective sheet
- 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 or Carlson SurvCE



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Technical data

RTS010		RTM010	RTS010		RTM010
Telescope			Compensator		
Length/Image			Dual-axis compensator		
Objective aperture			Working range		
Magnification			Setting accuracy		
Field of view			Laser plummet(Standard) ^{*4}		
Shortest focus distance			Accuracy		
Angle measurement			Laser class		
Reading system			Laser brightness		
Angle unit			Laser wave length		
Display resolution			Optical plummet(Factory optional)		
Accuracy ^{*1}			Accuracy		
Distance measurement			Image		
Laser class			Magnification		
Standard prism mode			Field of view		
Long prism mode			Focus range		
Reflective sheet			Display		
Standard reflectorless mode			Power		
Long reflectorless mode			Battery		
Measurement range (Good condition) ^{*2}			Output voltage		
Standard mode/Prism			Continuous operation time		
Reflective sheet/RP60			Charger		
Reflectorless ^{*3}			Charging time		
Accuracy			Application programs		
Standard prism mode			Data collection/Stake out/Resection/REM/MLM/Point to line		
Reflective sheet/RP60			AREA/Z coordinate/OFFset/3D Road/Traverse adjustment		
Reflectorless			Tape measurement/section/Axis positioning measurement		
Typical measuring time(max.20s)			Others		
Prism standard mode			CPU		
Prism long mode			Memory		
Reflective sheet/RP60			Sensors		
Reflectorless			Keyboard		
Display resolution(m/inch selectable)			Weight(including batteries)		
Temperature input range			Dimensions(WxDxH)		
Pressure input range			Operating temperature		
Prism constant correction			Storage temperature		
Level vial sensitivity			Interface		
Plate level vial			Water and dust protection		
Circular level vial			Data transfer&processing software		
			Data collector		

*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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