

RTS350 series Windows CE Total Station



- Compact design with Windows CE 5.0 operating system
- 3.5" colour TFT LCD (320 x 240 dots) touch screen, transfective sunlight readable display
- Professional onboard software: FOIF Fieldgenius or Carlson SurvCE
- Long reflectorless measuring distance reaches to 500m(R500) or 1000m(R1000)
- Illuminated keyboard with light sensor, turn on in dark surroundings automatically
- Multiple data interface,USB host, USB slave, RS-232C or Bluetooth connection are available
- Smart battery managing system, display battery life in real-time
- Guide light system for fast stake out measurement



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Technical data

		RTS352	RTS355			RTS352	RTS355
Telescope				Level vial sensitivity			
Length/Image		156mm/Erect		Plate level vial		30" /2mm	
Objective aperture		φ45mm		Circular level vial		8' /2mm	
Magnification		30x		Compensator			
Field of view		1° 30'		Working range		±3'	
Shortest focus distance		1.0m		Setting accuracy		1"	
Angle measurement				Laser plummet(Standard)*4			
Reading system		Absolute encoder		Accuracy		±1mm/1.5m	
Angle unit		360° /400gon/6400mil, selectable		Laser class		Class 2/IEC60825-1	
Display resolution		0.1" /0.5" /1" (or 0.02mgon/0.1mgon/0.2mgon)		Laser brightness		Adjustable	
Accuracy*1		2"		Laser wave length		635nm	
5"		Optical plummet(Factory optional)					
Distance measurement(R500)				Accuracy		±0.8mm/1.5m	
Display resolution(m/inch selectable)		0.1mm/1mm		Image		Erect	
Laser class		Prism		Magnification		3x	
		Class 1		Field of view		4°	
Reflectorless/Reflective sheet		Class 3R		Focus range		0.5m to ∞	
Measurement range (Good condition)*2				Display			
Reflectorless*3		1 to 500m		3.5" colour TFT LCD (320 x 240 dots) touch screen			
Reflective sheet/RP60		1 to 800m		transflective sunlight readable display			
Single prism		1 to 3000m		Power			
Three prisms		1 to 5000m		Battery		3400mAh Li-ion Rechargeable	
Accuracy Prism		2mm+2ppm		Output voltage		7.4V DC	
Reflective sheet/RP60		3mm+2ppm		Continuous operation time		8 hours	
Reflectorless		1-200m:3mm+2ppm/ ≥200:5mm+3ppm		(Single distance measurement every 30 seconds)			
Measuring time		Initial:2.5s		Charger		FDJ6-Li(110V /240V)	
Prism		typ.1.0-1.5s		Charging time(at +20°C)		Approx. 4 hours	
Reflective sheet/RP60		typ.1.5s		Application programs			
Reflectorless		typ.1.5-5s, max. 20s		Data collection/Stake out/Resection/REM/MLM/Point to line			
Distance measurement(R1000)				AREA/Z coordinate/OFFset/3D Road/Traverse adjustment			
Laser class*5				Tape measurement/section/Axis positioning measurement			
Prism standard mode/Prism long mode		Class1/Class 2		Others			
Reflective sheet		Class 2		CPU		ARM9 Core	
Reflectorless standard mode		Class 2		Memory		2G internal memory	
Reflectorless long mode		Class 3R		Sensors		Built-in temperature and pressure sensors	
Measurement range (Good condition)*2				Keyboard		Alphanumerical illuminated key board, both sides	
Standard mode/Prism		1 to 3500m		Guide Light System		Factory optional	
Long mode /Prism		1 to 6000m		Weight(including batteries)		5.5kg	
Reflective sheet/RP60		1 to 1200m		Dimensions(WxDxH)		185x220x360mm	
Reflectorless*3		1 to 1000m		Operating temperature		-20°C to+50°C	
Accuracy/typital measuring time(max.20s)				Storage temperature		-40°C to +70°C	
Prism standard mode		1mm+1.5ppm/1.0s~5.0s		Interface		USB host/USB slave/RS-232C/Bluetooth(Optional)	
Prism long mode		2mm+2.5ppm/0.7s~6s		Water and dust protection		IP55(IEC60529)	
Reflective sheet/RP60		2mm+2ppm/1s~5s		Data transfer&processing software		FOIF Geomatics Office	
Reflectorless		1-500m:2mm+2ppm/0.7s~6s >500m:4mm+2ppm/3s~12s		Data collector		PS236, fully rugged PDA(Optional)	

*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

*5 Laser safety certificate IEC 60825-1/ EN60825-1 compliant

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

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