

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 FOIF survey
- 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



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Technical data

	RTS351	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/Resolving Power	30x/ 3"		Compensator Dual axis compensator			
Field of view/Shortest focus distance	1° 30' /1.0m		Working range	±3'		
Reticle illumination	10 levels		Setting accuracy	1"		
Angle measurement			Laser plummet(Standard)*4			
Reading system	Absolute encoder		Accuracy	±1.0mm/1.5m		
Angle unit	360° /400gon/6400mil, selectable		Laser class	Class 2/IEC60825-1		
Display resolution	0.5" /1" /5"	1" /5"		Laser brightness	Adjustable	
Accuracy*1	1"	2"	5"	Laser wave length	635nm	
Distance measurement(R500)			Optical plummet(Factory optional)			
Display resolution(m/inch selectable)	0.1mm/1mm		Accuracy	±0.8mm/1.5m		
Laser class	Prism	Class 1		Image	Erect	
	Reflectorless/Reflective sheet		Class 3R		Magnification	3x
Measurement range (Good condition)*2			Field of view			4°
Reflectorless*3	1 to 500m		Focus range			0.5m to ∞
Reflective sheet/RP60	1 to 800m		Display 3.5" colour TFT LCD (320 x 240 dots) touch screen			
Single prism	1 to 3000m		transflective sunlight readable display			
Three prisms	1 to 5000m		Power			
Accuracy Prism	2mm+2ppm/1mm+1.5ppm(Optional)		Battery	3400mAh Li-ion Rechargeable		
Reflective sheet/RP60	3mm+2ppm		Output voltage	7.4V DC		
Reflectorless	1-200m:3mm+2ppm/ ≥200:5mm+3ppm		Continuous operation time *6	10 hrs in distance & 25 Hrs in angle measurement mode		
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

*6 Single distance measurement every 30 seconds

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

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