

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, transreflective 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"							
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		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		8 hours	
Measuring time		Initial:2.5s		(Single distance measurement every 30 seconds)			
Prism		typ.1.0-1.5s		Charger		FDJ6-Li(110V /240V)	
Reflective sheet/RP60		typ.1.5s		Charging time(at +20°C)		Approx. 4 hours	
Reflectorless		typ.1.5-5s, max. 20s		Application programs			
Distance measurement(R1000)				Data collection/Stake out/Resection/REM/MLM/Point to line			
Laser class*5				AREA/Z coordinate/OFFset/3D Road/Traverse adjustment			
Prism standard mode/Prism long mode		Class1/Class 2		Tape measurement/section/Axis positioning measurement			
Reflective sheet		Class 2		Others			
Reflectorless standard mode		Class 2		CPU		ARM9 Core	
Reflectorless long mode		Class 3R		Memory		2G internal memory	
Measurement range (Good condition)*2				Sensors		Built-in temperature and pressure sensors	
Standard mode/Prism		1 to 3500m		Keyboard		Alphanumerical illuminated key board, both sides	
Long mode /Prism		1 to 6000m		Guide Light System		Factory optional	
Reflective sheet/RP60		1 to 1200m		Weight(including batteries)		5.5kg	
Reflectorless*3		1 to 1000m		Dimensions(WxDxH)		185x220x360mm	
Accuracy/typital measuring time(max.20s)				Operating temperature		-20°C to+50°C	
Prism standard mode		1mm+1.5ppm/1.0s~5.0s		Storage temperature		-40°C to +70°C	
Prism long mode		2mm+2.5ppm/0.7s~6s		Interface		USB host/USB slave/RS-232C/Bluetooth(Optional)	
Reflective sheet/RP60		2mm+2ppm/1s~5s		Water and dust protection		IP55(IEC60529)	
Reflectorless		1-500m:2mm+2ppm/0.7s~6s >500m:4mm+2ppm/3s~12s		Data transfer&processing software		FOIF Geomatics Office	
				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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