



RTS360 series Windows CE Total Station



- Compact design with Windows CE 5.0 operating system
- Endless drives are applied on RTS360 series, collimate target faster with two hands operation
- A trigger key mounted on the side of the instrument, user do not lose sight of the target while measuring
- 3.5" colour TFT LCD (320 x 240 dots) touch screen, transfective sunlight readable display
- Professional onboard software: FOIF Fieldgenius or Carlson SurvCE
- Illuminated keyboard with light sensor, turn on in dark surroundings automatically
- Long reflectorless measuring distance reaches to 500m(R500) or 1000m(R1000)
- 500m-1000m long range Bluetooth cable-free connection offers solution of semi-automatic data collection(optional)
- Smart battery managing system, display battery life in real-time



RTS360 can connect to data collector through Bluetooth

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Technical data

	RTS362	RTS365		RTS362	RTS365
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	0.5" /1" /5" (0.1mgon/0.2mgon/1mgon)		Laser brightness	Adjustable	
Accuracy ^{*1}	2"	5"	Laser wave length	635nm	
Distance measurement(R500)			Optical plummet(Factory optional)		
Display resolution(m/inch selectable)	0.1mm/1mm		Accuracy	±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		Endless drive		
Single prism	1 to 3000m		Display		
Accuracy			3.5" colour TFT LCD(320x240 dots) touch screen		
Prism	2mm+2ppm		transflective sunlight readable display		
Reflective sheet/RP60	3mm+2ppm		Power		
Reflectorless	1-200m:3mm+2ppm/ ; 200:5mm+3ppm		Battery	3400mAh Li-ion Rechargeable	
Measuring time	Initial:2.5s		Output voltage	7.4V DC	
Prism	typ.1.0-1.5s		Continuous operation time	8 hours, (Single distance measurement every 30 seconds)	
Reflective sheet/RP60	typ.1.5s		Charger	FDJ6-Li(110V /240V)	
Reflectorless	typ.1.5-5s, max. 20s		Charging time(at +20°C)	Approx. 4 hours	
Distance measurement(R1000)			Application programs		
Laser class			Application programs		
Prism standard mode/Prism long mode	Class1/Class 2		Data collection/Stake out/Resection/REM/MLM/Point to line		
Reflective sheet	Class 2		AREA/Z coordinate/OFFset/3D Road/Traverse adjustment		
Reflectorless standard mode	Class 2		Tape measurement/Section/Axis positioning measurement		
Reflectorless long mode	Class 3R		Others		
Measurement range (Good condition) ^{*2}			CPU	ARM9 Core	
Standard mode/Prism	1 to 3500m		Memory	2G internal memory	
Long mode /Prism	1 to 6000m		Sensors	Built-in temperature and pressure sensors	
Reflective sheet/RP60	1 to 1200m		Keyboard	Alphanumerical key board, both sides	
Reflectorless ^{*3}	1 to 1000m		Guide light system	Factory optional	
Accuracy/typital measuring time(max.20s)			Weight(including batteries)	6.0kg	
Prism standard mode	1mm+1.5ppm/1.0s~5.0s		Dimensions(WxDxH)	185x220x360mm	
Prism long mode	2mm+2.5ppm/0.7s~6s		Operating temperature	-20°C to+50°C	
Reflective sheet/RP60	2mm+2ppm/1s~5s		Storage temperature	-40°C to +70°C	
Reflectorless	1-500m: 2mm+2ppm/0.7s~6s >500m: 4mm+2ppm/3s~12s		Interface	USB/RS-232C/Bluetooth(Optional)	
			Water and dust protection	IP55(IEC60529)	
			Data transfer&processing software	FOIF Geomatics Office	

*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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