



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		φ 45mm		Circular level vial		8′ /2mm	
Magnification		30x		Compensator		Dual-axis compensator	
Field of view		1° 30′		Working range		3′	
Shortest focus distance		1.0m		Setting accuracy		1″	
Angle measurement				Laser plummet(Standard)			
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″		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		H&V	
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℃)		Approx. 4 hours	
Distance measurement(R1000)				Application programs			
Laser class				Data collection/Stake out/Resection/REM/MLM/Point to line			
Prism standard mode/Prism long mode		Class1/Class 2		AREA/Z coordinate/OFFset/3D Road/Traverse adjustment			
Reflective sheet		Class 2		Tape measurement/Section/Axis positioning measurement			
Reflectorless standard mode		Class 2		Others			
Reflectorless long mode		Class 3R		CPU		ARM9 Core	
Measurement range (Good condition) *2				Memory		2G internal memory	
Standard mode/Prism		1 to 3500m		Sensors		Built-in temperature and pressure sensors	
Long mode /Prism		1 to 6000m		Keyboard		Alphanumerical key board, both sides	
Reflective sheet/RP60		1 to 1200m		Guide light system		Factory optional	
Reflectorless*3		1 to 1000m		Weight(including batteries)		6.0kg	
Accuracy/typital measuring time(max.20s)				Dimensions(WxDxH)		185x220x360mm	
Prism standard mode		1mm+1.5ppm/1.0s~5.0s		Operating temperature		-20℃ to+50℃	
Prism long mode		2mm+2.5ppm/0.7s~6s		Storage temperature		-40℃ to +70℃	
Reflective sheet/RP60		2mm+2ppm/1s~5s		Interface		USB/RS-232C/Bluetooth(Optional)	
Reflectorless		1-500m: 2mm+2ppm/0.7s~6s >500m: 4mm+2ppm/3s~12s		Water and dust protection		IP55(IEC60529)	
				Data transfer&processing software FOIF Geomatics Office			

*1 Standard deviation based on ISO17123-3

*3 Reflector: White side of Kodak Gray Card with 90% reflective

*2 Good conditions: no haze, visibility about 40km, no heat shimmer, breeze

*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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Since 1958
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Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904

FAX:+86 512 65230619

Http://www.foif.com

E-mail:internationalsales@foif.com.cn

ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China



Local Dealer: