



RTS100/RTS100R Series Total Station



- Measuring distance: 300m(RTS100R3)/500m(RTS100R5)
- RTS100R3 EDM can be upgraded to RTS100R5 EDM(Factory Optional)
- Bluetooth[®] cable-free connection(Factory Optional)
- 120000 points and 40 Jobs can be saved
- Can be operated with a data collector, FOIF FieldGenius, or other third party software is available
- IP66 environmental protection
- Alphanumeric keyboard



RTS100/RTS100R can connect to data collector through Bluetooth or RS-232C



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RTS100/RTS100R 2014.06

	RTS100R	RTS100		RTS100R	RTS100
Telescope			Compensator		
Length156mm			Dual-axis		
ImageErect			Range±3'		
Objective apertureφ45mm			Setting accuracy1"		
Magnification30×			Level vial sensitivity		
Field of view1° 30'			Plate level vial30" /2mm		
Shortest focus distance1.0m			Circular level vial8' /2mm		
Angle measurement			Laser plummet(Standard)*4		
Reading systemAbsolute encoder			Accuracy±1mm/1.5m		
Angle unit360° /400gon/6400mil, selectable			Laser classClass 2/IEC60825-1		
Display resolution1" /5" /10" (or 0.2mgon/1mgon/2mgon)			Laser spot brightnessAdjustable		
Accuracy*1RTS102/RTS102R3/RTS102R5 RTS105/RTS105R3/RTS105R5			Laser wave length635nm		
			Optical plummet(Factory Optional)		
			Accuracy±0.8mm/1.5m		
Distance measurement			ImageErect		
Laser class(IEC60825-1)		/	Magnification/Field of view3 ×/4°		
Reflectorless	Class 3R	/	Focus range0.5m to ∞		
Reflective sheet/RP60	Class 3R	/	Power		
Prism	Class 1	Class 1	Battery3400mAh Li-ion Rechargeable		
Measurement range (Good condition)*2		/	Output voltage7.4V DC		
Reflectorless*3		/	Continuous operation timeApprox. 26 hours(At +20℃) (Single distance measurement every 30 seconds)		
R3	1 to 300m	/	ChargerFDJ6-LI (100V /240V)		
R5	1 to 500m	/	Charging time(at +20℃)Approx.4 hours		
Reflective sheet/RP60	1 to 800m	/	Application programs		
Single prism(Class 1)	1 to 3000m	1 to 3000m	Data collection/Stake out/Resection/REM/MLM/Road		
Single prism(Class 3R)	1 to 5000m	/	AREA/Point to line/Z coordinate/OFFset/Arc staking out		
Three-prism	1 to 5000m	1 to 5000m	Others		
Accuracy			DisplayLCD, 6lines X20characters(96 X160 dots)		
Prism	2mm+2ppm	2mm+2ppm	LanguageEnglish, Spanish, Portuguese, Russia, German, French, Polish, Italian, Turkish...		
Reflective sheet/RP60	3mm+2ppm	/	CPU32Bit		
Reflectorless		/	Memory60000 points and 50 codes for internal memory support SD card(max.16G)		
R3	1-150m:3mm+2ppm	/	KeyboardAlphanumeric key board, both sides		
	≥150m:5mm+3ppm	/	Weight(including batteries)5.1kg		
R5	1-200m:3mm+2ppm	/	Dimensions(WxDxH)175x178x340mm		
	≥200m:5mm+3ppm	/	Operating temperature-20℃ to +50℃		
Measuring time	Initial:2s	Initial:2s	Storage temperature-40℃ to +70℃		
Prism	typ.1.0-1.5s	1.0-1.5s	InterfaceUSB/RS-232C/Bluetooth(Factory Optional)		
Reflective sheet/RP60	typ.1.5s	/	Water and dust protectionIP66(IEC60529)		
Reflectorless	typ.1.5-5s, max. 20s	/	Data transfer softwareFOIF Geomatics Office(FGO)		
Display resolution(m/inch selectable)		0.2mm/1mm	Data collectorF52G or PS236, fully rugged PDA(Optional)		
Temperature input range		-40℃ to +60℃(1℃ steps)			
Pressure input range		500hPa to 1500hPa(1hPa steps)			
Prism constant correction		-99.9mm to +99.9mm			

*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



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: