



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



RTS100/RTS100R Series Total Station

		RTS100R	RTS100			RTS100R	RTS100
Telescope				Compensator Dual-axis			
Length		156mm		Range		±3'	
Image		Erect		Setting accuracy		1"	
Objective aperture		φ45mm		Level vial sensitivity			
Magnification		30×		Plate level vial		30"/2mm	
Field of view		1° 30'		Circular level vial		8"/2mm	
Shortest focus distance		1.0m		Laser plummet(Standard)*4			
Angle measurement				Accuracy		±1mm/1.5m	
Reading system		Absolute encoder		Laser class		Class 2/IEC60825-1	
Angle unit		360° /400gon/6400mil, selectable		Laser spot brightness		Adjustable	
Display resolution		1" /5" /10" (or 0.2mgon/1mgon/2mgon)		Laser wave length		635nm	
Accuracy*1		RTS102/RTS102R3/RTS102R5 RTS105/RTS105R3/RTS105R5	2" 5"	Optical plummet(Factory Optional)			
Distance measurement				Accuracy		±0.8mm/1.5m	
Laser class(IEC60825-1)		/		Image		Erect	
Reflectorless	Class 3R	/		Magnification/Field of view		3×/4°	
Reflective sheet/RP60	Class 3R	/		Focus range		0.5m to ∞	
Prism	Class 1	Class 1		Power			
Measurement range (Good condition)*2		/		Battery		3400mAh Li-ion Rechargeable	
Reflectorless*3		/		Output voltage		7.4V DC	
R3	1 to 300m	/		Continuous operation time		Approx. 26 hours(At +20°C) (Single distance measurement every 30 seconds)	
R5	1 to 500m	/		Charger		FDJ6-LI (100V/240V)	
Reflective sheet/RP60	1 to 800m	/		Charging time(at +20°C)		Approx.4 hours	
Single prism(Class 1)	1 to 3000m	1 to 3000m		Application programs			
Single prism(Class 3R)	1 to 5000m	/		Data collection/Stake out/Resection/REM/MLM/Road		AREA/Point to line/Z coordinate/OFFset/Arc staking out	
Three-prism	1 to 5000m	1 to 5000m		Others			
Accuracy				Display		LCD, 6lines X20characters(96 X160 dots)	
Prism	2mm+2ppm	2mm+2ppm		Language		English, Spanish, Portuguese, Russia, German, French, Polish, Italian, Turkish...	
Reflective sheet/RP60	3mm+2ppm	/		CPU		32Bit	
Reflectorless		/		Memory		60000 points and 50 codes for internal memory support SD card(max.16G)	
R3	1-150m:3mm+2ppm	/		Keyboard		Alphanumerical 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°C to +50°C	
Measuring time	Initial:2s	Initial:2s		Storage temperature		-40°C to +70°C	
Prism	typ.1.0-1.5s	1.0-1.5s		Interface		USB/RS-232C/Bluetooth(Factory Optional)	
Reflective sheet/RP60	typ.1.5s	/		Water and dust protection		IP66(IEC60529)	
Reflectorless	typ.1.5-5s, max. 20s	/		Data transfer software		FOIF Geomatics Office(FGO)	
Display resolution(m/inch selectable)		0.2mm/1mm		Data collector		F52G or PS236, fully rugged PDA(Optional)	
Temperature input range		-40°C to +60°C(1°C 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

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