



RTS100/RTS100R Series Total Station



- Measuring distance: 600m/1000m
- RTS100R EDM can be upgraded
- 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

Technical data

Product	RTS100R	RTS100	RTS100R	RTS100
Telescope			Range	6'
Length	156mm		Setting accuracy	1"
Image	Erect		Level vial sensitivity	
Objective aperture	φ45mm		Plate level vial	30" / 2mm
Magnification	30×		Circular level vial	8' / 2mm
Field of view	1° 30'		Laser plummet(Standard)*4	
Shortest focus distance	1.0m		Accuracy	±1mm/1.5m
Reticle illumination	Yes-9 level		Laser class	Class 2/IEC60825-1
Angle measurement			Laser spot brightness	Adjustable
Reading system	Absolute encoder		Laser wave length	635nm
Angle unit	360° / 400gon/6400mil, selectable		Optical plummet(Factory Optional)	
Display resolution	1" / 5" / 10" (or 0.2mgon/1mgon/2mgon)		Accuracy	±0.8mm/1.5m
Accuracy*1	1" / 2" / 5"		Image	Erect
Distance measurement			Magnification/Field of view	3×/4°
Laser class(IEC60825-1)		/	Focus range	0.5m to ∞
Reflectorless	Class 3R	/	Power	
Reflective sheet/RP60	Class 3R	/	Battery	3400mAh Li-ion Rechargeable
Prism	Class 1	Class 1	Output voltage	7.4V DC
Measurement range (Good condition)*2		/	Continuous operation time	Approx. 26 hours(At +20℃) (Single distance measurement every 30 seconds)
Reflectorless*3		/	Charger	FDJ6-LI (100V / 240V)
R6	1 to 600m	/	Charging time(at +20℃)	Approx. 4 hours
R10	1 to 1000m	/	Application programs	
Reflective sheet/RP60	1 to 800m	/	Data collection/Stake out/Resection/REM/MLM/Road	
Single prism(Class 1)	1 to 3000m	1 to 3000m	AREA/Point to line/Z coordinate/OFFset/Arc staking out	
Single prism(Class 3R)	1 to 5000m	/	Others	
Accuracy			Display	Double LCD displays, 6lines X20characters(96 X160 dots)
Prism	2mm+2ppm	2mm+2ppm	Electronic level in display	Yes
Reflective sheet/RP60	3mm+2ppm	/	CPU	32Bit
Reflectorless		/	Memory	1,20,000 points, 50 codes and support SD card (Max 32GB)
R6	3mm+2ppm	/	Keyboard	Alphanumeric key board, both sides
R10	3mm+2ppm	/	Weight(including batteries)	5.1kg
Measuring time	Initial:1.2s	Initial:1.2s	Dimensions(WxDxH)	175x178x340mm
Prism	typ.0.4-1.5s	0.4-1.5s	Operating temperature	-20℃ to +50℃
Reflective sheet/RP60	typ.1.5s	/	Storage temperature	-40℃ to +70℃
Reflectorless	typ.0.4-5s, max. 20s	/	Interface	USB/RS-232C/Bluetooth(Factory Optional)
Display resolution(m/inch selectable)	0.2mm/1mm		Water and dust protection	IP66(IEC60529)
Temperature input range	-40℃ to +60℃(1℃ steps)		Data transfer software	FOIF Geomatics Office(FGO)
Pressure input range	500hPa to 1500hPa(1hPa steps)		Data collector	F52G or PS236, fully rugged PDA(Optional)
Prism constant correction	-99.9mm to +99.9mm			
Compensator	Dual-axis			

*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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