



RTS100 Series Total Station



- Alphanumeric keyboard
- Reflectorless measuring distance:600m(R600)
- 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



RTS100 Series Total Station

■ Technical data

	RTS102	RTS105		RTS102	RTS105
Telescope			Level vial sensitivity		
Image	Erect		Plate level vial	30" /2mm	
Objective aperture	φ45mm		Circular level vial	8' /2mm	
Magnification	30×		Laser plummet(Standard) *4		
Field of view	1° 30'		Accuracy	±1mm/1.5m	
Shortest focus distance	1.0m		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	2"	5"	Image	Erect	
Distance measurement			Magnification/Field of view	3×/4°	
Laser class(IEC60825-1)			Focus range	0.5m to ∞	
Reflectorless	Class 3A(3R)		Power		
Reflective sheet/RP60	Class 3A(3R)		Battery	3400mAh Li-ion Rechargeable	
Prism	Class 1		Output voltage	7.4V DC	
Measurement range			Continuous operation time (angle measurement)	Approx. 24 hours(At +20℃)	
Reflectorless*2			Charger	FDJ6-LI	
R600	2.0 to 600m(800m optional)		Charging time(at +20℃)	Approx.4 hours	
Single prism*3	2.0 to 5000m		Application programs		
Accuracy			Data collection/Stake out/Resection/REM/MLM/Road		
Prism	2mm+2ppm		AREA/Point to line/Z coordinate/OFFset/Arc staking out		
Reflective sheet/RP60	3mm+2ppm		Others		
Reflectorless			Display	LCD, 6lines X20characters(96 X160 dots)	
R600	3mm+2ppm		CPU	32Bit	
Measuring time(prism)			Memory	120000 points, support SD card(max.16G)	
Tracking	0.4 sec		Keyboard	Alphanumerical key board, both sides	
Fast	0.6 sec		Weight(including batteries)	5.1kg	
Fine	1.0 sec		Dimensions(WxDxH)	175x178x340mm	
Display resolution(m/inch selectable)	0.2mm/1mm		Operating temperature	-20℃ to +50℃	
Temperature input range	-40℃ to +60℃(1℃ steps)		Storage temperature	-40℃ to +70℃	
Pressure input range	500hPa to 1500hPa(1hPa steps)		Interface	USB/RS-232C/Bluetooth(Factory Optional)	
Prism constant correction	-99.9mm to +99.9mm		Water and dust protection	IP66(IEC60529)	
Compensator	Dual-axis		Data transfer software	FOIF Geomatics Office(FGO)	
Range	±3'		Data collector	F58, fully rugged PDA(Optional)	
Setting accuracy	1"				

*1 Standard deviation based on ISO17123-3 *2 condition: 20km visibility, backlight illuminance less than 5000lx, no fog and direct sunlight. Reflectorless target: KODAK CAT NO.E1527795, 90% reflectivity, A4 size *3 condition: 40km visibility, clear, no heat shimmer *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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