



# 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
<b>Telescope</b>				<b>Compensator</b> Dual-axis			
Length		156mm		Range		±3'	
Image		Erect		Setting accuracy		1"	
Objective aperture		φ45mm		<b>Level vial sensitivity</b>			
Magnification		30×		Plate level vial		30"/2mm	
Field of view		1° 30'		Circular level vial		8"/2mm	
Shortest focus distance		1.0m		<b>Laser plummet(Standard)*4</b>			
<b>Angle measurement</b>				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"		<b>Optical plummet(Factory Optional)</b>	
<b>Distance measurement</b>				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		<b>Power</b>			
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		<b>Application programs</b>			
Single prism(Class 3R) 1 to 5000m		/		Data collection/Stake out/Resection/REM/MLM/Road			
Three-prism 1 to 5000m		1 to 5000m		AREA/Point to line/Z coordinate/OFFset/Arc staking out			
Accuracy				<b>Others</b>			
Prism 2mm+2ppm		2mm+2ppm		Display		LCD, 6lines X20characters(96 X160 dots)	
Reflective sheet/RP60 3mm+2ppm		/		Language		English, Spanish, Portuguese, Russia, German, French, Polish, Italian, Turkish...	
Reflectorless		/		CPU		32Bit	
R3 1-150m:3mm+2ppm		/		Memory		60000 points and 50 codes for internal memory support SD card(max.16G)	
≥150m:5mm+3ppm		/		Keyboard		Alphanumerical key board, both sides	
R5 1-200m:3mm+2ppm		/		Weight(including batteries)		5.1kg	
≥200m:5mm+3ppm		/		Dimensions(WxDxH)		175x178x340mm	
Measuring time Initial:2s		Initial:2s		Operating temperature		-20°C to +50°C	
Prism typ.1.0-1.5s		1.0-1.5s		Storage temperature		-40°C to +70°C	
Reflective sheet/RP60 typ.1.5s		/		Interface		USB/RS-232C/Bluetooth(Factory Optional)	
Reflectorless typ.1.5-5s, max. 20s		/		Water and dust protection		IP66(IEC60529)	
Display resolution(m/inch selectable)		0.2mm/1mm		Data transfer software		FOIF Geomatics Office(FGO)	
Temperature input range		-40°C to +60°C(1°C steps)		Data collector		F52G or PS236, fully rugged PDA(Optional)	
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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