

RTS330 series Total Station



- Endless drives are applied on RTS330 series, collimate target faster with two hands operation
- A trigger key mounted on the side of the instrument, user do not lose sight of the target while measuring
- Long reflectorless measuring distance reaches to 500m(R500) or 1000m(R1000)
- Multiple data interface, mini-USB, RS-232C or SD card data transfer are available
- 500m-1000m long range Bluetooth[®] cable-free connection offers solution of semi-automatic data collection(optional)
- On board software and application programs simplify and speed up work in the field



RTS330 can connect to data collector through long distance Bluetooth



RTS330 Series Total Station

Technical data

	RTS332	RTS335	RTS332	RTS335
Telescope		Level vial sensitivity		
Length/Image	156mm/Erect		Plate level vial	30" /2mm
Objective aperture	φ45mm		Circular level vial	8' /2mm
Magnification	30×		Compensator	Dual-axis compensator
Field of view	1° 30'		Working range	±3'
Shortest focus distance	1.0m		Setting accuracy	1"
Angle measurement		Laser plummet(Standard) *4		
Reading system	Absolute encoder		Accuracy	±1mm/1.5m
Angle unit	360° /400gon/6400mil, selectable		Laser class	Class 2/IEC60825-1
Display resolution	0.5" /1" /5" (or 0.1/0.2/1mgon)		Laser brightness	Adjustable
Accuracy*1	2"	5"	Laser wave length	635nm
Distance measurement(R500)		Optical plummet(Factory optional)		
Display resolution(m/inch selectable)	0.1mm/1mm		Accuracy	±0.8mm/1.5m
Laser class	Prism	Class 1	Image	Erect
	Reflectorless/Reflective sheet	Class 3R	Magnification	3×
Measurement range (Good condition) *2			Field of view	4°
Reflectorless*3	1 to 500m		Focus range	0.5m to ∞
Reflective sheet/RP60	1 to 800m		Endless drive	H&V
Single prism	1 to 3000m		Display	Large LCD (240×128dots)
Accuracy			Power	
Prism	2mm+2ppm/1mm+1.5ppm(Optional)		Battery	3400mAh Li-ion Rechargeable
Reflective sheet/RP60	3mm+2ppm		Output voltage	7.4V DC
Reflectorless	1-200m:3mm+2ppm/ ≥200:5mm+3ppm		Continuous operation time	Approx. 19 hours (single distance measurement every 30 seconds)
Measuring time	Initial:2.5s		Charger	FDJ6-Li(110V /240V)
Prism	typ.1.0-1.5s		Charging time(at +20℃)	Approx. 4 hours
Reflective sheet/RP60	typ.1.5s		Application programs	
Reflectorless	typ.1.5-5s, max. 20s		Data collection/Stake out/Resection/REM/MLM	
Distance measurement(R1000)		AREA/Point to line/Z coordinate/OFFset/3D Road		
Laser class			Others	
Prism standard mode/Prism long mode	Class1/Class 2		CPU	32Bit
Reflective sheet	Class 2		Memory	128M internal memory, SD card
Reflectorless standard mode	Class 2		Sensors	Built-in temperature and pressure sensors
Reflectorless long mode	Class 3R		Keyboard	Alphanumerical key board, both sides
Measurement range (Good condition) *2			Guide light system	Factory optional
Standard mode/Prism	1 to 3500m		Weight(including batteries)	6.0kg
Long mode /Prism	1 to 6000m		Dimensions(WxDxH)	185x220x360mm
Reflective sheet/RP60	1 to 1200m		Operating temperature	-20℃ to+50℃
Reflectorless*3	1 to 1000m		Storage temperature	-40℃ to +70℃
Accuracy/typital measuring time(max.20s)			Interface	USB/RS-232C/Bluetooth(Optional)
Prism standard mode	1mm+1.5ppm/1.0s~5.0s		Water and dust protection	IP55(IEC60529)
Prism long mode	2mm+2.5ppm/0.7s~6s		Data transfer&processing software	FOIF Geomatics Office
Reflective sheet/RP60	2mm+2ppm/1s~5s		Data collector	PS236, fully rugged PDA(Optional)
Reflectorless	1-500m: 2mm+2ppm/0.7s~6s >500m: 4mm+2ppm/3s~12s			

*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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