

RTS340 Series Colour-display Total Station



- Trigger key
- Highlighted colour display(QVGA)
- LED-backlight alphanumeric keyboard
- Onboard software and application programs simplify and speed up work in the field
- Long reflectorless measuring distance reaches to 500m(R500) or 1000m(R1000)
- Multiple data interfaces, mini-USB, RS-232C or SD card data transfer are available



RTS340 can connect to data collector through Bluetooth



RTS340 Series Colour-display Total Station

Technical data

	RTS342	RTS345		RTS342	RTS345
Telescope			Level vial sensitivity		
Length/Image	156mm/Erect		Plate level vial	30" /2mm	
Objective aperture	φ45mm		Circular level vial	8' /2mm	
Magnification/Resolution	30×/3.75"		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(Diameter detecting)		Accuracy	±1mm/1.5m	
Angle unit	360° /400gon/6400mil, selectable		Laser class	Class 2/IEC60825-1	
Display resolution	1" /5" /10" (or 0.2/1/2mgon)		Laser brightness	Adjustable	
Accuracy*1	2"		Laser wave length	635nm	
Distance measurement(R500)			H&V drive Clamps for RTS340 series		
Display resolution(m/inch selectable)	0.1mm/1mm		Display Colour QVGA screen(240×320dots)		
Laser class	Prism	Class 1	Power		
	Reflectorless/Reflective sheet	Class 3R	Battery	3400mAh Li-ion Rechargeable	
Measurement range (Good condition)*2			Output voltage	7.4V DC	
	Reflectorless*3	1 to 500m	Continuous operation time	Over 8 hours (single distance measurement every 30 seconds)	
	Reflective sheet/RP60	1 to 800m	Charger	FDJ6-Li(100V /240V)	
	Single prism	1 to 5000m	Charging time(at +20℃)	Approx. 4 hours	
Accuracy			Application programs		
	Prism	2mm+2ppm	Data collection/Stake out/Resection/REM/MLM AREA/Point to line/Z coordinate/OFFset/Road/Traverse		
	Reflective sheet/RP60	3mm+2ppm	Others		
	Reflectorless 1-200m:3mm+2ppm/≥200m:5mm+3ppm		CPU	32Bit	
Measuring time			Memory	4G internal memory(SD card extendable, hot-plug supported)	
	Prism	typ.1.0-1.5s	Sensors	Built-in temperature and pressure sensors	
	Reflective sheet/RP60	typ.1.5s	Keyboard	Alphanumerical keyboard on both sides,LED backlight	
	Reflectorless	typ.1.5-5s, max. 20s	Weight(including batteries)	7.0kg	
Distance measurement(R1000)			Operating temperature	-20℃ to +50℃	
Laser class			Storage temperature	-40℃ to +70℃	
Prism standard mode/Prism long mode	Class1/Class 2		Interface	USB/RS-232C/Bluetooth(Optional)	
Reflective sheet	Class 2		Water and dust protection	IP55(IEC60529)	
Reflectorless standard mode	Class 2		Data collector	F52G or PS236, fully rugged PDA(Optional)	
Reflectorless long mode	Class 3R				
Measurement range (Good condition)*2					
	Standard mode/Prism	1 to 3500m			
	Long mode /Prism	1 to 6000m			
	Reflective sheet/RP60	1 to 1200m			
	Reflectorless*3	1 to 1000m			
Accuracy/typital measuring time(max.20s)					
	Prism standard mode	1mm+1.5ppm/1.0s~5.0s			
	Prism long mode	2mm+2.5ppm/0.7s~6s			
	Reflective sheet/RP60	2mm+2ppm/1s~5s			
	Reflectorless	1-500m: 2mm+2ppm/0.7s~6s >500m: 4mm+2ppm/3s~12s			

Related products



RTS 360



RTS 350



RTS/OTS650



DT400/LP400

*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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