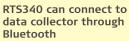


RTS340 Series Colour-display Total Station



- **Trigger key**
- Highlighted colour display(QVGA)
- LED-backlight alphanumerical 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 Series Colour-display Total Station

Technical data

	RTS342	RTS345		RTS342	RTS345	
Telescope	scope			Level vial sensitivity		
Length/Image	1!	56mm/Erect	Plate level vial	30″ /2mm		
Objective aperture	ф	45mm	Circular level vial	8′/2mm		
Magnification/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution/Resolution	on 3	0×/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 encod	er(Diameter detecting)	Accuracy	\pm 1mm/1	.5m	
Angle unit	360° /400gon/	6400mil, selectable	Laser class	Class 2/IEC6	0825-1	
Display resolution	1″/5″/10″ (o	r 0.2/1/2mgon)	Laser brightness	Adjustable		
Accuracy ^{*1}	2	2 "	Laser wave length	635nm	ı	
Distance measureme	nt(R500)		H&V drive	Clamps for RTS340 series		
Display resolution(m/in	ch selectable)	0.1mm/1mm	Display Co	olour QVGA screen(2	240×320dots)	
Laser class Prism		Class 1	Power			
Reflector	less/Reflective s	heet Class 3R	Battery	3400mAh Li-ion R	echargeable	
Measurement range(G	ood condition)* ²	2	Output voltage	7.4V D	С	
Reflectorless ^{*3} 1 to 500m			Continuous operation time Over 8 hours			
Reflective sheet/RP6) 1 to 8	800m	(single distance meas	urement every 30 s	econds)	
Single prism	1 to 5	5000m	Charger	FDJ6-Li(10)0V /240V)	
Accuracy			Charging time(at +20℃)	Approx.	4 hours	
Prism 2mm+2ppm			Application programs			
Reflective sheet/RP60 3mm+2ppm			Data collection/Stake out/Resection/REM/MLM			
Reflectorless 1-20		/≥200m:5mm+3ppm	AREA/Point to line/Z coordinate/OFFset/Road/Tranverse			
Measuring time	Initia		Others			
Prism	typ.1	.0-1.5s	CPU	32Bit		
Reflective sheet/RP60) typ.1	.5s	Memory 4G internal me	mory(SD card extendabl	e, hot-plug supported)	
Reflectorless	typ.1	.5-5s, max. 20s	Sensors Built-i	in temperature and	pressure sensors	
Distance measurement(R1000)			Keyboard Alphanumerical keyboard on both sides,LED backlight			
Laser class			Weight(including batter	ies) 7	.0kg	
Prism standard mode,	/Prism long mode	e Class1/Class 2	Operating temperature	-20 ℃	to +50℃	
Reflective sheet		Class 2	Storage temperature	-40 ℃	to +70℃	
Reflectorless standar	d mode	Class 2	Interface	USB/RS-232C/Blu	etooth(Optional)	
Reflectorless long mo	de	Class 3R	Water and dust protection	on IP55(IEC60529)	
Measurement range (G	ood condition)* ²	2	Data collector F52	2G or PS236, fully rug	ged PDA(Optional)	
Standard mode/Prism		500m				
Long mode /Prism	1 to 6	000m	📕 Related produ	ucts		
Reflective sheet/RP6) 1 to 1	L200m				
Reflectorless ^{*3}	1 to 1	L000m				
Accuracy/typital measu	ring time(max.20)s)				
Prism standard mode	lmm	+1.5ppm/1.0s~5.0s				
Prism long mode	2mm	+2.5ppm/0.7s~6s				
Reflective sheet/RP6		+2ppm/1s~5s				
Reflectorless	1-500m: 2	2mm+2ppm/0.7s~6s 4mm+2ppm/3s~12s	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 Illustrations, descriptions and technical specifications are not binding and may change



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