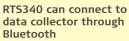


## **RTS340 Series Colour-display Total Station**



- **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	ope			Level vial sensitivity		
Length/Image	156mm/Erect		Plate level vial	30″ /2mm		
Objective aperture	ture $\Phi$ 45mm		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			
Angle measurement			Laser plummet(Standard) <sup>*4</sup>			
Reading system Absolute encoder(Diameter detecting)			Accuracy	$\pm$ 1mm/1.5m		
Angle unit	unit 360° /400gon/6400mil, selectable			Class 2/IEC60825-1		
Display resolution	1″/5″/10″ (or	0.2/1/2mgon)	Laser brightness	Adjustable		
Accuracy <sup>*1</sup> 2"			Laser wave length	635nm		
Distance measureme	nt(R500)		H&V drive	Clamps for RTS340 series		
Display resolution(m/in	ch selectable)	0.1mm/1mm	<b>Display</b> Co	olour QVGA screen(240×320dots)		
Laser class Prism		Class 1	Power			
Reflector	less/Reflective sh	eet Class 3R	Battery	3400mAh Li-ion R	echargeable	
Measurement range(Good condition) <sup>*2</sup>			Output voltage	7.4V D	С	
Reflectorless <sup>*3</sup> 1 to 500m			Continuous operation time Over 8 hours			
Reflective sheet/RP60 1 to 800m			(single distance measurement every 30 seconds)			
Single prism	1 to 5	000m	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 1-200m:3mm+2ppm/≥200m:5mm+3ppm			AREA/Point to line/Z coordinate/OFFset/Road/Tranverse			
Measuring time	Initial		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	n temperature and	pressure sensors	
Distance measureme	nt(R1000)		Keyboard Alphanumerical keyboard on both sides,LED backlight			
Laser class			Weight(including batteries) 7.0kg			
Prism standard mode,	/Prism long mode	Class1/Class 2	Operating temperature	<b>-20</b> ℃	to +50℃	
Reflective sheet		Class 2	Storage temperature	<b>-40</b> ℃	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		Data collector F52	G or PS236, fully rug	ged PDA(Optional)	
Standard mode/Prism		500m		_		
Long mode /Prism	1 to 60	)00m	📕 📕 Related produ	ucts		
Reflective sheet/RP6	) 1 to 1	200m				
Reflectorless <sup>*3</sup> 1 to 1000m						
Accuracy/typital measu	ring time(max.20	s)				
Prism standard mode 1mm+1.5ppm/1.0s~5.0s						
Prism long mode		2.5ppm/0.7s~6s				
Reflective sheet/RP6		2ppm/1s~5s				
Reflectorless	1-500m: 2	mm+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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