



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 can connect to
data collector through
Bluetooth



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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	
Reflective sheet/RP60		1 to 800m		(single distance measurement every 30 seconds)			
Single prism		1 to 5000m		Charger		FDJ6-Li(100V /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				Others			
Prism		typ.1.0-1.5s		CPU		32Bit	
Reflective sheet/RP60		typ.1.5s		Memory		4G internal memory(SD card extendable, hot-plug supported)	
Reflectorless		typ.1.5-5s, max. 20s		Sensors		Built-in temperature and pressure sensors	
Distance measurement(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		-20℃ to +50℃	
Reflective sheet		Class 2		Storage temperature		-40℃ to +70℃	
Reflectorless standard mode		Class 2		Interface		USB/RS-232C/Bluetooth(Optional)	
Reflectorless long mode		Class 3R		Water and dust protection		IP55(IEC60529)	
Measurement range (Good condition)*2				Data collector		F52G or PS236, fully rugged PDA(Optional)	
Standard mode/Prism		1 to 3500m		<div>■ Related products</div> <div></div> <div>RTS 360 RTS 350 RTS/OTS650 DT400/LP400</div>			
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					

*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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