

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 600m(R600) or 1000m(R1000)
- Multiple data interfaces, mini-USB, RS-232C or SD card data transfer are available



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Technical data

	RTS342	RTS345		RTS342	RTS345
Telescope			Accuracy	±1mm/1.5m	
Length/Image	156mm/Erect		Laser class	Class 2/IEC60825-1	
Objective aperture	φ45mm		Laser brightness	Adjustable	
Magnification/Resolution	30×/3.75"		Laser wave length	635nm	
Field of view	1° 30'		H&V drive	Clamps for RTS340 series	
Shortest focus distance	1.0m		Display	Colour QVGA screen(240×320dots)	
Angle measurement			Power		
Reading system	Absolute encoder(Diameter detecting)		Battery	3400mAh Li-ion Rechargeable	
Angle unit	360° /400gon/6400mil, selectable		Output voltage	7.4V DC	
Display resolution	1" /5" /10" (or 0.2/1/2mgon)		Continuous operation time	Over 8 hours (single distance measurement every 30 seconds)	
Accuracy*1	2"	5"	Charger	FDJ6-Li(100V /240V)	
Distance measurement(R600)			Charging time(at +20℃)	Approx. 4 hours	
Laser Class(IEC60825-1)			Application programs		
Reflectorless	Class 3A(3R)		Data collection/Stake out/Resection/REM/MLM		
Reflective sheet/RP60	Class 3A(3R)		AREA/Point to line/Z coordinate/OFFset/Road/Tranverse		
Prism	Class 1		Others		
Measurement range			CPU	32Bit	
Reflectorless*2			Memory	4GB internal memory(SD card extendable, hot-plug supported)	
R600	2.0 to 600m		Sensors	Built-in temperature and pressure sensors	
R1000	2.0 to 1000m		Keyboard	Alphanumerical keyboard on both sides,LED backlight	
Single prism*3	2.0 to 3000m		Weight(including batteries)	7.0kg	
Accuracy			Operating temperature	-20℃ to +50℃	
Prism	2mm+2ppm		Storage temperature	-40℃ to +70℃	
Reflective sheet/RP60	3mm+2ppm		Interface	USB/RS-232C/Bluetooth(Optional)	
Reflectorless			Water and dust protection	IP55(IEC60529)	
R600	2.0-150m:3mm+2ppm;150-300m:5mm+3ppm		Data collector	F58, fully rugged PDA(Optional)	
	300-500m:10mm+5ppm				
R1000	2.0-150m:3mm+2ppm;150-300m:5mm+3ppm				
	300-500m:10mm+5ppm;500-800m:20mm+10ppm				
Measuring time(prism)					
Fine	1.0s(initial 2.0s)				
Fast	0.6s(initial 1.5s)				
Tracking	0.4s(initial 1.2s)				
Level vial sensitivity					
Plate level vial	30" /2mm				
Circular level vial	8' /2mm				
Compensator	Dual-axis compensator				
Working range	±3'				
Setting accuracy	1"				
Laser plummet(Standard)					

Related products



RTS360

OTS680

RTS350

DT400/LP400

*1 Standard deviation based on ISO17123-3
CAT NO.E1527795, 90% reflectivity, A4 size

*2 condition: 20km visibility, backlight illuminance less than 5000lx, no fog and direct sunlight. Reflectorless target: KODAK
*3 condition: 40km visibility, clear, no heat shimmer *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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