

RTS350 Series Windows CE Total Station



- Compact design with Windows CE 7.0 operating system
- 3.5" colour TFT LCD (320 x 240 dots) touch screen, transfective sunlight readable display
- Professional onboard software: FOIF Fieldgenius, FOIF Survey or Carlson SurvCE
- Long reflectorless measuring distance reaches to 600m(R600) or 1000m(R1000)
- Illuminated keyboard with light sensor, turn on in dark surroundings automatically
- Multiple data interfaces, USB host, USB slave, RS-232C or Bluetooth connections are available
- Smart battery managing system, display battery life in real-time
- Guide light system for fast stake out measurement



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Technical data

RTS351			RTS352			RTS355			RTS351			RTS352			RTS355																							
Telescope									Level vial sensitivity																													
Length/Image									Plate level vial									30" /2mm																				
Objective aperture									Circular level vial									8' /2mm																				
Magnification									Compensator									Dual axis compensator																				
Field of view									Working range									±3'																				
Shortest focus distance									Setting accuracy									1"																				
Angle measurement									Laser plummet(Standard)									*4																				
Reading system									Accuracy									±1.0mm/1.5m																				
Angle unit									Laser class									Class 2/IEC60825-1																				
Display resolution									Laser brightness									Adjustable																				
Accuracy *1									Laser wave length									635nm																				
Distance measurement(R600)									Optical plummet (Factory optional)																													
Display resolution(m/inch selectable)									Accuracy									±0.8mm/1.5m																				
Laser class Prism									Image									Erect																				
Reflectorless/Reflective sheet									Magnification									3x																				
Measurement range (Good condition) *2									Field of view									4°																				
Reflectorless *3									Focus range									0.5m to ∞																				
Reflective sheet/RP60									Display									3.5" colour TFT LCD (320 x 240 dots) touch screen																				
Single prism									transflective sunlight readable display																													
Accuracy									Power																													
Prism									Battery									3400mAh Li-ion Rechargeable																				
Reflective sheet/RP60									Output voltage									7.4V DC																				
Reflectorless									Continuous operation time									8 hrs in distance & 20 hrs in angle measurement mode																				
									Charger									FDJ6-LI(100V /240V)																				
Measuring time									Initial:2s									Charging time(at +20°C)			Approx. 4 hours																	
Prism									typ.1.0-1.5s									Application programs																				
Reflective sheet/RP60									typ.1.5s									Data collection/Stake out/Resection/REM/MLM/Point to line																				
Reflectorless									typ.1.5-5s, max. 20s									AREA/Z coordinate/OFFset/3D Road/Traverse adjustment																				
Distance measurement(R1000)									Tape measurement/section/Axis positioning measurement																													
Laser class *5									Prism standard mode/Prism long mode									Class1/Class 2																				
Reflective sheet									Class 2									Others																				
Reflectorless standard mode									Class 2									CPU									ARM Cortex A8											
Reflectorless long mode									Class 3R									Memory									4GB internal memory											
Measurement range (Good condition) *2									Sensors									Built-in temperature and pressure sensors																				
Single prism									1 to 5000m									Keyboard									Alphanumerical illuminated key board, both sides											
Reflective sheet/RP60									1 to 800m									Guide Light System									Factory optional											
Reflectorless *3									1 to 1000m									Weight(including batteries)									5.5kg											
Accuracy									Prism									2mm+2ppm									Dimensions(WxDxH)									185x220x360mm		
Prism									2mm+2ppm									Operating temperature									-20°C to +50°C											
Reflective sheet/RP60									3mm+2ppm									Storage temperature									-40°C to +70°C											
Reflectorless									1-150m: 3mm+2ppm ;150-300m: 5mm+3ppm									Interface									USB host/USB slave/RS-232C/Bluetooth(Optional)											
									300-500m: 10mm+5ppm ;>500m: 20mm+10ppm									Water and dust protection									IP66(IEC60529)											
																		Data transfer&processing software									FOIF Geomatics Office(FGO)											
																		Data collector									F58, fully rugged PDA(Optional)											

*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

*5 Laser safety certificate IEC 60825-1/ EN60825-1 compliant

Illustrations, descriptions and technical specifications are not binding and may change

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