

RTS330/RTS330S series Total Station



- Endless drives are applied on RTS330 series, collimate target faster with two hands operation
- A trigger key mounted on the side of the instrument, user do not lose sight of the target while measuring
- Long reflectorless measuring distance reaches to 500m(R500) or 1000m(R1000)
- Multiple data interface, mini-USB, RS-232C or SD card data transfer are available
- 500m-1000m long range Bluetooth cable-free connection offers solution of semi-automatic data collection(optional)
- On board software and application programs simplify and speed up work in the field
- Guide light system for fast stake out measurement



RTS330 can connect to data collector through Bluetooth



RTS330/RTS330S Series Total Station

Technical data

| | RTS332 RTS332S | RTS335 RTS335S | | RTS332 RTS332S | RTS335 RTS335S |
|--|--|-------------------|---|--|-------------------|
| Telescope | | | Level vial sensitivity | | |
| Length/Image | 156mm/Erect | | Plate level vial | 30" /2mm | |
| Objective aperture | φ45mm | | Circular level vial | 8' /2mm | |
| Magnification | 30× | | 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 | | 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" | 5" | Laser wave length | 635nm | |
| Distance measurement(R500) | | | Optical plummet(Factory optional) | | |
| Display resolution(m/inch selectable) | 0.1mm/1mm | | Accuracy | ±0.8mm/1.5m | |
| Laser class | Prism | Class 1 | Image | Erect | |
| | Reflectorless/Reflective sheet | Class 3R | Magnification | 3× | |
| Measurement range (Good condition) *2 | | | Field of view | 4° | |
| Reflectorless*3 | 1 to 500m | | Focus range | 0.5m to ∞ | |
| Reflective sheet/RP60 | 1 to 800m | | H&V drive Endless drives for RTS330 series | | |
| Single prism | 1 to 3000m | | Clamps for RTS330S series | | |
| Accuracy | | | Display Large LCD (240×128dots) | | |
| Prism | 2mm+2ppm | | Power | | |
| Reflective sheet/RP60 | 3mm+2ppm | | Battery | 3400mAh Li-ion Rechargeable | |
| Reflectorless | 1-200m:3mm+2ppm/ ≥200:5mm+3ppm | | Output voltage | 7.4V DC | |
| Measuring time | Initial:2.5s | | Continuous operation time | Approx. 19 hours (single distance measurement every 30 seconds) | |
| Prism | typ.1.0-1.5s | | Charger | FDJ6-Li(110V /240V) | |
| Reflective sheet/RP60 | typ.1.5s | | Charging time(at +20℃) | Approx. 4 hours | |
| Reflectorless | typ.1.5-5s, max. 20s | | Application programs | | |
| Distance measurement(R1000) | | | Data collection/Stake out/Resection/REM/MLM | | |
| Laser class | | | AREA/Point to line/Z coordinate/OFFset/Road/Tranverse | | |
| Prism standard mode/Prism long mode | Class1/Class 2 | | Others | | |
| Reflective sheet | Class 2 | | CPU | 32Bit | |
| Reflectorless standard mode | Class 2 | | Memory | 128M internal memory, SD card | |
| Reflectorless long mode | Class 3R | | Sensors | Built-in temperature and pressure sensors | |
| Measurement range (Good condition) *2 | | | Keyboard | Alphanumerical key board, both sides | |
| Standard mode/Prism | 1 to 3500m | | Guide light system | Factory optional | |
| Long mode /Prism | 1 to 6000m | | Weight(including batteries) | 6.0kg | |
| Reflective sheet/RP60 | 1 to 1200m | | Dimensions(WxDxH) | 185x220x360mm | |
| Reflectorless*3 | 1 to 1000m | | Operating temperature | -20℃ to+50℃ | |
| Accuracy/typital measuring time(max.20s) | | | Storage temperature | -40℃ to +70℃ | |
| Prism standard mode | 1mm+1.5ppm/1.0s~5.0s | | Interface | USB/RS-232C/Bluetooth(Optional) | |
| Prism long mode | 2mm+2.5ppm/0.7s~6s | | Water and dust protection | IP55(IEC60529) | |
| Reflective sheet/RP60 | 2mm+2ppm/1s~5s | | Data transfer&processing software | FOIF Geomatics Office | |
| Reflectorless | 1-500m: 2mm+2ppm/0.7s~6s >500m: 4mm+2ppm/3s~12s | | Data collector | PS236, 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

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

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