

## RTS/OTS680 series Total Station



- Bluetooth cable-free connection(Optional)
- Arctic option for a wide range of applications
- 3D road design and stake out
- Could be worked with data collector, FOIF FieldGenius or the third part software are available
- Alphanumerical keyboard
- Password function for security



TS680 can work together with data collector by bluetooth or RS-232C



# RTS/OTS680 Series Total Station

## ■ Technical data

|                                       | OTS680                               | RTS680         |                                                | OTS680                                    | RTS680 |
|---------------------------------------|--------------------------------------|----------------|------------------------------------------------|-------------------------------------------|--------|
| Telescope                             |                                      |                | Optical plummet                                |                                           |        |
| Length                                | 156mm                                |                | Accuracy                                       | ±0.8mm/1.5m                               |        |
| Image                                 | Erect                                |                | Image                                          | Erect                                     |        |
| Objective aperture                    | φ45mm                                |                | Magnification                                  | 3×                                        |        |
| Magnification                         | 30×                                  |                | Field of view                                  | 4°                                        |        |
| Field of view                         | 1° 30'                               |                | Focus range                                    | 0.5m to ∞                                 |        |
| Shortest focus distance               | 1.7m                                 | 1.0m           | Laser plummet (Factory optional)               |                                           |        |
| Angle measurement                     |                                      |                | Accuracy                                       | ±0.8mm/1.5m                               |        |
| Reading system                        | Absolute encoder                     |                | Laser class                                    | Class 2/IEC60825-1                        |        |
| Angle unit                            | 360° /400gon/6400mil, selectable     |                | Laser spot size/brightness                     | Adjustable                                |        |
| Display resolution                    | 1" /5" /10" (or 0.2mgon/1mgon/2mgon) |                | Laser wave length                              | 635nm                                     |        |
| Accuracy *2                           | 2" / 5"                              |                | Focus range                                    | 0.5m to ∞                                 |        |
| Distance measurement                  |                                      |                | Display                                        |                                           |        |
| Laser class                           |                                      |                | Large LCD (240×128dots)                        |                                           |        |
| Reflectorless                         | Class 3R (IEC60825-1)                | /              | Power                                          |                                           |        |
| Prism                                 | Class 1 (IEC60825-1)                 | /              | Battery                                        | 3400mAh Li-on Rechargeable                |        |
| Measurement range (Good condition *1) |                                      |                | Output voltage                                 | 7.4V DC                                   |        |
| Reflectorless                         | 1 to 200m                            | /              | Continuous operation time                      | 9 hours (At +20°C)                        |        |
| Reflective sheet/RP30                 | 1 to 700m                            | /              | Chargers                                       | FDQ10(110V /220V)                         |        |
| Single prism                          | 1 to 5000m                           | 1 to 2000m     | Charging time(at +20°C)                        | Approx 4 hours                            |        |
| Three prisms                          | /                                    | 1 to 2500m     | Application programs                           |                                           |        |
| Accuracy                              |                                      |                | Data collection/Stake out/Resection/REM/MLM    |                                           |        |
| Prism                                 | 2mm+2ppm                             | 2mm+2ppm       | AREA/Point to line/Z coordinate/OFFset/3D Road |                                           |        |
| Reflectorless                         | 3mm+2ppm                             | /              | Others                                         |                                           |        |
| Measuring time                        |                                      |                | CPU                                            | 32Bit                                     |        |
| Fine/Rapid/Tracking                   | 1.5s/0.9s/0.5s                       | 1.7s/0.9s/0.7s | Memory                                         | 16M internal memory, SD card              |        |
| Initial                               | 2.5s                                 | 3s             | Sensors                                        | Built-in temperature and pressure sensors |        |
| Display resolution(m/inch selectable) |                                      |                | Keyboard                                       | Alphanumerical key board, both sides      |        |
| Fine mode                             | 0.1mm/1mm                            |                | Weight(include batteries)                      | 5.5kg                                     |        |
| Temperature input range               | -40°C to+60°C(1°C steps)             |                | Dimensions(WxDxH)                              | 185x220x360mm                             |        |
| Pressure input range                  | 500hPa to 1500hPa( 1hPa steps)       |                | Operating temperature                          | -20°C to+50°C(Standar)                    |        |
| Prism constant correction             | -99.9mm to +99.9mm                   |                |                                                | -35°C to+50°C or -20°C to +60°C(Optional) |        |
| Compensator                           |                                      |                | Storage temperature                            | -40°C to +70°C                            |        |
| Range                                 | ±3'                                  |                | Interface                                      | USB/RS-232C/Bluetooth(Optional)           |        |
| Level vial sensitivity                |                                      |                | Water and dust protection                      | IP55(IEC60529)                            |        |
| Plate level vial                      | 30" /2mm                             |                | Data transfer software                         | FOIF Geomatics Office                     |        |
| Circular level vial                   | 8' /2mm                              |                | Processing software                            | FOIF Geomatics CAD                        |        |
|                                       |                                      |                | Data collector                                 | PS535, fully rugged PDA                   |        |

\*1 Good condition: no haze, visibility about 30km

\*2 standard deviation based on ISO17123-3

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

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Suzhou FOIF Co., Ltd.

TEL: +86 512 65224904  
FAX: +86 512 65230619  
Http://www.foif.com.cn  
E-mail: internationalsales@foif.com.cn  
ADD: 4 Kong Fu Si Lane, Suzhou 215006, P.R. China



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