RTS/OTS680 series
Total Station

- Long reflectorless measuring distance 500m(R500)/1000m(R1000)
- High precision measurement, prism: 2mm+2ppm(R500)/1mm+1.5ppm(R1000)
- Record or transfer data to external SD card directly
- Bluetooth Ò cable-free connection(Factory optional)
- Can be operated with a data collector, FOIF FieldGenius, or other third party software is available
- License protection for security
- Built-in temperature and pressure sensors

TS680 can connect to data collector through Bluetooth or RS-232C

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RTS/OTS680 Series Total Station

Technical data

	OTS680	RTS680
Telescope		
Length/Image	156mm/Erect	
Objective aperture	ϕ45mm	
Magnification/Field of view	30x/1° 30′	
Shortest focus distance	1.0m	
Angle measurement		
Reading system	Absolute encoder	
Angle unit	360° /400gon/6400mil, selectable	
Display resolution	0.5″ /1″ /5″ (or 0.1/0.2/1mgon)	
Accuracy*1	2″ / 5″	
Distance measurement(R500)		
Display resolution(m/inch selectable)	0.1mm/1mm	
Laser class Prism	Class 1	
Reflectorless/Reflective sheet	Class 3R	/
Measurement range (Good condition)*2		
Reflectorless*3	1 to 500m	/
Reflective sheet/RP60	1 to 800m	/
Single prism	1 to 3000m(Class 1)/1 to 5000(Class 3R)	
Accuracy		
Prism	2mm+2ppm/1mm+1.5ppm(Optional)	
Reflective sheet/RP60	3mm+2ppm	/
Reflectorless 1-200m:3mm+2ppm/≥200:5mm+3ppm		/
Measuring time	Initial:2.5s	
Prism	typ.1.0-1.5s	
Reflective sheet/RP60	typ.1.5s	/
Reflectorless	typ.1.5-5s, max. 20s	/
Distance measurement(R1000, only OTS series)		
Laser class		
Prism standard mode/Prism long mode	Class1/Class 2	
Reflective sheet	Class 2	
Reflectorless standard mode	Class 2	
Reflectorless long mode	Class 3R	
Measurement range (Good condition)*2		
Standard mode/Prism	1 to 3500m	
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	

	OTS680	RTS680
Level vial sensitivity		
Plate level vial	30″ /2mm	
Circular level vial	8′ /2mm	
Compensator		
System	Electronic 2 axis compensator	
Working range	±3′	
Setting accuracy	1″	
Laser plummet(Standard)*4		
Accuracy	±1mm/1.5m	
Laser class	Class 2/IEC60825-1	
Laser brightness	Adjustable	
Laser wave length	635nm	
Optical plummet(Factory optional)		
Accuracy	±0.8mm/1.5m	
Image	Erect	
Magnification	3×	
Field of view	4°	
Focus range	0.5m to ∞	
Display	Large LCD (240×128dots)	
Power		
Battery	3400mAh Li-ion Rechargeable	
Output voltage	7.4V DC	
Continuous operation time (single distance measurement every 30 seconds)	Approx.19 hours	
Charger	FDJ6-Li(110V /240V)	
Charging time(at +20℃)	Approx. 4 hours	
Application programs		
Data collection/Stake out/Resection/REM/MLM		
AREA/Point to line/Z coordinate/OFFset/3D Road		
Others		
CPU	32Bit	
Memory	128M internal memory, SD card	
Sensors	Built-in temperature and pressure sensors	
Keyboard	Alphanumerical key board, both sides	
Weight(including batteries)	5.5kg	
Dimensions(WxDxH)	185x220x360mm	
Operating temperature	-20℃ to+50℃	
Storage temperature	-40℃ to +70℃	
Interface	USB/RS-232C/Bluetooth(Optional)	
Water and dust protection	IP55(IEC60529)	
Data transfer&processing software	FOIF Geomatics Office	
Data collector	PS236, fully rugged PDA(Optional)	
Language	Supports English, Simplified and Traditional Chinese, Spanish, France, Portuguese, etc	

*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

FOIF It's professional Since 1958

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