



OTS680 Series Total Station



- Long reflectorless measuring distance: 600m(R600)/1000m(R1000)
- High precision measurement, prism: 2mm+2ppm
- Record or transfer data to external SD card directly
- Bluetooth 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



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Technical data

	OTS682	OTS685		OTS682	OTS685
Telescope			Laser brightness	Adjustable	
Image	Erect		Laser wave length	635nm	
Objective aperture	φ45mm		Display	Large LCD(240×128dots)	
Magnification	30x		Power		
Field of view	1°30'		Battery	3400mAh Li-ion Rechargeable	
Shortest focus distance	1.0m		Output voltage	7.4V DC	
Angle measurement			Continuous operation time	Approx.19 hours (single distance measurement every 30 seconds)	
Reading system	Absolute encoder		Charger	FDJ6-LI(100V /240V)	
Angle unit	360°/400gon/6400mil, selectable		Charging time(at +20°C)	Approx.4 hours	
Accuracy*1	2"	5"	Application programs		
Distance measurement			Data collection/Stake out/Resection/REM/MLM/ AREA/Z coordinate/OFFset,etc.		
Laser class(IEC60825-1)			Others		
Reflectorless	Class 3A(3R)		CPU	32Bit	
Reflective sheet/RP60	Class 3A(3R)		Memory	4GB internal memory, SD card extendable(max.16G)	
Prism	Class 1		Sensors	Built-in temperature and pressure sensors	
Measurement range			Keyboard	Alphanumerical key board, both sides	
Reflectorless*2			Weight(including batteries)	5.5kg	
R600	2.0 to 600m		Dimensions(WxDxH)	185x220x360mm	
R1000	2.0 to 1000m		Operating temperature	-20°C to +50°C	
Single prism(standard mode)*3	2.0 to 3000m		Storage temperature	-40°C to +70°C	
Accuracy			Interface	USB/RS-232C/Bluetooth(Optional)	
Prism	2mm+2ppm		Water and dust protection	IP55(IEC60529)	
Reflective sheet/RP60	3mm+2ppm		Data transfer&processing software	FOIF Geomatics Office(FGO)	
Reflectorless					
R600	2.0-150m:3mm+2ppm;150-300m:5mm+3ppm 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					
System	Electronic 2-axis compensator				
Working range	±3'				
Laser plummet(Standard)*4					
Accuracy	±1mm/1.5m				
Laser class	Class 2/IEC60825-1				

Related products



RTS010A



RTS360



RTS340



RTS100

*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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