

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 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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■ Technical data

	OTS680	RTS680			OTS680	RTS680	
Telescope			Level vial sensitivity				
ength/Image 156mm/Erect		Plate level vial 30" /2mm					
Objective aperture ϕ 45mm		Circular level	ar level vial 8′/2mm				
Magnification/Field of view 30x/1° 30′			Compensator				
Shortest focus distance 1.0m			System Electronic 2 axis compensator				
Angle measurement			Working rang	e	±3′		
Reading system Absolute encoder			Setting accuracy 1"				
Angle unit 360° /400gon/6400mil, selectable			Laser plummet(Standard)*4				
Display resolution 0.5" /1" /5" (or 0.1/0.2/1mgon)			Accuracy ± 1 mm/1.5m				
Accuracy*1 2" / 5"			Laser class		Class 2/IEC60825-1		
Distance measurement(R500)			Laser brightn	ess	Adjustable		
Display resolution(m/inch selectable) 0.1mm/1mm			Laser wave length 635nm				
Laser class Prism	Optical plummet(Factory optional)						
Reflectorless/Reflective sheet Class 3R /			Accuracy ±0.8mm/1.5m				
Measurement range (Good condition)*2			Image		Erect		
Reflectorless*3 1 to 500m /			Magnification	า	3 ×		
Reflective sheet/RP60 1 t			Field of view		4°		
			Focus range		0.5m to ∞		
Accuracy			Display	Lai	Large LCD (240×128dots)		
Prism 2mm+2ppm/1mm+1.5ppm(Optional)			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				
Prism typ.1.0-1.5s			(single distance measurement every 30 seconds)				
Reflective sheet/RP60	typ.1.5s	/	Charger		FDJ6-Li(110V /2	40V)	
Reflectorless typ.1.5	5-5s, max. 20s	/	Charging tim	e(at +20℃)	Approx. 4		
Distance measurement(R10	Application programs						
Laser class	Data collection/Stake out/Resection/REM/MLM						
Prism standard mode/Prism lo	AREA/Point to line/Z coordinate/OFFset/3D Road						
Reflective sheet		ass 2	Others				
Reflectorless standard mode	CI	ass 2	CPU		32Bit		
Reflectorless long mode Class 3R			Memory 128M internal memory, SD card				
Measurement range (Good condition)*2			Sensors Built-in temperature and pressure sensors				
Standard mode/Prism 1 to 3500m			Keyboard	Alph	nanumerical key boa	rd, both sides	
Long mode /Prism	1 to 6000m		Weight(inclu	ding batteries)	5.5kg		
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+2.5pj	om/0.7s~6s	Water and du	st protection	IP55	(IEC60529)	
Reflective sheet/RP60	2mm+2ppn			· ·&processing so	ftware FOIF Geo	matics Office	
Reflectorless 1-500m: 2mm+2ppm/0			Data collector PS236, fully rugged PDA(Optional				
	500m: 4mm+2p		Language		h, Simplified and T sh, France, Portug		

^{*1} Standard deviation based on ISO17123-3

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



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Local Dealer:

^{*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