

RTS/OTS650 series Total Station



■ Power long reflectorless measuring distance 300m(R300)/500m(R500)

■ Bluetooth[®] cable-free connection(Factory optional)

■ 128M internal memory, 120000 points and 40 Jobs can be saved

■ Can be operated with a data collector, FOIF FieldGenius, or other third party software is available

■ IP66 environmental protection

■ Alphanumeric keyboard



TS650 can connect to data collector through Bluetooth or RS-232C



RTS/OTS650 Basic Total Station

TS650 2013.06

■ Technical data

	OTS650	RTS650		OTS650	RTS650
Telescope			Compensator Electronic single axis		
Length	156mm		Axis	Single(Standard)/Dual(Factory optional)	
Image	Erect		Range/Setting accuracy	±3' /1"	
Objective aperture	φ45mm		Level vial sensitivity		
Magnification/Field of view	30×/1° 30'		Plate level vial	30" /2mm	
Shortest focus distance	1.0m		Circular level vial	8' /2mm	
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 0.2mgon/1mgon/2mgon)		Brightness	Adjustable	
Accuracy*1	2" /5"		Laser wave length	635nm	
Distance measurement			Optical plummet(Factory optional)		
Laser class(IEC60825-1)			Accuracy	±0.8mm/1.5m	
Reflectorless	Class 3R	/	Image	Erect	
Reflective sheet/RP60	Class 3R	/	Magnification/Field of view	3x/4°	
Prism	Class 1	Class 1	Focus range	0.5m to ∞	
Measurement range (Good condition)*2			Power		
Reflectorless*3			Battery	3400mAh Li-ion Rechargeable	
R300	1 to 300m	/	Output voltage	7.4V DC	
R500	1 to 500m	/	Continuous operation time	Approx. 26 hours(At +20°C) (single distance measurement every 30 seconds)	
Reflective sheet/RP60	1 to 800m	/	Charger	FDJ6-Li (110V /240V)	
Single prism(Class 1)	1 to 3000m	1 to 3000m	Charging time(at +20°C)	Approx. 4 hours	
Single prism(Class 3R)	1 to 5000m	/	Application programs		
Accuracy			Data collection/Stake out/Resection/REM/MLM		
Prism	2mm+2ppm	2mm+2ppm	AREA/Point to line/Z coordinate/OFFset		
Reflective sheet/RP60	3mm+2ppm	/	Others		
Reflectorless			Display	LCD, 4lines X16characters(64 X128 dots)	
R300	1-150m:3mm+2ppm	/	CPU	32Bit	
	≥150:5mm+3ppm	/	Memory	128M, 120000 points, support SD card(Optional)	
R500	1-200m:3mm+2ppm	/	Keyboard	Alphanumerical key board, both sides	
	≥200:5mm+3ppm	/	Weight(including batteries)	5.1kg	
Measuring time	Initial:2.5s	Initial:2.5s	Dimensions(WxDxH)	175x178x340mm	
Prism	typ.1.0-1.5s	1.0-1.5s	Operating temperature	-20°C to+50°C	
Reflective sheet/RP60	typ.1.5s	/	Storage temperature	-40°C to +70°C	
Reflectorless	typ.1.5-5s, max. 20s	/	Interface	USB/RS-232C/Bluetooth(Factory Optional)	
Display resolution(m/inch selectable)	0.2mm/1mm		Water and dust protection	IP66(IEC60529)	
Temperature input range	-40°C to+60°C(1°C steps)		Data transfer&processing software	FOIF Geomatics Office	
Pressure input range	500hPa to 1500hPa(1hPa steps)		Data collector	PS236, fully rugged PDA(Optional)	
Prism constant correction	-99.9mm to +99.9mm				

*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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