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

■ Technical data

	OTS650	RTS650
Telescope		
Length	156mm	
Image	Erect	
Objective aperture	φ45mm	
Magnification/Field of view	30×/1°30′	
Shortest focus distance	1.0m	
Angle measurement		
Reading system	Absolute encoder	
Angle unit	360°/400gon/6400mil, selectable	
Display resolution	1″/5″/10″ (or 0.2mgon/1mgon/2mgon)	
Accuracy *1	2″/5″	
Distance measurement		
Laser class(IEC60825-1)		
Reflectorless	Class 3R	/
Reflective sheet/RP60	Class 3R	/
Prism	Class 1	Class 1
Measurement range (Good condition)*2		
Reflectorless*3		
R300	1 to 300m	/
R500	1 to 500m	/
Reflective sheet/RP60	1 to 800m	/
Single prism(Class 1)	1 to 3000m	1 to 3000m
Single prism(Classs 3R)	1 to 5000m	/
Accuracy		
Prism	2mm+2ppm	2mm+2ppm
Reflective sheet/RP60	3mm+2ppm	/
Reflectorless		/
R300 1-150m:3mm+2ppm		/
≥150:5mm+3ppm		/
R500 1-200m:3mm+2ppm		/
≥200:5mm+3ppm		/
Measuring time	Initial:2.5s	Initial:2.5s
Prism	typ.1.0-1.5s	1.0-1.5s
Reflective sheet/RP60	typ.1.5s	/
Reflectorless	typ.1.5-5s, max. 20s	/
Display resolution(m/inch selectable)	0.2mm/1mm	
Temperature input range	-40℃ to+60℃(1℃ steps)	
Pressure input range	500hPa to 1500hPa(1hPa steps)	
Prism constant correction	-99.9mm to +99.9mm	

	OTS650	RTS650
Compensator	Electronic single axis	
Axis	Single(Standard)/Dual(Factory optional)	
Range/Setting accuracy	±3′ /1″	
Level vial sensitivity		
Plate level vial	30″ /2mm	
Circular level vial	8′ /2mm	
Laser plummet(Standard)*4		
Accuracy	±1mm/1.5m	
Laser class	Class 2/IEC60825-1	
Brightness	Adjustable	
Laser wave length	635nm	
Optical plummet(Factory optional)		
Accuracy	±0.8mm/1.5m	
Image	Erect	
Magnification/Field of view	3x/4°	
Focus range	0.5m to ∞	
Power		
Battery	3400mAh Li-ion Rechargeable	
Output voltage	7.4V DC	
Continuous operation time (single distance measurement every 30 seconds)	Approx. 26 hours(At +20℃)	
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		
Others		
Display	LCD, 4lines X16characters(64 X128 dots)	
CPU	32Bit	
Memory	128M, 120000 points, support SD card(Optional)	
Keyboard	Alphanumerical key board, both sides	
Weight(including batteries)	5.1kg	
Dimensions(WxDxH)	175x178x340mm	
Operating temperature	-20℃ to+50℃	
Storage temperature	-40℃ to +70℃	
Interface	USB/RS-232C/Bluetooth(Factory Optional)	
Water and dust protection	IP66(IEC60529)	
Data transfer&processing software	FOIF Geomatics Office	
Data collector	PS236, fully rugged PDA(Optional)	

*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
Since 1958
It's professional

Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904
FAX:+86 512 65230619
Http://www.foif.com.cn
E-mail:internationalsales@foif.com.cn
ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China

TÜV   CE

ISO-9001
DNV
CERTIFIED FIRM
Certificate No.QSC-5112

Local Dealer: