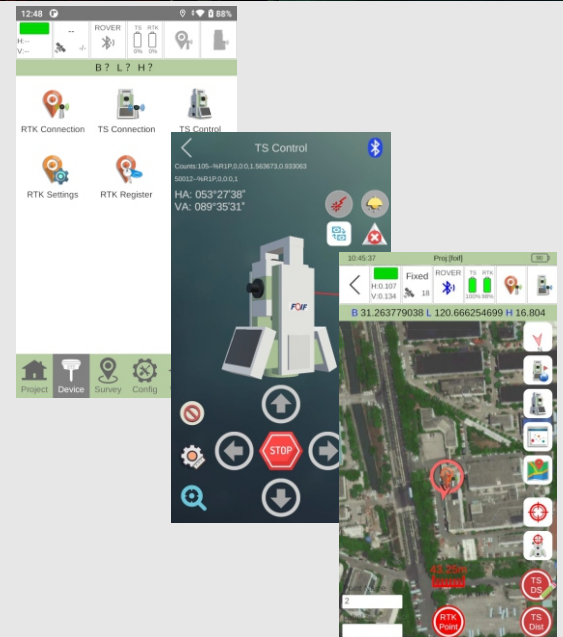




RTS005A/010A Robotic Total Station



- Angle measurement accuracy: $0.5''/1''$, distance measurement accuracy(Prism): $\pm (1+1 \times 10^{-6}D)\text{mm}$
- 1000m long range reflectorless distance measurement
- Vertical shafting: dense ball bearing and four detectors design; Horizontal shafting: unitary and four detectors design
- Adopts up-to-date automatic target recognition and positioning technology
- Supports SDK and external control protocol for software developing
- Supports one man survey with FOIF Inspire android app, and bluetooth can stably communicate above 200 meters away
- Also applied for high precision surveying areas, such as rail traffic monitoring, dam monitoring



RTS005A/010A Robotic Total Station

Technical data

RTS005A		RTS010A	RTS010A	
Telescope			Compensator	
Resolution/Image		3" / Erect	Working range ≥±3'	
Objective aperture		Ø45,EDMØ50	Compensating method Dual-axis	
Magnification		30x	Laser plummet	
Field of view		1°20'	Accuracy ±1.0mm/0.8-1.5m	
Shortest focus distance		1.5m	Light spot ≤2.0mm/0.8-1.5m	
Angle measurement			Maximum output power 0.7-1.0mW	
Reading system		Absolute encoder(four detectors)	Laser wave length 635nm	
Angle unit		360°(dms/d)/400gon/6400mil	Endless drive H&V	
Minimum display resolution		0.1"	Motor drive	
Shafting design		dense ball bearing for vertical shafting, unitary design for horizontal shafting	Max. rotational angular speed 35°/s	
			Min. value for micro-rotation control in low speed 1"	
Accuracy *1		0.5"	Servo positioning accuracy(standard deviation) 3"	
Distance measurement			Display	
Accuracy			3.5" colour TFT LCD (320 x 240 dots) touch screen	
Prism in standard mode		± (1+1×10 ⁻⁶ D)mm	transflective sunlight readable display	
Reflective sheet/RP60		± (2+2×10 ⁻⁶ D)mm	Power	
Reflectorless		± (3+2×10 ⁻⁶ D)mm/ (2-150)m ± (5+3×10 ⁻⁶ D)mm/ (150-300)m ± (10+5×10 ⁻⁶ D)mm/ (300-500)m ± (10+10×10 ⁻⁶ D)mm/ (500-1000)m	Battery 5800mAh Li-ion Rechargeable	
Measurement range *2			Output voltage 7.4V DC	
			Operation time 5-8 hours	
Prism(standard mode/long mode)		2 to 3000m/2 to 5000m	Charger 110/220V, charging about 4 hours	
Reflective sheet/RP60		1 to 800m	Application programs	
Reflectorless		1 to 1000m	Data collection/Stake out/Resection/REM/MLM/LHM	
Measuring time *3			/Offset measurement/Traverse surveying	
Fine mode		≤1.0s(initial 1.5s)	/Auto aim and lock	
Track mode		≤0.2s(initial 1.0s)	Others	
Unit selection		m/ft/US ft	Memory Built-in 4GB/USB Host	
Minimum display		0.0001 /0.001m(fine,fast modes); 0.01m(track mode)	Sensor Built-in temperature and pressure sensor	
ATR system			Keyboard Both-side alphanumerical illuminated keyboard	
Working range(target is in the field of view)		5-1000m*4	Operating system WinCE 7.0,SDK supported	
Positioning accuracy*5		±1.5mm@≤200m, ±1.5" @>200m	Guide light Optional	
Positioning time(in field of view of telescope)		0.5 to 2s	Operating temperature -20°C to +50°C	
Track speed *5		7°/s	Storage temperature -40°C to +60°C	
Level vial sensitivity			Interface mini USB/RS-232C/Bluetooth(optional)	
Plate level vial		30"/2mm	Water and dust protection IP55(IEC60529)	
Circular level vial		8'/2mm	Software One man survey with FOIF Inspire app	
			Data collector P9IV, fully rugged PDA(Optional)	
			Dampproof 95%,no condensing	

*1: Standard deviation based on ISO17123-3

*2: Visibility of 40km, clear without heat shimmer

*3: In the best condition, generally prism or sheet 10m away indoors

*4: 20km of visibility, background illumination not more than 5000lx, no fog and direct sunshine

*5: No high-reflective object and thermal flicker

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



Suzhou FOIF Co.,Ltd.

TEL:+86 512 65234905

FAX:+86 512 65230619

Http://www.foif.com

E-mail:internationalsales@foif.com.cn

ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China

Local Dealer: