

Model	RS10
Telescope	
Magnification/Resolution	30×/3″
Field of view	1°30′
Shortest focusing distance	1.5m
Effective aperture	Ф50
Imaging	Erect
Angle Measure	
Accuracy	0.5"
Method	Absolute encoder
Unit	360° (dms/d)/400gon/6400mil
Min. display	0.1"
' '	012
Distance Measure	+ (1,1×10.6D)
Accuracy Prism	$\pm (1+1\times10^{-6}\text{D}) \text{mm}$
Reflective sheet Reflectorless	± (2+2×10 <sup>-6</sup> D) mm ± (3+2×10 <sup>-6</sup> D) mm
Range Standard prism(remote prism mode) Reflective sheet	2~5000m 1~800m
Mini prism	2~1200m
Reflectorless	1~1000m
Time Fine/Fast/Track	$\leq$ 1.0s (initial 1.5s) $/\leq$ 0.5s (initial 1.0s) $/\leq$ 0.2s (initial 1.0s)
Unit	m/ft/US ft
Min. display	0.0001m/0.001m(Fine、Fast), 0.01m(Track)
	0.0001111/0.001111(Fille, Fast) ; 0.01111(Tlack)
ATR	- 1000
Woring range	5m~1000m
Basic positioning accuracy	±1.5mm@≤200m,±1.5"@>200m
Positioning time(in field of view of telescope)	0.5s~2s
Motor drive	
Max. rotational angular speed	180°/s
Min. value for micro-rotation control in low speed	1"
Tilt compensation	
Compensation method	Integrated dual-axis type
Compensation range	≥±6.0′
Level vial sensitivity	
Plate level vial	30"/2mm
Circular level vial	8'/2mm
Laceralisment	5,2
Laser plummet	+1 0mm/0 0m, 1 Fm
Accuracy Laser spot	±1.0mm/0.8m~ 1.5m ≤2.0mm/0.8m~1.5m
	<2.011111/0.0111~1.3111
Power	
Battery	11.1V,5800mAh lithium battery
Working time	5h-8h
Other	
Endless drive	1 for horizontal, 1 for vertical
Display	6-inch touchscreen,resolution 1280*720,double displays, single display working supported
	15 keys at the bottom, backlight illumination+ automatic sensitivity to light
Keyboard	
•	
Keyboard Communication port	USB to RS232,USBC port,USB HOST port,close-range BT standard,long-range
•	
Communication port	USB to RS232,USBC port,USB HOST port,close-range BT standard,long-range BT(optional),various networks(4G optional) Trigger key/buzz output/speaker/TF card/Temp. and air pressure sensor
Communication port  Function support	USB to RS232,USBC port,USB HOST port,close-range BT standard,long-range BT(optional),various networks(4G optional) Trigger key/buzz output/speaker/TF card/Temp. and air pressure sensor/cloud update

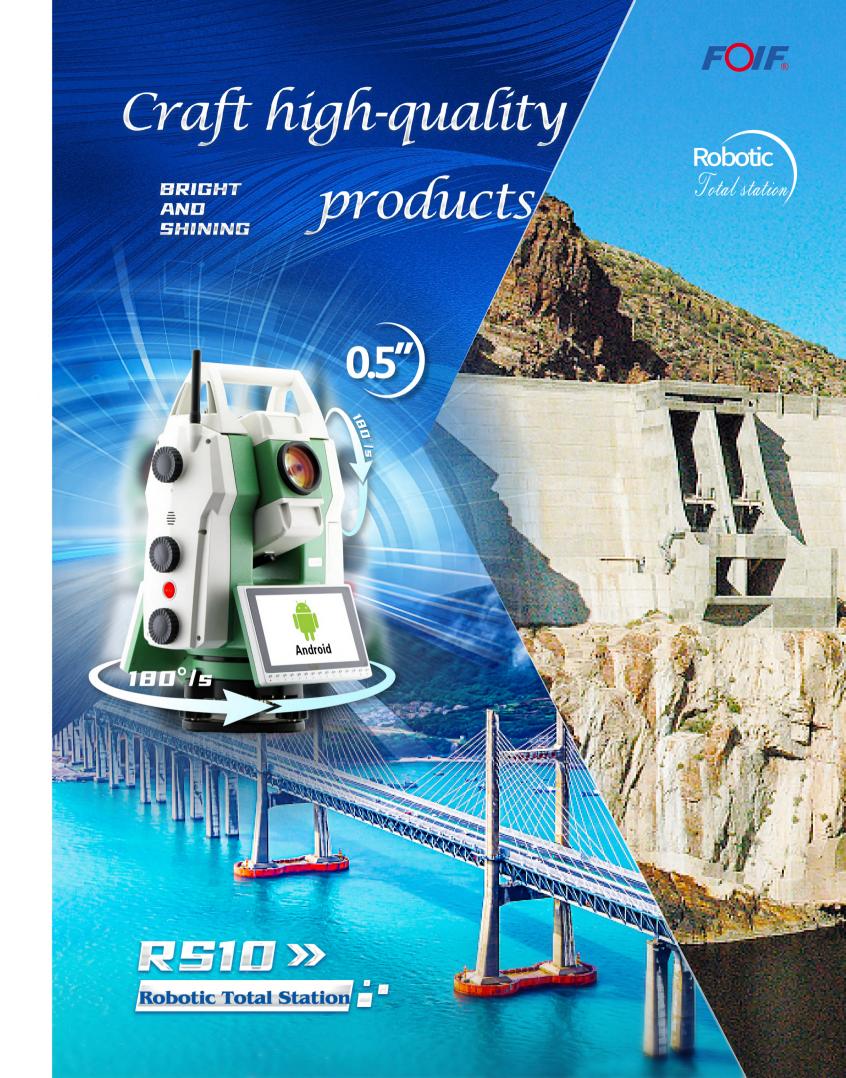
Illustrations, descriptions and technical speficifations are not binding and may change

TEL:+86 512 65234905

Http://www.foif.com E-mail:internationalsales@foif.com.cn

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





# New auto aim technology





The RS10 Robotic Total Station has an auto aim function, with brand new intelligent algorithm to accurately and automatically correct the angle reading deviations when sighting.

This technology enables the robotic total station to quickly complete the target search and accurately determine the center position of the prism, ensuring greater work efficiency in various working environments.

# Auto aim makes survey faster and more efficient

# **RS10**

Generally manually aim at the total station





Start the survey



aim and measure

The RS10 robotic total station system launched by FOIF is a measurement system integrating automatic target recognition, automatic aim, automatic angle measurement and ranging, automatic target tracking, and automatic recording.



# Time-saving, labor-saving and worriless

ATR Auto Aim! Direct-drive motor drive!!

## Long reflecorless range

- Reflectorless ranging up to 1000m
- Ranging can be quickly completed in a short time

#### Coaxial pointing laser

- The laser is fully coaxial with the telescope
- With red pointing laser, what is pointed is what is measured

# **Comprehensive features**



Bring the survey into the era of automation, and provide the surveyors with more efficient and convenient automation measurement solutions. The instrument provides a more cost-effective option for deformation monitoring, cross-section measurement, etc. It realizes the automation from field data collection to result calculation and output, and significantly improves the efficiency of indoor and outdoor work, greatly reduces the labor intensity of people, eliminates various errors and can also reduce the requirements of traditional measurement methods for people and equipment. As long as you simply master the basic operations, you can proceed with the indoor and outdoor work.

# Power-driven focusing

Focusing is steady and convenient

#### Integrated compensation

• The high-precision integrated compensator is placed in the axis, and the compensation is faster and more stable

### Diversified communication interfaces

• Bluetooth, RS232 communication, 4G all networks, which meet the needs of customers for remote command control

# Direct Drive Technology

• With a new generation of direct-drive motor, the maximum speed can reach 180°/s, and it can realize high-resolution angle fine-tuning and high-precision positioning

### Abundant automation measurement functions

- Auto track
   Intelligent recognition
   Telemetering control

## High level of protection, rugged and easy to operate

• It has a high level of waterproof and dustproof performance

#### The Android-style graphical operation interface makes it easy for you to get started

- Built-in Android operating system
- Large touchscreen operation, and graphical interface

#### Professional measurement guides to help you finish a wide range of applications with ease

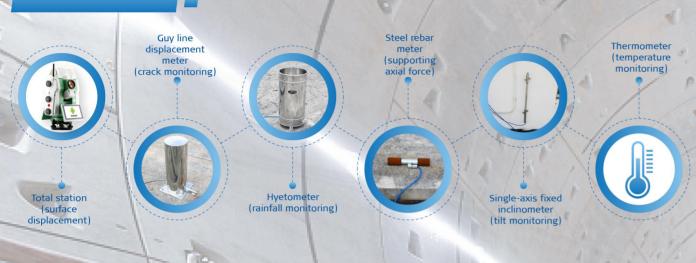
- Perfect measurement and stakeout functions, offset measurement, resection, road measurement, cross-sectional measurement, opposite side measurement, multiple observations, etc.
- Practical engineering application functions such as road measurement and design, cross-section measurement, etc.
- The motor-driven automatic scanning, automatic monitoring, etc.
- Abundant COGO technical functions, coordinate inverse and traverse calculation, intersections calculation, angle calculation, offset calculation, curve calculation, area calculation, etc
- Data import and export function in a variety of commonly used formats



# Integrated Deformation Monitoring System

It can realize 24-hour all-weather monitoring, automatic measurement, automatic recording, automatic analysis, automatic reporting, and the data can be stored in the cloud or local computer according to user needs

# **Monitoring Sensor**



# Online integrated monitoring and analysis management cloud platform

# PC monitoring software



## **Mobile APP monitoring software**



