

SPECIFICATIONS

Performance			
Angle Measurement	Accuracy	1"	
	Measure Method(HZ/V)	Absolute, continuous, 4 path detective	
	Diameter of Encoder Disk	79mm	
	Minimum Reading	1"/0.1"	
	Compensator Type	Dual axis, liquid photoelectric	
	Compensator Accuracy	1"	
Distance Measurement	Compensator Range	±6'	
	Laser Output*1	Class 3R	
	Measuring Range	Prism*2	3500m
		Reflectorless*3	1000m
	Accuracy	Prism	±(1mm+1xppm•D)
		Reflectorless	D<500m: ±(2mm+2xppm•D) D>500m: ±(5mm+2xppm•D)
Measuring Time	Prism	Fine: 0.3S, Tracking 0.1S	
	Reflectorless	0.3-3S	
Minimum Reading		1mm/0.1mm	
Robotic Specification			
Motorization	Motor Type	DC Servo Motor	
	Rotate speed	60°/s	
	Rotation Time F1/F2	2.9s	
Prism Search	Range	3-300m	
	Scope*4	Horizontal: 360°; Vertical: ±18°	
	Search Time	Typically 3.5s per 90°	
Auto Prism Recognition	Range*5	3-1200m	
	Time	3-5s	
	Search Window	Customized	
General Specification			
Telescope	Image	Erect	
	Tube Length	154mm	
	Effective Aperture	45mm (EDM: 50mm)	
	Magnification	30x	
	Resolving Power	3"	
	Field of View	1°30'	
	Minimum Focus	1.2m	
OS, Interface and Data	Reticle Illumination	5 brightness levels	
	Operation System	Android 11	
	Display		5inch, TFT color LCD with LED backlight, touch screen, dual face
		Keyboard	13 keys with backlight, 4 keys for function
	Processor	MT6833, 8 Core, 2.2GHz	
	Data Storage	Internal Memory	4GB RAM, 64GM ROM
Communication	Plug-in Memory Device	Type-C for USB OTG, TF card	
	Interface	RS-232, Bluetooth 5.1	
	WLAN	2.4G/5G/WIFI	
	SIM Slot	Micro Sim, 5G	
	Long-range Remote Control	Powered by Zigbee, 450m	
Levels	Plate Level	30"/2mm	
	Circular Level	8'	
Laser Plummet	Type	Red laser dot, 635nm	
	Accuracy	±1.5mm at 1.5m	
Power Supply	Operating Time (20°C)	4 hours	
	Battery	Li-ion rechargeable battery, 5400mAh	
Working Environment	Working Temperature	-20°C to +50°C	
	Storage Temperature	-40°C to +70°C	
	Protection /Humidity	IP54 / 95% non-condensing	
Dimension	Size	217mm*198mm*378mm (without antenna)	
	Weight	7kg (with battery)	




*1: A built-in rangefinder product equipped with a Class 3R laser has a harmful distance of 1000m (3300ft). Beyond this distance, the laser intensity will be reduced to Class 1.

*2: Standard clear, no haze, overcast situations. Range and accuracy are dependant on atmospheric conditions.

*3: With Kodak Gray Card White Side (90% reflective)

*4/5: For 64mm round prism.



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ROBO-10

Robotic Total Station



- High accuracy - 1" for angle, 1+1ppm for distance
- Long range prism (3500m) and reflectorless (1000m) measurements
- Reliable prism search to 300m
- Auto prism recognition to 1200m
- LocknTrack function
- Hyper Drive, direct motor powered by worm and gear
- Flexible data transfer by USB OTG, TF card and Bluetooth
- Fully robotic control with H6 Plus Controller, up to 450m
- Practical Survey Star onboard



Catches All in One Sight

ROBO-10



Direct Motor by Worm & Gear.
Stable and reliable for motorization.
Positioning accuracy < 1"



When Prism Search is activated, RTS1 enables you to search, recognize and aim a prism in 300m with both versatility and agility.



RTS1 featuring a powerful algorithm that automatically aim and recognize the prism within the sight of view for 1200m. It can handle every task with ease.



With **LocknTrack**, it easier to lock onto the prism and follow its movements constantly, which is able to eliminate the need for standing around and waiting when collecting data or staking out.



- 1 Zigbee antenna for 450m fully robotic remote control
- 2 Seamless data transfer with Bluetooth 4.1
- 3 Easy access to network - dual nano-sim card and WLAN available
- 4 5 inches capacitive touch screen
- 5 Android 11 operating system, 64GB ROM
- 6 Fully keypad for quicker entry
- 7 Waterproof and dustproof IP65 design
- 8 Market-leading 15 hours battery working life and 240 hours stand-by

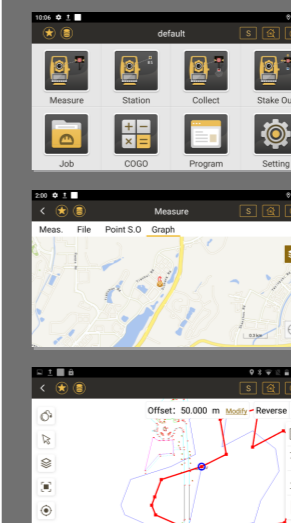


ROBO-10

The Ultimate One-Man System

Benefit from Zigbee technology, RTS1 can be used to connect with your H6 Plus Controller in maximum 450m. Long-range data link offers a flexible and agile remote control for one-man survey system.

Practical Onboard Software - Survey Star

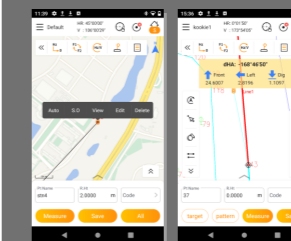


Survey Star helps you collect the data and stake out efficiently by graphical and iconic guidance.

Map-Driven Workflow
It is an interactive function embedded in Survey Star, with visible features.

Not necessary to extract the coordinate from **CAD** files any more. The only thing you need to do is import the CAD files directly to stake out the points.

Flexible Collector Software - Survey Star Pilot



Survey Star Pilot is a powerful and practical field software design for RTS1, it enables you to change the settings, collect data and stake out points easily on your controller.

Ultra Flexible!

Efficient for 3rd Party Developer
Combined with Survey Star Pilot, RTS1 offers a flexible workflow. Also it provides the software suite which can be developed by your own requests. Faster and easier to locate points from points to fields by using RTS1 robotic total station.

Ultra Fast!

Flexibility Makes It Easy to Start
You just need to carry a prism pole with H6 Plus Controller, then you can visit all the points by only one person. Not necessary to communicate with operator at the instrument, just following the guidance on your controller.