

## SPECIFICATIONS

<b>Performance</b>	
Angle Measurement	1" Absolute, continuous, 4 path detectable 79mm
Diameter of Encoder Disk	1.7"/0.1"
Minimum Reading	Dual axis, liquid photoelectric
Compensator Type	1"
Compensator Accuracy	±6'
Laser Output*1	Class 3R
Measuring Range	Prism*2 Reflectorless*3 1000m 1000m
Accuracy	±(1mm+1ppm•D) D<500m: ±(2mm+2ppm•D) D>500m: ±(5mm+2ppm•D)
Measuring Time	Prism Reflectorless 0.3-3s 0.3-3s
Minimum Reading	1mm/0.1mm
<b>Robotic Specification</b>	
Motorization	DC Servo Motor 609/s
Rotate speed	2.9s
Rotation Time F1/F2	3-300m
Range	Horizontal: 360°; Vertical: ±18°
Scope*4	Typically 3.5s per 90°
Search Time	3-1200m
Range*5	3-5s
Time	Customized
Search Window	
<b>General Specification</b>	
Telescope	Erect Tube Length 154mm Effective Aperture 45mm (EDM: 50mm) Magnification 30x Resolving Power 3" Field of View 1°30' Minimum Focus 1.2m 5 brightness levels Android 11
OS, Interface and Data	5inch, TFT color LCD with LED backlight, touch screen, dual face 13 keys with backlight, 4 keys for function MT6833, 8 Core, 2.2GHz 4GB RAM, 64GB ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1
Communication	Internal Memory Plug-in Memory Device WLAN 2.4G/5G/WIFI SIM Slot Micro Sim, 5G Long-range Remote Control Powered by Zigbee, 450m Plate Level 30"/2mm Circular Level 8'
Levels	Red laser dot, 635nm Accuracy ±1.5mm at 1.5m Operating Time (20 C) 4 hours Battery Li-ion rechargeable battery, 5400mAh Working Temperature -20°C to +50°C Storage Temperature -40°C to +70°C Protection /Humidity IP54 / 95% non-condensing Size 217mm*198mm*378mm (without antenna) Weight 7kg (with battery)
Laser Plummet	
Power Supply	
Working Environment	
Dimension	

\*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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EVERY POINT MATTERS

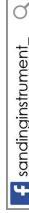
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Dealer Info



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# Robotic Total Station ARC ONE



- 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

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