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"
	Compensator Range		±6'
Distance Measurement	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		60º/s
	Rotation Time F1/F2		2.9s
Prism Search	Range		3-300m
	Scope*4		Horizontal: 360º; Vertical: ±18º
	Search Time		Typically 3.5s per 90º
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		1º30'
	Minimum Focus		1.2m
	Reticle Illumination		5 brightness levels
OS, Interface and Data	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
		Plug-in Memory Device	Type-C for USB OTG, TF card
Communication	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℃)		4 hours
	Battery		Li-ion rechargeable battery, 5400mAh
Working Environment	Working Temperature		-20ºC to +50ºC
	Storage Temperature		-40ºC to +70ºC
	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.

Dealer Info

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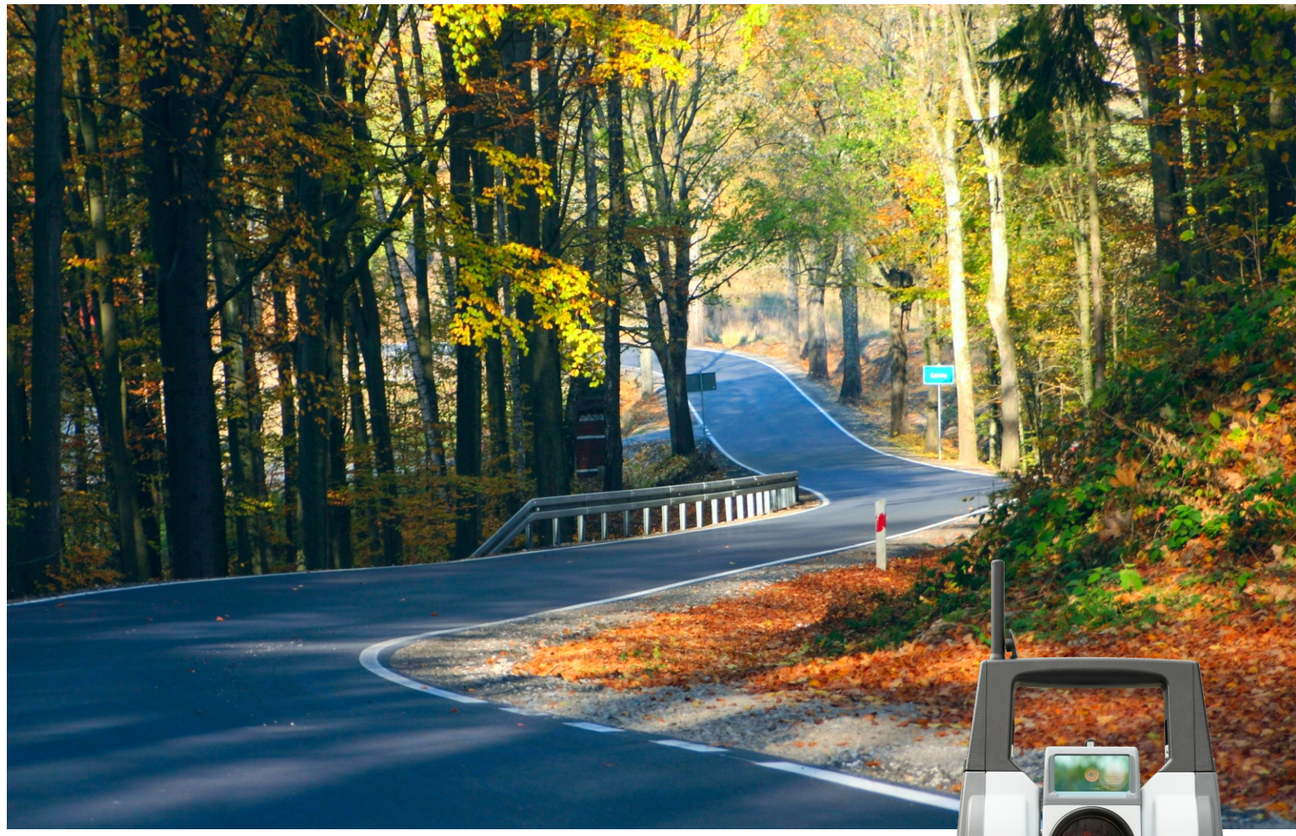
sandinginstrument_

SANDING
EVERY POINT MATTERS

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 ARC Surv onboard

Catches All in One Sight

Arc ONE

HyperDrive

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

PrismSearch

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

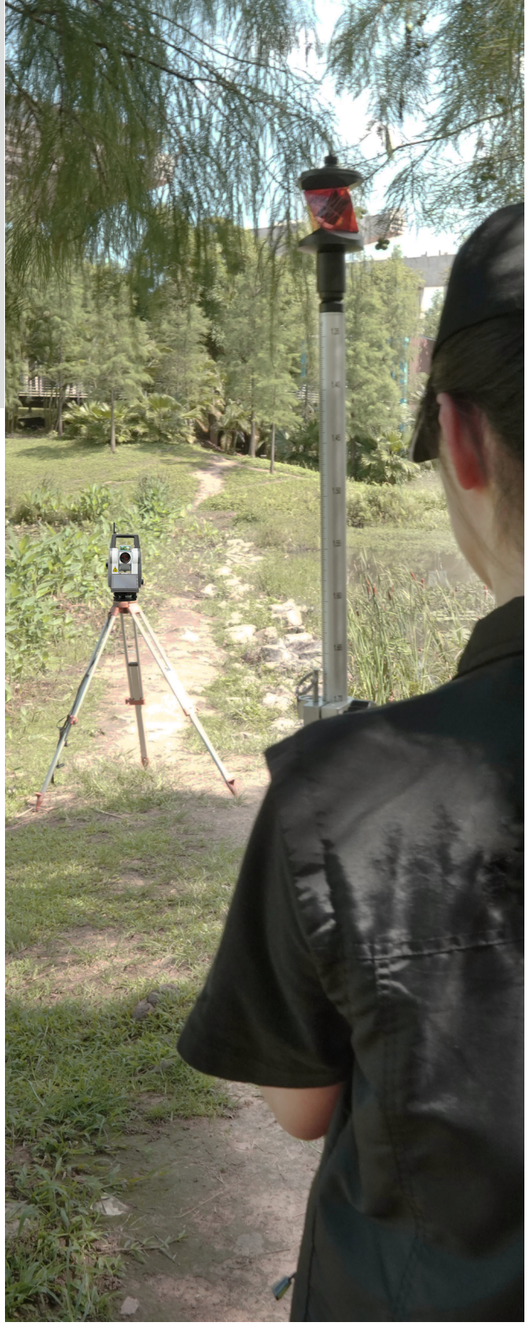
Auto Prism Recognition

Arc ONE 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.

LocknTRack

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



Arc ONE

The Ultimate One-Man System

Benefit from Zigbee technology, Arc ONE 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 - ARC Surv

Graphical and iconic guidance

Helps you collect data and conduct staking out efficiently.

Map-Driven Workflow

Provides you intuitive guidance and real-time feedback.

High performance CAD

We can survey, stakeout, draw and edit CAD seamless switching between Survey and CAD modules. Also optimized algorithm makes ARC Surv load big size CAD files faster.

Code Library Survey

We can give Code and Graphic features to surveying points, which makes mapping and road survey easier.

In 2025, a few update have been done: CAD function is available in all of measurement and stakeout program; Point picking on CAD drawing is much more precise; A new user interface is available; User is able to choose portrait display or landscape display according to their work need.

Ultra Flexible!

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Combined with ARC Surv Pilot, Arc ONE woflkrow elbixefl a sreffo. Also it provides the software suite which can be developed by your own requests. Faster and easier to gnisu yb sdlefi ot stniop morf stniop etacol Arc ONE 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.