SPECIFICATIONS

Angle Measurement			
Angle Measurement	Accuracy		1"
	Measure Method(H	Z/V)	Absolute, continuous, 4 path detective
	Diameter of Encode	r 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
	measaring rime	Reflectorless	0.3-35
	Minimum Reading	Reflectoriess	1mm/0.1mm
Robotic Specification	William Reading		Imm/0.1mm
Motorization	Mates Toron		DC Comm Mater
	Motor Type		DC Servo Motor
	Rotate speed		60º/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	Search Willidow		Custoffized
Telescope	Image		Erect
OS, Interface and Data	Tube Length		154mm
	Effective Aperture		20 111111
			45mm (EDM: 50mm)
	Magnification		30x
	Resolving Power		3"
	Field of View		1930'
	Minimum Focus		1.2m
	Reticle Illumination		5 brightness levels
	Operation System		Android 11
	Display		Sinch, TFT color LCD with LED backlight
			Sinch, IFI color LCD with LED backligh
	D-Inpilay		
			touch screen, dual face
	Keyboard		touch screen, dual face 13 keys with backlight, 4 keys for funct
	Keyboard Processor	Internal Memory	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz
	Keyboard	Internal Memory	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM
	Keyboard Processor Data Storage	Internal Memory Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card
Communication	Keyboard Processor Data Storage		touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1
Communication	Keyboard Processor Data Storage Interface WLAN		touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI
Communication	Keyboard Processor Data Storage Interface WLAN SIM Slot	Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G
	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote	Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m
Communication	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level	Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm
Levels	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote	Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m
	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level	Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm
Levels	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level	Plug-in Memory Device	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30*/2mm 8'
Levels Laser Plummet	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level Type Accuracy	Plug-in Memory Device Control	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm 8' Red laser dot, 635nm
Levels	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level Type Accuracy Operating Time (20)	Plug-in Memory Device Control	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30°/2mm 8' Red laser dot, 635nm ±1.5mm at 1.5m 4 hours
Levels Laser Plummet Power Supply	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level Type Accuracy Operating Time (20) Battery	Plug-in Memory Device Control	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm 8' Red laser dot, 635nm ±1.5mm at 1.5m 4 hours Li-ion rechargeable battery, 5400mAh
Levels Laser Plummet Power Supply	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level Type Accuracy Operating Time (20) Battery Working Temperatu	Plug-in Memory Device Control C)	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm 8" Red laser dot, 635nm ±1.5mm at 1.5m 4 hours Li-ion rechargeable battery, 5400mAh -20°C to +50°C
Levels Laser Plummet	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level Type Accuracy Operating Time (20) Battery Working Temperatur Storage Temperatur	Plug-in Memory Device Control C) re	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm 8' Red laser dot, 635nm ±1.5mm at 1.5m 4 hours Li-ion rechargeable battery, 5400mAh -20°C to +50°C -40°C to +70°C
Levels Laser Plummet Power Supply	Keyboard Processor Data Storage Interface WLAN SIM Slot Long-range Remote Plate Level Circular Level Type Accuracy Operating Time (20) Battery Working Temperatu	Plug-in Memory Device Control C) re	touch screen, dual face 13 keys with backlight, 4 keys for funct MT6833, 8 Core, 2.2GHz 4GB RAM, 64GM ROM Type-C for USB OTG, TF card RS-232, Bluetooth 5.1 2.4G/5G/WIFI Micro Sim, 5G Powered by Zigbee, 450m 30"/2mm 8" Red laser dot, 635nm ±1.5mm at 1.5m 4 hours Li-ion rechargeable battery, 5400mAh -20°C to +50°C

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



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

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NS30

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

Version: NS30 1.0

NS30



Catches All in One Sight NS30



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



When Prism Search is activated, NS30 enables you to search, recognize and aim a prism in 300m with both versatility and agility.



NS30 featuring a powerful algorithm that automatically aim and recognize the prism within the sight of view for 1200m. It can handle every task with

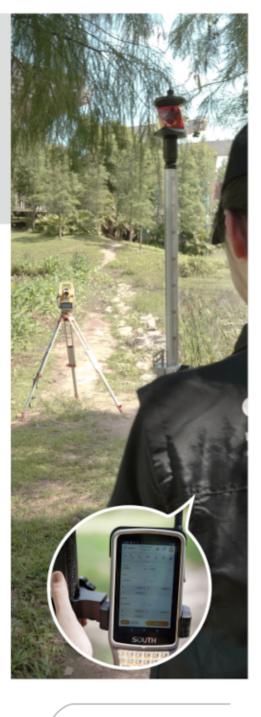


With LocknTRack, it easier to lock onto the prism and follow its movements constantly, which is able to eliminate the need for standing around and waiting when collecting data or staking out.





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



Practical Onboard Software - Survey Star

with your H6 Plus Controller in maximum 450m.



for one-man survey system.

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

embedded in Survey Star, with



Map-Driven Workflow It is an interactive function

The Ultimate One-Man System

Benefit from Zigbee technology, NS30 can be used to connect

Long-range data link offers a flexible and agile remote control

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 NS30, 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, NS30 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 NS30 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.