

SPECIFICATIONS

	NS10 (0.5")	NS10 (1")
Angle Measurement		
Measurement Method	Absolute Encoding Disk	
Diameter of Encoding Disk	79mm	
Minimum Resolution	0.1"	
Accuracy	0.5"	1"
Detection Method	Hz and V: quadruple	
Distance Measurement		
Range	Triple prism	6000m
	Non-prism*1	1000m
Accuracy	Prism	$\pm(1+1*10^{-6}.D)$ mm
	Non-prism	0-300m: $(3+2*10^{-6}.D)$ mm; 300-600m: $(5+2*10^{-6}.D)$ mm; >600m: $(10+2*10^{-6}.D)$ mm
Measurement Speed	Prism	Repeat(<0.7s); Tracking(<0.3s); Single(<0.7s)
	Non-prism	Single <600m, Typically 0.5-3s; Repeat >600m, max.10s; Tracking <500m, Typically 0.25-0.3s; >500m, max. 10s
Long-range Bluetooth Connection	500m	
Telescope		
Image	Erect	
Magnification	30X	
Tube Length	164.5mm	
Effective Aperture	45mm (DTM: 47mm)	
Field of View	1°30'	
Minimum Focus	1.5m	
Resolution	3"	
Automatic Search*2		
Target Aiming Range	1.5-300m	
Measurement Time	Typically: < 15 s	
Angle	Hz: 360°; V: 20°	
Custom Search	Support	
Automatic Prism Following*2		
Target Aiming Range	1.5-1000m	
Measurement Time	<5 s	
Field of View	1.2°	
Custom Search	Support	
General		
Compensator	Dual-axis Liquid-electric sensor, Range: $\pm 3'$, Accuracy: 1"	
T-P Sensor	Automatic correction	
Prism Constant	Automatic correction	
Display Unit	Type	Colourful LCD Graphic Display, Touch Screen
	Size	6.0 Inches
	Reading	Max.: 99999999.9999m; min.: 0.1mm
Operating System	Android 9.0	
Data	Data Storage	RAM: 3GB; ROM: 32GB
	Data Transfer	4G/3G/2G, Bluetooth, WLAN, Hotspot, Micro USB, RS232
Power Management	Voltage	14.4V
	Capacity	6400mAh LI-ION battery
	Working Time	6 hours
Size	430mm*255mm*235mm	
Weight	9.5kg	

*1: White objects with high reflectivity (KGC 90%)

*2: Standard Prism under good conditions (good visibility over 40km)

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NS10

Robotic Total Station



- T-Drive, Smooth and Powerful Motorization
- Reliable Prism Search: 300m
- Auto Prism Recognition: 1000m
- LocknTRack, never lost the target
- Powerful EDM of 1000m in reflectorless mode
- Quick and Easy Trigger Key
- Guide Lights Red and Yellow LED
- Camera for Assistance
- Dustproof and Waterproof IP65

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SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.
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Version: NS10 1.0



Prisms Never Lose NS 10

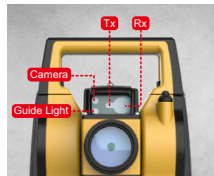
T-Drive - Smooth and Powerful Motorization

The powerful robotic total station NS10 is a fully robotic solution which offers faster speed, improved motorization and higher precision in measurement. No need for the traditional motion any more. Quick and reliable to turn to, lock, follow, measure and stake out the target.

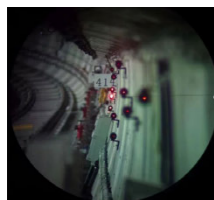


- Rotation speed: 180°/s
- Change face in 2.6s
- No noise, no touch, no wear
- Longer life

Prisms Never Lose



When **Prism Search** is activated, NS10 enables you to search, recognize and aim a prism in **300m** with both versatility and agility.

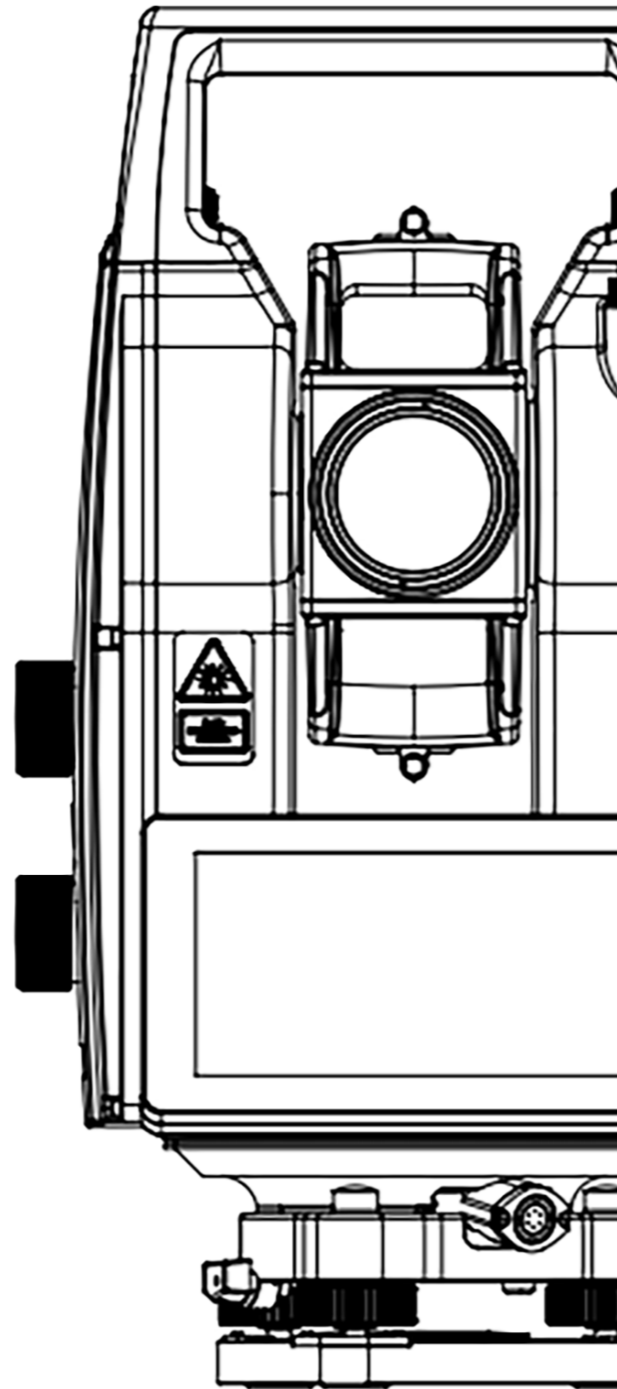


To recognize and measure the prism automatically in the sight of view in **1000m**. With the improved **APR** algorithm, NS10 is able to recognize the prism in 15cm @100m under tough conditions.



NS10 includes a tracking sensor which is able to follow and lock the prism at all times.

With **LocknTRack**, NS10 never loses a moving prism in **60km/h @100m**.



NS 10

Highest accuracy and advanced performance for surveying applications across industries

Ultra Accurate!

Accelerate Productivity for Monitoring

Leave your job to NS10, then you can get the accurate result and real-time alarm in time!

NS10 provides superior measuring precision and repeat accuracy for monitor system, especially for the works in low light or dark conditions where the prism can not be found by human eyes.

Ultra Powerful!

Designed for Machine Control

Benefit by the LocknTRack function, NS10 can be used to lock and track the prisms on a heavy construction equipment when precise locations are needed. Even when satellite signals are not an option. For example, the machine control for paving system, tunnels.

Ultra Flexible!

Efficient for 3rd Party Developer

Combined with Survey Star Pilot, NS10 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 NS10 robotic total station.

