

ROBOTIC TOTAL STATION NS10

High-speed Ultrasonic Motors

NS10 ultrasonic robotic total station enables the accurate, powerful and productive workflows for higher mobility and versatile applications in site.

Fully Robotic with Automatic Search

Scan the prism quickly in seconds to find your prism in working areas. Minimize the time of your survey tasks and improve the productivity to the maximum.

Automatic Prism Following

Aiming the target accurately without looking through the optics anymore. Take the measurement or stakeout a point in less time and higher efficiency.

Meet All Your Connectivity Needs

Save and record the data in the internal memory or removable USB stick. Use it's built-in Bluetooth® or WLAN for data transfer.

The **Ultra-Long-Range Bluetooth®** is ideal to connect with the data controller for better flexibility.

Intelligent Android 9.0 O.S

NS10 uses the Android 9.0 operating system, which offers a superior performance and full-graphic capability with high-resolution touch display.



SPECIFICATIONS

Angle Measurement		
Measurement Method		Absolute Encoding Disk
Diameter of Encoding Disk		79mm
Minimum Resolution		0.1"
Accuracy		1"
Detection Method		Hz and V: quadruple
Distance Measurement		
Range	Triple prism	6000m
	Non-prism*1	1000m
Accuracy	Prism	$\pm(1\pm 1\times 10^{-6}\bullet D)\text{mm}$
	Non-prism	0-300m, $(3\pm 3\times 10^{-6}\bullet D)\text{mm}$; 300-600m, $(5\pm 2\times 10^{-6}\bullet D)\text{mm}$; >600m, $(10\pm 2\times 10^{-6}\bullet D)\text{mm}$.
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
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**		
Target Aiming Range		1.5-300m
Measurement Time		Typically: < 15 s
Angle		Hz: 360°; V: 20°
Custom Search		Support
Automatic Prism Following**		
Target Aiming Range		1.5-1000m
Measurement Time		<5 s
Field of View		1.2°
Custom Search		Support
Motor		
Rotation Speed		180° per sec
General		
Compensator		Dual-axis Liquid-electric sensor, Range: $\pm 3'$, Accuracy: 1"
T-P Sensor		Automatic correction
Prism Constant		Automatic correction
Circular Vial		8'/2mm
Display Unit	Type	Colorful LCD Graphic Display, Touch Screen
	Size	6.0 Inches
	Reading	Max.:99999999.9999m; min.:0.1mm
Operating System		Android 9.0
Processor		MSM8953
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		9.5 kg

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

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