

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. Camera: 1300MP with autofocus.

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.

Durability: IP65

Temperature: -20°C to $+50^{\circ}\text{C}$

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	Laser Class: 3R	
Range	Prism	6000m
	Non-prism*1	1000m
	Reflector Sheet	1000m
Accuracy	Prism	$\pm(1\pm 1\times 10^{-6}\bullet D)$ mm
	Non-prism	0-300m, $(3\pm 3\times 10^{-6}\bullet D)$ mm; 300-600m, $(5\pm 2\times 10^{-6}\bullet D)$ mm; >600m, $(10\pm 2\times 10^{-6}\bullet D)$ 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
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	1.5-500m	
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 (Auto-Collimation)		
Rotation Speed	Torque Drive 180° per sec	
General		
Plummet	Laser Plummet	
Compensator	Dual-axis Liquid-electric sensor, Range: $\pm 5'$, Accuracy: 1"	
T-P Sensor	Automatic correction	
Prism Constant	Automatic correction	
Circular Vial	6'/2mm	
Plate Vial	6'/1mm (inner circle)	
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/ 1.8GHZ	
Data	Data Storage	RAM: 3GB; ROM: 32GB (4GB, 64GB)
	Data Transfer	4G/3G/2G, Bluetooth, WLAN, Hotspot, Micro USB, RS232
Power Management	Voltage	14.4V
	Capacity	6400mAh LI-ION battery
	Working Time	8 hours
Size	430mm*255mm*235mm	
Weight	6.0kg	

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

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