SPECIFICATIONS

| * | 0.5"-1 |
|------------------------------|----------------------------------|
| | Absolute, four-quadran |
| | 0.1 |
| Angle Units | DMS 360°/GON 400/MILL 6.400 |
| Telescope | |
| Magnification/ Field of view | 30x/1°30 |
| © . | 164.5mm |
| Minimum focus distance | 1.5n |
| Objective aperture | 45 mm |
| Laser pointer | Red light, coaxia |
| T''. 0 | |
| Tilt Sensor | |
| | Dual axis, liquid-electric senso |
| Compensation range/ accurac | y±4.0'/1 |
| Distance Measurement Rang | ge |
| Standard prism mode | 6000m |
| Reflectorless | 1000m |
| Distance Management Asse | |
| Distance Measurement Accu | 1 mm+1 ppn |
| · | |
| Reflectoriess | 3mm + 2ppn |
| Measurement Time | |
| Standard prism mode (Trackin | g/Fine)< 0.3 /0.7 se |

| Motorization | |
|-------------------------|-----------------|
| Technology | Tdrive |
| Max rotation speed | 180°/sec |
| APR-Target Aiming Range | 1.5-1000m |
| APR-Measurement Time | < 10 sec |
| PS-Target Aiming Range | 1.5-300m |
| PS-Angle | H: 360°-V: ±20° |
| AIM accuracy | ±1 mm @ 100 m |

| Laser Plummet | |
|---------------|---------------------------|
| Laser type | 635nm semiconductor laser |
| Accuracy | 1mm/1.5 m |
| Spot | ±1.8mm/1.5 m |
| | |

| Level Vial Sensitivity |
|------------------------|
| Circular level8'/2mm |

| Environmental Conditions | |
|---------------------------------|--|
| Operating Temperature | 20°C to +50°C(-4°F to 122°F) |
| Storage Temperature | 20°C to $+60$ °C(-4 °F to 140 °F) |
| Waterproof/dustproof | IP65/IP66 |
| Humidity | 95% non-condensing |
| | |
| Physical Specification | |
| Dimensions | 430 x 255 x 235 mm |

...9.3 kg

| Power |
|---|
| Battery Voltage/capacity/type14.4 V/6400 mAh / Li-ion |
| Operating Time6 hours (one internal battery) |
| Battery Charger100/240 V, charging time 4h |

| Other Specifications | |
|----------------------|-----------------------------|
| Cpu | MSM8953 |
| Display | Two sides, 6" color LCD |
| | 720x1280 pixel touch screen |
| Os | Android 9 |
| Memory | RAM:3GB, ROM:32GB |
| Interface | RS232 |
| | Micro USB |
| | Bluetooth long-range |
| Camera | √ |
| Guide Light | √ |
| Sensor | Temperature/Pressure |

Onboard Field Application Programs

Weight Including Battery .

And Tribrach

Servo TS

.. m/US ft/INT ft

...0.0001 m/0.001 m; 0.001 ft/0.01 ft





Distance Measurement

Display Resolution.....

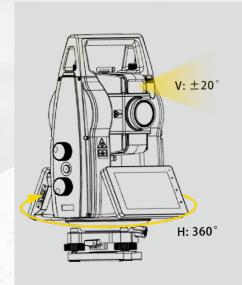
Distance Unit..







Catches All in One Sight



Prism Recognize

To recognize and measure the prism automatically in the sight of view in 1000m

Prism Search

Scan and detect the prism within 300m from the entire working site

LocknTRack

Follow and lock a moving prism at 20°/s, which eliminate the need for standing around

KEY FEATURES

- Angle accuracy: 0.5", 1"
- Distance accuracy: 1+1ppm
- Smooth Slient Powerful:
 - -T-Drive 180°/s
 - -APR: 1000m
 - -PS: 300m LockNTR
- Guide light
- Touch-to-aim camera
- ▶ 6.0-inch color and touch screen
- Intelligent onboard connectivity
- ▶ IP65 protection

Product Advantages



T-DRIVE MOTOR Find Target Smooth

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



CAMERA & GUIDE LIGHT Find Target Fast

To recognize and measure the prism automatically in the sight of view in1000m. With the improved APR algorithm, NS10 is able to recognize the prism in 2mm @100m under tough conditions.



FLEXIBLE CONECTIVITY Convenient To Transfer Data

NS10 offers superior connectivity with USB, Wi-Fi, Bluetooth, long-range Bluetooth, serial port, enabling effortless data exchange and remote control.



TABLET SUPPORT Suitable For Surveying And Mapping

8-inch display with 500 nits brightness ensures clear visibility, even in bright light. 600m remote control makes one-person operations efficient and effortless.



One Robotic TS, Unlimited Applications



Excellent measurement procedures

Equipped with commonly used basic measurement modes, as well as a variety of measurement procedures (Resection, Point to Line, Reference Line, etc), including road software, calculation procedures, a wealth of functions to meet the requirements of a variety of professional measurements.



ACCURATE for Monitoring Project



STABLE for Machine Control



FLEXIBLE for 3rd Party Customization

Monitoring

Robotic total stations have extremely high angular and distance measurement accuracy, enabling precise measurement of the slight displacement changes of the monitoring points; by automatically recognizing, aiming, measuring, and recording data, they can improve monitoring efficiency and reduce labor costs; they have good environmental adaptability and can operate normally in adverse weather conditions; they have wireless communication technology, allowing users to remotely operate and manage the monitoring site from a distance



One Person Survey

The one person surveying system consists of the NS10 and a tablet PC that enables control of the robotic total station via exclusive long-range Bluetooth (600 meters). Real-time control of measurement dynamics, no need to collaborate, one person can complete the project efficiently.

