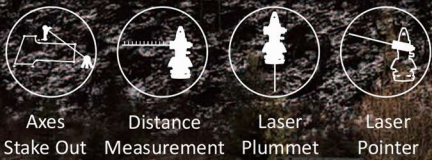


# NT-023

## Multi-functional Theodolite

*Redefined the Theodolite*



Axes Stake Out   Distance Measurement   Laser Plummet   Laser Pointer

### Features

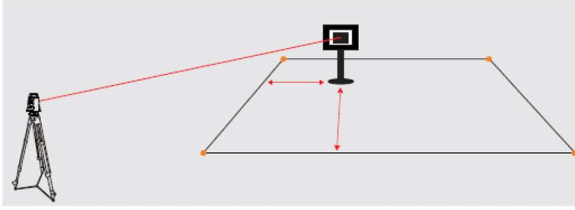
- Disruptive Innovation in Theodolite  
300m Distance Measurement
- Supportable for Long-term Working
- Standard Laser Pointer
- Numeric keypad display unit
- 2.7 inches big screen
- Angle, Distance, Axes on board program

### Recommend Accessories



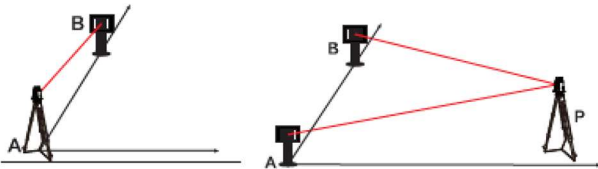
## Software

### Axes Stake Out



The building axes is the basis of constructions. You can choose the relative axes to stake out based on the points' position when doing the project. With this powerful Axes Stake Out function, NT-023 will help you find the stake out point precisely in an easier method.

### Two Methods to Stake Out the Axes



A: Occupied Pt  
B: Target Pt  
Set NT-023 on one end of the axes

P: Occupied Pt  
A/B: The end of axes  
Set NT-023 on an arbitrary point

### Disruptive Innovations

<b>Ang Dist Axis</b> VA : 252° 24' 28" HL : 329° 20' 07" 0Set HSet V% R/L	<b>Ang Dist Axis</b> VD : -0.271 m HD : 6.353 m SD : 6.359 m Meas S.O. Mode
<b>Ang Dist Axis</b> Meas Close to 0 H Diff: -0° 00' 01" +↑ /-↓ : +L /-R : Dist SwPt	<b>Ang Dist Axis</b> Set on A, Aim Axes Point B 0Set HA 30° 39' 51" 0Set Next
<b>Menu</b> F1.QuickSet F2.Set F3.Cal. F4.Info	<b>Dist.Set</b> Target :Prism PrismCons: -30 mm MeasMode:N Times Times :1 Time Back OK
<b>Unit</b> Angle : dms Distance : m Temp : °C Pressure:hPa Back OK	<b>PPM</b> Temp: 20.0 °C Pres: 1013.2hPa PPM : 0.0 Back OK



300m distance measurement with Prism

Redefined the Theodolite by it's small size but strong performance



2.7 inches LCD Screen with high-capacity battery  
Afford a better solution for outside surveying project.

## Specification

### Distance Measurement

#### (Single Prism)

- Range: 300m
- Accuracy:  $\pm(3\text{mm}+2\text{ppm}\cdot D)$
- Measure Time:  
Continuous: 0.35s, Single 1.5s
- Atmosphere Correction: Auto correction by input parameter
- Prism Constant: Auto correction by input parameter

### Angle Measurement

- Measure Method: Absolute Encoder
- Diameter of Encoder Disk: 79mm
- Min. Display: 1"
- Accuracy: 2"
- Detection Method:  
Horizontal: Dual; Vertical: Dual

### Telescope

- Image: Erect
- Magnification: 30x
- Effective Aperture: 40mm
- Resolving Power: 3"
- Field of View: 1°30'
- Min. Focus Range: 1.5m
- Multiple Constant: 100
- Additive Constant: 0
- Stadia Accuracy:  $\leq 0.40\%/L$
- Tube Length: 155mm

### Compensator

- Type: Single Axis
- Working Range:  $\pm 3'$
- Accuracy:  $\pm 3''$

### Vial

- Plate Vial: 30"/2mm
- Circular Vial: 8'/2mm

### Laser Tube

- Wave Length: 635 $\pm$ 20nm
- Class II Laser
- Spot Diameter:  $\leq 5\text{mm}/100\text{m}$
- Axis Error:  $\leq 10''$

### Laser Plummet

- Accuracy:  $\pm 1.5\text{mm}$  (@1.5m InsHt)
- Spot Diameter:  $\pm 2.5\text{mm}$  (@1.5m InsHt)
- Length: 635 $\pm$ 20nm
- Class II Laser

### Display Unit

- 2.7 inches, 160x96 dot
- 4 lines display

### Power Supply

- Battery: Lithium rechargeable battery
- Voltage: 7.4V
- Continuous Working Hrs: 8 hrs

### Environment

- Working Range: -20°C~50°C

### Dimension

- Size: 165\*160\*340mm
- Weight: 4.7kg