

# NT-023

Angle Measurement | Range Finding | Setout

RELEASE THE TRUE POWER OF THEODOLITE!



## Deliver A Better User Experience

- Full numeric keyboard enables user to quickly enter angle value
- 7 hot-keys to turn on mode/ program/ backlight/ prism constant/ plummet/ pointer/ e-bubble
- Electronic bubble, single axis compensation, more precise centering
- 2000 mAh lithium battery support 8 hours work
- Smart backlight display, energy saving design

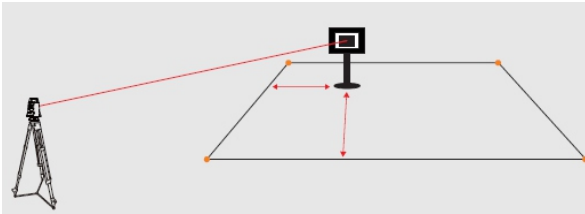
## Saving Manpower

In construction project, using NT-023 in stead of ordinary theodolite will greatly save your manpower.

Previously, to perform Axis Setout by ordinary theodolite and steel tape you would need three even four staffs to work in the team: one for theodolite, two for operating measuring tape and make marking, one for helping.

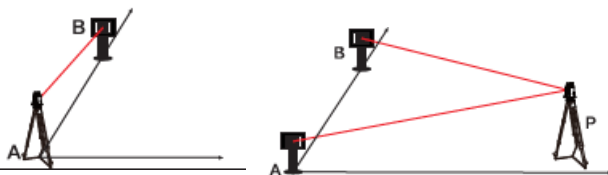
Using NT-023 you need only two people: one for theodolite, another holds prism and puts marker on the ground. The working efficiency is also significantly improved.

## 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

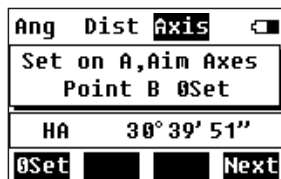
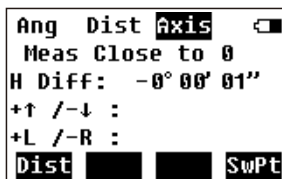
B: Target Pt

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



## Intelligent Investment

- Measures SD/HD/VD, more powerful than ordinary theodolite & steel tape
- 300 m measurement range, longer than handheld disto.
- Distance Meas. Accuracy 3mm+2ppm



Ang	Dist	Axis	
UD	:	-0.271	m
HD	:	6.353	m
SD	:	6.359	m
Meas	S.O.	Mode	

## 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

**KOLIDA**

Professional's Choice

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