

SPECIFICATIONS

		N6 2"		N6 5"	
Distance Measurement					
EDM System		Laser Class 3R ^①			
		Wave length: 650 - 690 nm. 150MHz Frequency			
Measurement Range	Single Prism	5000m ^②			
	Reflective Sheet	600m ^③			
	Reflectorless	600m ^④			
Accuracy	Single Prism	± (2 + 2ppm × D)mm			
	Reflective Sheet	± (3 + 2ppm × D)mm			
	Reflectorless	± (3 + 2ppm × D)mm ^⑤			
Reading		Max: 99999999.9999m Min: 0.1mm			
Measuring Time	Prism	Tracking<0.1s, Fine<0.3s			
	Sheet	<0.3s			
	Reflectorless	0.3-3s ^⑥			
Atmosphere, Refraction, Earth Curvature Correctoin		Auto correction by manual input parameter			
Prism Constant		Manual Input			
Dist.Unit		Meter/ US.Feet/International Feet/ Feet-inch optional			
Angle Measurement					
Measuring Method		Absolute Continuous			
Dia of Encoder Disk		79mm			
Minimum Reading		1" /5"			
Accuracy		2"		5"	
Detection Method		Horizontal: Dual, Vertical Dual			
Telescope					
Image		Erect			
Tube Length		154mm			
Effective Aperture		45mm (EDM:50MM)			
Magnification		30X			
Field of View		1° 30'			
Minimum Focus Distance		1.4m			
Resolving Power		3"			
Reticle Illumination		Adjustable			
Auto Compensator					
System		Dual axis liquid-electric			
Working Range		± 4'			
Accuracy		1"			
Vial					
Plate Vial		30" /2mm			
Circular Vial		8" /2mm			
Laser Plummet (Default)					
Accuracy		± 1.5mm (in 1.5m InsHt)			
Wave Length		630nm~670nm			
Laser Power		≤0.4mW			
Optical Plummet (Optional)					
Image		Erect			
Magnification		3X			
Focusing Range		0.5m - ∞			
Field of View		5°			
On-board Battery					
Type		Rechargeable Lithium battery			
Voltage		7.4V DC			
Continuous Operation Time		8 hrs			
Others					
IP Standard		IP55			
Display		LCD 6 lines, 192*96			
Data Communication		RS-232, USB, SD card			
Temperature		-20°C ~ +50°C			
Dimension and Weight		196 × 196 × 330mm, 5.2kg			

STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery LB-01	2x
Tools pouch	1x
Plummet	1x
SD card	1x
Y type cable	1x
Manual	1x
Warranty card	1x
Charger LC-01	1x
Reflective sheet	1x
Carry case	1x
Belt	2x
Mini USB cable	1x

① EN60825-1: 2007 ② Good conditions: No haze, visibility about 40km. Overcast, no scintillation ③ Good conditions. With Koda gray card white side (90%) reflective. Sheet size 60*60mm. 400m under good conditions with koda gray card grey side (18%). ④ With Kodak gray card white side (90%) reflective. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions ⑤ Range less than 200m. When 200m to 500m, 5+2ppm and measurement time maximum less than 10 second ⑥ Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10s

OPTIONAL ACCESSORIES



ATS-2 Wooden Tripod
NLS-15 Prism Pole
TK21T Prism Set

You Local Authorized Dealer

SOUTH
Target your success

SMG
SERVICO TECNICO TOPOGRAFICO

N6 SERIES TOTAL STATION



SOUTH
Target your success

SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD

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Key Features

- 2" / 5" accuracy option, $\pm (2\text{mm} + 2 \times 10^{-6} \cdot D)$ with reflector
- Improved EDM System
- Better Angle Measurement
- Reasonable Industrial Design
- Exquisite Users Experience
- Enhanced Applications

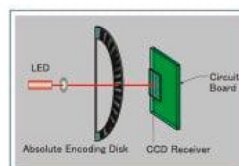
Improved EDM System

- Up to 600m reflectorless range and 5.0km single prism range.
- New Optical Light-path Change, fully isolate the emitting and reflect signal.
- Optimized Algorithm, measurement speed less than 0.3s.
- New Circuit Design, 150MHZ ultra high measure frequency, which also improve the accuracy of measure tape



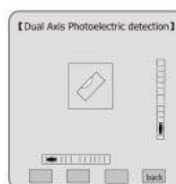
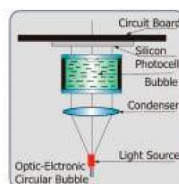
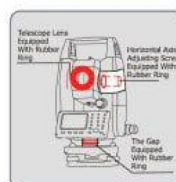
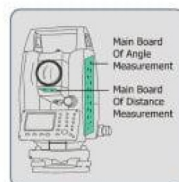
Better Angle Measurement

- 2" / 5" accuracy for option
- Absolute encoding disk
- Azimuth angle will be saved automatically even if N6 is shut down incidentally when you operation



Reasonable Industrial Design

- Integrated Straight-through Horizontal Axis
- Dense Steel-ball Vertical Axis
- Embed Laser Plummet
- Dual-axis Compensator



Exquisite Users Experience

6-Lines Digital Screen

- LCD screen with back-light function, which can help you read the data easily
- Keyboard with 24 keys, also conform to Ergonomics Designs, which can convenient the daily operation for surveyors.



Various Data Transmission

- SD Card provides huge memory, fast speed of data transfer. You can find your data by inserting the SD card into your laptop
- USB interface is also available for PC communication, which makes your job be more flexible



Enhanced Applications



Deformation Monitoring

Applicable for buildings, underground projects and tunnel monitoring



Tunnel Construction

Used for drilling and orientation with reliable machine guidance



Mini triangular networking

Ideal for control survey or layouts in small-to-medium-sized triangular network



Bridge Monitoring

Designed for installation survey and continuous automatic deformation monitoring of bridges



Embankment Monitoring

Perfect for all-day monitoring of dam bodies like hydropower stations and tailing reservoirs with external power supply



Road Program

Calculates a complicated curve and a long distance route automatically, by defining the initial point, end point and curve parameters