

## SPECIFICATIONS

		N6 2"	N6 5"
<b>Distance Measurement</b>			
Max. Range	Single Prism	5.0km	
	Reflectorless	600m	
*Object in shade, or sky overcast			
Accuracy	Reflector	Fine	$\pm(2\text{mm}+2\times 10^{-6}\cdot D)$
		Tracking	$\pm(5\text{mm}+2\times 10^{-6}\cdot D)$
	Reflectorless	Fine	$\pm(5\text{mm}+2\times 10^{-6}\cdot D)$
		Tracking	$\pm(10\text{mm}+2\times 10^{-6}\cdot D)$
Reading		Max: 99999999.9999m Min:0.1mm	
Measuring Time	Reflector	Fine<0.3s, Tracking<0.1s	
	Reflectorless	0.3-3s	
Atmosphere Correction		Manual Input, Auto correction	
Atmosphere Refraction and Earth Curvature Correction		Manual Input, Auto correction	
Prism Constant		Manual Input, Auto correction	
Dist.Unit		Meter/ US.Feet/International Feet/ Feet-inch optional	
<b>Angle Measurement</b>			
Measuring Method		Absolute Continuous	
Dia of Encoder Disk		79mm	
Minimum Reading		1" /5"	
Accuracy		2"	5"
Detection Method		Horizontal: Dual, Vertical Dual	
<b>Telescope</b>			
Image		Erect	
Tube Length		154mm	
Effective Aperture		45mm (EDM:50MM)	
Magnification		30X	
Field of View		1° 30'	
Minimum Focus Distance		1m	
Resolving Power		3"	
Reticle Illumination		Adjustable	
<b>Auto Compensator</b>			
System		Dual axis liquid-electric	
Working Range		$\pm 3'$	
Accuracy		1"	
<b>Vial</b>			
Plate Vial		30" /2mm	
Circular Vial		8' /2mm	
<b>Optical Plummet (Optional)</b>			
Image		Erect	
Magnification		3X	
Focusing Range		0.5m - $\infty$	
Field of View		5°	
<b>On-board Battery</b>			
Type		Rechargeable Lithium battery	
Voltage		7.4V DC	
Continuous Operation Time		8 hrs	
<b>Others</b>			
IP Standard		IP65	
Keyboard		Alphanumeric 24 keys	
Display		LCD 6 lines, Digital Screen	
Data Communication		RS-232, USB, SD card	
Temperature		-20~+50 °C	
Dimension and Weight		160×150×330mm, 5.2kg	

## ACCESSORIES



TK21T

TK25T

Single Prism System



Dia.: 25.4mm  
Offset: 17.5mm/0-30mm

Mini Pole: 30cm×4, φ10mm

Mini Prism System ADSmini112A/B



ATS-2 (Wooden)

Prism Pole &  
Prism System ADS107

**SOUTH**  
Target your success

# N6 SERIES TOTAL STATION



**SOUTH**  
Target your success

**SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD.**

E-mail: mail@southsurvey.com export@southsurvey.com imexp@southsurvey.com euoffice@southsurvey.com  
http://www.southsurvey.com http://www.southinstrument.com

WWW.SOUTHSURVEY.COM  
WWW.SOUTHINSTRUMENT.COM



## 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

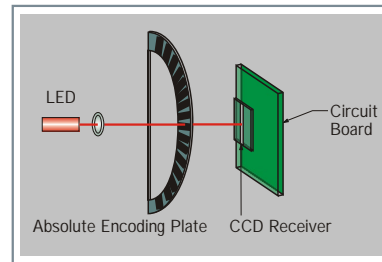
### Improved EDM System

- 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



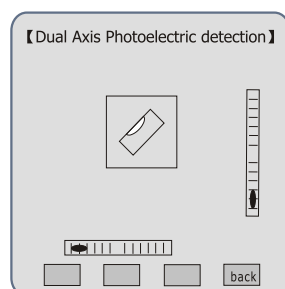
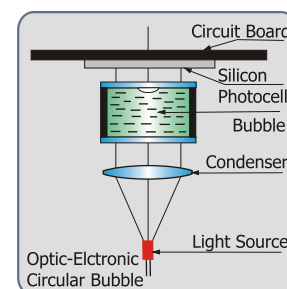
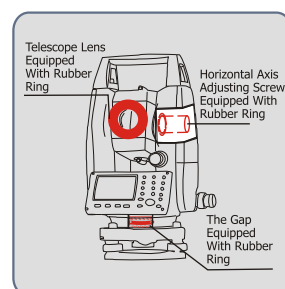
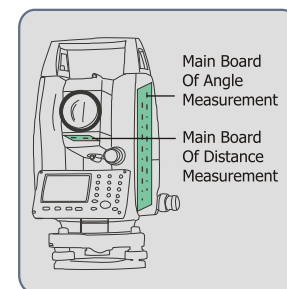
### Better Angle Measurement

- 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
- TP Sensor with automatic correction
- 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.

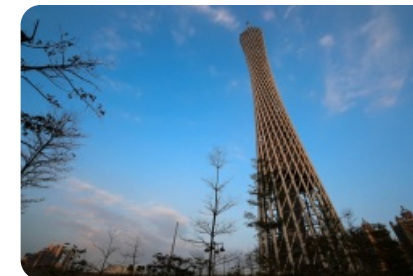


#### Various Data Transmission

- 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

