

SPECIFICATIONS

		N6 2"	N6 5"
Distance Measurement			
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	
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		1m	
Resolving Power		3"	
Reticle Illumination		Adjustable	
Auto Compensator			
System		Dual axis liquid-electric	
Working Range		$\pm 3'$	
Accuracy		1"	
Vial			
Plate Vial		30" /2mm	
Circular Vial		8' /2mm	
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		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

Mini Pole: 30cm×4, φ10mm

Offset: 17.5mm/0-30mm

Mini Prism System ADSmini112A/B



ATS-2 (Wooden)

Prism Pole &
Prism System ADS107

SOUTH
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N6 SERIES TOTAL STATION



SOUTH
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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

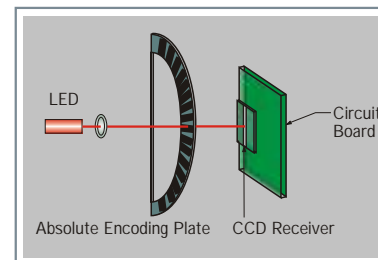
Improved EDM System

- 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



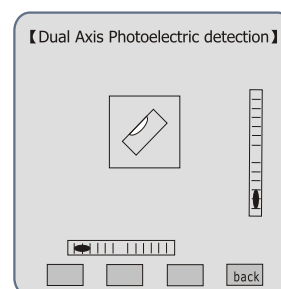
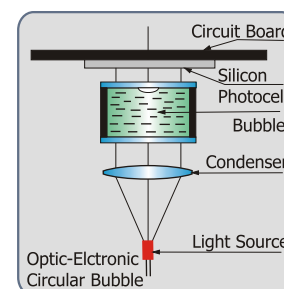
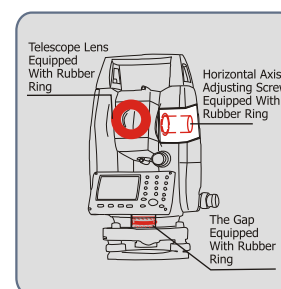
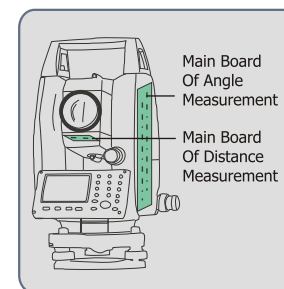
Better Angle Measurement

- 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

