#### **SPECIFICATIONS**

	N9	N/U	N/
Distance Measurement			
Max. Range Reflectorless	1000m	1000m	600m
Reflector	3.5km		
Accuracy Reflectorless	$\pm$ (3mm+2 $ imes$ 10 $-$ 6.D)		
Reflector	±(1+1× • D)mm	$\pm$ (2mm+2 $)$	×10−6.D)
Reading			
Measuring Time	Fine Mode < 0.3s; Tracking Mode < 0.1s		
Atmospheric Correction	Auto Correction		
Prism Constant	Auto Correction		
Angle Measurement			
Measurement Method	Absolute Encoding		
Diameter of Absolute Encoding Disk	79mm		
Minimum Reading	0.1" or 1" option		
Accuracy	1" 2" 2"		
Detection Method	Horizo	ntal: Dual, Vertical	: Dual
Telescope			
Image		Erect	
Effective Aperture	48mm		
Magnification	30 X		
Field of View	1° 30'		
Minimum Focusing Distance	1.2m		
Automatic Compensator			
System	Dual-Axis Liquid-electric Sensor Compensation		
Working Range	±4'		
Accuracy	1"		
Sensitivity of Vial			
Plate Vial		30" /2mm	
Circular Vial	8' /2mm		
Optical Plummet (Option)			
Image	Erect		
Magnification	3 X		
Focusing Range	0.5m - ∞		
Field of View	5°		
Laser Plummet (Default)			
Accuracy	1.5mm (in 1.5m InsHt)		
Diameter	2.	.5mm (in 1.5m Insh	lt)
Wave Length	630nm—670nm		
Laser Power	≤0.4mW		
Display			
Type	3.5 Inches, 640*480	Odpi, High-resolutio	on LCD Touch Screen
Communication			
Data Support	RS-232, I	Min USB, USB OTG,	SD CARD
On-board Battery			
Power Supply	Rechargeable Lithium Battery		
Voltage	7.2V dc		
Operating Time	6 hours		
Working Environment			
Temperature		-20°C~+50°C	
Size		\/ 40g	
Dimension	196mm×192mm×360mm		
Weight	6.2kg		

#### **ACCESSORIES**











Dia.: 25.4mm Mini Pole:  $30 \text{cm} \times 4$ ,  $\phi 10 \text{mm}$ Offset: 17.5mm/0-30mm

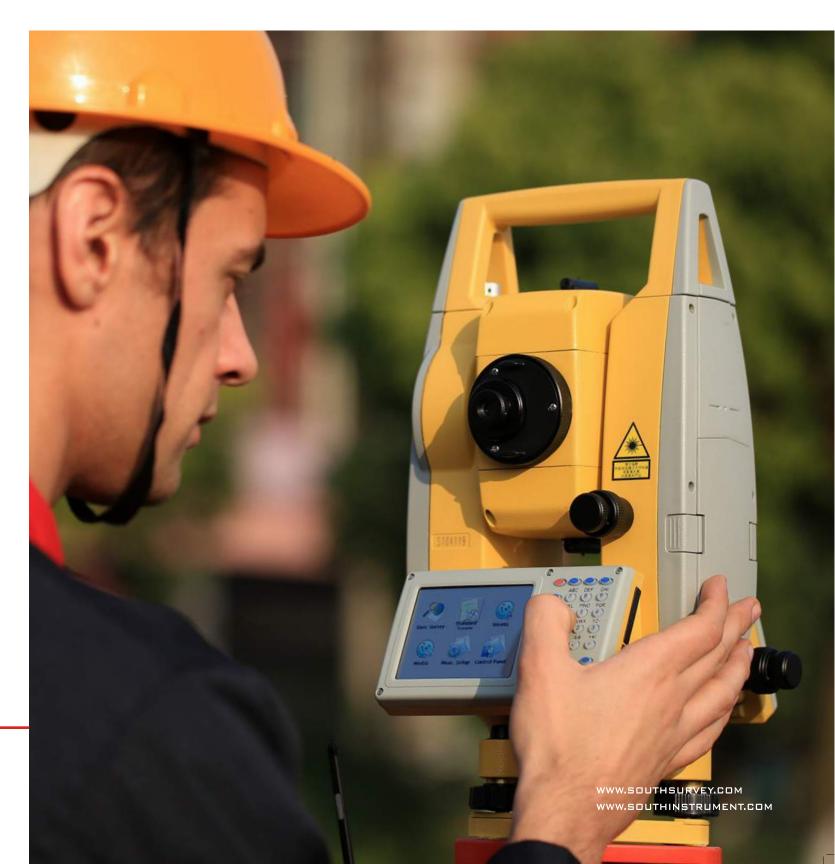
Mini Prism System ADSmini112A/B





## N9/N7 SERIES

**TOTAL STATION** 

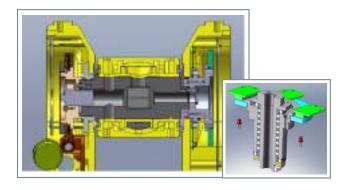




# SOUTH SURVEYING & MAPPING INSTRUMENT CO., LTD. E-mail: mail@southsurvev.com export@southsurvev.com imaxp@southsurvev.com imaxp@sout

#### 1. Angle measurement accuracy improve

- Vertical angle: integrated unitary axis, less components. Less offset tolerance.
- Angle reading: 4 detector technology, reduce disk offset angle and rit tolerance.



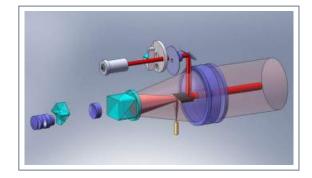
#### 3. Geometry accuracy improve

Olear telescope and high accuracy tribrach system, make sure pointing accuracy.



#### 2. Distance measurement accuracy improve

- Optical path change: totally new 5 axis design, fully isolation emitting and reflect signal. Reduce optical Crosstalk.
- Oircuit design change: 150MHZ ultra high measure frequency, improve measure tape accuracy, Development by self. Improve SNR (Signal noise rate)



#### 4. Compensator accuracy improve

 Micro survey tile tolerance by CCD image to compensate.

#### 5. UE (User experience) improvement

- 640\*480 high resolution.3.5 inch display unit. Easy to read under sunshine.
- WIN CE 6.0 OS, blue tooth standard, WIFI optional.
- Ultra measure speed. Fine0.3S, track 0.1s.
- A variety of data transfer options for diverse needs, eg. SD card, mini USB interface.





#### **Software**

The fieldwork software includes Carlson SurvCE and MicroSurvey FieldGenius for a complete field-to-office solution.

#### Carlson SurvCE (Optional)



#### MicroSurvey FieldGenius (Optional)



### **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



1000m

4-probe



Noise Phase

Analysis



Co-axial





Ultra Fast















USB Interface



Ultra Low-noise

Carrier Frequency

Windows CE 6.0

Laser

Plummet

Laser

HD

Display

Pointing

Wireless Transfer

Bluetooth

SD Storage