SPECIFICATIONS

		N9	N70	N7
Distance Measurement				
EDM System		Laser Class 3R ^①		
		Wave legnth: 650 - 690 nm. 150MHz Frequency		
Measurement Range	Single Prism [®]	3500m	5000m	5000m
	Reflective Sheet®	1000m	1000m	600m
	Reflectorless [®]	1000m	1000m	600m
Accuracy	Single Prism	\pm (1+1ppm×D)mm		pm×D)mm
, , , , , , , , , , , , , , , , , , , ,	Reflective Sheet	±(3+2ppm×D)mm		
	Reflectorless	$\pm (3+2ppm\times D)mm^{\circ}$		
Measuring Time	Prism	Tracking<0.1s, Fine<0.3s		
ivicasuring rime	Sheet	<0.3s		
	Reflectorless	0.3-3s [®]		
At		0.0 0.0		
Atmospheric Correction		Manual Input, Auto Correction		
Prism Constant		Manual Input		
Dist. Unit		Freecale Sensor		
Reading				
Measuring Time		Fine Mode < 0.3s; Tracking Mode < 0.1s		
Atmospheric Correction		Auto Correction		
Prism Constant		Manual Input		
Angle Measurement				
Measurement Metho	d	Absolute Encoding		
Diameter of Absolute Encoding Disk		79mm		
Minimum Reading		0.1" or 1" option		
Accuracy		1" 2" 2"		
Detection Method		Horizontal: 4 path, Vertical: 4 path		
Telescope		Tiorizoniai	. I patrij verticar	, , patir
Image			Erect	
Effective Aperture		48mm		
Magnification		30 X		
Field of View		1° 30'		
Minimum Focusing Distance				
			1.4m	
Automatic Compensar	LOI	D A ' ' '	1	
System Working Pango		Dual-Axis Liquid-electric Sensor Compensation		
Working Range		<u>±4'</u>		
Accuracy		1"		
Sensitivity of Vial				
Plate Vial		30" /2mm		
Circular Vial		8' /2mm		
Laser Plummet (Defau	ılt)			
Accuracy		\pm 1.5mm (in 1.5m InsHt)		
Wave Length		630nm—670nm		
Laser Power			≤0.4mW	
Optical Plummet (Opt	ion)			
Image			Erect	
Magnification		3 X		
Focusing Range		0.5m - ∞		
Field of View		5°		
General				
Operate System		1	Windows CE 6.0	
Processor		Intel PXA310 624Mhz		
		128M DDR, 512M NAND Flash		
Memory		·		
Display		3.5inches LCD Touch Screen 640*480dpi		
Communication		RS-232, Mini USB, USB OTG, SD card Bluetooth V2.0+EDR, 10m range		
		Bluetoot		n range
		WIFI 802.11		
Battery		Rechargeable Lithium Battery		
Voltage		7.4V DC		
Operation Time		6 hours		
Environment		−20°C∼+50°C		
IP Standard		IP55		
Dimension and Weight		196×192×360mm, 6.2kg		
Difficusion and weigh				

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, visibiliity about 40km. Overcast, no scintillation ③ Good conditions. With Koada gray card white side (90%) reflective. sheet size 60*60mm. 400m under good conditions with koada 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



Add: 1111,11th Floor, RG Trade Tower, Plot No.B-7 Netaji Subhash Place, Pitampura, New Delhi-110034 Tel: 011-49995999, Mob: +91-9999999255 Fax: 011-45605999

www.southprecision.in

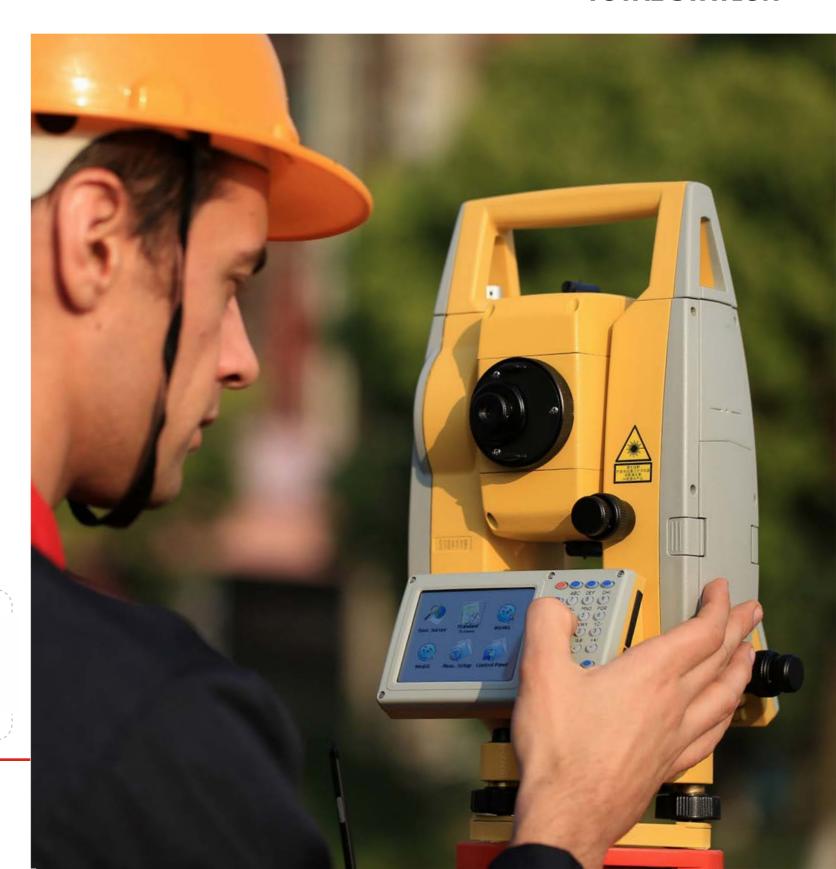
www.southprecision

AHMEDABAD CHENNAI HYDERABAD INDORE KOLKATA MUMBAI



N9/N7 SERIES

TOTAL STATION

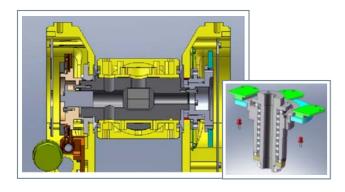




CUSTOMER SERVICE SUPPORT:

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.



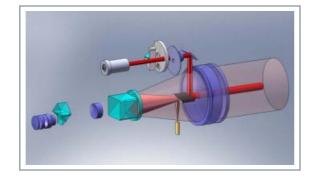
3. Geometry accuracy improve

 Clear 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.
- Circuit 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, Blue tooth standard.
- Ultra measure speed. Fine0.3S, track 0.1s.
- A variety of data transfer options for diverse needs, eg. SD card, mini USB interface.





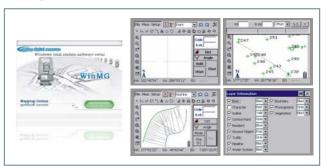
Software

The on-board software including WinEG and WinMG, can afford a complete field-to-office solution. Also Carison SurvCE and MicroSurvey Field Genius are available for N7/N9 series.

WinEG



WinMG



Carlson SurvCE (Optional)



MicroSurvey FieldGenius (Optional)



Applications



Deformation MonitoringApplicable for buildings, underground projects and tunnel monitoring



Tunnel ConstructionUsed 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

