

SPECIFICATIONS

		N70
Distance Measurement		
EDM System		Laser Class 3R ^①
		Wave length: 650 - 690 nm. 150MHz Frequency
Measurement Range	Single Prism ^②	5000m
	Reflective Sheet ^③	1000m
	Reflectorless ^④	1000m
Accuracy	Single Prism	$\pm(1+1\text{ppm}\times D)\text{mm}$ $\pm(2+2\text{ppm}\times D)\text{mm}$
	Reflective Sheet	$\pm(3+2\text{ppm}\times D)\text{mm}$
	Reflectorless	$\pm(3+2\text{ppm}\times D)\text{mm}$ ^⑤
Measuring Time	Prism	Tracking<0.1s, Fine<0.3s
	Sheet	<0.3s
	Reflectorless	0.3-3s ^⑥
Atmospheric Correction		Manual Input, Auto Correction
Prism Constant		Manual Input
Dist. Unit		Freecale Sensor
Minimum Distance Reading		0.1mm / 1mm
Laser Pointer		Coaxial Red light
Reading		
Measuring Time		Fine Mode<0.3s; Tracking Mode<0.1s
Atmospheric Correction		Auto Correction
Prism Constant		Manual Input
Angle Measurement		
Measurement Method		Absolute Encoding
Diameter of Absolute Encoding Disk		79mm
Minimum Reading		0.1" or 1" option
Accuracy		2"
Detection Method		Horizontal: 4 path, Vertical: 4 path
Telescope		
Image		Erect
Effective Aperture		48mm (EDM 50mm)
Magnification / Resolving power		30 X / 3"
Field of View		1° 30'
Minimum Focusing Distance		1.4m
Automatic Compensator		
System		Dual-Axis Liquid-electric Sensor Compensation
Working Range		$\pm 4'$
Accuracy		1"
Sensitivity of Vial		
Plate Vial		30" / 2mm
Circular Vial		10' / 2mm
Laser Plummet		
Accuracy		$\pm 1.5\text{mm}$ (in 1.5m InsHt)
Wave Length		630nm—670nm
Laser Power		$\leq 0.4\text{mW}$
Optical Plummet (Oppon)		
Image		Erect
Magnification		3 X
Focusing Range		0.5m - ∞
Field of View		5°
General		
Operate System		Windows CE 6.0
Processor		Intel PXA310 624Mhz
Memory		128M DDR, 512M NAND Flash
Display		3.5inches LCD Touch Screen 640*480dpi
Communication		RS-232, Min USB, USB OTG, 8GB SD CARD
		Bluetooth V2.0+EDR, 10m range
		WIFI 802.11
Battery		Rechargeable Lithium Batery (x3)
Voltage		7.4V DC
Operation Time		24hours
Environment		-20°C ~ +50°C
IP Standard		IP66
Dimension and Weight		196×192×360mm, 6.2kg

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

N9/N7 SERIES TOTAL STATION



Contact us :

SOUTH
Target your success

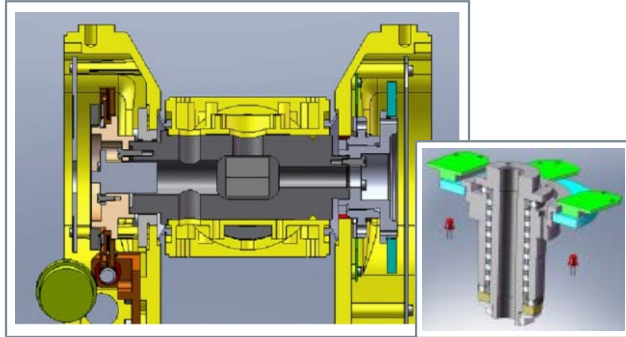
Company : South Instruments Technology Limited
Address : Rm 6K, Blk 2, Kin Ho Ind. Bldg, 14-24 Au Pui Wan St., Shatin, N.T., Hong Kong
Tel : (852) 9293 3993 Fax : (852) 3105 0141 Email : sales@southsurvey.com.hk



Company : YSF Corporation Ltd.
Address : 5A, Blk 1, Kin Ho Ind. Bldg, 20-24 Au Pui Wan St., Fo Tan, Shatin, N.T., Hong Kong
Tel : (852) 8109 8368 Fax : (852) 3007 4857 Email : sales@ysftool.com

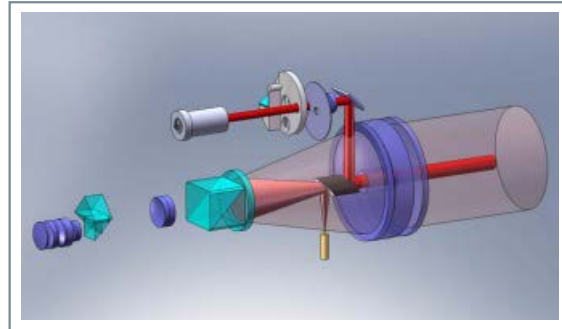
1. Angle measurement accuracy improve

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



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)



3. Geometry accuracy improve

- Clear telescope and high accuracy tribrach system, make sure pointing accuracy.

4. Compensator accuracy improve

- Micro survey tile tolerance by CCD image to compensate.

5. UE (User experience) improvement

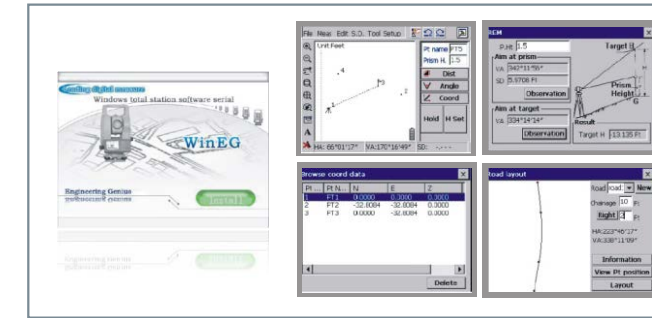
- 640*480 high resolution.3.5 inch display unit. Easy to read under sunshine.
- WIN CE 6.0 OS, blue tooth standard, WIFI, Blue tooth standard.
- Ultra measure speed. Fine0.3S, track 0.1s.
- A variety of data transfer options for diverse needs, eg. SD card, mini USB interface.



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



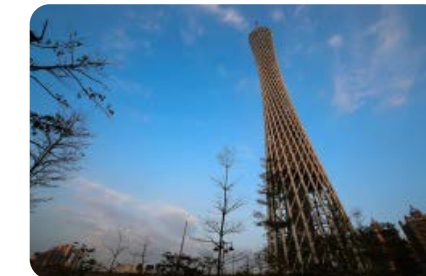
Carlson SurvCE (Optional)



MicroSurvey FieldGenius (Optional)



Applications



Deformation 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

