SPECIFICATIONS

		N3
Distance Measurement		
EDM System		Laser Class 3R①
		Wave legnth: 650 - 690 nm. 70-150 Mhz Frequency
Measurement Range	Single Prism	3500m②
	Reflective Sheet	1200m③
	Reflectorless	600m④
Accuracy	Single Prism	±(2+2ppm×D)mm
	Reflective Sheet	±(3+2ppm×D)mm
	Reflectorless	±(3+2ppm×D)mm⑤
Reading		Max: 99999999.9999m Min:0.1mm
Measuring Time	Prism	Fine Mode<1.3s; Tracking Mode<0.4s; Repeat< 0.2s
	Sheet	<0.3s
	Reflectorless	0.5-3s⑥
Atmosphere, Refraction, Earth Curvature Correctoin		Auto Correct by manual input
Prism Constant		Manual
Dist.Unit		Meter/ US.Feet/International Feet/ Feet-inch optional
Angle Measurement		
Measuring Method		Absolute Encoding
Dia of Encoder Disk		79mm
Minimum Reading		1″
Accuracy		2″
Detection Method		Horizontal: Dual, Vertical Dual
Telescope		
Image		Erect
Tube Length		152mm
Effective Aperture		45mm (EDM:47MM)
Magnification		30X
Field of View		1° 30′
Minimum Focus Distance		1.5m
Resolving Power		3″
Reticle Illumination		Adjustable
Auto Compensator		
System		Dual-Axis Liquid-electric Sensor Compensation
Working Range		±4′
Accuracy		1″
Vial		
Plate Vial		30″ /2mm
Circular Vial		8′ /2mm
Laser Plummet (Default)		
Accuracy		±1.5mm (in 1.5m InsHt)
Wave Length		635nm
Laser Class		Class 2
Optical Plummet (Optional)		
Image		Erect
Magnification		3X
Focusing Range		0.3m - ∞
Field of View		5°
On-board Battery		
Type		Rechargeable Lithium battery
Voltage		7.4V DC
Continuous Operation Time		8 hrs
Others		
IP Standard		IP54
Display		LCD 6 lines, 192*96 Touch screen
Data Communication		RS-232, USB, SD card
Temperature		-20℃～+50 ℃
Dimension and Weight		206×200×353mm, 6.0kg

STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery	2x
Tools pouch	1x
Plummet	1x
SD card	1x
Y type cable	1x
Manual	1x
Warranty card	1x
Charger	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. standard sheet size. 300m 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 100m. When 100m to 200m, 5+2ppm and measurement time maximum less than 5s 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

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http://www.southinstrument.com

SOUTH
Target your success

N3 SERIES
TOTAL STATION

Features

- Superior Waterproof and Dustproof
- 600M Reflectorless EDM
- Absolute Encoding Disk
- Dual-Axis Compensator
- Versatile Application Programs

It makes your working simpler and more productive

3 Best for Use

1 3.0 inches High-resolution Touch Screen

Easy-to-read graphic display combine with ergonomic keypad, which makes your working more convenient under different situations.

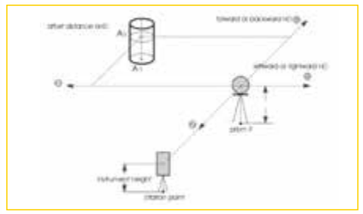
2 Enhanced Encoding Disk

N3 series adopted an absolute encoder system and dual-axis tilt sensor to correct horizontal and vertical angle reading automatically, which realized the stable measurement with less reading error.

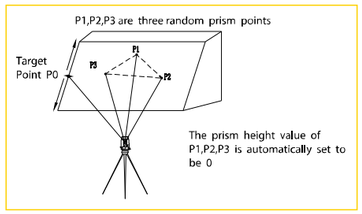
3 Versatile Application Programs

N3 Road program can automatically calculates a complicated curve and a long distance route by defining the initial point, end point and curve parameters. It can also help the surveyor do the measurement and layout based on the route design and deviation.

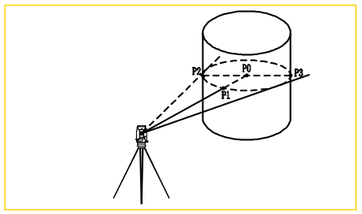
N3 total station carry a variety of application programs, including data collection, stake-out, road calculation,etc.



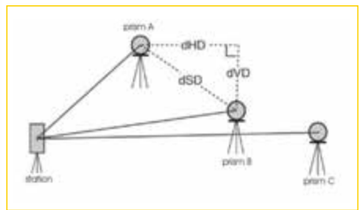
Distance Offset Measurement



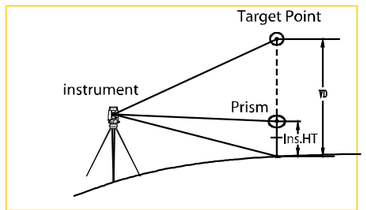
Plane Offset Measurement



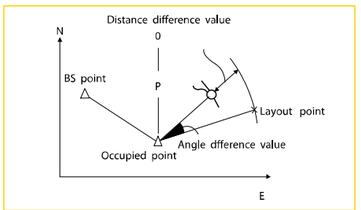
Column Offset Measurement



MLM



REM



Stake-Out