

## SPECIFICATIONS

Distance Measurement ①		
Range	Reflectorless	1000m ②
	Prism	5000m ③
Accuracy	Reflectorless	3+2ppm ④
	Prism	2+2ppm
	Sheet	3+2ppm
Measurement Time	1.3s In Fine 0.2s In Tracking ⑤	
Atmospheric Correction	Manual Input, Auto Correction	
Prism Constant	Manual Input, Auto Correction	
Temperature Correction	Sensor Reading	
Distance Reading	Max:99999999.999m Min:1mm	
Angle Measurement		
Accuracy	2"	
Method	Absolute, Continuous	
Disk Diameter	79mm	
Detection Method	V: Dual, H: Dual	
Angle Reading	Min: 1"	
Telescope		
Image	Erect	
Tube Length	152mm	
Effective Aperture	45mm (EDM 47mm)	
Magnification	30x	
Field Of View	1°30"	
Resolving Power	3"	
Minimum Focus Distance	1.5m	
Reticle Illumination	10 Brightness Levels	
Operation System		
Memory	16000 Points	
Compensator		
System	Liquid, Dual Axis	
Working Range	±6'	
Accuracy	1"	
Plummet		
Laser Plummet (Default)	Accuracy	±1.5mm @1.5m
	Laser Brightness	5 Levels Adjustable
	Wavelength	635nm
	Laser Class	Class 2
Optical Plummet (Optional)	Laser Power	0.5mW
	Image	Erect
	Magnification	3x
	Focusing Range	0.5m ~
Field Of View	5"	
Keyboard And Display		
Keyboard	Alphanumeric 30 Keys	
Display	3.0 Inches, Color Touch TFT	
Resolution	240*400 dpi	
Position	Face 1, Face 2	
Interface		
Data Interface	USB Flash Disk, Bluetooth	
Battery		
Type	Lithium	
Voltage	7.4V	
Operating Time	8 hours	
Vial		
Plate Vial	30"/2mm	
Circular Vial	8'/2mm	
General		
IP Rate	IP54	
Temperature Range	-20°C ~ +50°C	
Dimension	206*200*353mm	
Weight	6.0kg	

Note: all information above is subject to change without any prior notice.

## STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery	2x
Tools pouch	1x
Plummet	1x
Manual	1x
Warranty card	1x
Charger	1x
Reflective sheet	1x
Carry case	1x
Belt	2x

① EN60825-1: 2007, Class laser 3R; Wave Length 650-690nm ② With Kodak gray card (reflective 90%). The reflectorless range and accuracy may vary depending on targets, measuring conditions. ③ Under good conditions: No haze, visibility about 40km. Overcast, no scintillation. ④ Range less than 100m. When measure the target at 100-200m, the accuracy is 5+2ppm, interval less than 5s. ⑤ Typical interval, under good conditions. Range less than 500m. It also depending on the target surface. Maximum interval less than 10s.

## OPTIONAL ACCESSORIES



ATS-2B (Fiberglass)  
NLS-15 Prism Pole  
TK21T Prism Set

You Local Authorized Dealer

**SOUTH**  
Target your success

# N3 Series

## Total Station



**SOUTH**  
Target your success

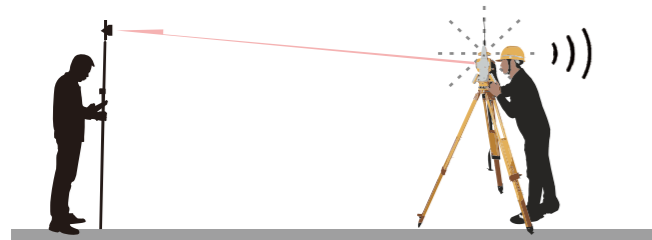
**SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.**  
Add: South Geo-information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China  
<http://www.southinstrument.com>

Version: N3 2.0

## 1000m Reflectorless EDM

**EDM 1000m** ▶ Long-range reflectorless EDM with short interval of measurement, less than 1.3s.

- ▶ Advanced collimation with smaller laser dot provide fast and accurate aiming.



## Easy-to-read Display Unit

**Touch Screen** ▶ 3.0 inches large and high-resolution display provides clear visibility under tough conditions.

- ▶ Keypad are illuminated to minimize mistakes.

## EDM Trigger Key

- ▶ Trigger key allows the operator to get the measurement and record quickly without taking your eye off the telescope.

## One-touch Star Key

- ▶ Star key for instant access to functions or settings.

## Cable-Free Data Transfer

**Bluetooth** ▶ N3 features Class 2, Bluetooth® 2.1+EDR module, it provide a faster and easier connection and data transfer to PC or controller.

- ▶ USB port for convenient data transfer.

## Light but Durable Structure



Newly designed go-through structure allows a durable mechanical performance with light weight.



## User-Friendly Tools



▶ **E-bubble** for easier levelling and station setup under single or dual axis.

- ▶ **LPDM module** on built-in laser plummet is equipped for accurate instrument setup in all conditions. 10 brightness levels are ready for optimum visibility.

## Easy-to-use Onboard System



▶ The intuitive, easy-to-use onboard system guided a fluent workflow with easy-to-understand icons

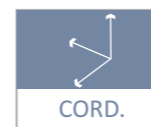
- ▶ N3 ensures a low learning cost when working in the field

## Cost-Effective Choice with Versatile Program

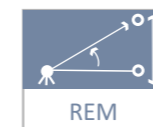


▶ N3 carries a variety of construction and survey application software on board, like Resection, COGO, Height Transfer, Offset, Stake Out and Roads.

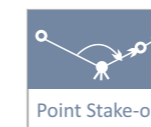
- ▶ Work faster and cheaper than ever.



CORD.



REM



Point Stake-out



Distance Offset



MLM



Resection



Road



Area

## Save Time with Auto Height Measure, Record and Set Its Own Height Automatically.

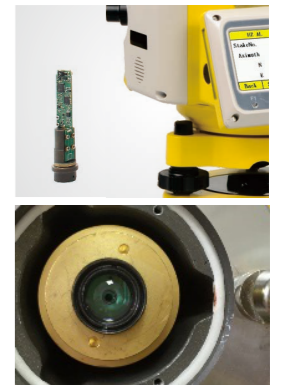


In order to eliminate the errors of manual reading and typing, auto height enables operators to get the instrument height with a simple press.

This revolutionary function is now available in N3 Series total station.

## How Does it Work?

Considering the limitation of space, we added a LPDM module based on our existed laser plummet to provide two functionalities into one part with unique co-axial structure: laser pointer for equipment centering together with the function of auto height measurement.



## What Are The Benefits?

With integrated LPDM module on laser plummet, N3 can minimizes errors and accelerates the setup process onsite.

- Get the instrument height by a simple button press
- Save time and cost by accurate measurement
- No more mistakes from manual operations
- Not necessary to take extra accessory, e.g. tape

