SPECIFICATIONS

Distance Measurement ①		
Range	Reflectorless	1000m ②
	Prism	5000m ③
	Triple Prism	7000m
Accuracy	Reflectorless	3+2ppm
	Prism	2+2ppm
	Sheet	3+2ppm
Measurement Time		1.3s In Fine 0.2s In Tracking ④
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
	Laser Power	0.5mW
Auto Height	Working Range	0.5-3m
	Min. Reading	1mm
	Accuracy	±1.5mm
Optical Plummet (Optional)	Image	Erect
	Magnification	3x
	Focusing Range	0.5m ~
	Field Of View	5"
Guide Light		
Type		LED
Wavelength		Red 635nm/ Yellow 590nm
Effective Range		200m
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*195*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	2x
Battery	2x
Tools pouch	1x
Manual	1x
Charger	1x
Reflective sheet	1x
Carry case	1x
Belt	2x

① EN60825-1: 2014, 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 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 SURVEYING & MAPPING TECHNOLOGY CO., LTD.
Add: South Geo-information Industrial Park, No.39 Si Cheng Rd, Guangzhou, China
http://www.southinstrument.com

SOUTH
Target your success

N3 Series

Total Station

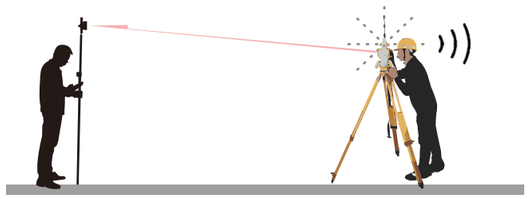
- 2” Accuracy, 1000m Reflectorless EDM
- 3.0 Inch Large and High-resolution Display
- Quick and Easy Trigger Key
- Save Time with Auto Height
- Built-in Guide Light for Stake Out

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.



Red/Yellow Guide Light

Guide Light

- Red and yellow guide light is built into the EDM as a standard feature.
- The guide light is extremely visible and easy to get into the correct direction line, enhancing the work efficiency of stake out in the range of 200m.

Easy-to-Read Display Unit

Touch Screen

- 3.0 inches large and high-resolution display provides a clear visibility under tough conditions.
- Keypad and display unit can be illuminated in both sides.
- One-touch star key for instant access to functions or settings.

Trigger Key

The measurement can be taken at any time with just a single button press by trigger key. You can measure and get the result without taking your eye off the telescope.

Cable-Free Data Transfer

- 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 leveling and station set-up, which correct the horizontal and vertical angle readings automatically among the range of ±6' dual axis.
- **LPDM module** on built-in laser plummet is equipped for accurate instrument setup in all conditions.

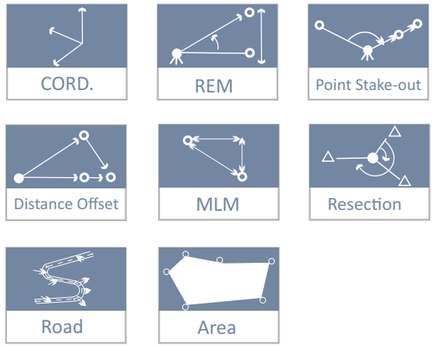
Easy-to-use Onboard System

Speed

- 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.



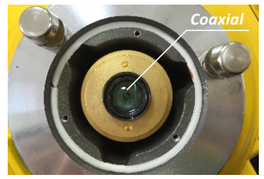
Save Time with Auto Height

Measure, Record and Set Its Own Height Automatically.

In the past, the operator have no choice but to measure the center height by tape and type it into total station by manual. The accuracy of measurement was under the responsibility of the operator with much more uncertainty.

But now, auto height enables the operator the get the instrument height with a simple press.

How Does it Work?



Coaxial Design of Tx/Rx Unit

Considering the limitation of space, we add a LPDM (Laser Plummet Distance Measure) model on the laser plummet to provide two functionalities into one part with unique co-axial structure: laser plummet for equipment centering together with auto instrument height.

After receiving the reflected light from the ground, the LPDM module will calculate the instrument height automatically by it's integrated PCBA board. When activate the auto height, the result will directly applied to the current station.

What Are The Benefits?

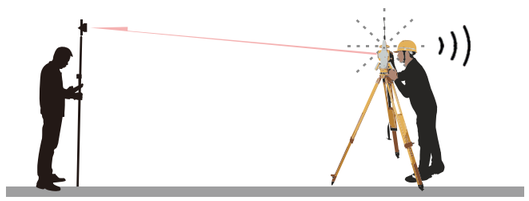
With integrated LPDM module on laser plummet, N3 can minimizes errors and accelerates the setup process onsite.

- 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

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.



Red/Yellow Guide Light

Guide Light

- Red and yellow guide light is built into the EDM as a standard feature.
- The guide light is extremely visible and easy to get into the correct direction line, enhancing the work efficiency of stake out in the range of 200m.

Easy-to-Read Display Unit

Touch Screen

- 3.0 inches large and high-resolution display provides a clear visibility under tough conditions.

- Keypad and display unit can be illuminated in both sides.
- One-touch star key for instant access to functions or settings.

Trigger Key

The measurement can be taken at any time with just a single button press by trigger key. You can measure and get the result without taking your eye off the telescope.

Cable-Free Data Transfer

- 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.

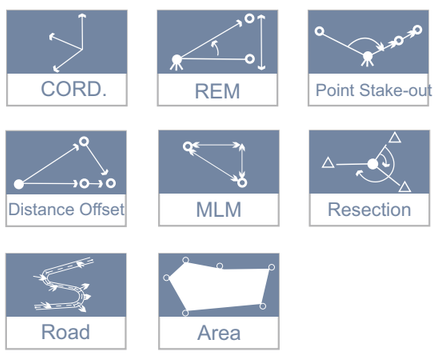
User-Friendly Tools

- E-bubble for easier leveling and station set-up, which correct the horizontal and vertical angle readings automatically among the range of ±6' dual axis.
- LPDM module on built-in laser plummet is equipped for accurate instrument setup in all conditions.

Easy-to-use Onboard System

Speed

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

Cost-Effective Choice with Versatile Program

- N3 carries a variety of construction and survey application software on board, like Resection, COGO,