

# N1 Series

## Android Total Station



**WORLD'S FIRST**  
**Dual Laser EDM**

- Android 6.0 O.S
- Up to 2000m Reflectorless EDM
- Large High-resolution Display
- Cable-free Connection by Bluetooth
- Intuitive On-board Software - Survey Star & Map Star

### SPECIFICATIONS

Distance Measurement with Reflector	Range *1	5000m
	Accuracy	±(2+2ppmxD)mm
	Measure Interval	Fine: 0.3s, Tracking: 0.1s
Distance Measurement without Reflector	Range *2	800/1500/2000m Optional
	Accuracy	±(3+2ppmxD)mm
	Measure Interval	0.3-3s
Angle Measurement	Accuracy	2"
	Measure Method (HZ/V)	Absolute Continuous, Diametrical
	Diameter of Encoder Disk	79mm
	Display Resolution	0.1"
	Compensation	Liquid, Dual Axis Compensation
	Compensator Setting Accuracy	1"
	Compensator Range	±4'
Telescope	Image	Erect
	Tube Length	154mm
	Effective Aperture	45mm (EDM:50mm)
	Magnification	30x
	Resolving Power	3"
	Field of View	1°30"
	Focusing Range	1.2m
	Reticle	Illuminated, 4 Brightness Level
	Vial	Plate Vial
Circular Vial		8'/2mm
Laser Plummet (Default)	Type	Laser Point, 4 Brightness Level
	Accuracy	±1.5mm at 1.5M Instrument Height
	Wavelength	630-670nm
	Laser Class	Class 2 /IEC60825-1
	Laser Power	<0.4mW
Optical Plummet (Optional)	Image	Erect
	Magnification	3x
	Focusing Range	0.5m
	Field of View	5"
	Accuracy	±1.5mm at 1.5M Instrument Height
System Config	Operating System	Android 6.0
	Processor	MT6753
	Internal Memory	RAM: 3GB; ROM: 32GB
Communication	Interfaces	- Serial Port (6-Pin)
		- Micro SIM
		- USB Type C (OTG)
		- TF Card
	Network	2G 900/1800
		3G 2100/900 CDMA B/C TDSCDMA A/F
		4G LTE band1/3/7/38/39/40/41
Bluetooth	Bluetooth 4.0	
WLAN	Dual-Band Single Stream 802.11 a/b/g/n RF for Data Link	
Microphone / Speaker	Available	
Display	Type	TFT LCD Screen, Graphics, 720*1280
Battery	Type	Lithium-Ion, 7.4V
	Operating Time	8 Hours
	Dimension	Size
Environmental	Weight	5.7kgs
	Temperature Range (Operation)	-20°C--+50°C
	Protection	IP55

\*1: Good conditions (good visibility approx.40km, overcast, twilight)

\*2: White objects with high reflectivity (KGC 90%)

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



# MEASURE FARTHER AND FASTER

## World' First! Dual Laser EDM



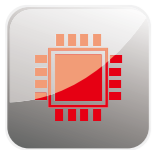
### Dual Laser EDM

- 2000m Non-prism
- Stronger return signal due to its dual laser technology



### Stable Measurement

- Accuracy: 2+2ppm
- Extremely fast (0.3s) speed under fine mode



### Powerful Processor

- 8-Core processor, MT6753, boosts speed and responsiveness



### Coaxial Laser Pointer

- Provided the precise guidance for target aiming



### USB OTG, TF Card & Bluetooth

- Flexible transfer of data via PC or PDA

### WLAN & 4G Module

- Quick access to Internet



### 5.0 Inch Color & Touch Screen

- Built-in high resolution display

### Numerical Keypad

- Faster and easier input of data



### Intelligent O.S

- Android 6.0 O.S
- User friendliness
- Free SDK package for developer



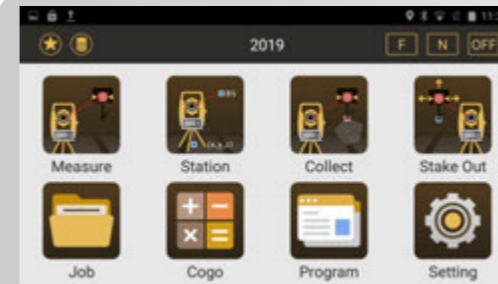
### Intuitive Software

- Graphic guidance, intuitive workflow
- Extra application software for mapping



# WORK EFFICIENTLY

## With N1 On-board Software



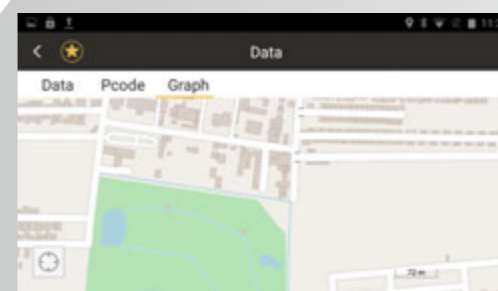
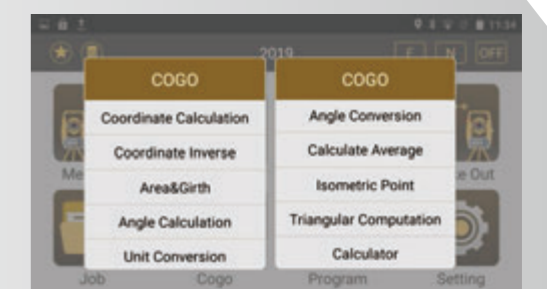
### Iconic User Interface

N1 helps you finish the job efficiently by graphical and iconic guidance. Benefit from the quick access of star-key and toolbar, you can set the PPM, reticle illumination, laser pointer and plummet or check the target, data or electronic sensor quickly in your job.

### Powerful Applications on N1

Easy-to-use due to its high resolution color display and powerful applications. Including but not limited to:

- Resection
- Point to Line
- Survey & Code
- Stake Out
- Reference Line
- Offset
- MLM
- REM
- Radiation
- Area & Volume
- COGO
- Roads



### Data Visualization with Maps

Data visualized due to the graphic display on its downloaded map. Measurement with 2D maps enables the flexible data-checking and job-planning based on the actual position.

## Additional Application ▶▶▶

### Map Star

Integrated the function of digital mapping with measurement, Map Star simplified your outdoor job and realized the efficient mapping on mobile devices instead of PC.

- Graphic guidance with intuitive workflow
- Iconic UI for station set up, mapping, job management
- Toolbar to quickly access the instrument status
- Full library of code, included description and code number
- Draw the objects (points, lines or surfaces) and shapes (square, circle or curve) freely as your wish
- Mark the points with words, pictures or recorded voice
- Generate the digital map automatically, which will largely save your time with superior convenience

