

**NEW** **N40x Series**  
Graphic Total Station



*Visualize Takes You Further*

- Ultra-large, 4.0 inches color touch screen
- Auto instrument height & guide light \*
- Camera for target aiming \*
- Ultra-visualized, boosts your efficiency with graph
- Ultra-flexible, send the data immediately by USB, Bluetooth or even mails



# N40 Series

## N40 Series Total Station

Combined with a wider screen, the new generation N40 total stations are coming with the new-designed onboard system. It is the perfect choice that boost your daily work with those easy-to-use, highly productive and extremely powerful program, which portable for all occasions.

### Ultra-Fast and Advanced Accuracy

- 1" and 2" angle accuracy.
- Fast (0.3s) and accurate (1+1ppm/2+2ppm) for distance.

### Ultra-Durable and Powerful EDM

- Long-range prism (5000m) and non-prism (1500m) measurements.
- Optimized EDM algorithm enables you to finish the job quick and stable.

### Ultra-Visualized Display

- 4.0 inches colour touch screen, contains more information in one page.
- Dual face with backlight.
- Easier entry with numeric keys and fast navigation.
- Quick- access to start key, compensator and customized user keys, which can be opened in any time or in any page.

### Ultra-Convenient with Guide Light, Camera and Auto Instrument Height

- Extremely visible, which largely enhanced your working efficiency.
- Extremely practical, to get the instrument height by a simple button press.

### Ultra-Flexible Data Transfer

- Freely to transfer your data by internal memory, USB stick, Bluetooth and WLAN.
- Even you can send your data to your partner immediately by email/network when your job is finished on site.





## Fully-New Application Onboard

Intuitive onboard application on N40 Series, guided a fluent work flow for your job with easy-to-understand icons and graphics. The fully-new application includes stake out, extensions, COGO, roads, etc.

### Main Menu

Modular and iconic interface design, boosts your efficiency with brilliant readability.



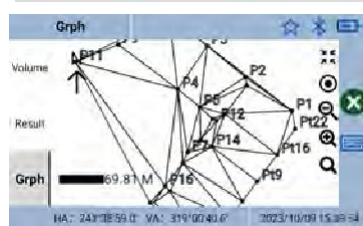
### Basic Measurement

Settings like reflector height, instrument height, station and mode can be easily set in the basic measurement page.



### Graphic Displays

Each measured point can be linked automatically to generate a sketch intuitively and clearly.



### Stake Out

Featured electronic compass, a complete solution for every type of stakeout is included in N40 series total station.



### Easier Settings

The settings are hidden in the tool-bar of the screen. For example, you can click the logo to check the current job, or click the time and date to set the it immediately.

### Quick Code

Codes are available to be recorded by the direct input, quick codes function or the code list. You can saving point descriptions efficiently and conveniently in the filed.

### New COGO

The new Coordinated GeOmetry program on N40 series provides versatile functions like, inverse, traverse, area & girth, volume, intersections, flatness, verticality, 3 points circle, point to line distance and more...

### Road

Design a road easily by elements. With N40 series total station, it's available using road program to stake out the road by chainage, increment and offset.

## SPECIFICATIONS

	N41	N40	
<b>Angle Measurement</b>			
Accuracy	1"	2"	
Measure Method	Absolute Encoding Disk		
Diameter of Encoding Disk	79mm		
Detection Method	Horizontal: 4-path, Vertical: 4-path		
Angle Unit	360°/400gon/6400mil		
Horizontal 0/Vertical 0	V0/H0		
<b>Distance Measurement</b>			
Laser Class	Laser Class 3R①		
Wavelength	685nm		
Distance Unit	m/ft		
EDM System	Basic Frequency 70-150MHz		
Constant K	Auto Correction, K=0.14/0.2		
Prism Constant	Auto Correction		
Atmospheric Correction	Auto Correction		
Accuracy	Prism	1+1ppm	
	Reflective Sheet	3+2ppm	
	Reflectorless	3+2ppm⑤	
Measure Range	Prism ②	Single: 4000m / Triple: 5000m	
	Prism Enhanced	Single: 5000m / Triple: 6000m	
	Reflective Sheet ③	1700m	
	Reflectorless ④	1500m	
Measure Speed	Prism	Single <1.2s, Repeat <0.5s, Tracking <0.25s	
	Reflective Sheet	Single <1.0s, Repeat <0.5s, Tracking <0.25s	
	Reflectorless	Single: 0.5s-3s; Tracking: 0.25s-3s, max. 10s⑥	
<b>Telescope</b>			
Image	Erect		
Magnification	30x		
Effective Aperture	45mm (DTM: 47mm)		
Resolution	3"		
Field of View	1°30'		
Minimum Focus	1.5m		
Tube Length	152mm		
Retical Illumination	Adjustable, 4 Levels		
<b>Vial</b>			
Plate Vial	30"/2mm		
Circular Vial	8'/2mm		
<b>Compensator</b>			
System	Dual-axis Liquid-electric Sensor		
Working Range	±6'		
Resolution	1"		
<b>Plummet</b>			
Laser Plummet	Laser Class	Class 2. Red Laser	
	Wavelength	635nm	
	Power	0.5mW	
	Brightness	Adjustable, 5 Levels	
Auto Height **	Measure Range	0.5m-3m	
	Accuracy	±1.5mm@1.5m	
Optical Plummet	Image	-	Erect
	Magnification	-	3x
	Focusing Range	-	0.3m~∞
	Field of View	-	±4°
<b>Guide Light*</b>			
Type	LED		
Wavelength	Red 635nm / Yellow 590nm		
Effective Distance	200m		
<b>Camera (optional)</b>			
Pixel	780,000	-	
Focal Length	16mm	-	
Sight of View	12.5*11.7 Degree	-	
Refresh Rate	11 Frames/s	-	
Depth of Field	2m-∞	-	
Storage	Jpeg	-	
Digital Zoom	1x, 2x, 3x	-	
White Balance	Auto	-	
Brightness	Auto	-	
<b>Display Unit &amp; Keyboard</b>			
Display Unit	4.0 Inches Color Touch Screen		
Resolution	800*480		
Backlight	Adjustable, 10 Levels		
Keyboard	26 Keys, numeric and functional		
<b>Memory</b>			
Internal Memory	32GB		
Data Transfer	USB 2.0 Type A (Max. 256GB), Micro USB, RS-232, Bluetooth 2.0/4.2, Wi-Fi 802.11a/b/g		
Operating System	On-Board Graphic ANDROID		
<b>Power Supply</b>			
Type	LI-ION Rechargeable Battery		
Voltage	7.4V		
Capacity	3900mAh, 29Wh		
Working Time	20 Hours*		
Charging Time	3 Hours		
<b>Others</b>			
Dust and Water Protection	IP 66		
Working Temperature	-20°C ~ +50°C		
Storage Temperature	-40°C ~ +70°C		
Size	206mm*200mm*353mm		
Weight	6kg		

## STANDARD PACKING LIST

Main Unit	1x
Lens Cover	1x
Battery	2x
Charger & Adapter	1x
Reflective Sheet	1x
Rain Cover Micro	1x
USB Cable Tools	1x
Kit	1x
Carry Case	1x
Belt	2x

①EN60825-1: 2007 ②Good conditions: No haze, visibility about 40km. Overcast, no scintillation  
 ③Good conditions. With Koda gray card white side (90%) reflective. standard sheet size. 300m under good conditions with koda gray card grey side (18%).  
 ④With Kodak gray card white side (90%) reflective. Reflectorless range /accuracy may vary according to measuring objects, observation situations and environmental conditions ⑤Range less than 200m. When the measure range is over 200m, the accuracy will be 5+2ppm. ⑥Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10s.

\*1: Available on N41, N40X total station  
 \*2: Available on N41I total station

## OPTIONAL ACCESSORIES



ATS-2B Fiberglass Tripod  
 NLS-15 Prism Pole  
 TK21T Prism Set

You Local Authorized Dealer

**SOUTH**  
 Target your success

SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.  
 Telephone- 011-49995999, Mobile- +91-9999999255  
 Location: 1111,11th Floor, RG Trade Tower Plot No. B-7.Netaji Subhash Place Pitampura New Delhi -110034  
 Email: india@southprecision.in