

NEW N40 Series

Graphic Total Station



Visualize Takes You Further

- Ultra-large, 4.0 inches color touch screen
- Auto instrument height & guide light *1
- Camera for target aiming *2
- Ultra-visualized, boosts your efficiency with graph
- Ultra-flexible, send the data immediately by USB, Bluetooth or even mails





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

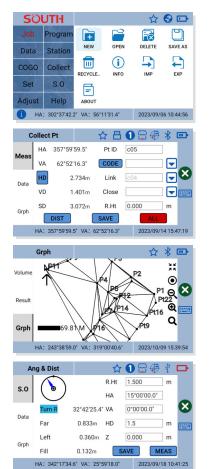
Settings like reflector height, instrument height, station and mode can be easily set in the basic measurement page.

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	
Angle Measurem	ent	1"	2"	
Accuracy Measure Method				
Diatmeter of Encoding Disk			Absolute Encoding Disk 79mm	
Detection Method			Horizontal: 4-path, Vertical: 4-path	
Angle Unit			360°/400gon/6400mil	
Horizontal O/Vertical O			V0/H0	
Distance Measure	ement			
Laser Class		Laser Class 3R _①		
Wavelength Distance Unit		685nm		
EDM System		·	m/ft Basic Frequency 70-150MHz	
Constant K		Auto Correction, K=0.14/0.2		
Prism Constant		Auto Correction		
Atmosperic Corre		Auto Co		
A	Prism	1+1ppm	2+2ppm	
Accuracy	Reflective Sheet Reflectorless	3+2 ₁		
Measure Rang	Prism ②	3+2ppm⊕ Single: 4000m / Triple: 5000m		
	Prism Enhanced	Single: 5000m / Triple: 6000m		
	Reflectorless 3	1500m		
	Prism	Single <1.2s, Repeat <0.5s, Tracking <0.25s		
Meaasure Speed	Reflective Sheet	Single < 1.0s, Repeat < 0.5s, Tracking < 0.25s		
Telescope	Reflectorless	Single: 0.5s-3s; Tracking: 0.25s-3s, max. 10s ®		
Image		Ere	ct	
Magnifcation		30x		
Effective Aperture		45mm (DTM: 47mm)		
Resolution		3"		
Field of View		1°30'		
Minimum Focus Tube Length		1.5 152n	**	
Retical Illumination	on .	Adjustable		
Vial		,,		
Plate Vial				
Circular Vial		8'/2r	8'/2mm	
Compensator		Dual avis Hamild also this C		
System Working Range		±6	Dual-axis Liquid-electric Sensor	
Resolution		1"		
Plummet				
	Laser Class	Class 2. Re		
Laser Plummet	Wavelength	635nm		
	Power Brightness	0.5mW Adjustable, 5 Levels		
	Measure Range	0.5m-		
Auto Height *1*2	Accuracy	±1.5mm@1.5m		
	Image	-	Erect	
Optical Plummet	Magnifcation	-	3x	
	Focusing Range	-	0.3m~∞	
Guide Light*1	Field of View	-	±4°	
Туре		LEI)	
Wavelength		Red 635nm / Yellow 590nm		
Effective Distance		200m		
Camera*2		700,000		
Pixel Focal Length		780,000 16mm	-	
Sight of View		15mm 12.5*11.7 Degree	<u> </u>	
Refresh Rate		11 Frames/s	-	
Depth of Field		2m-∞	-	
Storage		Jpeg	<u>-</u>	
Digital Zoom		1x, 2x, 3x	<u>-</u>	
White Balance Brightness		Auto Auto	<u>-</u> -	
Display Unit & Ke	vboard	Auto		
Display Unit		4.0 Inches Color Touch Screen		
Display Unit	,	4.0 miches color	800*480	
Display Unit Resolution		800*		
Resolution Backlight	,	800* Adjustable,	10 Levels	
Resolution Backlight Keyboard	,	800*	10 Levels	
Resolution Backlight Keyboard Memory		800*. Adjustable, 26 Keys, numeric	10 Levels and functional	
Resolution Backlight Keyboard		800*. Adjustable, 26 Keys, numerio	10 Levels and functional	
Resolution Backlight Keyboard Memory Internal Memory		800*. Adjustable, 26 Keys, numeric	10 Levels and functional BB GB) , Micro USB, RS-232,	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply		800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256) Bluetooth 2.0/4.2, N	10 Levels and functional BB GB), Micro USB, RS-232, Ni-Fi 802.11a/b/g	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type		800*. Adjustable, 26 Keys, numeric 1660 USB 2.0 Type A (Max. 2566 Bluetooth 2.0/4.2, N	10 Levels and functional BB GB), Micro USB, RS-232, Wi-Fi 802.11a/b/g eable Battery	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage		800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256) Bluetooth 2.0/4.2, \ LI-ION Recharg 7.4	10 Levels and functional BB GB) , Micro USB, RS-232, Ni-Fi 802.11a/b/g eable Battery	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage Capacity		800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256) Bluetooth 2.0/4.2, V LI-ION Recharg 7.4 3900mAh	10 Levels and functional BB GB), Micro USB, RS-232, Ni-Fi 802.11a/b/g eable Battery V 1, 29Wh	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage Capacity Working Time		800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256) Bluetooth 2.0/4.2, \ LI-ION Recharg 7.4	10 Levels and functional iB GB), Micro USB, RS-232, Wi-Fi 802.11a/b/g eable Battery V J, 29Wh burs	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage Capacity		800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256) Bluetooth 2.0/4.2, N LI-ION Recharg 7.4 3900mAh	10 Levels and functional iB GB), Micro USB, RS-232, Wi-Fi 802.11a/b/g eable Battery V J, 29Wh burs	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage Capacity Working Time Charging Time Others Working Tempera	ture	800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256 Bluetooth 2.0/4.2, V LI-ION Recharg 7.4 3900mAh 10 Hc 3 Ho	10 Levels and functional BB GB), Micro USB, RS-232, Wi-Fi 802.11a/b/g eable Battery V V, 29Wh burs urs + 50°C	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage Capacity Working Time Others Working Tempera Storage Temperat	ture	800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256 Bluetooth 2.0/4.2, V LI-ION Recharg 7.4 3900mAh 10 Hc 3 Ho -20°C~ -40°C~	10 Levels and functional BB GB), Micro USB, RS-232, Wi-Fi 802.11a/b/g eable Battery V V, 29Wh surs urs + 50°C + 70°C	
Resolution Backlight Keyboard Memory Internal Memory Data Transfer Power Supply Type Voltage Capacity Working Time Others Working Tempera	ture	800*. Adjustable, 26 Keys, numeric 166 USB 2.0 Type A (Max. 256 Bluetooth 2.0/4.2, V LI-ION Recharg 7.4 3900mAh 10 Hc 3 Ho	10 Levels and functional BB GB), Micro USB, RS-232, Ni-Fi 802.11a/b/g eable Battery V , 29Wh burs urs + 50°C - 70°C mm*353mm	

STANDARD PACKING LIST

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

①EN60825-1: 2007 ②Good conditions: No haze, visibiliity about 40km. Overcast, no scintillation ③With Kodak gray card white side (90%) reflective. Reflectorless range /accuracy may vary according to measuring objects, observation situations and environmental conditions ④Range less than 200m. When the measure range is over 200m, the accuracy will be 5+2ppm. ⑤Typical, 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.

E-mail: mail@southsurvey.com http://www.southinstrument.com