





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 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 (1000m) 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

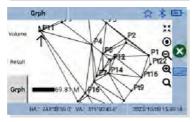
Each measured point can be linked automatically to generate a sketch intuitively and clearly.

Stake Out

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

SOUTH					
	Program	F		1	۳
Data	Station	NEW	OPEN	DELETE	SAVE AS
C060	Collect	RECYCLE	INFO		EXP
Set	5.0	Ē			
Adjust	Help	ABOUT			
() HA: 302'3742.2' VA: 56'11'31.4'			2023/09/06 10:44:56		

C	ollect	Pt	合日	08	≓* ■
Meas	НА	357*59'59.5*	Pt ID	c05	
	VA	62'52'16 3"	CODE	1	
Data	HD	2,734m	Link	(c0-)	
1/010	VD	1.401m	Close	L.	
Grph	SD	3.072m	R.Ht	0.000	m
-athin		DIST	SAVE		1
	HA: S	157"59 59.5" VA:	62*5216.3*	2623/1	39/14 15:47:19





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

Size

Weight

		N41	N40			
Angle Measurem	ent		- 1			
Accuracy		1"	2"			
Measure Method		Absolute Enco				
Diatmeter of Enco	-	79mm Horizontal: 4-path X				
Detection Method Angle Unit		Horizontal: 4-path, \ 360°/400gon/	6400mil			
Horizontal 0/Verti	ical 0					
Distance Measure						
Laser Class		Laser Class	3R1			
Wavelength		685nm	1			
Distance Unit		m/ft				
EDM System		Basic Frequency 70-150MHz				
Constant K		Auto Correction, K=0.14/0.2				
Prism Constant		Auto Corre				
Atmosperic Corre	Prism	Auto Corre	2+2ppm			
Accuracy	Reflective Sheet	1+1ppm 3+2ppr				
Accuracy	Reflectorless	3+2ppm 3+2ppm				
	Prism ②	Single: 4000m / Ti				
	Prism Enhanced	Single: 5000m / Ti				
Measure Range	Reflective Sheet 3	1200m				
	Reflectorless ④	1000m				
	Prism	Single <1.2s, Repeat <0.				
Meaasure Speed	Reflective Sheet	Single <1.0s, Repeat <0.	5s, Tracking <0.25s			
	Reflectorless	Single: 0.5s-3s; Tracking: 0.25s-3s, max. 10s 6				
Геlescope		-				
mage		Erect				
Magnifcation Effective Aperture		30x 45mm (DTM: 47mm)				
Resolution		45mm (DTM):	+, mm)			
Field of View		3 1°30'				
Minimum Focus		1.5m				
Tube Length		1.5m				
Retical Illuminatio	n	Adjustable, 4				
Vial						
Plate Vial		30"/2mr				
Circular Vial		8'/2mm				
Compensator						
System		Dual-axis Liquid-ele	ctric Sensor			
Working Range		±6′				
Resolution Plummet		1"				
runnet	Laser Class	Class 2. Red	Laser			
	Wavelength	635nm				
Laser Plummet	Power	0.5mW				
	Brightness	Adjustable, 5 Levels				
Auto Height **	Measure Range	0.5m-3n	า			
nato neight	Accuracy	±1.5mm@1	-			
	Image	-	Erect			
Optical Plummet	Magnifcation	-	3x			
	Focusing Range	-	0.3m~∞			
0	Field of View	-	±4°			
Guide Light* Type		LED				
Vavelength		Red 635nm / Yello	w 590nm			
Effective Distance		200m				
Camera (optional)						
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 1x, 2x, 3x				
Digital Zoom White Balance		Auto				
Brightness		Auto	-			
Display Unit & Ke	yboard	Auto				
Display Unit		4.0 Inches Color To	ouch Screen			
Resolution		800*480				
Backlight		Adjustable, 10 Levels				
Keyboard		26 Keys, numeric ar				
Memory						
nternal Memory		16GB				
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			
Power Supply			L D			
Type		LI-ION Rechargeab	Die Battery			
Voltage			7.4V			
Capacity Warking Time		3900mAh, 29Wh 20 Hours*				
Working Time Charging Time		20 Hours 3 Hours				
Others		3 Hours				
Dust and Water P	rotection	IP 66				
Norking Tempera			0°C			
Storage Temperat		-40°C ~ + 7				
Size						

206mm*200mm*353mm

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, visibiliity about 40km. Overcast, no scintillation ③Good conditions. With Koada gray card white side (90%) reflective. standard sheet size. 300m under good conditions with koada 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. E-mail: mail@southsurvey.com http://www.southinstrument.com