

# **NEW N40 Series**

**High-Precision 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**

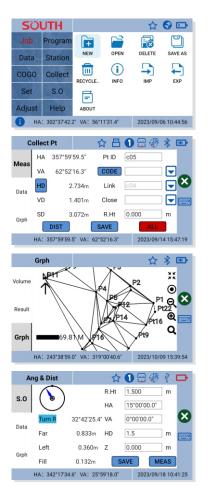
Settings like reflector height, instrument height, station and mode can be easily set in the basic measurement page.

#### **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	
Accuracy		1" 2"
Measure Method		Absolute Encoding Disk
Diatmeter of Encoding Disk		79mm
Detection Method	d c	Horizontal: 4-path, Vertical: 4-path
Angle Unit		360°/400gon/6400mil
Horizontal 0/Verti		V0/H0
Distance Measure	ement	Lasar Class 2D 🔾
Laser Class		Laser Class 3R①
Wavelength		685nm m/ft
Distance Unit EDM System		Basic Frequency 70-150MHz
Constant K		Auto Correction, K=0.14/0.2
Prism Constant		Auto Correction, K=0.14/0.2
Atmosperic Corre	ction	Auto Correction  Auto Correction
Atmosperie corre	Prism	1+1ppm 2+2ppm
Accuracy	Reflective Sheet	3+2ppm
, 10001.00	Reflectorless	3+2ppm④
	Prism ②	Single: 4000m / Triple: 5000m
Measure Rang	Prism Enhanced	Single: 5000m / Triple: 6000m
	Reflectorless ③	1500m
	Prism	Single <1.0s, Repeat <0.25s, Tracking 0.1s
Meaasure Speed	Reflective Sheet	Single <1.0s, Repeat <0.25s, Tracking 0.1s
·	Reflectorless	Single <1.0s, Repeat <0.25s, Tracking 0.1s   §
Telescope		
lmage .		Erect
Magnifcation		30x
Effective Aperture	<u> </u>	45mm (DTM: 47mm)
Resolution		3"
Field of View		1°30'
Minimum Focus		1.5m
Tube Length		152mm
Retical Illumination	n	Adjustable, 4 Levels
Vial		
Plate Vial		30"/2mm
Circular Vial		8'/2mm
Compensator		
System		Dual-axis Liquid-electric Sensor
Working Range Resolution		±6′ 
Plummet		1
Tullinet	Laser Class	Class 2. Red Laser
_	Wavelength	635nm
Laser Plummet	Power	0.5mW
aser Plummet	Brightness	Adjustable, 5 Levels
\u+o Uoigh+ *1*2	Measure Range	0.5m-3m
Auto Height *1*2	Accuracy	±1.5mm@1.5m
	Image	Erect
	Magnifcation	3x
Optical Plummet	Focusing Range	0.3m~∞
	Field of View	±4°
Guide Light*1		
Туре		LED
Wavelength		Red 635nm / Yellow 590nm
Effective Distance	:	200m
Camera*2		
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
Display Unit & Ke	ypoard	401-1-01-7-10
Display Unit		4.0 Inches Color Touch Screen
Resolution		800*480
Backlight		Adjustable, 10 Levels 26 Keys, numeric and functional
Keyboard		zο κeys, numeric and functional
Memory		2200
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
Daws Com.		
Power Supply		II ION Decker-relie D. ()
Туре		LI-ION Rechargeable Battery
Type Voltage		7.4V
Type Voltage Capacity		7.4V 3900mAh, 29Wh
Type Voltage Capacity Working Time		7.4V 3900mAh, 29Wh 8 Hours
Type Voltage Capacity Working Time Charging Time		7.4V 3900mAh, 29Wh
Type Voltage Capacity Working Time Charging Time Others		7.4V 3900mAh, 29Wh 8 Hours 3 Hours
Type Voltage Capacity Working Time Charging Time Others Working Tempera		7.4V 3900mAh, 29Wh 8 Hours 3 Hours -20°C~+50°C
Type Voltage Capacity Working Time Charging Time Others Working Tempera Storage Temperat		7.4V 3900mAh, 29Wh 8 Hours 3 Hours -20°C~+50°C -40°C~+70°C
Type Voltage Capacity Working Time Charging Time Others Working Tempera Storage Temperat Size		7.4V 3900mAh, 29Wh 8 Hours 3 Hours  -20°C~+50°C -40°C~+70°C 206mm*200mm*353mm
Type Voltage Capacity Working Time Charging Time Others Working Tempera Storage Temperat		7.4V 3900mAh, 29Wh 8 Hours 3 Hours -20°C~+50°C -40°C~+70°C

#### 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 ④Rangelessthan300m. Whenthemeasurementrangeisbetween300-600 meters,theaccuracywillbe5+2ppm,andwhenthe distanceisgreaterthan600m,theaccuracywillbe10+2ppm.⑤Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10s

- \*1: Available on N41, N40 total station \*
- 2: Available on N41I total station

#### **OPTIONAL ACCESSORIES**





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

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