

SPECIFICATIONS

	N41	N40	N4
Distance Measurement			
Max. Range	Reflectorless	1000m	600m
	1 Prism	3.5km/ under good condition 4.0km	
	3 Prism	5.0km	
	Mini Prism	800m	
	Sheet	1.2km	
Accuracy	Reflectorless	$\pm(3+2\text{ppm}\times D)$ mm	
	Reflector	$\pm(1+1\text{ppm}\times D)$ mm	$\pm(2+2\text{ppm}\times D)$ mm
Reading	Maximum: 9999999.999m; Minimum: 1mm		
Measuring Time	Fine Mode: <1.2s; Tracking Mode: <0.3s; Repeat: <0.7s		
Atmospheric Correction	Auto Correction		
Prism Constant	Auto Correction		
Angle Measurement			
Measurement Method	Absolute Encoding		
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)	79mm		
Minimum Reading	0.1" / 1" Optional		
Accuracy ISO 17123-3	1"	2"	
Detection Method	Horizontal: Dual	Vertical: Dual	
Telescope			
Image	Erect		
Length	152mm		
Effective Aperture	45mm, (DTM: 47mm)		
Magnification	30 X		
Field of View	1° 30'		
Minimum Focus	3"		
Minimum Focussing Distance	1.3m		
Reticle Illumination	Adjustable		
Automatic Compensator			
System	Dual Axis Liquid-electric Sensor Compensation		
Working Range	$\pm 6'$		
Accuracy	1"		
Sensitivity of Vial			
Plate Vial	30" / 2mm		
Circular Vial	8' / 2mm		
Optical Plummet			
Image	Erect		
Magnification	3 X		
Focusing Range	0.3m~∞		
Field of View	5°		
Laser plummet (optional)	5 levels adjustable		
Camera (Optional)			
Pixel	780000		
Focal length	16mm		
Field of view	12.5×11.7 degree		
Refresh rate	11 frames/s		
Deep of field	2m - ∞		
Digital zoom	1 X, 2 X, 3 X		
White balance	Automatic		
General			
Display	3.5 inches LCD, 320×240 dpi Touch Screen backlight, contrast adjustment		
Keyboard	Alphanumeric Keyboard/ 30 keys with backlight		
EDM Trigger Key	Quick Measure Key located on side cover		
Laser pointer	Easy to find target		
Guide light (optional)	Indicates correct position fast and easy		
Bluetooth	Easier way to transfer data and connect with controller		
Communication			
SD card	Supportable		
Serial I/F Port	USB flash disk/ RS-232C/ USB Mini-B/ SD card/ BLUETOOTH		
On-board Battery			
Power Supply	Rechargeable Lithium Battery		
Voltage	7.4 V dc		
Operating Time	Operating Period with Single Angle and Measurement every 30 seconds 8 hours		
Physical			
Dimension	L206×W200×H353 mm		
Weight(without battery)	6Kg		
IP Standard	IP54		
Data Storage	Internal Memory	98M, ready for 833,000 data blocks	
	External Memory	SD Card 8GB, ready for approx. 34,000,000 data blocks 8G USB Flash disk, ready for approx. 68,000,000 data blocks	
Working Temperature	-20℃—50℃		

ACCESSORIES



SOUTH
Target your success

N4 Series TOTAL STATION



SOUTH
Target your success

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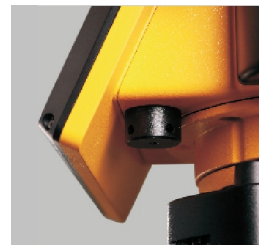
KEY FEATURES



Bluetooth 4.0



Data transfer and storage
Flash disk and SD card,
Mini USB.



T-P sensor, automatic correction



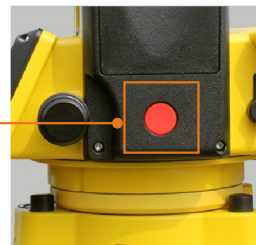
Concentrated ball bearing
Solve axis jam, more stable and
reliable.



Camera Optional for N40/N41



1000m/600m reflectorless EDM
Laser pointer, easy to find target



EDM Trigger Key
Special design for quick
measurement

Control panel with high resolution
touch screen

Back-lights keypad with 3.5 inch colorful
LCD touch screen, display for easy viewing
of graphics and operations.
Active screen back-light technology



HD
Display



T/P
Sensor



4-probe
Encoding



Dual
Compensation



Laser
Plummet



Bluetooth

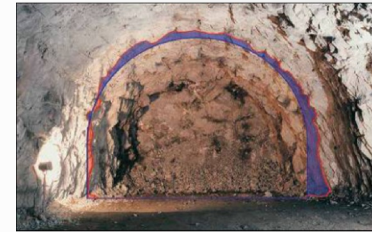


SD
Storage



USB
Interface

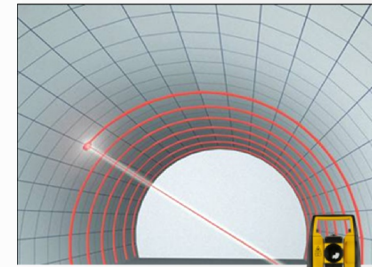
TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction



Reflectorless Cross-section Measurement



Program optional for N4 Series

Powerful

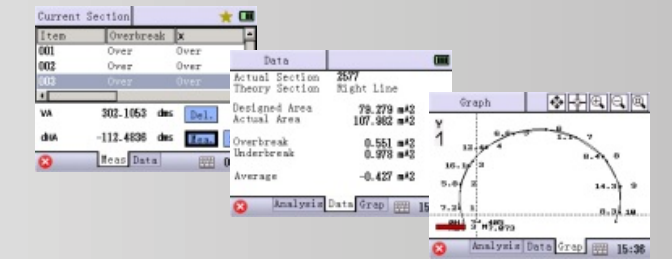
- Integrated the Random detection of overbreak & underbreak, Excavation contour line lofting, Cross-section measurement, Points & lines lay-out and Data processing as a whole

Simplify

- One-key operation to finish the data seamless transform among modules

Precise

- Millimeter accuracy ensured by considering various plane curve and vertical curve, contour shape and tunnel interface in same time



CONTROLLER



Powerful application platform

- Increase efficiency with data controller

Combine with different kinds of fieldwork software

- EGStar, Field Genius, etc.

