SPECIFICATIONS

		N41	N40
Distance Measurement			
EDM System		Laser Class 3R ①	
		Wave length: 650 - 690 nm. 70-150 Mhz Frequency	
Measurement Range 1 Prism ②		3500m	4000m
	3 Prism	5000m	
	Mini Prism	800m	
	Reflective Sheet ③	1200m	
	Reflectorless ④	1000m	1000m
Accuracy	Single Prism	$\pm(1+1ppm\times D)$ mm	$\pm(2+2ppm\times D)$ mm
	Reflective Sheet	$\pm(3+2ppm\times D)$ mm	
	Reflectorless	$\pm(3+2ppm\times D)$ mm ⑤	
Reading		Maximum: 99999999.999m; Minimum: 1mm	
Measuring Time	Single Prism	Fine Mode<1.3s; Tracking Mode<0.4s; Repeat< 0.2s	
	Reflective Sheet	<0.3s	
	Reflectorless	0.5-3s ⑥	
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: 4 path	Horizontal: Dual
		Vertical: 4 path	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		1.5m	
Reticle Illumination		Adjustable	
Automatic Compensator			
System		Dual Axis Liquid-electric Sensor Compensation	
Working Range		$\pm4'$	
Accuracy		1″	
Sensitivity of Vial			
Plate Vial		30″ / 2mm	
Circular Vial		8′ / 2mm	
Laser Plummet (Default)			
Accuracy		1.5mm (in 1.5m InsHt)	
Wave Length		635nm	
Laser Class		Class 2	
Optical Plummet (Optional)			
Image		Erect	
Magnification		3X	
Focusing Range		0.3m - ∞	
Field of View		5°	
Camera (Optional)			
		780000 pixe, 16mm focal length, 11 frames/s refresh rate,	
		2m -∞ deep of field, 3 X digital zoom, Automatic white balance	
General			
Display		Two 3.5-inch LCD graphic display, 320 x 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		8 hrs	
Physical			
IP Standard		IP54	
Data Storage	Internal Memory	98M, ready for 833,000 points	
	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		$-20℃\sim+50℃$	
Dimension and Weight		206×200×353 mm, 6.0Kg	

STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery	2x
Tools pouch	1x
Plummet	1x
SD card	1x
Y type cable	1x
Manual	1x
Warranty card	1x
Charger	1x
Reflective sheet	1x
Carry case	1x
Belt	2x
Mini USB cable	1x

①EN60825-1: 2007 ②Good conditions: No haze, visibiliity about 40km. Overcast, no scintillation ③ Good 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 100m. When 100m to 200m, 5+2ppm and measurement time maximum less than 5s ⑥Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10s

OPTIONAL ACCESSORIES

ATS-2 Wooden Tripod
NLS-15 Prism Pole
TK21T Prism Set

You Local Authorized Dealer

SOUTH
Target your success

N4 Series
TOTAL STATION

KEY FEATURES

Bluetooth 4.0

Data transfer and storage
Flash disk and SD card,
Mini USB.
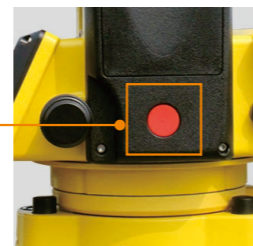
T-P sensor, automatic correction

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

Coordinates
V : 163° 21' 45"
HR : 273° 42' 28"
N :
E :
Z :
Angle Dist XYZ

Meas Mon
R.Ht Lineu
Stn

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.
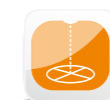Active screen back-light technology

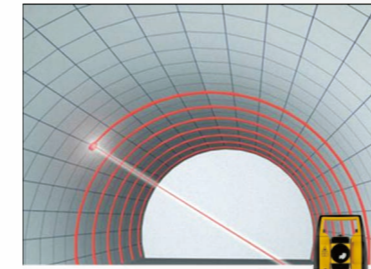| HD Display | T/P Sensor | 4-probe Encoding | Dual Compensation | Laser Plummet | Bluetooth | SD Storage | USB Interface |

TUNNEL MEASUREMENT

Overbreak & Underbreak

Restoration Construction

Reflectorless Cross-section Measurement
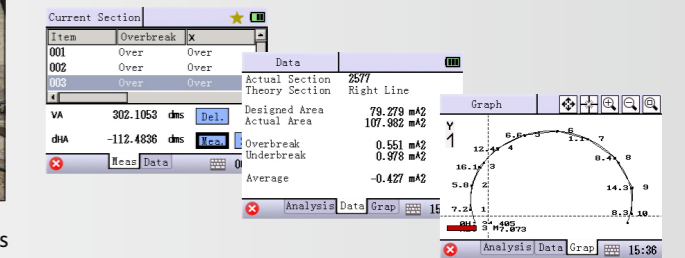

Program optional for N4 Series

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
• SURVCE, Field Genius, etc.

Bluetooth™