## **SPECIFICATIONS**

		N41	N40
Distance Measurement			22(1)
EDM System		Laser Class	
		Wave legnth: 650 - 690 nm. 7	
Measurement Rang		3500m	4000m
	3 Prism	5000m 800m 1200m	
	Mini Prism		
	Reflective Sheet <sup>3</sup>		
	Reflectorless 4	1000m	1000m
_	Single Prism	$\pm$ (1 $+$ 1ppm $\times$ D) mm	$\pm$ (2 $\pm$ 2ppm $\times$ D) mm
Accuracy	Reflective Sheet	±(2+2ppm)	
	Reflectorless	±(2+2ppm×	
Reading	Neticetoriess	Maximum: 99999999999999999999999999999999999	
ŭ	Single Prism		
Measuring Time	Reflective Sheet	Fine Mode<1.3s; Tracking Mode<0.4s; Repeat< 0.2s	
		<0.3s	
Reflectorless		0.5-3s <sup>®</sup>	
Atmospheric Correction		Auto Correction	
Prism Constant		Auto Correction	
Angle Measuremer	it		
Measurement Method		Absolute Encoding	
Diameter of the A		70	
Encoding Disk (Ho	orizontal/Vertical)	79mm	
Minimum Reading		0.1" / 1" 0	ptional
Accuracy ISO 1712	!3-3	1"	2"
Detection Method		Horizontal: 4 path	Horizontal: Dual
		Vertical: 4 path	Vertical: Dual
Telescope			. S. Cour. Duai
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 Compen	sator		
System		Dual Axis Liquid-electric Sensor Compensation	
Working Range		$\pm$ 4 $^{\prime}$	
Accuracy		1"	
Sensitivity of Vial			
Plate Vial		30″ / 2mm	
Circular Vial		8′ / 2mm	
Laser Plummet (De	fault)		
Accuracy		1.5mm (in 1.5r	m InsHt)
Wave Length		1.5mm (in 1.5m InsHt) 635nm	
Laser Class		Class 2	
	antional)	Class 2	
Optical Plummet (C	peronar)		
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 zoo	m, Automatic white balanc
General			
Display		Two 3.5-inch LCD graphic display,	320 x 240 dpi touch-screer
		backlight, contrast	
Keyboard			
		Alphanumeric Keyboard/ 30 keys with backlight  Ouick Measure Key located on side cover	
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	
	,	Easier way to transfer data and connect with controller	
Bluetooth			
Bluetooth Auto height(optiona		Get instrument heigh	
Bluetooth Auto height(optiona Communication		Get instrument heigh	t automatically
Bluetooth Auto height(optiona <mark>Communication</mark> SD card		Get instrument heigh	at automatically ble
Bluetooth Auto height(optiona <mark>Communication</mark> SD card		Get instrument heigh	at automatically ble
Bluetooth Auto height(optiona <mark>Communication</mark> SD card Serial I/F Port		Get instrument heigh	at automatically ble
Bluetooth Auto height(optiona Communication SD card Serial I/F Port On-board Battery		Get instrument heigh	ble ni-B/SD card/Bluetooth
Bluetooth Auto height(optiona Communication SD card Serial I/F Port On-board Battery Power Supply		Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi	ble ni-B/ SD card/ Bluetooth
Bluetooth Auto height(optiona Communication SD card Serial I/F Port On-board Battery Power Supply Voltage		Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith	ble ni-B/ SD card/ Bluetooth
Bluetooth Auto height(optiona Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time		Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D	ble ni-B/ SD card/ Bluetooth
Bluetooth Auto height(optional Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical		Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D 8 hrs	ble ni-B/ SD card/ Bluetooth
Bluetooth Auto height(optional Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical	al)	Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D 8 hrs	ble ni-B/SD card/ Bluetooth sium Battery
Bluetooth Auto height(optional Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard		Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D 8 hrs IP54 98M, ready for 833	ble ni-B/SD card/ Bluetooth nium Battery C
Bluetooth Auto height(optional Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard	al)	Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D 8 hrs IP54 98M, ready for 833 SD Card 8GB, ready for approx	ble ni-B/SD card/ Bluetooth nium Battery oC  8,000 points . 34,000,000 data blocks
Bluetooth Auto height(optional Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard Data Storage	Internal Memory External Memory	Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D 8 hrs  IP54 98M, ready for 833 SD Card 8GB, ready for approx 8G USB Flash disk, ready for approx	ble ni-B/SD card/ Bluetooth nium Battery C  3,000 points . 34,000,000 data blocks ox. 68,000,000 data blocks
Guide light (optional Bluetooth Auto height(optional Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard Data Storage  Working Temperatu Dimension and Weigeler	Internal Memory External Memory re	Get instrument heigh Supporta USB flash disk/ RS-232C/ USB Mi Rechargeable Lith 7.4 V D 8 hrs IP54 98M, ready for 833 SD Card 8GB, ready for approx	ble ni-B/SD card/ Bluetooth lium Battery C  8,000 points . 34,000,000 data blocks rox. 68,000,000 data blocks +50°C

## 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, visibility 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%). ④ With 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 Deale

## **SOUTH**Target your success

## SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD

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# N4 Series TOTAL STATION



## **KEY FEATURES**









Sensor







Dual

Compensation



Plummet



Bluetooth



Storage



USB Interface

## TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction Precise



Reflectorless Cross-section Measurement Program optional for N4 Series

• 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

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



## **CONTROLLER**





## Powerful application platform

- Increase efficiency with data controller Combine with different kinds of fieldwork software
- SURVCE, Field Genius, etc.

