SPECIFICATIONS

Distance B4		N41	N40	N4	
Distance Measurement FDM System			Laser Class 3R ^①		
EDM System		144 L IL 65			
	4.5 2	_	0 - 690 nm. 70-150 N		
Measurement Rang		3500m 4000m			
	3 Prism		5000m		
	Mini Prism		800m		
	Reflective Sheet [®]		1200m		
	Reflectorless 4	1000m	1000m	600m	
Accuracy	Single Prism	\pm (1 $+$ 1ppm $ imes$ D) mm	\pm (2 \pm 2ppn	•	
,	Reflective Sheet		\pm (3 \pm 2ppm \times D) mm	_	
	Reflectorless		$(3+2ppm\times D)$ mm		
Reading		Maximum: 99999999.999m; Minimum: 1mm			
Measuring Time	Single Prism	Fine Mode<1.3	s; Tracking Mode<0.4	s; Repeat< 0.2s	
	Reflective Sheet		<0.3s		
	Reflectorless	0.5-3s ^⑥			
Atmospheric Corre	tion	Auto Correction			
Prism Constant			Auto Correction		
Angle Measureme	nt				
Measurement Method		Absolute Encoding			
Diameter of the Absolute		79mm			
Encoding Disk (Horizontal/Vertical)		12			
Minimum Reading			0.1" / 1" Optional		
Accuracy ISO 171	23-3	1"		2"	
Detection Method		Horizontal: 4 path	Horizon	tal: Dual	
		Vertical: 4 path	Vertica	al: Dual	
Telescope					
Image			Erect		
Length			152mm		
Effective Aperture		45	5mm, (DTM: 47mm))	
Magnification		30 X			
Field of View		1° 30′			
Minimum Focus		3"			
Minimum Focussing Distance		1.5m			
Reticle Illumination		Adjustable			
Automatic Comper	sator				
System		Dual Axis Liqu	uid-electric Sensor Co	mpensation	
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 1.5m InsHt)			
Wave Length		635nm			
Laser Class			Class 2		
Optical Plummet (Optional)				
Image			Erect		
Magnification					
Focusing Range		3X 0.3m - ∞			
Field of View			5°		
Camera (Optional)			3		
camera (optional)					
		780000 nive 16mm	focal length 11 fram	ac/s refresh rate	
			n focal length, 11 fran		
General		780000 pixe, 16mm 2m -∞deep of field, 3	-		
		2m -∞deep of field, 3	X digital zoom, Auto	matic white balan	
		2m -∞deep of field, 3 Two 3.5-inch LCD gra	X digital zoom, Auto	matic white balan 0 dpi touch-scree	
Display		2m -∞ deep of field, 3 Two 3.5-inch LCD gra backli	S X digital zoom, Auto phic display, 320 x 24 ght, contrast adjustm	matic white balan 0 dpi touch-scree eent	
Display Keyboard		2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w	matic white balan 0 dpi touch-scree lent vith backlight	
Display Keyboard EDM Trigger Key		2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s	matic white balan 0 dpi touch-scree lent vith backlight	
Display Keyboard EDM Trigger Key		2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target	matic white balan 0 dpi touch-scree ent vith backlight cide cover	
Display Keyboard EDM Trigger Key Laser pointer	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s	matic white balan 0 dpi touch-scree ent vith backlight cide cover	
Display Keyboard EDM Trigger Key Laser pointer	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target	matic white balan 0 dpi touch-scree ent vith backlight cide cover	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connec	matic white balan 0 dpi touch-scree ent vith backlight cide cover	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a	matic white balan 0 dpi touch-screen ent vith backlight cide cover	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connec	o dpi touch-screen ent vith backlight cide cover and easy t with controller	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connec	o dpi touch-screen ent vith backlight cide cover and easy t with controller	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connec	matic white balan O dpi touch-screen ent vith backlight cide cover and easy t with controller card/ Bluetooth	
Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connec Supportable 32C/ USB Mini-B/ SD	matic white balan O dpi touch-scree ent vith backlight cide cover and easy at with controller card/ Bluetooth	
Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connec Supportable 32C/ USB Mini-B/ SD argeable Lithium Batter and contract position fast a sfer data and connec Supportable 32C/ USB Mini-B/ SD argeable Lithium Batter SD	matic white balan O dpi touch-scree ent vith backlight cide cover and easy at with controller card/ Bluetooth	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC	matic white balan O dpi touch-scree ent vith backlight cide cover and easy at with controller card/ Bluetooth	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical	al)	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs	matic white balan O dpi touch-screen ent vith backlight cide cover and easy t with controller card/ Bluetooth	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical		2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran USB flash disk/ RS-2	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs	matic white balan 0 dpi touch-screen ent vith backlight cide cover and easy at with controller card/ Bluetooth	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard	al) Internal Memory	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran USB flash disk/ RS-2 Rech	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs	matic white balan O dpi touch-screen ent with backlight side cover and easy at with controller card/ Bluetooth tery	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard		2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran USB flash disk/ RS-2 Rech 98M, SD Card 8GB, reac	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs IP54 ready for 833,000 pody for approx. 34,000 girls argent size of the	on dpi touch-screen on touch-s	
Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard Data Storage	Internal Memory External Memory	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran USB flash disk/ RS-2 Rech 98M, SD Card 8GB, reac	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs IP54 ready for 833,000 pody for approx. 34,000 pody for approx. 68,000 pode ady for approx. 68,000 pode adv for app	on dpi touch-screen on touch-s	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard Data Storage Working Temperation	Internal Memory External Memory Ire	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran USB flash disk/ RS-2 Rech 98M, SD Card 8GB, reac 8G USB Flash disk, re	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs IP54 ready for 833,000 po dy for approx. 34,000 pady for approx. 68,0 —20°C~+50°C	matic white balan O dpi touch-screen ent with backlight side cover and easy at with controller card/ Bluetooth tery ints 0000 data blocks 00,000 data block	
Display Keyboard EDM Trigger Key Laser pointer Guide light (option: Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical IP Standard	Internal Memory External Memory Ire	2m -∞deep of field, 3 Two 3.5-inch LCD gra backli Alphanumeric Quick Mea Indicates Easier way to tran USB flash disk/ RS-2 Rech 98M, SD Card 8GB, reac 8G USB Flash disk, re	phic display, 320 x 24 ght, contrast adjustm Keyboard/ 30 keys w sure Key located on s Easy to find target correct position fast a sfer data and connect Supportable 32C/ USB Mini-B/ SD argeable Lithium Batt 7.4 V DC 8 hrs IP54 ready for 833,000 pody for approx. 34,000 pody for approx. 68,000 pode ady for approx. 68,000 pode adv for app	matic white balan O dpi touch-screen ent with backlight side cover and easy at with controller card/ Bluetooth tery ints 0000 data blocks 00,000 data block	

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

SOUTHTarget your success

SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD

E-mail: mail@southsurvey.com export@southsurvey.com impexp@southsurvey.com euoffice@southsurvey.com http://www.southinstrument.com



N4 Series TOTAL STATION



KEY FEATURES















Plummet









USB Interface

TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction



Reflectorless Cross-section Measurement Program optional for N4 Series

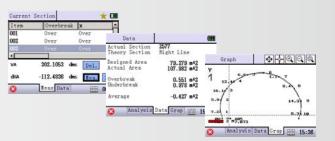
Powerful

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

• 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



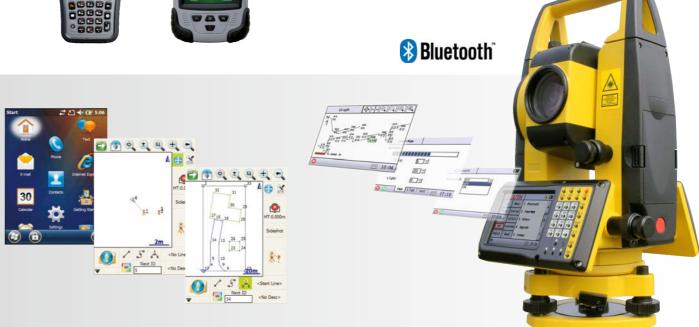
CONTROLLER





Powerful application platform

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







Encoding



Compensation







Storage