SPECIFICATIONS

Distance Measurem		N41	N40
EDM Contract	ient	- Cl - 28(1)	
EDM System		Laser Class 3R ①	
Measurement Range 1 Prism ^②		Wave legnth: 650 - 690 nm. 70-150 Mhz Frequency 3500m 5000m	
weasurement Kang	3 Prism		
	Mini Prism	5000m 800m	
	Reflective Sheet ³	1200r	
	Reflectorless 4	1000m	1000m
	Herrestoriess =		
Accuracy	Single Prism Reflective Sheet	\pm (1+1ppm×D) mm	\pm (2+2ppm×D) mm
		\pm (2 \pm 2ppm $ imes$ D) mm \pm (2 \pm 2ppm $ imes$ D) mm $^{ ilde{\mathbb{G}}}$	
Reflectorless		Maximum: 99999999.999m; Minimum: 1mm	
Reading Measuring Time Single Prism		Fine Mode<1.3s; Tracking Mode<0.4s; Repeat< 0.2s	
ivicasuring rime	Reflective Sheet	<0.3s	
	Reflectorless	0.5-3s [©]	
Atmospheric Correc		0.5-3s ♥ Auto Correction	
Prism Constant	tion		
Angle Measurement		Auto Correction	
		Absolute En	coding
Measurement Method Diameter of the Absolute		Absolute Encoding	
	orizontal/Vertical)	79mm	
Minimum Reading		0.1" /1" 0	ptional
Accuracy ISO 1712	23-3	1"	2"
Detection Method		Horizontal: 4 path	Horizontal: Dual
		Vertical: 4 path	Vertical: Dual
Telescope		vertical. 4 patri	Vertical. Dual
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		±4′	
Accuracy		1"	
Sensitivity of Vial			
Plate Vial		30″ / 2mm	
Circular Vial		6′ / 2r	nm
Laser Plummet (De	fault)		
Accuracy		1.5mm (in 1.5	m InsHt)
Wave Length		635nm	
Laser Class		Class 2	
Optical Plummet (C	ptional)		
lmage		Erect	
iiiiagc		3X	
		37	
Magnification Focusing Range		0.3m - 4	
Magnification			
Magnification Focusing Range		0.3m - ^c	
Magnification Focusing Range Field of View		0.3m - ^c	xx
Magnification Focusing Range Field of View		0.3m - ^{- c} 5°	∞ n, 11 frames/s refresh rate,
Magnification Focusing Range Field of View Camera (Optional)		0.3m - 6 5° 780000 pixe, 16mm focal length	∞ n, 11 frames/s refresh rate,
Magnification Focusing Range Field of View Camera (Optional) General		0.3m - 6 5° 780000 pixe, 16mm focal length	o, 11 frames/s refresh rate, om, Automatic white balanc
Magnification Focusing Range Field of View Camera (Optional) General		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast	on, 11 frames/s refresh rate, om, Automatic white balance 320 x 240 dpi touch-screen
Magnification Focusing Range Field of View Camera (Optional) General Display		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display,	on, 11 frames/s refresh rate, om, Automatic white balance 320 x 240 dpi touch-screen
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast	on, 11 frames/s refresh rate, om, Automatic white balance 320 x 240 dpi touch-screen adjustment 80 keys with backlight
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3	on, 11 frames/s refresh rate, om, Automatic white balance and 20 x 240 dpi touch-screen adjustment 80 keys with backlight ated on side cover
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer	·I)	0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3 Quick Measure Key loc	on, 11 frames/s refresh rate, orm, Automatic white balance and 220 x 240 dpi touch-screen adjustment 80 keys with backlight ated on side cover target
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optiona	1)	0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3 Quick Measure Key loc Easy to find	on, 11 frames/s refresh rate, om, Automatic white balance and a second s
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional)		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3 Quick Measure Key loc Easy to find Indicates correct posit	a, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional)		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3 Quick Measure Key loc Easy to find Indicates correct posit	a, 11 frames/s refresh rate, om, Automatic white balance and a second se
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional)		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3 Quick Measure Key loc Easy to find Indicates correct posit	on, 11 frames/s refresh rate, om, Automatic white balance and a second s
Magnification Focusing Range Field of View		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/ 3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an	a, 11 frames/s refresh rate, om, Automatic white balance adjustment adjustment ated on side cover target cion fast and easy d connect with controller at automatically
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height	a, 11 frames/s refresh rate, om, Automatic white balance adjustment adjustment ated on side cover target cion fast and easy d connect with controller at automatically
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) SD card		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height	in, 11 frames/s refresh rate, om, Automatic white balance and a second and a second
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port On-board Battery		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height	in, 11 frames/s refresh rate, om, Automatic white balance and a second and a second
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port On-board Battery Power Supply		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height USB flash disk/ RS-232C/ USB M	a, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height USB flash disk/ RS-232C/ USB M Rechargeable Litt 7.4 V I	a, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical		0.3m - 6 5° 780000 pixe, 16mm focal length 2m -∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height USB flash disk/ RS-232C/ USB M Rechargeable Litt 7.4 V I	n, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port On-board Battery Power Supply Voltage		0.3m - 6 5° 780000 pixe, 16mm focal length 2m - ∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height Supporta USB flash disk/ RS-232C/ USB M Rechargeable Litt 7.4 V C 8 hrs	a, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer Guide light (optional) Bluetooth Auto height(optional) Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time Physical	al)	0.3m - 6 5° 780000 pixe, 16mm focal length 2m - ∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height Supporta USB flash disk/ RS-232C/ USB M Rechargeable Litt 7.4 V C 8 hrs	1, 11 frames/s refresh rate, om, Automatic white balance and the second state of the s
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer 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	al)	0.3m - 6 5° 780000 pixe, 16mm focal length 2m - ∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height Supporta USB flash disk/ RS-232C/ USB M Rechargeable Litt 7.4 V C 8 hrs	a, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a
Magnification Focusing Range Field of View Camera (Optional) General Display Keyboard EDM Trigger Key Laser pointer 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	Internal Memory External Memory	0.3m - 6 5° 780000 pixe, 16mm focal length 2m - ∞ deep of field, 3 X digital zoo Two 3.5-inch LCD graphic display, backlight, contrast Alphanumeric Keyboard/3 Quick Measure Key loc Easy to find Indicates correct posit Easier way to transfer data an Get instrument height Supporta USB flash disk/ RS-232C/ USB M Rechargeable Litt 7.4 V C 8 hrs IP66 98M, ready for 83 SD Card 8GB, ready for approx	a, 11 frames/s refresh rate, om, Automatic white balance and a second and a second a

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%). 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 55 ⑥ Typical, under good conditions. Range less than 500m. It also depend on object surface. Maximum less than 10

OPTIONAL ACCESSORIES



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

You Local Authorized Deale

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











Encoding



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

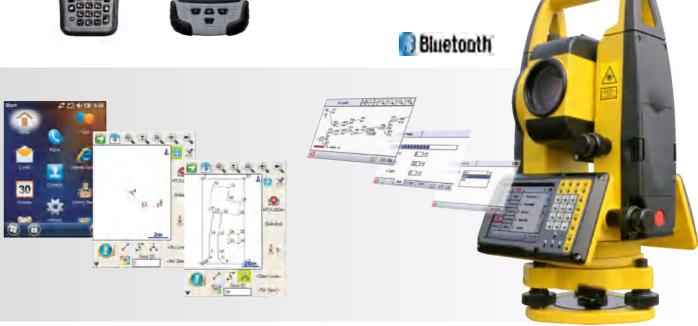
• Millimeter accuracy ensured by considering various plane curve and vertical curve, contour shape and tunnel interface in





Powerful application platform

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



CONTROLLER