## **SPECIFICATIONS**

Distance Measurement					
EDM System			Laser Class 3R ①		
25 0,5		Wave legnth: 65	0 - 690 nm. 70-150 Mh	z Frequency	
Measurement Range 1 Prism <sup>②</sup>		3500m	4000		
3 Prism		3300111	5000m	,,,,,	
	Mini Prism		800m		
	Reflective Sheet <sup>®</sup>		1200m		
	Reflectorless 4	1000m	1000m	600m	
		$\pm$ (1+1ppm×D) mm			
Accuracy	Single Prism Reflective Sheet	` '' '	$\pm$ (2 $\pm$ 2ppm $\pm$ (3 $\pm$ 2ppm $\times$ D) mm	^ U) IIIIII	
	Reflectorless		` '' '		
Donding	Reflectoriess	±(3+2ppm×D) mm <sup>(5)</sup> Maximum: 99999999.999m; Minimum: 1mm			
Reading	Single Prism	Fine Mode<1.3s; Tracking Mode<0.4s; Repeat< 0.2s			
Measuring Time	Reflective Sheet	rine ivioue<1.5		Repeat< 0.25	
			<0.3s		
Reflectorless		0.5-3s <sup>©</sup>			
Atmospheric Correction		Auto Correction			
Prism Constant		Auto Correction			
Angle Measurem					
Measurement Method		Absolute Encoding			
Diameter of the Absolute		79mm			
Encoding Disk (Horizontal/Vertical)					
Minimum Reading			0.1" / 1" Optional	,,	
Accuracy ISO 17		1"	2		
Detection Method		Horizontal: 4 path	Horizonta		
		Vertical: 4 path	Vertical	: Dual	
Telescope					
Image			Erect		
Length			152mm		
Effective Aperture		4.5	45mm, (DTM: 47mm)		
Magnification			30 X		
Field of View		1° 30′			
Minimum Focus			3"		
Minimum Focussing Distance			1.5m		
Reticle Illumination			Adjustable		
Automatic Compe			, tajastas te		
System		Dual Axis Lini	ıid-electric Sensor Com	pensation	
Working Range		±4'			
Accuracy		±4" 1"			
Sensitivity of Vial			1		
Plate Vial			30" / 2mm		
Circular Vial			8' / 2mm		
Laser Plummet (D	efault)		o / 2111M		
	Ciauitj	1	5mm (in 1 Em Incl It)		
Accuracy Ways Longth		1.5mm (in 1.5m InsHt)			
Wave Length		635nm			
Laser Class	(O. 1)		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 frame	es/s refresh rate,	
		2m -∞deep of field, 3	X digital zoom, Autom	natic white balanc	
General					
Display		Two 3.5-inch LCD gra	phic display, 320 x 240	dpi touch-screen	
		· ·	ght, contrast adjustme	•	
Kayboard					
Keyboard		Alphanumeric Keyboard/ 30 keys with backlight Ouick Measure Key located on side cover			
		Quick Measure Key located on side cover			
EDM Trigger Key			Facy to find toract		
EDM Trigger Key Laser pointer			Easy to find target		
EDM Trigger Key Laser pointer Guide light (option	nal)	Indicates	correct position fast ar	nd easy	
EDM Trigger Key Laser pointer Guide light (option Bluetooth	nal)	Indicates		nd easy	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication	nal)	Indicates	correct position fast ar sfer data and connect	nd easy	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card	nal)	Indicates Easier way to tran	correct position fast ar sfer data and connect Supportable	nd easy with controller	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port		Indicates Easier way to tran	correct position fast ar sfer data and connect	nd easy with controller	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port		Indicates Easier way to tran	correct position fast ar sfer data and connect Supportable	nd easy with controller	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port On-board Battery		Indicates Easier way to tran USB flash disk/ RS-2	correct position fast ar sfer data and connect Supportable	nd easy with controller ard/ Bluetooth	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port On-board Battery		Indicates Easier way to tran USB flash disk/ RS-2	correct position fast ar sfer data and connect Supportable 32C/ USB Mini-B/ SD c	nd easy with controller ard/ Bluetooth	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage		Indicates Easier way to tran USB flash disk/ RS-2	correct position fast ar sfer data and connect Supportable 32C/ USB Mini-B/ SD c	nd easy with controller ard/ Bluetooth	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage Operating Time		Indicates Easier way to tran USB flash disk/ RS-2	scorrect position fast ar sfer data and connect Supportable 32C/ USB Mini-B/ SD co argeable Lithium Batte 7.4 V DC	nd easy with controller ard/ Bluetooth	
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		Indicates Easier way to tran USB flash disk/ RS-2	scorrect position fast ar sfer data and connect Supportable 32C/ USB Mini-B/ SD c argeable Lithium Batte 7.4 V DC 8 hrs	nd easy with controller ard/ Bluetooth	
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		Indicates Easier way to tran USB flash disk/ RS-2 Rech	scorrect position fast ar sfer data and connect Supportable 32C/ USB Mini-B/ SD coargeable Lithium Batte 7.4 V DC 8 hrs	nd easy with controller ard/ Bluetooth	
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		Indicates Easier way to tran USB flash disk/ RS-2 Rech	Supportable 32C/ USB Mini-B/ SD cargeable Lithium Batte 7.4 V DC 8 hrs  IP54 ready for 833,000 poir	and easy with controller ard/ Bluetooth ery	
EDM Trigger Key Laser pointer Guide light (option Bluetooth Communication SD card Serial I/F Port On-board Battery Power Supply Voltage		USB flash disk/ RS-2 Rech	Supportable 32C/ USB Mini-B/ SD cargeable Lithium Batte 7.4 V DC 8 hrs  IP54 ready for 833,000 pointly for approx. 34,000,0	ard/ Bluetooth ery	
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	USB flash disk/ RS-2 Rech	Supportable 32C/ USB Mini-B/ SD cargeable Lithium Batte 7.4 V DC 8 hrs  IP54 ready for 833,000 pointly for approx. 34,000,02edy for approx. 68,000	ard/ Bluetooth ery	
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	USB flash disk/ RS-2 Rech	Supportable 32C/ USB Mini-B/ SD cargeable Lithium Batte 7.4 V DC 8 hrs  IP54 ready for 833,000 pointly for approx. 34,000,0	ard/ Bluetooth ery	
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 cure	USB flash disk/ RS-2 Rech 98M, SD Card 8GB, reac	Supportable 32C/ USB Mini-B/ SD cargeable Lithium Batte 7.4 V DC 8 hrs  IP54 ready for 833,000 pointly for approx. 34,000,02edy for approx. 68,000	nd easy with controller ard/ Bluetooth ery ats 100 data blocks 0,000 data blocks	

## 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  $\ensuremath{\Im}$ 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 ⑤ Range less than 100m. When 100m to 200m, 5+2ppm and measurement time maximum less than 5s @Typical, 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

## Contact us :



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# **N4 Series TOTAL STATION**



## **KEY FEATURES**











Encoding







Bluetooth





USB Interface

## TUNNEL MEASUREMENT



Overbreak & Underbreak



**Restoration Construction** 



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**

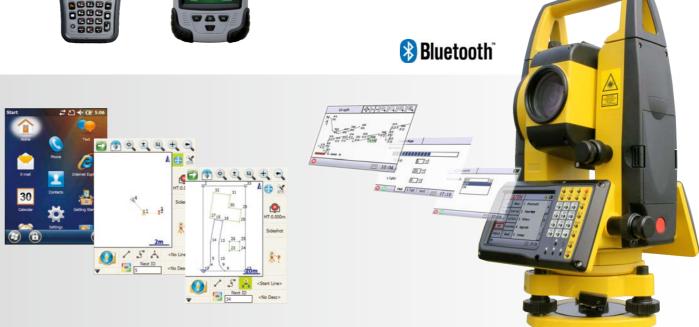
Reflectorless Cross-section Measurement





## **Powerful application platform**

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





T/P Sensor



Compensation





SD Storage