SPECIFICATIONS

Reflective Sheet Reflectorless	600m 600m 2ppm×D) mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Measurement Range 1 Prism	600m 600m 2ppm×D) mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Measurement Range 1 Prism® 3500m 3 Prism 5000m Minip Prism Reflective Sheet® 1200m 1200m Reflective Sheet® 1200m 1200m 1200m Reflective Sheet® 1200m	600m 2ppm×D) mm mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Accuracy Single Prism Single	600m 2ppm×D) mm mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Mini Prism Reflective Sheet® Reflectorless	2ppm×D) mm mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Reflectorless	2ppm×D) mm mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Reflectorless	2ppm×D) mm mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Single Prism Reflective Sheet Reflective Sheet Reflective Sheet Reflectorless	2ppm×D) mm mm mm Minimum: 1mm <0.4s; Repeat< 0.2s
Reflective Sheet Reflectorless	mm mm [®] Minimum: 1mm <0.4s; Repeat< 0.2s n
Reading	mm [®] Minimum: 1mm <0.4s; Repeat< 0.2s n
Reading Measuring Time Single Prism Reflective Sheet Reflectorless Auto Correction Prism Constant Auto Correction Auto Correct	Minimum: 1mm <0.4s; Repeat< 0.2s n n
Measuring Time Reflective Sheet Reflective Sheet Reflective Sheet Reflectorless 0.5-3s	<0.4s; Repeat< 0.2s
Reflective Sheet Reflectorless 0.5-3s	n n
Reflectorless 0.5-3s ® Auto Correction Prism Constant Auto Correction Auto Correction Prism Constant Auto Correction Auto Correction Angle Measurement Method Absolute Encoding Disk (Horizontal/Vertical) 79mm Accuracy ISO 17123-3 1″ Detection Method Horizontal 4 path Vertical:	ng
Atmospheric Correction Prism Constant Angle Measurement Measurement Method Diameter of the Absolute Encoding Disk (Horizontal/Vertical) Minimum Reading Accuracy ISO 17123-3 Detection Method Image Im	ng
Prism Constant Angle Measurement Measurement Method Diameter of the Absolute Encoding Disk (Horizontal/Vertical) Minimum Reading Accuracy ISO 17123-3 Detection Method Telescope Image Imag	ng
Measurement Method Diameter of the Absolute Encoding Disk (Horizontal/Vertical) Minimum Reading Accuracy ISO 17123-3 Detection Method Horizontal: 4 path Vertical: 4 path Verti	ng
Measurement Method Diameter of the Absolute Encoding Disk (Horizontal/Vertical) Minimum Reading Accuracy ISO 17123-3 Detection Method Messope Image Length Length Effective Aperture Magnification Field of View Morking Range Accuracy System Working Range Accuracy Sensitivity of Vial Plate Vial Circular Vial Laser Plummet (Default) Accuracy Detection Method Absolute Encod 79mm Non' / 1" Option Horizontal: 4 path At path	
Diameter of the Absolute Encoding Disk (Horizontal/Vertical) Minimum Reading Accuracy ISO 17123-3 Detection Method Telescope Image Length Horizontal: 4 path Vertical: 4 pa	
Encoding Disk (Horizontal/Vertical) Minimum Reading Accuracy ISO 17123-3 Detection Method Telescope Image Length Effective Aperture Minimum Focusing Distance Reticle Illumination Automatic Compensator System Dual Axis Liquid-electric Sensor Working Range Accuracy Tercular Vial Beser Plummet (Default) Accuracy Wave Length Laser Plummet (Optional) Image Erect ### 152mm ### 2000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, ### 4 CCU Apath ### 2000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, ### 4 CCURACY ### 2000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, ### 4 CCURACY ### 2000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, #### 4 CCURACY ### 2000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, #### 4 CCURACY #### 4 CCURACY ### 4 CCURACY ###	
Minimum Reading Accuracy ISO 17123-3 Detection Method Telescope Image Length Effective Aperture Magnification Field of View Minimum Focussing Distance Reticle Illumination Acturacy System Dual Axis Liquid-electric Senso Working Range Accuracy Dessitivity of Vial Plate Vial Circular Vial Laser Plummet (Default) Accuracy Wave Length Best Class Coptical Plummet (Optional) Image Magnification As 30 X Field of View As 3 m Dual Axis Liquid-electric Senso ### Accuracy	
Accuracy ISO 17123-3 Detection Method Telescope Image	nal
Detection Method Horizontal: 4 path Vertical: 4 path Ver	2"
Telescope Image	_
Telescope Image	izontal: Dual
Image Erect Length 152mm Effective Aperture 45mm, (DTM: 47 Magnification 30 X Field of View 1° 30′ Minimum Focus 3″ Minimum Focussing Distance 1.5m Reticle Illumination Adjustable Automatic Compensator Adjustable System Dual Axis Liquid-electric Sensor Working Range ±4′ Accuracy 1″ Sensitivity of Vial 30″ / 2mm Plate Vial 30″ / 2mm Circular Vial 8′ / 2mm Laser Plummet (Default) 8′ / 2mm Accuracy ±1.5mm (in 1.5m l Wave Length 635nm Laser Class Class 2 Optical Plummet (Optional) 3X Image Erect Magnification 3X Focusing Range 0.3m - ∞ Field of View 5° Camera (Optional) 780000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, General Display	ertical: Dual
Effective Aperture Effective Aperture Adamn, (DTM: 47 Magnification 30 X Field of View 1° 30′ Minimum Focus Minimum Focussing Distance Reticle Illumination Adjustable Automatic Compensator System Dual Axis Liquid-electric Sensor Working Range 44′ Accuracy 1″ Sensitivity of Vial Plate Vial Circular Vial Accuracy 1″ Laser Plummet (Default) Accuracy 41.5mm (in 1.5m l 43.5mm 635nm Laser Class Class 2 Optical Plummet (Optional) Image Erect Magnification 3X Focusing Range 1.5mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, General Display 3.5 inches LCD, 320 × 240 decaption in the control of the contro	
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Reticle Illumination Automatic Compensator System Dual Axis Liquid-electric Sense Working Range 4.4 Accuracy 1" Sensitivity of Vial Plate Vial Circular Vial Accuracy 4.1.5mm (in 1.5mm (
Automatic Compensator System Dual Axis Liquid-electric Sensor Working Range 44' Accuracy 1" Sensitivity of Vial Plate Vial Circular Vial Accuracy 41.5mm (in 1.5m l Wave Length 635nm Laser Class Class 2 Optical Plummet (Optional) Image Erect Magnification 3X Focusing Range Field of View 5° Camera (Optional) 780000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, General Display 3.5 inches LCD, 320×240 decay	
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Circular Vial $8'$ / 2mm Laser Plummet (Default) Accuracy ± 1.5 mm (in 1.5 m) Wave Length 635 nm Laser Class Class 2 Optical Plummet (Optional) Image Erect Magnification $3X$ Focusing Range 0.3 m - ∞ Field of View 5° Camera (Optional) 780000 pixe, 16mm focal length, 11 2 m - ∞ deep of field, 3 X digital zoom, General Display 3.5 inches LCD, 320×240 dg	
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Camera (Optional) 780000 pixe, 16mm focal length, 11 2m - ∞ deep of field, 3 X digital zoom, General Display 3.5 inches LCD, 320×240 dp	
$780000 \text{ pixe, } 16\text{mm focal length, } 11$ $2\text{m} - \infty \text{ deep of field, } 3 \text{ X digital zoom,}$ $\textbf{General}$ $\textbf{Display} \qquad \qquad 3.5 \text{ inches LCD, } 320 \times 240 \text{ dg}$	
2m - ∞ deep of field, 3 X digital zoom, General Display 3.5 inches LCD, 320×240 dp	
General Display 3.5 inches LCD, 320 × 240 dp	
Display 3.5 inches LCD, 320×240 dp	Automatic white balanc
Koyboard Alphanymoric Koyboard / 20 kg	
	-
EDM Trigger Key Quick Measure Key located	on side cover
Laser pointer Easy to find targ	et
Guide light (optional) Indicates correct position	ast and easy
Bluetooth Easier way to transfer data and co	nnect with controller
Communication	
SD card Supportable	
Serial I/F Port USB flash disk/ RS-232C/ USB Mini-E	/ SD card/ Bluetooth
On-board Battery	
Power Supply Rechargeable Lithium	Battery
Voltage 7.4 V DC	
Operating Time 8 hrs	
Physical	
IP Standard IP54	
Internal Memory 98M, ready for 833,000	
Data Storage SD Card 8GB, ready for approx. 34	data blocks
External Memory 8G USB Flash disk, ready for approx.	
Working Temperature -20℃—50℃	000,000 data blocks
Dimension and Weight $206 \times 200 \times 353 \text{ mg}$	000,000 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

① EN60825-1: 2007 ② Good 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 ⑤ Range less than 100m. When 100m to 200m, 5+2ppm and measurement time maximum less than 5s ⑥ 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

You Local Authorized Dealer

50UTHTarget 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





Display









Encoding



Dual

Compensation





Plummet



Bluetooth



Storage



USB Interface

TUNNEL MEASUREMENT



Overbreak & Underbreak



Restoration Construction



Reflectorless Cross-section Measurement Program optional for N4 Series

Powerful

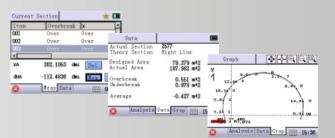
• Integrated the Random detection of overbreak & underbreak, Excavation contour line lofting, Cross-section measurement, Points & lines lay-out and Data processing as a whole

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.

