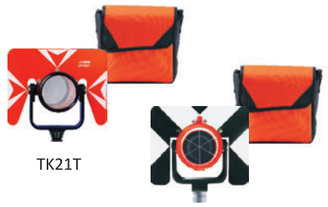
SPECIFICATIONS

		NTS-342R6A
Distance Measurement		
Max. Range	Reflectorless	600m
	1 Prism	3.5km/ under good condition 4.0km
	3 Prism	5.0km
	Mini Prism	800m
	Sheet	1.0km
Accuracy ISO 17123-4	Reflectorless	±(2+2ppm×D) mm
	Reflector	±(2+2ppm×D) mm
Reading		Maximum: 99999999.999m; Minimum: 1mm
Measuring Time		Fine Mode: <2s; Tracking Mode: <0.25s; Repeat: <0.35s
Atmospheric Correction		Auto Correction
Prism Constant		Auto Correction
Angle Measurement		
Measurement Method		Absolute Encoding
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)		79mm
Minimum Reading		0.1″ / 1″ Optional
Accuracy ISO 17123-3		2″
Detection Method		Horizontal: Dual Vertical: Dual
Telescope		
Image		Erect
Length		152mm
Effective Aperture		45mm, (DTM: 47mm)
Magnification		30 X
Field of View		1° 30′
Minimum Focus		3″
Minimum Focussing Distance		1.3m
Reticle Illumination		Adjustable
Automatic Compensator		
System		Dual Axis Liquid-electric Sensor Compensation
Working Range		±6′
Accuracy		1″
Sensitivity of Vial		
Plate Vial		30″ / 2mm
Circular Vial		8′ / 2mm
Optical Plummet		
Image		Erect
Magnification		3 X
Focusing Range		0.3m～∞
Field of View		5°
Laser plummet (optional)		5 levels adjustable
General		
Display		3.5 inches LCD, 320×240 dpi Touch Screen backlight, contrast adjustment
Keyboard		Alphanumeric Keyboard/ 30 keys with backlight
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
Bluetooth		Easier way to transfer data and connect with controller
Communication		
SD card		Supportable
Serial I/F Port		USB flash disk/ RS-232C(6pin)/ USB Mini-B/ SD card/ BLUETOOTH
On-board Battery		
Power Supply		Rechargeable Lithium Battery
Voltage		7.4 VDC
Operating Time		Operating Period with Single Angle and Measurement every 30 senconds 14 hours
Physical		
Dimension		L216×W200×H350 mm
Weight(without battery)		5.2Kg
IP Standard		IP65
Data Storage	Internal Memory	98M, ready for 833,000 data blocks
	External Memory	SD Card 4GB, ready for approx. 34,000,000 data blocks 8G USB Flash disk, ready for approx. 68,000,000 data blocks
Working Temperature		-20℃—50℃

ACCESSORIES



TK21T

TK25T

Single Prism System

Dia.: 25.4mm
Offset: -17.5/-7.5mm

Mini Pole: 30cm×4, ϕ10mm

Mini Prism System ADSmini112A

ATS-1(Aluminum) ATS-2(Wooden)

Prism Pole & Prism System ADS107

SOUTH
Target your success

SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD.

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imexp@southsurvey.com
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www.southinstrument.com

SOUTH
Target your success

NTS-342R6A

TOTAL STATION

KEY FEATURES

600m reflectorless measurement

Laser pointer, easy to find target

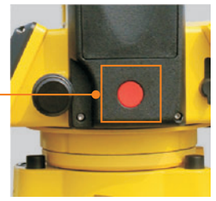
Data transfer and storage
Flash disk and SD card,
Mini USB.

Bluetooth transportation
BT 4.0, easy connect to data collector, gyroscope etc.

Concentrated ball bearing
Solve axis jam, more stable and reliable.

T-P sensor, automatic correction

Totally new design for battery



EDM Trigger Key
Quick Measure Key locates at on the side cover, which avoids any possible torque during the angle measurement. Especially ideal for gloved hands.

Backlights touch point keypad
Fast reaction and precise, combination with touch screen. Convenience and quickly.

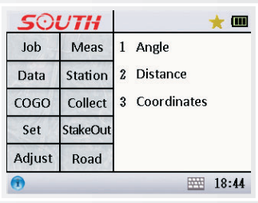
Active screen back light Technologic
Double screen, operation on this side, other side will close backlight to save energy.

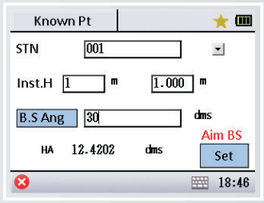
High resolution touch screen
3.5 inch touch screen, translucence and semireflective design, 320*240, easy to read under sun shine.

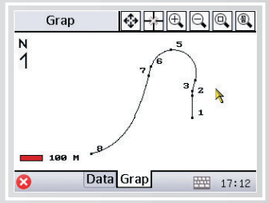
HD Display · T/P Sensor · 4-probe Encoding · Dual Compensation · Laser Plummet · Bluetooth · SD Storage · USB Interface

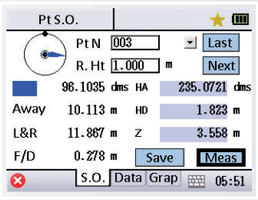
SOFTWARE INTERFACE

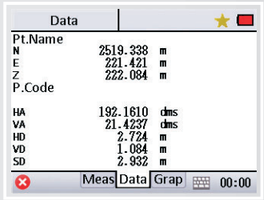
Turning the complex professional job into graphical operation, intuitively and easily even for beginners.

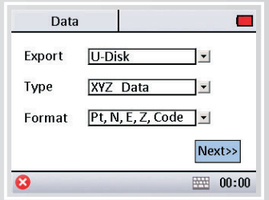










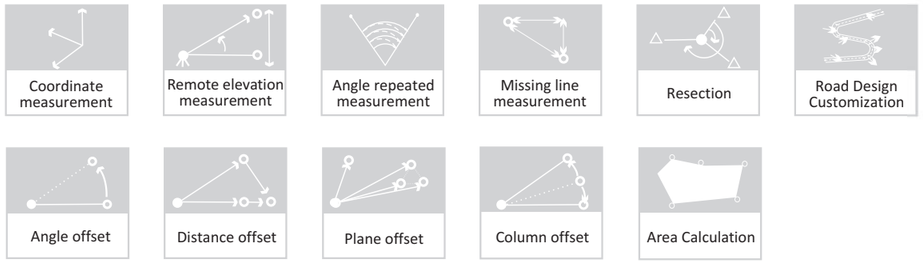


APPLICATIONS

Construction Measurement
Measure the corner and wall surface by yourself without setting the prism, the efficiency is improved

Dam Measurement
For target within 600m, prisms are not required. The surveying work is easily finished

Shipbuilding Measurement
Large shipbuilding surveying and positioning

Tunnel Measurement
Be able to observe measuring point without prisms. Point-layout becomes easier

PROGRAMS