

## SPECIFICATIONS

NTS-342R6A		
<b>Distance Measurement</b>		
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	$\pm(2+2\text{ppm} \times D)$ mm
	Reflector	$\pm(2+2\text{ppm} \times D)$ mm
Reading	Maximum: 9999999.999m; Minimum: 1mm	
Measuring Time	Fine Mode: <2s; Tracking Mode: <0.25s; Repeat: <0.35s	
Atmospheric Correction	Auto Correction	
Prism Constant	Auto Correction	
<b>Angle Measurement</b>		
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
<b>Telescope</b>		
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	
<b>Automatic Compensator</b>		
System	Dual Axis Liquid-electric Sensor Compensation	
Working Range	$\pm 6'$	
Accuracy	1"	
<b>Sensitivity of Vial</b>		
Plate Vial	30" / 2mm	
Circular Vial	8' / 2mm	
<b>Optical Plummet</b>		
Image	Erect	
Magnification	3 X	
Focusing Range	0.3m~∞	
Field of View	5°	
Laser plummet (optional)	5 levels adjustable	
<b>General</b>		
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	
<b>Communication</b>		
SD card	Supportable	
Serial I/F Port	USB flash disk/ RS-232C(6pin)/ USB Mini-B/ SD card/ BLUETOOTH	
<b>On-board Battery</b>		
Power Supply	Rechargeable Lithium Battery	
Voltage	7.4 VDC	
Operating Time	Operating Period with Single Angle and Measurement every 30 seconds 14 hours	
<b>Physical</b>		
Dimension	L216×W200×H350 mm	
Weight( without battery)	5.2Kg	
IP Standard	IP66	
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



**SOUTH**  
Target your success

# NTS-342R6A

## TOTAL STATION



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## 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.



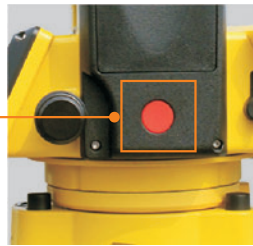
**Concentrated ball bearing**  
Solve axis jam, more stable and  
reliable.



**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

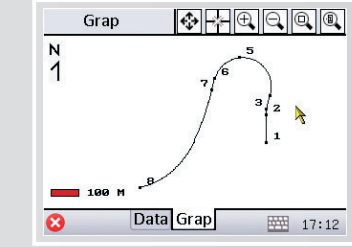
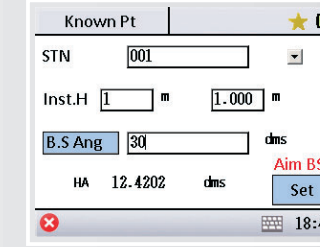
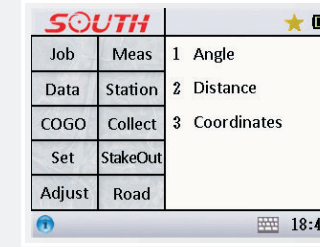


SD  
Storage

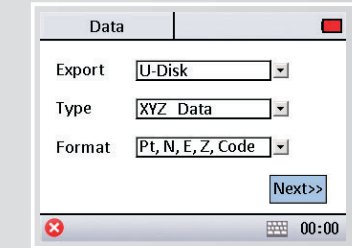
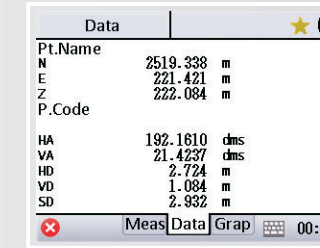
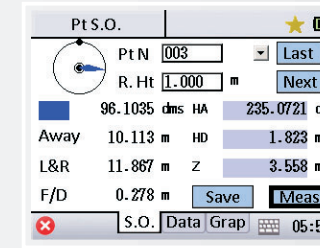


USB  
Interface

## 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

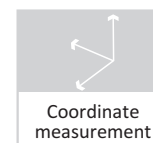


**Shipbuilding Measurement**  
Large shipbuilding surveying and  
positioning

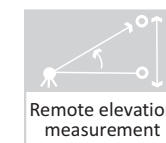


**Tunnel Measurement**  
Be able to observe measuring  
point without prisms. Point-  
layout becomes easier

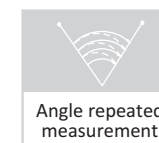
## PROGRAMS



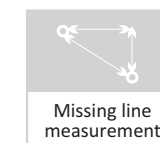
Coordinate  
measurement



Remote elevation  
measurement



Angle repeated  
measurement



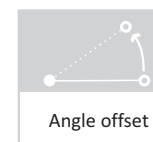
Missing line  
measurement



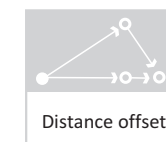
Resection



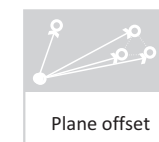
Road Design  
Customization



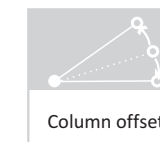
Angle offset



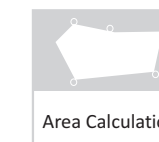
Distance offset



Plane offset



Column offset



Area Calculation

