

## SPECIFICATIONS

NTS-341R10A		
Distance Measurement		
Max. Range	Reflectorless	1000m
	1 Prism	3.5km/ under good condition 4.0km
	3 Prism	5.0km
	Mini Prism	800m
	Sheet	1.0km
Accuracy	Reflectorless	± (3 + 2ppm × D) mm
	Reflector	± (1 + 1ppm × D) mm
Reading	Maximum: 9999999.999m; Minimum: 1mm	
Measuring Time	Fine Mode: <0.8s; Tracking Mode: <0.25s; Repeat:	
Atmospheric Correction	<0.35s 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	1″	
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	
Camera	780,000 pixel	
Guide light	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 seconds 20 hours	
Physical		
Dimension	L216 × W200 × H350 mm	
Weight( without battery)	6.0Kg	
IP Standard	IP55	
Data Storage	Internal Memory	98M
	External Memory	SD Card 4GB
Working Temperature	64GB USB Flash disk -20℃ — 50℃	

## ACCESSORIES



**SOUTH**  
Target your success

**SOUTH SURVEYING & MAPPING  
INSTRUMENT CO.,LTD.**

mail@southsurvey.com  
export@southsurvey.com  
imexp@southsurvey.com  
euoffice@southsurvey.com  
www.southsurvey.com  
www.southinstrument.com

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# NTS-341R10A 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.



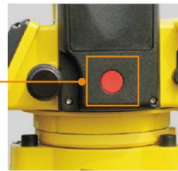
High resolution touch screen  
3.5 inch touch screen, transluence  
and semireflective design, 320\*240,  
easy to read under sun shine.



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.



HD Display



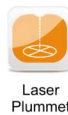
T/P Sensor



4-probe Encoding



Dual Compensation



Laser Plummet



Bluetooth



SD Storage



USB Interface

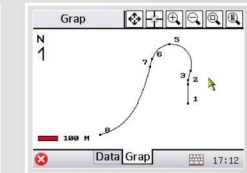
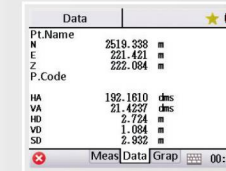
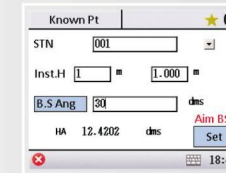
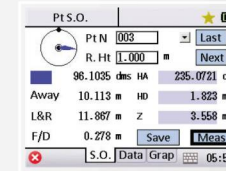
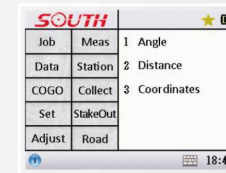


Guide Light

## 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



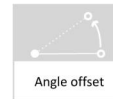
Missing line measurement



Resection



Road Design Customization



Angle offset



Distance offset



Plane offset



Column offset



Area Calculation

