SPECIFICATIONS

		NTS-341R6A	NTS-342R6A	NTS-345R6A
Distance Measurement				
Max. Range	Reflectorless	＞600m		
	1 Prism	3.5km/ under good condition 4.0km		
	3 Prism	5.0km		
	Mini Prism	800m		
	Sheet	1.2km		
Accuracy ISO 17123-4	Reflectorless	±(2＋2ppm×D) mm	±(3＋2ppm×D) mm	
	Reflector	±(1＋1ppm×D) mm	±(2＋2ppm×D) mm	
Reading		Maximum: 99999999.999m; Minimum: 1mm		
Measuring Time		Fine Mode: <1. 4s; Tracking Mode: <0.25s; Repeat: <0.5s		
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″		5″
Detection Method		Horizontal: Dual Vertical: Dual		
Telescope				
Image		Erect		
Length		152mm		
Effective Aperture		45mm, (DTM: 47mm)		
Magnification		30 X		
Field of View		1°30′		
Resolving Power		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		
Camera (Optional)				
Pixel		780000		
Focal length		16mm		
Field of view		12.5×11.7 degree		
Refresh rate		11 frames/s		
Deep of field		2m - ∞		
Digital zoom		1 X, 2 X, 3 X		
White balance		Automatic		
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/ 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		15 hrs.		＞25 hrs.
Physical				
Dimension		L216×W200×H350 mm		
Weight(without battery)		5.2Kg		
IP Standard		Ip55		
Data Storage	Internal Memory	98M, ready for approx. 180,000 records		
	External Memory	SD Card 4GB, ready for approx. 8,000,000 records 8G USB Flash disk, ready for approx. 16,000,000 records		
Working Temperature		-20℃—50℃		

ACCESSORIES

TK21T

TK25T

Single Prism System

OPTIONAL ACCESSORIES

Diagonal Eyepiece NE-20

Compass CP-20

XQC   CNAS   IAF

ISO 9001:2015

CE
C-2804-09-01

SOUTH
Target your success

NTS-345R6A
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, translucence
and semireflective design, 320*240,
easy to read under sun shine.

T-P sensor, automatic correction

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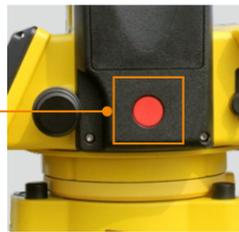
EDM Trigger Key
Quick Measure Key locates at on
the side cover, which avoids any
possible torque during the angle
measurement. Especially ideal
for gloved hands.

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

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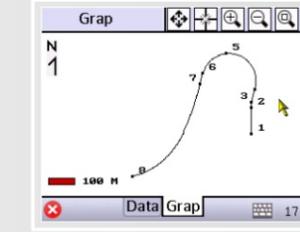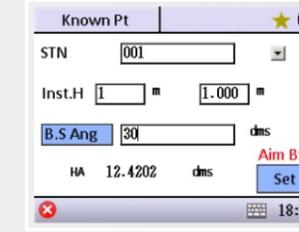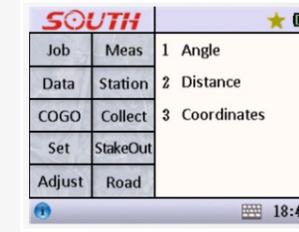
Turning the complex professional
job into graphical operation,
intuitively and easily even for
beginners.
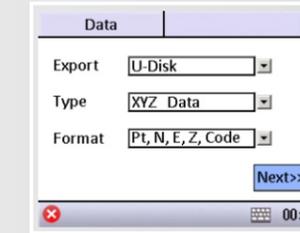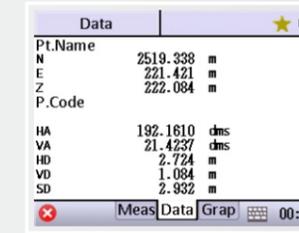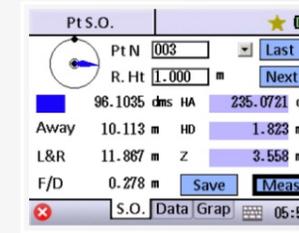
APPLICATIONS

Construction Measurement
Measure the corner and wall
surface by yourself without
setting the prism, the efficiency
is improved
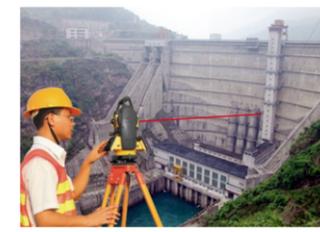
Dam Measurement
For target within 500m, prisms are
not required. The surveying work
is easily finished

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	