

SPECIFICATIONS

STE-661 R1000		
Angle Measurement		
Accuracy ISO 17123-3	1"	
Detection Method	Horizontal: Dual Vertical: Dual	
Measurement Method	Absolute Encoding	
Diameter of the Absolute Encoding Disk (Horizontal/Vertical)	79mm	
Minimum Reading	0.1"/1" Optional	
Distance Measurement		
Max. Range	Reflectorless	1.0km (Class 3R)
	1 Prism	4.0km (Class 1)
	3 Prism	5.0km (Class 1)
	Sheet	1.0km
Accuracy	Reflectorless $\pm(2+2\text{ppm} \times D)$ mm	
	Reflector $\pm(1+1\text{ppm} \times D)$ mm	
Measuring Time	Maximum: 9999999.999m; Minimum: 1mm	
Atmospheric Correction	Fine Mode: 1s; Tracking Mode: <0.25s; Repeat: <0.35s	
Prism Constant	Auto Correction	
Telescope	Auto Correction	
Image	Erect	
Length	152mm	
Effective Aperture	45mm, (DTM: 47mm)	
Magnification	30 X	
Field of View	1° 30'	
Minimum Focus	3"	
Minimum Focussing Distance	1m	
Reticle Illumination	Adjustable	
Automatic Compensator		
System	Dual Axis Liquid-electric Sensor Compensation	
Working Range	$\pm 6'$	
Accuracy	1"	
Sensitivity of Vial		
Plate Vial	30" / 2mm	
Circular Vial	8' / 2mm	
Optical Plummet (optional)		
Image	Erect	
Magnification	3 X	
Focusing Range	0.3m ~ ∞	
Field of View	5°	
Laser plummet (default)	5 levels brightness adjustable, auto height	
General		
Display	3.7 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	Indicates correct position fast and easy	
Bluetooth	Easier way to transfer data and connect with controller	
Communication		
Bluetooth	Bluetooth 4.0 (0,01m ~10m)	
SD card	Supportable	
Serial I/F Port	USB flash disk/ RS-232C(6pin)/ USB Mini-B	
On-board Battery		
Power Supply	Rechargeable Lithium Battery, 2 units	
Voltage	7.4 VDC	
Operating Time	Operating Period with Single Angle and Measurement 14 hours, with Single Angle and Measurement every 30 seconds 17 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 up to 32G USB Flash disk	
Working Temperature	-25°C ~ 55°C	

PACKAGE COMPONENTS



Standard package components

- Total Station
- Rechargeable Battery
- Battery Charger & Adaptor
- Communication Cable
- User Manual (E-Copy)
- SD Card
- Tools Kit
- Dryer
- Carrying Case
- Mini USB Cable
- Reflector Sheet
- Belt for Case

Optional Accessories

- Solar Filter
- Diagonal Eyepiece

OPTIONAL ACCESSORIES



Single Prism Set



Mini Prism System TP5mini112A

dealer info

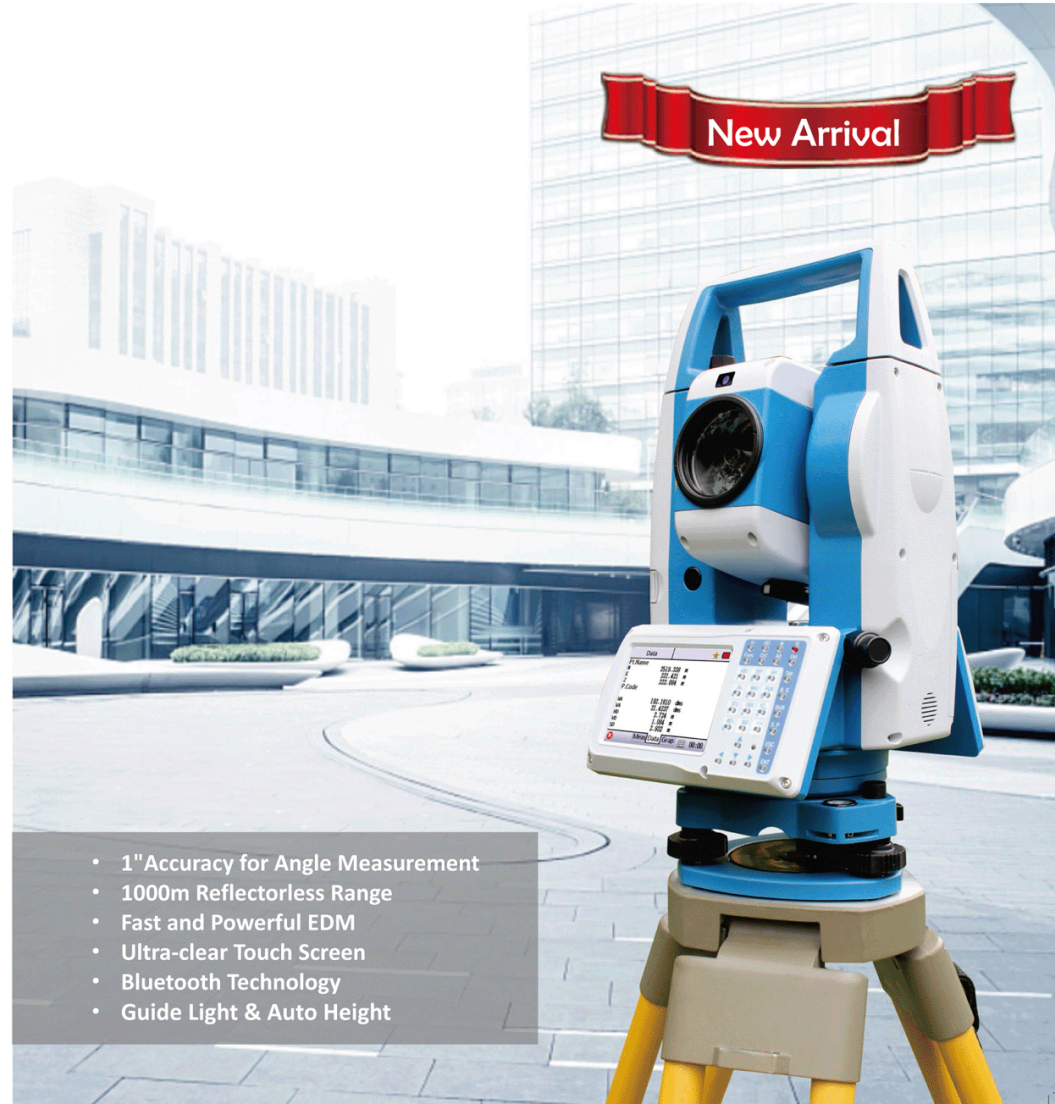
SANDING

EVERY POINT MATTERS

STE-661 R1000

Reflectorless Total Station

New Arrival



- 1" Accuracy for Angle Measurement
- 1000m Reflectorless Range
- Fast and Powerful EDM
- Ultra-clear Touch Screen
- Bluetooth Technology
- Guide Light & Auto Height

SANDING

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Your Best Work mate

Advanced Design With Superior Technology

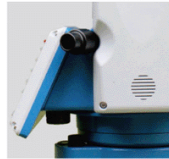
KEY FEATURES



1" Accuracy for Angle Measurement
1000m reflectorless measurement
Laser pointer, easy to find target



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



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



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



Guide Light
 Faster Stake-out

T-P sensor, automatic correction

Long-Lasting Lithium Battery

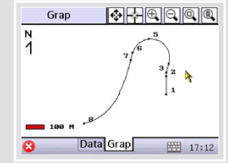
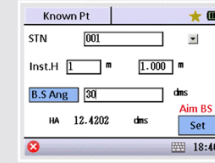
EDM Trigger Key
 Quick Measure Key locates at
 the side cover, which avoids any
 possible torque during the angle
 measurement. Especially ideal
 for gloved hands.

**Touch point keypad with
 backlights**
 Fast reaction and precise.

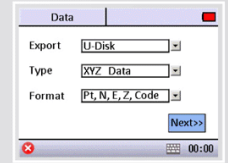
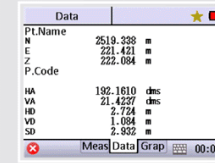
**Active screen back light
 Technology**
 Double screen, operation on this
 side, other side will close backlight
 to save energy.

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

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 1000m, 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



MLM



REM



Resection



RoadDesign



Distance
 Offset



Transect SO



P/L SO



Area Cal.



Plane Offset



Vertical
 Section

AUTO-HEIGHT



STE-661R1000 can automatically measure, read, and set the instrument height by only a simple button press. It greatly reduces errors and accelerates the setup process in job sites. The accuracy is ± 1.5 mm at 1.5 m, operating range is from 0.5 m to 3 m. This feature is a national patented technology of China.