



# E3

## Total Station

E3 is a high-precision total station, providing customers with accurate angle and distance measurement. Built-in with common used measurement formulas. The fast, accurate and stable measurement definitely brings you with new experience.

- 2" Angle Measurement
- 30x Telescope Magnification
- Up to 800m Without Prism
- Compensator Range  $\pm 3'$
- Fast and Reliable Measurement

# Product Specification

Angle Measurement	
Reading System	Absolute encoder
Display Resolution	1" / 5" / 10"
Accuracy	2"

Telescope	
Magnification	30x
Field Angle	1°30'
Minimum Focus	1 m
Object Aperture	50 mm
Image	Erect
Resolution	3"
Reticle illumination	10 levels
Laser Pointer	Support
Guide Light	Support

Compensator	
Compensator Type	Dual axis
Compensator Range	±3'
Compensator Resolution	1"

Distance Measuring Range	
Minimum Reading	0.0001 m
Measurement Display	10 digits
Single Prism Range	5000 m
Mini Prism Range	800 m
Reflector Range	1200 m
Non-Prism Range	800 m

Distance Measuring Accuracy	
Prism Accuracy	± (2 mm + 2 ppm • D)
Reflector Accuracy	± (3 mm + 2 ppm • D)
Non-Prism Accuracy	± (3 mm + 2 ppm • D)

Measurement Time	
Tracking/Rapid/Fine	0.2 s / 0.6 s / 1 s

Level Vial Sensitivity	
Plate Level	30" / 2 mm
Circular Level	8' / 2 mm

Laser Plummet	
Laser Accuracy	±1 mm/0.8 ~ 1.5 m

Laser Spot	≤ 2 mm/0.8 ~ 1.5 m
Wavelength	635nm
Safety	Class 3
Output Power	0.7 ~ 1.0 nW

Data Management	
Memory	50,000 Points
USB Drive	Support
Bluetooth	Support

Battery	
Voltage	DC 7.4 V
Capacity	2600mAh
Alert	Low voltage alert power off automatically after 10 min
Working Time	Up to 13 hours angle and distance Up to 16 hours angle
Charge Time	4 hours

Application Programs	
Function	Data collection/Stakeout/Resection/ REM/MLM/Area/ Point to line/ Z coordinate/Offset/Road

Physical Specification	
Dimension	170 x 190 x 345 mm
Screen	Alphanumeric key board Dual screens 30 x Key Graphic LCD (240 x 128 dots)
Fast Measure Key	Support
Interface	RS-232C, SD Card, Mini USB
Water/Dust Proof	IP55/IP65(Optional)
Working Temperature	-20 °C - +50 °C
Storage Temperature	-40 °C - +70 °C
Prism Constant Correction	-99.9 mm ~ +99.9mm
Atmos Correction PPM	-499ppm ~ +499ppm
Display Distance Measuring Mode	Symbol "※"
Vertical and Horizontal Motion Clamp	Coaxial Tangent
Horizontal Angle Display	HR and HL selectable
Standard Deviation Based	ISO 9001 UniStrong Group Companies (eSurvey)

