

E3 & E3L



TOTAL STATION

■ More accurate measurement

Measure angle more accurate, supported by our absolute encoder and distance, and measure distance more accurate, supported by our powerful EDM unit.

■ Faster and more convenient measurement

Measure more points per day due to faster measurement and stakeout (including guide light, trigger key for instant measuring), supported by our comprehensive and user-friendly software.

■ More reliable result

Use both X-axis and Y-axis compensators to ensure the reliability of your measurement result.

■ Rich software applications

Experience rich applications, including offsets, tie distance, area & volume, remote height, reference line/arc, construction and 2D road, to meet your field measurement needs.

■ High quality, designed for harsh environments

Operate the device even under harsh environments (like dust, mud, rain, extreme heat and cold) for many years, supported by its high level of quality.

E3 / E3L is a high precision manual total station, with accurate angle and distance measurement. It can work reliably and deliver accurate results even in harsh environments. And its simple operations make most survey and stakeout tasks more easily and efficiently.

Specification



E3



E3L

Angle Measurement			
Reading system	Absolute encoder	√	√
Display resolution	1" / 5" / 10"	√	√
Accuracy	2"	√	√
Distance Measurement			
Minimum reading		0.0001 m	0.001 m
Measurement display	10 digits	√	√
Range	<ul style="list-style-type: none"> ■ Prism: 2 - 3000 m ■ Reflector: 2 - 800 m ■ Non-Prism: 2 - 800 m 	√	√
Accuracy	<ul style="list-style-type: none"> ■ Prism: ± (2 mm + 2 ppm • D) ■ Reflector: ± (3 mm + 2 ppm • D) ■ Non-Prism: <ul style="list-style-type: none"> ● 2 - 150 m: ± (3 mm + 2 ppm • D) ● 150 - 300 m: ± (5 mm + 3 ppm • D) ● 300 - 500 m: ± (10 mm + 5 ppm • D) ● 500 - 800m: ± (20 mm + 10 ppm • D) 	√	√
Telescope			
Magnification	30x	√	√
Field angle	1°30'	√	√
Minimum focus	1 m	√	√
Objective aperture	50 mm	√	√
Image	Erect	√	√
Resolution	3"	√	√
Reticle illumination		10 levels	1 level
Laser pointer	Support	√	√
Guide light	Support	√	√
Compensator			
Compensator type	Dual axis	√	√
Compensator range	±3'	√	√
Compensator resolution	1"	√	√
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 within 0.8 - 1.5 m	√	√
Laser spot	≤2 mm within 0.8 - 1.5 m	√	√
Wavelength	635 nm	√	√
Safety	Class 2	√	√
Output power	0.7 - 1.0 mW	√	√



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Data Management			
Memory	50,000 points	√	√
SD card	8 GB	√	√
Bluetooth	Support	√	√
Software Menu Style			
Text-based	Support	√	×
Icon-based	Support	×	√
Battery			
Voltage	DC 7.4 V	√	√
Capacity	2600 mAh	√	√
Alert	<ul style="list-style-type: none"> ■ Low voltage ■ Power off automatically after 10 minutes 	√	√
Working time	<ul style="list-style-type: none"> ■ Angle and distance measurement: > 8 hours (measure distance every 30 seconds) ■ Angle measurement: > 12 hours 	√	√
Charge time	4 hours	√	√
Physical Specification			
Dimension	170 x 190 x 345 mm	√	√
Screen	<ul style="list-style-type: none"> ■ Alphanumerical keyboard ■ Dual screens ■ 30 x Keys (per side) ■ Graphic LCD (8 lines) 	√	√
Key for fast measurement	Support	√	√
Interface	RS-232C, SD card, mini USB	√	√
Water/dust proof	IP55	√	√
Working temperature	-20°C - +50°C	√	√
Storage temperature	-40°C- +70 °C	√	√
Prism constant range		-99.9 - +99.9 mm	-999.9 - + 999.9 mm
Atmos correction PPM		-499 - +499 ppm	Automatically calculated
Certificate	CE, FCC	√	√



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Edition: 20220114