

# ET2A

## PRECISE ELECTRONIC THEODOLITE

The ET2A is a high-precision electronic theodolite. This device has 2" angle measurement accuracy and a 30x magnification effect to meet various working requirements.



### Absolute Coding

Experience complete coding angle measurement system that is digital, intelligent, stable, and reliable.

### Smart Sensor

You no longer need to worry about tilt errors, for the independent tilt sensor will automatically correct tilt errors.

### Laser Function

Experience a perfect combination of digital theodolite and laser, with laser pointing and laser centering function.

### Long Operation Hours

1600 mAh rechargeable Li-on battery support working for about 20 hours.

### High Quality, Designed for Harsh Environments

Operate the device under harsh environments (like dust, mud, rain, extreme heat, and cold) for many years with a highly integrated circuit board, high-quality IC components, and imported CCD sensor.

### Digital Readings

Digital readings are quick and reliable, making the measurement more efficient.



Website



Social media

# Product Specification

## ET2A

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#### Angle Measurement

Measuring method	Absolute encoder
Diameter	79 mm
Minimum reading	1" , 5" ,10"
Measuring unit	<ul style="list-style-type: none"><li>■ 360°</li><li>■ 400 gon</li></ul>
Vertical angle 0°	<ul style="list-style-type: none"><li>■ Zenith 0°</li><li>■ Horizontal 0 °</li></ul>
Accuracy	2"

#### Telescope

Image	Erect
Magnification	30x
Effective aperture	47 mm
Resolving power	3.75"
Field of view	1°30" (26 mm/1000 m)
Minimum focus	1.5 m
Stadia ratio	100
Tube length	169 mm

#### Compensator

Electronic tilt sensor	Vertical compensation
Compensator range	±3'
Resolving power	6"

#### Level Vial Sensitivity

Plate level	30" /2mm
Circular level	8' /2mm

#### Display

Type	Two sides LCD
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#### Onboard Battery

Power resource	Rechargeable Li-on battery
Voltage	7.4 V dc
Operation time	BDC 1600 mAh (About 20 hours)

#### Laser

Length of the wave	635 nm
Power	10 mW
Effective range	250 m
Position error	≤5"
Voltage	3.3 V dc
Working temperature	-10°C - +45°C

#### Others

Storage temperature	-10°C - +45°C
Dimension	180 m x 166 m x 355 m
Weight	5 kg