

## **ER-GT-15 Miniature Gyro Theodolite**

### **Introduction**

The product can find north with ultra-high precision, and its measurement principle is the integration method, which has the characteristics of strong anti-interference ability and high stability. The gyro-theodolite adopts an integrated body design (built-in battery), compact structure and stable performance. It has the functions of low position lock, automatic zero position observation, automatic north finding, automatic limit position, wide temperature compensation, etc. It is gradually iterating the limiter to provide the north finding accuracy of the reference plane azimuth and reduce the north finding time.

The product adopts DC permanent magnet gyro motor, which can reduce the temperature rise of sensitive parts of the gyro and improve the stability of the equipment. The application of gyro fast braking technology can prolong the service life of the gyro motor, so that the instrument does not need to wait and can run continuously, with auxiliary functions such as deflection body, calibrator, and straightening.

### **Application**

Tunnel penetration measurement

Subway engineering survey

Mine through surveying

College survey teaching

Radar precision orientation

Setting up the azimuth datum

Navigation equipment calibration

Missile testing field

### Specification

Orienteering accuracy	$\leq 15''$ ( $1\sigma$ )
North seeking principle	Integral formula
North seeking time	$\leq 9\text{min}$
Working mode	One-click automatic.
<b>Physical characteristics</b>	
Volume (no theodolite)	$\leq \Phi 200\text{mm} \times h 450\text{mm}$
Weight (excluding theodolite)	$\leq 13\text{kg}$
<b>Use of the environment</b>	
ambient temperature	$-20 \sim +50^\circ\text{C}$
relative humidity	5%-98%
<b>Storage environment</b>	
ambient temperature	$-40 \sim +60^\circ\text{C}$
relative humidity	5%-98%