ER-GT-2 Ultra High Accuracy 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	≤3.6"(1σ)
North seeking principle	Integral formula
North seeking time	≤13min
Working mode	One-click automatic.
Physical characteristics	
Volume (no theodolite)	≤Φ240mm×h480mm
Weight (excluding theodolite)	≤20kg
Use of the environment	
Ambient temperature	-20~+50℃
Relative humidity	5%-98%
Storage environment	
Ambient temperature	-30~+60℃
Relative humidity	5%-98%