

AI Intelligent Recognition of Ground Features Makes Surveying Easier

The AI intelligent recognition function of ground features integrates field surveying, ground feature recognition, electronic sketching, and indoor mapping in mapping work.

Field measurement

Image measurement, survey while walking.

No waiting, higher efficiency.

More pleasant field surveying.

Ground Feature Recognition

Automatically match standard ground feature codes.

Automatically obtain ground feature coordinates.

No need to memorize ground feature codes, saving time and effort.

All-weather AR visual staking out, no waiting for measurement.

Professional imaging algorithm, no fear of strong light or dim light.

The professional AR image processing algorithm can clearly display images whether in strong light during the day or dim light at night, avoiding the situation where images are too bright or too dark to be seen clearly. It enables all-weather operations and ensures the progress of urgent projects.

AR real - scene navigation, guiding stakeout.

Through the arrows displayed in AR images, the direction of the stakeout point is guided, making point finding convenient and fast.

Image stakeout, one - rod in place.

By directly marking the stakeout point on the ground through images, there is no need to move back and forth for confirmation, and the stakeout can be completed with one rod.

Seamless Self - Calibrating Inertial Navigation, Measure Upon Arrival

Measure Upon Arrival, No Need for Leveling

There's no need to specially calibrate the bubble. You can measure as soon as you arrive at the point, which is efficient and fast.

IMU Module, Stable and Reliable

High - precision IMU module, stable and not easy to exit, with reliable precision.



Product Specification

Item	ZG30 AI
static accuracy	Horizontal: $\pm 2.5\text{mm} + 0.5\text{ppm}$; Elevation: $\pm 5\text{mm} + 0.5\text{ppm}$
RTK Accuracy	Horizontal: $\pm 1.8\text{mm} + 1\text{ppm}$; Elevation: $\pm 15\text{mm} + 1\text{ppm}$
Inertial Navigation System (IMU) Update Rate	400Hz
Tilt Angle	0 - 60°
Tilt Measurement Accuracy	8mm+0.3mm/° tilt
Measurement Accuracy	2 - 3cm
Measurement Distance	2 - 15m
Shooting Frame Rate	25Hz
AI Ground Recognition	Supported
AI Cloud Point Generation	Automatically generate cloud points, AI automatically identifies cloud point features, encoding and coordinates
Single Measurement Time	Not less than 5min
Operating Temperature	-40°C - +65°C
Storage Temperature	-40°C - +80°C
Size	Φ129mm×185mm
Weight	0.88kg
Battery Capacity	6800mAh non - removable lithium battery
Working Hours	15h

