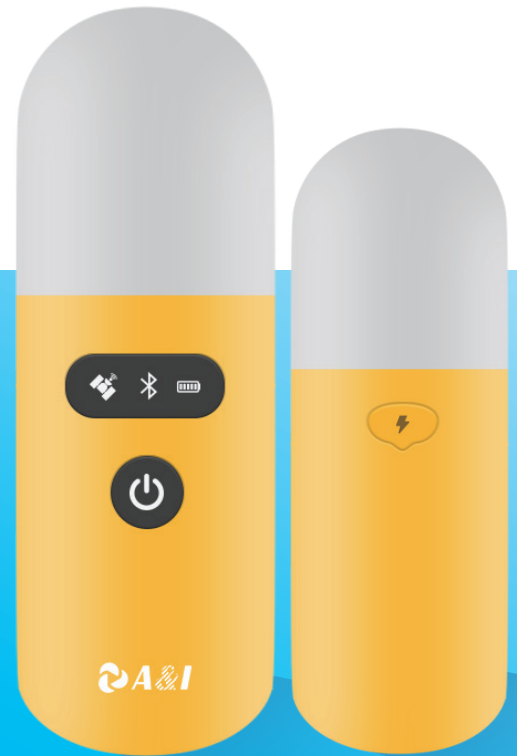




# GeoPOD

## Handheld High-Precision Positioning Collector

A&I GeoPOD is a compact and lightweight handheld high-precision positioning collector. Its unique "capsule" shape design makes it easy to grip and carry. Supporting full-frequency bands and equipped with an integrated IMU module, the tilt measurement algorithm allows for fast measurements within a 0–90° range. Its robust construction and excellent heat dissipation design make it suitable for performing field measurement tasks in complex environments.



- **Full Constellations and Multi-frequency**

It supports BDS, GPS, GLONASS, Galileo and QZSS, with full-band communication, making it suitable for applications in countries around the world.

- **Measurements with a Maximum Tilt of 90°**

The compensation error is within 1.5 cm when the tilt angle is between 0° and 60°, and within 2.0cm for tilt angles close to 90°.

- **Compact, Rugged, and Reliable**

- Compact and lightweight Design allows for flexible storage.
- Integrated structure with IP67 ensures it can withstand rain and harsh weather.

- **Ideal for Multiple Application**

It can be extended to other applications through software upgrades.

# GeoPOD

## GNSS PERFORMANCE

Channels	1408	
Satellites Tracking	GPS	L1 C/A, L2P(Y), L2C, L5
	GLONASS	L1, L2
	BDS	B1I, B2I, B3I, B1C, B2a, B2b
	GALILEO	E1, E5a, E5b
	QZSS	L1, L2, L5
	SBAS	Support
Position	H: $\pm (8+10 \times D)$ mm-6	V: $\pm (15+10 \times D)$ mm-6
	Tilt accuracy with RTK fixed solution: 0°-60° : 1.5 cm , 60°-90° : 2.0 cm	
Update Rate	20 HZ	
Cold Start	$\leq 30$ seconds	
Hot Start	$\leq 3$ seconds	
Speed	$\leq 0.03$ m/s	

## ELECTRICAL

Battery	Built-in, Lithium Polymer Battery 3.7V / 4000 mAh.
Working Time	$\geq 10$ hours
Input Voltage	5V DC / 2A

## SYSTEM

Bluetooth	BT5.3 @BLE
Type-C Port	1 Type-C port
ROM	8 GB
Button	Power button x 1
Indicator	Power indicator x 1, Bluetooth indicator x 1, Satellite indicator x 1

## PHYSICAL AND ENVIRONMENTAL

Size	$\Phi 47\text{mm} \times 140\text{mm}$	Weight	200 g
Operating Temperature	-20°C ~ +60°C	Storage Temperature	-40°C ~ +85°C
Water/Dust-Proof	IP67	Shock Resistance	1.6 m free drop
Humidity	95% No condensation		