

M2Pro

PORTABLE GNSS RECEIVER

To be the Best

GNSS Solution Provider

CE FCC IP67



M2Pro

MINI IMU GNSS RTK

The **Meridian M2Pro** is a user-friendly and portable smart antenna with IMU that offers high-quality positioning data, greatly improves your working efficiency.

Supports multiple constellation and frequency tracking, calibration-free tilt compensation IMU technology, it is designed to be worn and used on-the-go, and it can provide professional-grade results. Equipped with a high precise GNSS module, the M2Pro is capable of achieving centimeter-level positioning accuracy using CORS differential data.



IMU



User-friendly



Portable

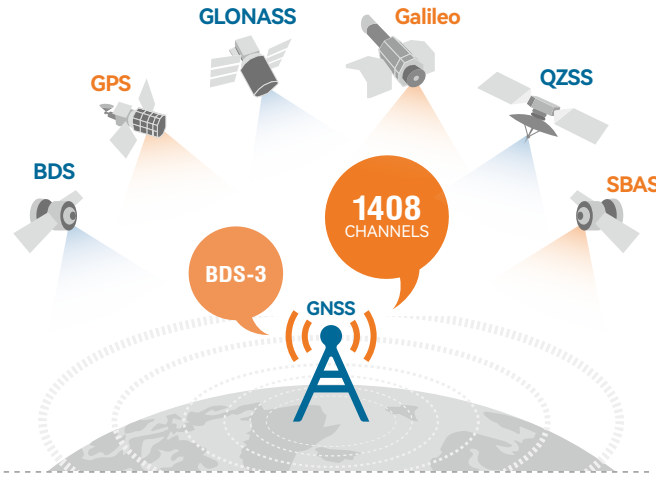


Centimeter-level



Full Constellations and Multi-frequency

The Meridian M2Pro is a versatile device that supports various satellite constellations including BDS, GPS, GLONASS, Galileo, QZSS, and SBAS. With its 1408 channels and full support for BDS-3, it offers comprehensive GNSS signal tracking capabilities.



Built-in IMU Feature

Equipped with calibration-free IMU technology in small body, brings you to focus on your surroundings and not the bubble to measure the points that previously could not be measured, making your stake out more efficiently and conveniently than ever before with increased speed, safety and comfort and greatly improving your working efficiency.



Ideal for Multiple Applications

The M2Pro is suitable for a range of survey and layout tasks, such as road construction, power line surveying, site leveling control, and CAD applications.



Road Construction



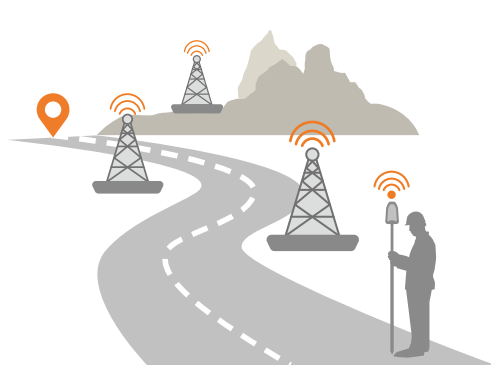
Power Line



Site Leveling

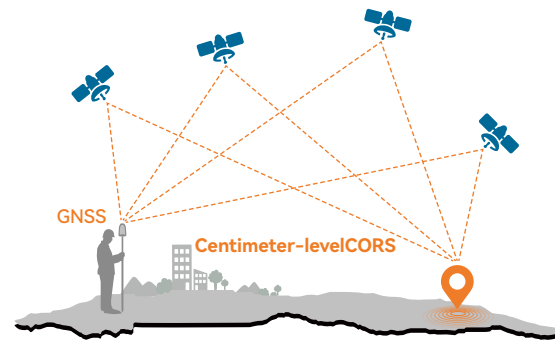


CAD Applications



All-in-view RTK Positioning

Embedded with a high precision GNSS module, the M2Pro supports centimeter-level CORS differential data positioning.



Rugged, Compact and Portable Design



The M2Pro is specifically designed to function effectively in challenging environments.



The M2Pro is incredibly flexible and can be carried in an armband bag, shirt pocket, or attached to a pole using a pouch.



It has excellent heat dispersion properties and weighs less than 170g, making it perfect for mobile surveys.



This provides users with multiple wearable modes, allowing them to choose the mode that best suits their needs and makes their job easier.

TO BE THE BEST

GNSS SOLUTION PROVIDER

- ✓ Designed to Function Effectively
- ✓ Weighs Less Than 170g
- ✓ Incredibly Flexible

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Technical Specification

GNSS Signal [®]	Channels	1408
	GPS	L1C/A, L1C, L2P(Y), L2C, L5
	GLONASS	L1, L2, L3*
	BDS	B1I, B2I, B3I, B1C, B2a, B2b*
	GALILEO	E1, E5a, E5b, E6*
	QZSS	L1, L2, L5, L6*
	SBAS	L1, L2, L5
	NavIC(IRNSS)*	L5
	L-Band	B2b PPP (Only for the Asian-Pacific Region)
	Data Format	CMR, CMR+, RTCM2.X, RTCM3.X
Positioning Performance	Data updating rate	5Hz
	Initialization Time	≤5 Seconds (Typical)
	Cold Start	≤30 Seconds
	Hot Start	≤3 Seconds
	Single Point Positioning (RMS)	Horizontal: 1.5m Vertical: 2.5m
Communication	DGPS (RMS)	Horizontal: 0.4m Vertical: 0.8m
	Real Time Kinematic (RMS)	Horizontal: ±(8mm+1×10 ⁻⁶ ·D) Vertical: ±(15mm+1×10 ⁻⁶ ·D)
	Speed Accuracy	≥0.03m/s
	Tilt Compensation Accuracy (Up to 120°)	≤1.5cm(Tilt Angles≤30°)
	Bluetooth	BluetoothV4.0
Battery	Indicator	Power Indicator x1 Bluetooth Indicator x1 Differential Data Indicator x1 Satellite Indicator x1
	Specifications	8.4 V / 1800 mAh lithium-ion Rechargeable Battery
Environment	Operating Times	RTK Rover: Up to 10 Hours (Typical Power Consumption)
	Operating Temperature	-20°C~+75°C
	Storage Temperature	-40°C~+85°C
	Anti-seismic	1.6m Pole Drop Onto Concrete
	Dust& Waterproof:	IP67
Physical	Humidity	95% No Condensation
	I/O Interface	Type-C& Power Button
	Dimensions	108 mm x 52 mm x 36 mm
	Weight	≤170g

1. *This information is for reference only. The product parameters are subject to changes due to product upgrading without notice.
2. *BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 will be provided through future product upgrade.



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