



M7

GNSS RECEIVER

To be the Best
GNSS Solution Provider

CE FCC IP68

M7 High Performance GNSS Receiver

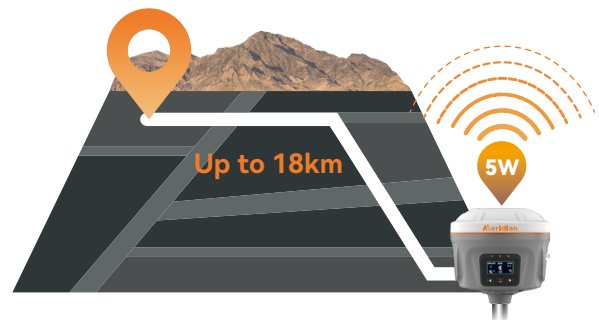
The Meridian M7 features a new-generation RTK engine and supports tilt measurement, allowing for high-precision surveying in complex environments. It also has built-in 4G connectivity, Bluetooth, Wi-Fi, and a 5W data transmission radio, enabling high-speed data transfer and User-friendly WebUI, which improves efficiency and convenience.

The M7 has a removable battery and a rugged design, making it suitable for outdoor and harsh environments. Equipped with 5 watt built-in radio and 32GB internal storage, allowing users to attain accurate, reliable solutions, makes M7 the perfect base station receiver.



Longer Working Distance

Equipping the Meridian M7 with a 5W internal radio offers numerous benefits, including up to 18km range, increased flexibility and improved safety.



Longer Working Time

Offers a longer working time of up to 20 hours with 2 batteries, allowing users to work for an entire day.

Highly Integrated Four-in-one Antenna

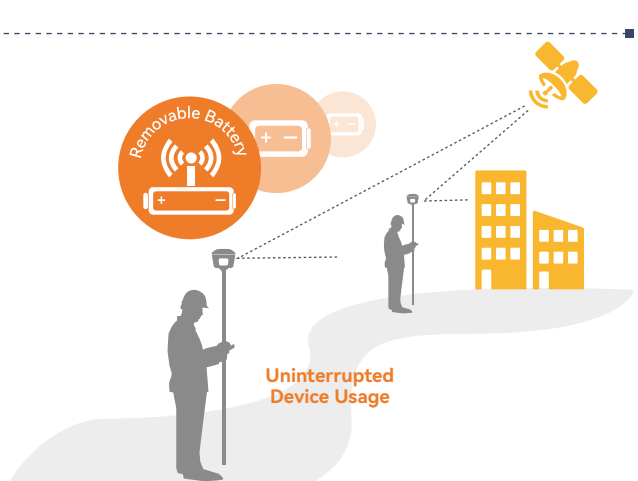


The highly integrated four-in-one antenna on the M7 provides several advantages, including saving space, improving performance and reliability, and reducing the failure rate during use, making M7 more portable and easier to handle, increasing the efficiency and accuracy of measurements.



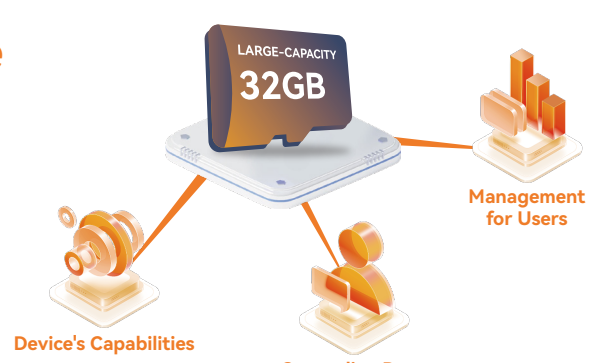
Powerful removable battery

Removable batteries provide flexibility, allowing easy replacement and uninterrupted device usage, enhancing convenience for users. Removable batteries enhance device usability and offer a cost-effective solution for prolonged use.



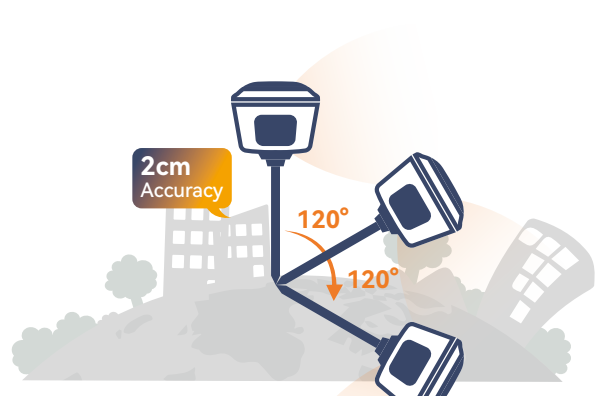
Large-capacity Data Storage

Up to 32GB internal memory is a valuable feature that can enhance the device's capabilities and streamline data management for users.



Enhanced Tilt IMU

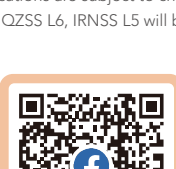
Equipped with calibration-free IMU, support up to 60° tilt angle within 2cm accuracy, and up to 120°, allows for quick and accurate measurements without leveling the pole. Concentrate on where the pole tip needs to go, which is especially useful during a stakeout.



Technical Specification

GNSS Signal [®]	Channel	1408
	BDS	B1I, B2I, B3I, B1C, B2a, B2b*
	GPS	L1C/A, L1C, L2P(Y), L2C, L5
	GLONASS	L1, L2, L3*
	GALILEO	E1, E5a, E5b, E6*
	QZSS	L1C/A, L1C, L2C, L5, L6*
	SBAS	L1, L5*
Positioning Performance	NavIC(IRNSS)*	L5
	L-Band	B2b PPP (Only for the Asian-Pacific Region) & HAS*
	High-precision Static GNSS Surveying	Horizontal: 2.5mm + 0.1ppm RMS Vertical: 3.5mm + 0.4ppm RMS
	Static and Fast Static	Horizontal: 2.5mm + 0.5ppm RMS Vertical: 5mm + 0.5ppm RMS
	Post Processing Kinematic (PPK / Stop & Go)	Horizontal: 8mm + 1ppm RMS Vertical: 15mm + 1ppm RMS
	Code Differential GNSS Positioning	Initialization reliability: Typically > 99.9%
	Real Time Kinematic (RTK)	Horizontal: ±0.25m+1ppm RMS
Communication	Time to First Fix	Vertical: ±0.5m+1ppm RMS SBAS: 0.5m (H), 0.85m (V)
	Tilt Survey Performance	Horizontal: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS
	Communication	Bluetooth: 5.0, 2.4GHz
	Cellular(4G)	WiFi: IEEE 802.11a/b/g/n/ac, 2.4G
	Internal UHF Radio	LTE TDD: 834/38/39/40/41
		LTE FDD: B1/3/5/7/8/20/28
		WCDMA: B1/5/8
Physical	Removable Battery	GSM: B850/900/1800
		Frequency: 410-470MHz
		Transmitting power: 2W / 5W adjustable
Control Panel	Display	Protocols: SOUTH, TRIMTALK 450S, TRIMMK III, TRANSEOT, SATEL, MERIDIANLINK
	LED Lamp	7.2V 7000 mAh lithium-ion rechargeable battery
	Physical Button	RTK Rover (Network) for 10 hours*2 Static: up to 13 hours*2
Environment	Water / Dustproof	1.54 inch OLED Display
	Shock and Vibration	Satellite, Signal, Power
	Humidity	3
I / O Interface	Operation Temperature	IP68
	Storage Temperature	Designed to survive a 2m natural fall onto concrete
	Port	100%, condensing
Data Formats	Output Rate	-45°C ~ +70°C
	Static Data Format	-55°C ~ +85°C
	CMR & RTCM	1 x Micro USB port, 1 x Type C 1xLEMO port(5 Pin)
	Navigation Outputs ASCII	1 x SIM card slot, 1 x Type C port 1 x UHF port
		Up to 20Hz

1. *Description and Specifications are subject to change without notice.
2. *BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 will be provided through future product upgrade.



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