	Meridian M30 Du	ual Cameras Specification	1	
	Channel	14	08	
	BDS	B1I, B2I, B3I, E	B1C, B2a, B2b*	
	GPS	L1 C/A, L1C, L	.2P(Y), L2C, L5	
GNSS Signal	GLONASS	L1, L2, L3*		
	GALILEO	E1, E5a, E5b, E6*		
	OZSS	•	L1C/A, L1C, L2C, L5, L6*	
	SBAS	L1, L5*		
	NavIC(IRNSS)*	L5		
	L-band	B2b PPP (Only for the Asian-Pacific Region)& HAS*		
	Data Format	CMR, CMR+, RTCM2.X, RTCM3.X		
	Data Output	NMEA-0183, RINEX, TXT		
	Data Updating Rate	Up to 20Hz		
	Time to Recapture	<1s		
-	Cold Start	<40s		
Positioning Performance	Single Point Positioning (RMS)	Horizontal: 1.5m	Vertical: 3.0m	
	DGPS (RMS)	Horizontal: 0.4m	Vertical: 0.8m	
	2 17 10 10 10 10 10	Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm)		
	Real-Time Kinematic (RMS)			
	Speed Accuracy (RMS)	0.03m/s		
	Chatia Aaaaaa (DMC)	Horizontal: ± (2.5mm+0.5ppm)		
	Static Accuracy (RMS)	Vertical: ± (5r	Vertical: ± (5mm+0.5ppm)	
	Time Accuracy (RMS)	20ns		
	Speed Accuracy	≥0.03	≥0.03m/s	
	Tilt Compensation Accuracy	≤2cm(Tilt Angle≤60°, Up to 120°)		
	IMU Update Frequency	200Hz		
Communication	Bluetooth	V2.1+EDR/V4.0 Dual Mode		
	WiFi	802.11 a/b/g/n/ac		
	Cellular	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28		
		LTE TDD: B38/39/40/41		
		WCDMA: B1/2/4/5/6/8/19		
		GSM : B2/3/5/8		
	Storage	32GB, Up to 64GB		
	Internal Radio	Transmitting Power:2W(37±1dBm) 1W(30±1dBm)		
		Frequency: 410~470MHz		
		Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT, SATEL, MeridianLink		
		Air Baud Rate: 9600, 19200		
Battery	Specifications	7.4V, 5200 mAh lithium-ion Rechargeable Battery		
	Operating Time	RTK Rover: Up to14 hours (Typical Power Consumption)		
	Operating Time	Static: Up to 22 hours (Typical Power Consumption)		
	Charging	Support USB PD 15V/2A (Supports Quick Charging Adapter)		
-	AR Sensor pixels	Global shutter with 5 MP		
	VR Sensor pixels	Global shutter with 2 MP		
Dual-Camera	VR Field of view	75°C		
	Video frame rate	30fps		
	Image accuracy	2~4 cm 95% (2σ)@10m		
Environment	Operating Temperature	-40°C~+85°C		
	Storage Temperature	-55°C~+85°C		
Environment	Anti-seismic	2m Pole Drop Onto Concrete		
	Dust & Waterproof	IP67		
Physical	Display	0.96" OLED Display		
	I/O Interface	1× USB type-C port; 1 × SMA antenna port; 1× SIM card slot; 1×5 pin LEMO port		
	Dimensions	 i		
	Weight	650g		

^{*}All specifications are subject to change without notice.

⁽²⁾ Accuracy and reliability are determined under open sky, free of multipaths, optimal GNSS geometry and atmospheric condition. PPP accuracy is subject to the region, environment, and convergence time. High-precision static requires a minimum of 24 hours of long-term observation and precise ephemeris.





$\label{prop:www.meridiangnss.com} \begin{tabular}{ll} Website: & $www.meridiangnss.com \\ \end{tabular}$

Manufacture: Guangzhou Meridian GNSS CO., LTD.

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Email: info@meridiangnss.com Tel: +8615241043026



⁽¹⁾ Compliant, GLONASS L3, Galileo E6, Galileo E6 High Accuracy Service (HAS), BDS B2b and SBAS L5 will be provided through future firmware upgrade.

M30 DUAL CAMERAS VISUAL GNSS RTK Combines advanced technology with upgraded high-definition

Combines advanced technology with upgraded high-definition Camera, IMU, and 4G integration, M30 can quickly capture the site in images and measure points either in the field or later in the office, it enables you to measure what you see, such as obstruction points, obstacle points, dangerous points, and map hundreds of points with survey-grade accuracy within minutes and capture the scene quickly and decide what should be measured later-even if the scene subsequently changes or disappears.

Q AR Stakeout

Visual positioning eases point finding by overlaying design files onto real scenes, enhancing stakeout efficiency. A high-performance HD camera achieves high accuracy with precise signal tracking. The 360-degree AR stakeout seamlessly switches between the handheld controller and rover, ensuring fast and accurate stakeout experiences.



QVR for Superior Visual Surveying

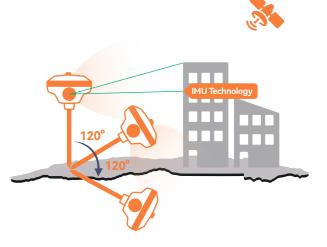
The M30 achieves real-time& non-contact measurement via camera, enabling precise measurements at points where signals are blocked or where access is difficult or unsafe. Its advanced cameras extract survey-grade 3D coordinates from real-world video, maps hundreds of survey-grade accurate points within minutes, providing higher efficiency and reliability.



A%eridian

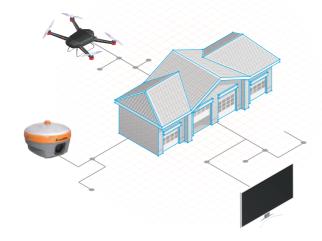
Q Calibration-Free Solution

Equipped with 120° calibration-free IMU technology in a compact body, it complements the laser's outstanding performance, extending the M30's application range to locations that traditional RTK systems cannot reach, opening up new horizons for product applications, enhancing customer satisfaction and boosting operational efficiency.



93D Modeling

The M30's video photogrammetry algorithms enable 3D modeling of buildings and facades. It effectively fuses drone and GNSS RTK data to efficiently perform 3D modeling over large areas. Additionally, the M30 is compatible with industry-standard 3D modeling software.



Q Longer Working Distance

Equipping the MeridianLink protocol internal radio offers 15km working range and increases flexibility. By eliminating the need for an external radio, the M30 becomes more lightweight, less complex, and more portable, which can lead to increased efficiency and convenience in the field.

