

High Specification GNSS

KQ-M6L

M6L is a portable smart positioning terminal that integrates a high-precision positioning module, IMU, 4G, Bluetooth, Wi-Fi, a UHF radio, and laser-based visual technology. It enables high-precision positioning, tilt measurement, AR-based real-scene stakeout, and visual laser point measurement (with a maximum measurement radius of 30 meters). Through the fusion of multiple data links, it meets the operational requirements of various surveying and stakeout

Centimeter level high accuracy

M6L integrated a high-precision positioning module featuring 1,408 high-speed channels. including BDS (B1I, B2I, B3I, B1C, B2a, B2b), GPS (L1 C/A, L1C, L2C, L5), GLONASS (L1, L2, L3), Galileo (E1, E5a, E5b, E6), QZSS (L1, L2, L5), SBAS, and NavIC.

Visualized laser measurement

Equipped with a high-precision millimeter-level laser ranging module and a high-definition camera, and integrates high-precision inertial navigation to achieve laser-guided measurement. Combined with the camera, helping you to easily cope with various complex environments.。

IMU Tilt

With a built-in intelligent high-precision inertial navigation module and real-time tilt compensation, RTK measurements can say goodbye to "flying points".

Multi communication

Support 4G networks, Bluetooth, UHF radio, and WIFI connection

Compact, lightweight, long battery life

Weighing only 200g, the device is easy to carry around. ultra-low power consumption and a built-in 5000mAh lithium battery, over 10 hours using.

KanQ



Feature

- Cortex-A7 + Linux system
- BDS、GPS、GLONASS、Galileo and QZSS
- Centimeter Visualized laser survey
- IMU tilt 120 degree, 60 degree≤ 2cm accuracy
- Support 4G、bluetooth ,UHF radio and WIFI, Static
- Compact and plam size
- Long working time
- ABS+PC, meet IP67 protection level



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Configuration		Specifications	mark
Hardware		Cortex-A7	
Software OS		Linux	
GNSS	GPS	L1 C/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	
	SBAS	L1	
	Channels	1408	
	Format	NMEA-0183	
	Protocal	RTCM3.X	
	Update rate	20Hz Max	
Accuracy	Single (RMS)	Horizontal:1.5m vertical:2.5m	
	RTK(RMS)	Horizontal:0.8cm+1ppm vertical:1.5cm+1ppm	
	Static (RMS)	Horizontal: $\pm(2.5\text{mm}+1\text{ppm})$ vertical: $\pm(5\text{mm}+1\text{ppm})$	
	AR Stake out	Horizontal: $\pm(8\text{mm}+1\text{ppm})$ vertical: $\pm(15\text{mm}+1\text{ppm})$	
	Laser survey	5m within $\leq 2.5\text{cm}$ 10m within $\leq 5\text{cm}$	
	IMU Tilt	<2cm (60° within) Degree 120°	
System platform	Network	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	
	WIFI	802.11 b/g/n/ac	
	Bluetooth	BR+EDR+BLE	
	Radio	frequency: 410~470MHz Protocal: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT,CSS Air baud rate: 9600, 19200, 11000, 62500	Only receiving
	Laser	Type: Class 3R green distance: 30m accuracy: $\pm 5\text{mm} \pm 100 \times 10^{-6} \times D$, D is distance Laser wavelength: $520 \pm 20\text{nm}$ Laser power : 3.8mW	
	AR camera	Sensor size: 1/3.06inch Pixel: 4224x3200 Perspective: D44° H35° V26.5° Distortion: <1%	
LED	Storage	8GB,	
	Power	Power status	

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	satellite	Receiving satellite status	
	Difference	Receiving difference status	
	Bluetooth	Bluetooth connection status	
Environment	Working	-20°C~+60°C	
	Storage	-40°C~+85°C	
	Protection	IP67	
Physical	material	PC+ABS	
	size	69x135.5x44mm	
	weight	200g	TBD
Charger	Power	3.85V 5000mAh	
	Time	10 hours	TBD
	charge	5V2A	
Parts	M6L	1 *	
	Convertor	1 *	
	UHF antenna	1 *	SMB port, 450~470MHz
	5V/2A USB adaptor	1 *	
	USB TYPE C	1 *	

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