

Introduction

Established in May 2001 in economic and technological development zone in Beijing, now KQ GEO, as a high-tech private enterprise, has developed into 3S fields containing both software and hardware covering surveying and mapping, GIS services.

As Beijing enterprise technology center, KQ GEO also wins more than 10 kinds of honors such as the Advanced High Technology Enterprise, grade A Qualification of Surveying and Mapping, Double Software Certification, Computer System Integration. Till now, KQ GEO is already with over 800 employees, and owns more than 200 million RMB fixed assets.

KQ GEO has several offices in different districts in Beijing, such as Zhongguancun, Economic and Technological Development Zone, Daxing, Huairou, Tongzhou, etc. Besides, KQ GEO has invested 120 million to build the "KQ GEO Building" covering 14000 square meters in Economic and Technological Development Zone in Beijing, which is already completed. In addition, there are about 31 branched in different cities in China, 4 researching and developing centers in Beijing, Wuhan, Ji'nan, and Hefei, and over 20 oversea distributors abroad.

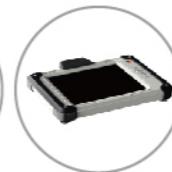
Dealers



M8



K8



N8



T80



L8

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M8 SERIES

M8 Smart RTK, New Power

- BD970 motherboard
- GPS+GLONASS+BEIDOU
- LINUX system
- 8G memory
- U Disc extension
- Automatically firmware updating
- Multi-function keys
- Internal bluetooth
- Internal GSM modem
- Full spectrum UHF
- Powerful 35W external radio
- Support self-built NTRIP server
- Audio guide
- Professional GIS collector



M8 Intelligent RTK New trend of surveying



Support all satellites systems



Modular Design



Intelligent system



Transmitting - receiving radio



Simultaneous GSM and radio working mode



Mass storage



GSM/CDMA



USB Extension



Professional GIS collecting software



Industry application software

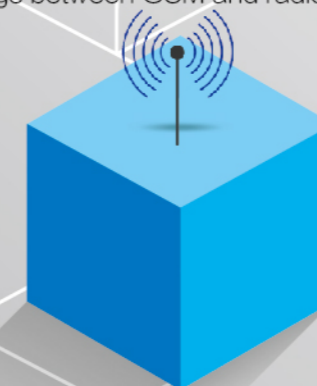
■ Intelligent LINUX system

Integrated with the advanced LINUX system and audio guidance, with mass storage, M8 offers users rich functions by very easy and friendly operations as well as good self-error correcting capability.



■ Simultaneous GSM and radio working mode

M8 base receiver support transmitting differential data in GSM mode and radio working mode simultaneously, perfectly satisfying flexible rover working mode changes between GSM and radio



■ 410MHz~470MHz radio

Built-in transmitting-receiving UHF, 0.5W/2W adjustable.



■ Support all satellites system, including BDS

Surveying GNSS antenna, support GPS, GLONASS and BDS



■ Support U disc storage extension

Support U disc storage extension up to 64GB, support hot plug, preventing data loss

■ M8 Intelligent RTK



- 1** **Surveying GNSS Antenna**
Good and stable performance in tracking satellites and positioning, especially in harsh environment
- 2** **Built-in transmitting-receiving UHF**
Built-in 2W transmitting-receiving UHF, enabling long distance work range by cooperation with 35W external radio
- 3** **Mass storage**
Internal 8G memory, while support U disc extension up to 64G
- 4** **Simultaneous GSM and Radio transmitting**
M8 base receiver support transmitting differential data in GSM mode and radio working mode simultaneously, perfectly satisfying flexible rover working mode changes between GSM and radio

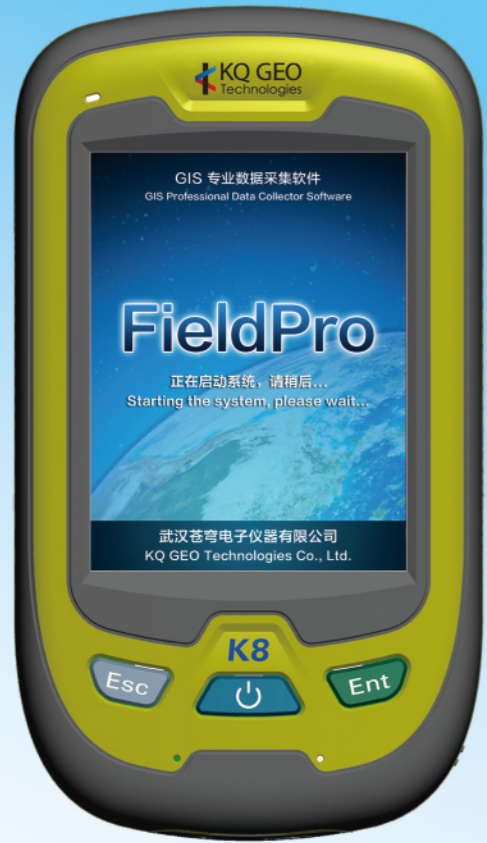
- 5** **Audio guidance**
With audio guidance for operation convenience
- 6** **Bluetooth auto-reconnection**
The Bluetooth will reconnect automatically after disconnected, improving fieldwork efficiency
- 7** **Advance motherboard**
Advanced BD970 or NovAtel motherboard integrated to ensure good and stable performance
- 8** **Compatible with various CORS**
Support various CORS such as VRS, MAX, as well as single reference station CORS



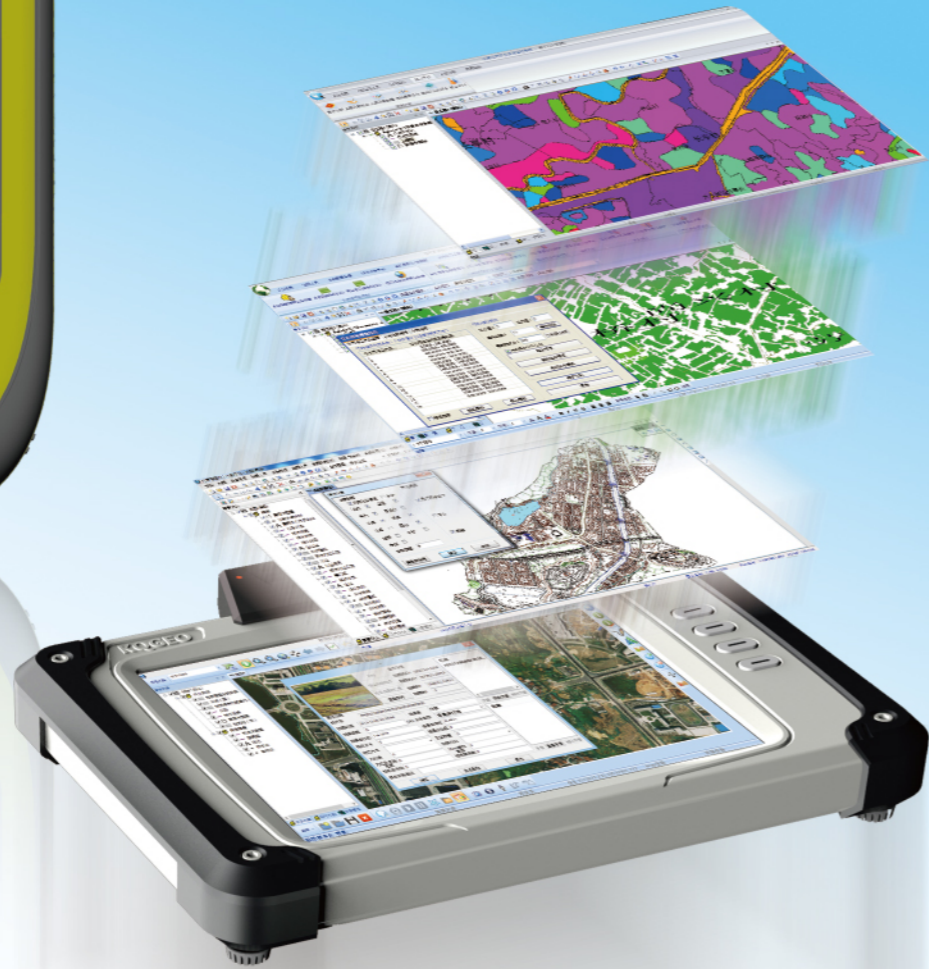
M8

M8 Intelligent RTK
New trend of surveying

SERIES



FieldPro



FieldPro fieldwork collecting software

Multiple functions contain surveying, GIS collection, road, coordinate system, sky plot and etc.

GIS data collection

Support customized feature definition, support various data format for importing and exporting

Fast map loading

Support various vector data format loading such as shp., whs. Loading 10GB image or hundred MB vector map as background very fast

M8 Technical Specifications

System		
Processor	454MHz industrial level processor	
Memory capacity	256M Byte DDR2 SDRAM	
Saving capacity	2G Byte NAND Flash	
GNSS technical parameters		
Mother board type	Compatibility with multiple- frequency multi-satellite mother boards, such as BD970, BD920, OEM615, OEM 628 and so on	
Tracking channel	220 channel (BD920) : -GPS: L1 C/A, L2E, L2C, L5 -GLONASS: L1 C/A, L1 P, L2 C/A, L2 P -GIVOVE-A/B -BD-2: B1/B2 -SBAS	120 channel (OEM615): -GPS: L1, L2, L2C -GLONASS: L1, L2 -Galileo: E1、GIVOVE-A/B -Compass -SBAS
	Positioning accuracy	
Single point positioning: 2-3 m		
Static network post-processing: horizontal: $\pm(2.5\text{ mm} + 1\text{ppm})$ height: $\pm(5\text{ mm} + 1\text{ppm})$		
PPP(static) post-processing: 5cm		
PPP(dynamic) post-processing: 10cm ~ 20cm		
Dynamic route post-processing: 5cm ~ 20cm		
RTK: horizontal: $\pm(10\text{ mm} + 1\text{ppm})$ Height: $\pm(20\text{ mm} + 1\text{ppm})$		
Communication parameters		
GSM/3G	WCDMA(850/900/1700/1900/2100MHz) GSM (850/900/1800/1900MHz)	
Bluetooth	2.4GHz V2.0+EDR	
U disc	Support U disc storage extension up to 64GB, support hot plug	
Built-in UHF	Adjustable 0.5W/2W, support 5 km working distance, 9600 or 19200bps	
Indicator led	Power led, satellite led, communication led	
Key	One power key, two function keys	
Port	USB 2.0	
	RS232 serial port, debugging port	
	TNC UHF antenna port	
Application function	Speaker for voice broadcast	
Power supply		
Battery	Dual power supply + assistant battery design (4400mAh \times 2+650mAh), the main battery supports hot plug, changing battery without powering off	
External power supply	Support 9~36V DC battery as power supply; Support 220V AC as power supply	
Hardware physical		
Size	$\phi 184.5 \times 105\text{mm}$	
Weight	1.5kg (with battery)	
Working circumstance		
Working temperature	- 45 $^{\circ}\text{C}$ ~+65 $^{\circ}\text{C}$	
Memory temperature	- 55 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$	
Water/ dust-proof	IP67	