



MAGIC SPECIFICATIONS

GNSS Performance	Channels	1408/1808(upgradable)
	Satellites Tracking	GPS:L1C/A/L2P(Y)/L2C/L5 GLONASS:L1/L2 BDS:B1I/B2I/B3I/BIC/B2a/B2b Galileo:E1/E5a/E5b/E6 QZSS:L1/L2/L5/L6 SBAS:L1
	Positioning Rate	Up to 50Hz
	Operation System	Linux
	Initialization Time	<5s(Typical)
	Initialization Reliability	99.99%
	Static Horizontal Accuracy	$\pm(2.5\text{mm}+0.5\times 10^{-6}\times D)$
	Static Vertical Accuracy	$\pm(5\text{mm}+0.5\times 10^{-6}\times D)$
	RTK Horizontal Accuracy	$\pm[8\text{mm}+1.0\times 10^{-6}\times D]$
LCD	RTK Vertical Accuracy	$\pm(15\text{mm}+1.0\times 10^{-6}\times D)$
	Size	1.39 inch
IMU Sensor	IMU	Supported
	Accuracy	< 2cm(within 60°)
	Tile angle	0~120°
Data Output	Correction Data	RTCM2.X, RTCM3.X
	GPS Data	NMEA 0183s RJK, Binary
Function Configuration	Tilt Survey	Supported
	PPK Survey	Supported
	Buzzer	Supported
	NFC	Supported
	Size	132*132*109 mm
Feature	Weight	0.85kg
	Operating Temperature	-45℃~+75℃
	Storage Temperature	-55℃~+85℃
	Water/Dust Proof	IP67
	Shock Resistance Grade	Ik08
	Shock	Survive 1.8m drop
	Static Data Format	TXT
Static Data Recording	Data storage	32G
	Battery Capacity	7.2V, 6600mAh
Electrical	Working Time	18 hours with rover CORS work mode 7.5 hours with 1.5W base mode
	External Power	USB Type-C power,power bank supported
	I/O Port	1*USB Type C(power supply and charge) 1*TNC radio antenna port 1*NanoSIM card slot 1*Power key
Communication	Wireless Communication	Supports Buletooth,controller 4G,WIFI,bulit-in 4G-LTE,WEB UI LTE-TDD B38/B40/B41 LTE-FDD B1/B3/B5/B7/B8/B20 UMTS/HSPA+ B1/B8 GSM/GPRS/EDGE 900/1800 MHz
	Radio Transmit Power	1.5W
	Long Range radio(Lora)	Supported
	Internal Radio Frequency	410-470MHZ
	Protocol	TRIMTALK450S, SATEL, TRIMMARKIII, SOUTH9600, SOUTH19200,Lora

GUANGZHOU INTEC SURVEYING TECHNOLOGY CO.,LTD



Magic

High LCD Touch Screen



New Generation High-precision IMU Automatic Initialization Upon Startup

- *Newly upgraded seamless super IMU, 120° large angle without initialization, bidding farewell to shaking.
- *After initialization is complete, there is no need to exit. The inertial navigation can be used whenever the receiver is shoulder-resistant,hand-held, or horizontally placed.
- *No need to look at the bubbles, point to measure, with reliable accuracy.



Large High-definition LCD Touch Screen

With touch screen,you can change the receiver mode easily 1.39 inch High-definition LCD displayshowing real-time coordinates, solution status,satellite numbers, and other data.



Bulit-in 1.5W radio with Lora long range protocol

Equipped Bulit-in 1.5W radio with lora protocol ,the working range of the radio can reach over 10km ,effectively improving the efficiency of the surveyor's work.