GINTEC

G20M

▶▶▶ Key Features

① Small and Light Design

With only 580g magnesium alloy design, G20M is a powerful productive rover for surveyors in topographic and mapping, infrastructure and construction.

Full Constellation Tracking ②

G20M can track full constellation GNSS satellites: GPS, Glonass, Galileo and BeiDou. It maximizes the tracking to observe all visible and available GNSS satellite signals. With the aid of UGypsophila RTK processing tech, G20M uses and locks more satellites, thereby performing better for real-time reliable data accuracy.

③ IMU Tilt Survey Compatible With SurPad

Integrated with new calibration-free IMU module and based on 4th generation pole-tilt compensation tech, G20M enables points to be measured or staked out even if surveyors tilt the pole while walking. Surveyors could focus on their job at hand and complete work faster.

Fast-Charge Tech ④

G20M provides type-C charging interface and supports multiple fast charging protocols. Surveyors can charge G20M using portable phone battery anytime and anywhere.

⑤ Long Life Battery

With a built-in large- capacity lithium battery, G20M can last all day. Smart power button design can indicate battery level even in shutdown status.

Smart WEB UI Control ⑥

To provide a friendlier experience for first-timers and experienced users, we provide users with 2 kinds of WEB UI: Smart version and Professional version.

Technical Parameters

• GNSS

Channel	432
Satellites	GPS: L1,L2,L5 GLONASS: L1,L2 BDS: B1,B2,B3 Galileo: E1,E5A,E5B QZSS: L1,L2,L5 SBAS: L1
Cold start	$<$40s
Signal recapture	$<$1s

• Accuracy

Static Accuracy	Horizontal: $\pm(2.5+0.5\times10^{-6}D)$mm Vertical: $\pm(5.0+0.5\times10^{-6}D)$mm
DGPS Accuracy	Horizontal: 0.4m; Vertical: 0.8m
RTK Accuracy	Horizontal: $\pm(10+1\times10^{-6}D)$mm Vertical: $\pm(15+1\times10^{-6}D)$mm
Time Accuracy	20ns
Tilt Measurement Accuracy(within 30°)	$<$2cm
Update Frequency	5Hz

• POWER

Battery	Built-in Battery,9600mAh 3.7V
Duration	$\geqslant$9h
Input	5V/2A DC

• INTERFACE

Type-C	Charge and Data Transmission
Other	Nano SIM Slot

• SYSTEM

Operation System	Linux
Memory	32G Internal
Bluetooth	V2.1+EDR / V4.0 Dual Mode
WIFI	802.11 a/b/g/n/ac
4G Network	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39 CDMA: BC0 WCDMA: B1/B8 GSM: 900/1800MHz
Tilt Survey	IMU Tilt Survey Compatible with SurPad

• Operation

Button	Power Button
Indicator	4 indicators: Satellites, Datalink, Bluetooth, Power

• Physical

Material	Magnesium alloy main body, ABS/PC top cover
Dimension	100mm*100mm*61.5mm
Weight	555g

• ENVIRONMENT

Work Temperature	−20℃ ～+60℃
Stock Temperature	−40℃ ～+80℃
Waterproof/Dustproof	IP65 Standard
Shock and Vibration	Withstand 1.5m pole drop onto the cement ground
Humidity	100%