P3
Handheld Controller
Your reliable partner in surveying and mapping.

A durable and practical tool for surveying and mapping. With IP68 industrial-grade waterproofing, dustproofing, and shockproofing. Its 5.5-inch FHD display, 800 Nits screen brightness, and 9000mAh battery provide clear visuals and up to 20 hours of continuous operation. Experience the power to conquer any terrain with precision and efficiency.

Create Yours

KEY FEATURES

5.5 Inch
High-Brightness Display

800 Nits
Sunlight-readable with enhanced visual experience

1080*1920
Resolution

Corning Gen3
Excellent strength and durability

8 Cores
Processors

9000mAh
High-Capacity Battery

4+64G
RAM+ROM

SPECIFICATIONS

Positioning

Channels	1408
GPS	L1C/A,L1C,L2P(Y),L2C,L5
GLONASS	G1,G2,G3
BDS	B1,B2I,B3I,B1C,B2a,B2b
GALILEO	E1,E5a,E5b,E6
QZSS	L1,L2C,L5,L6
NAVIC(IRNSS)	L5
SBAS	L1C/A
PPP	B2B-PPP	E6-HAS
Data Update Frequency	50Hz
Positioning Frequency	1Hz 2Hz 5Hz 10Hz 20Hz 50Hz
Cold Start Time	<12s
Initialization Time	<5s
Initialization Confidence	>99.9%

Measurement Accuracy

Static Mode Accuracy	H:±2.5mm+0.5ppm V:±5.0mm+0.5ppm
Single Point Solution Accuracy	H:1.5m V:2.5m
Differential Solution Accuracy	H:0.4m V:0.8m
RTK Accuracy	H:±8.0mm+1ppm V:±15.0mm+1ppm
Time Accuracy	20ns
Tilt Measurement Accuracy	≤2.5cm within 120°

Power

Battery Life	Static 30h, Rover 20h, Base18h
Power Supply	Built-in Li-ion 9V/2A, 5V/2A, MAX18W 3.6V_6800mAh

Physical

Material	Magnesium alloy main body. ABS/PC top cover
Dimensions	Φ130mm*70mm
Weight	750g

Operation

Button	Power Button
Indicator	Satellite Signal Light, Data Transmission Light, Current Battery Light

System

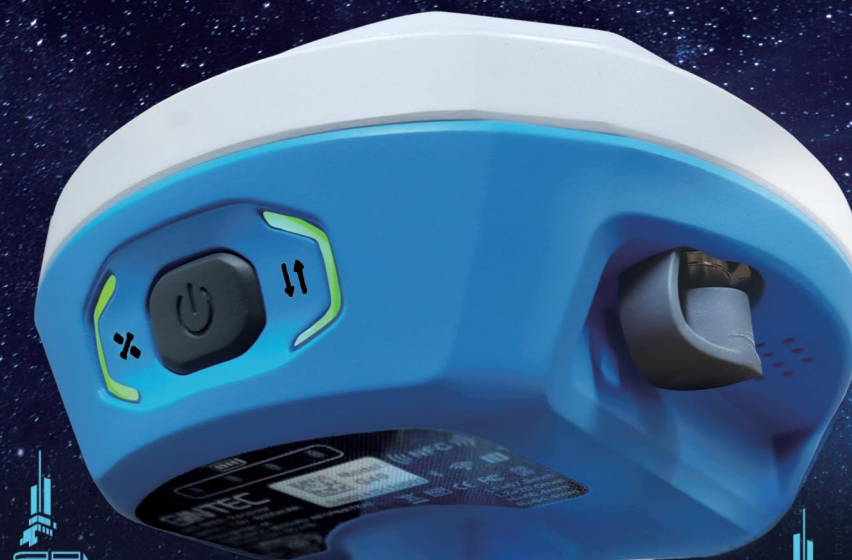|	
Operating System	Linux
Memory	8G
Data Transmission	4G/Bluetooth/WIFI/Radio
Bluetooth	V5.0,BLE
WIFI	802.11a/b/g/n
Radio Power	1W
Radio Frequency	410-470MHz
Air Baud Rate	19200、9600、4800
4G Network	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8
Supported Protocols	Gintec Work, TrimTalk450s(T), TrimMark III, SOUTH, PCC-EOT, Hi-target, Satel, Farlink, etc.
Supported Languages	Chinese, English,Polish, Turkish, Korean, Indonesian, Spanish, Telugu, Russian, etc.
Data formats	RTCM2.x,RTCM3.x, CMR input/output , RINEX2.11,3.02 NMEA0183 output NTRIP Client, NTRIP Caster

Camera

2 Mega CMOS image sensor	
Optical Format	1/5 inch
Pixel Size	1.75um*1.75um
Active Pixel Array	1616*1232

Environment

Operating Temperature	-30℃~+65℃
Storage Temperature	-40℃~+80℃
Waterproof Dustproof	IP68
Shock and Vibration	Withstanding 2m pole drop onto the cement ground
Humidity	99.9%

GINTEC
TAKE POSITION ASSURED

G40 AR+ VISUAL STAKEOUT
GNSS RECEIVER

Augmented Reality (AR)

Professional Camera

New-Generation SoC

Calibration-Free Tilt Compensation

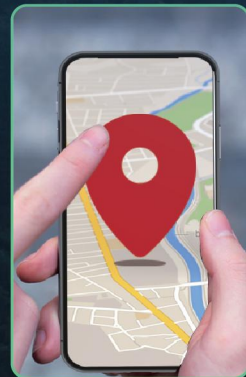G-FIX Correction Outage Technology

Anti-Interference Technology

G40

AR VISUAL STAKEOUT GNSS RECEIVER

The integration of AR visual stakeout functionality with all-terrain GNSS receivers enables accurate and fast stakeout operations, improving work efficiency.

GINTEC

Augmented Reality Experience

Immersive virtual reality experience by combining geographical locations and real-world scenes with virtual information through AR technology.

High-Precision Stakeout

The integration of AR visual stakeout functionality with all-terrain GNSS receivers enables accurate and fast AR visual stakeout operations, improving work efficiency.

0.004m

Real-Time Navigation Guidance

AR visual stakeout functionality provides real-time navigation guidance within the users' field of view, helping users quickly and accurately locate target positions for AR visual stakeout operations.
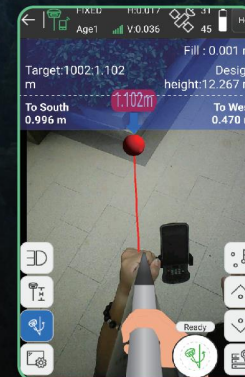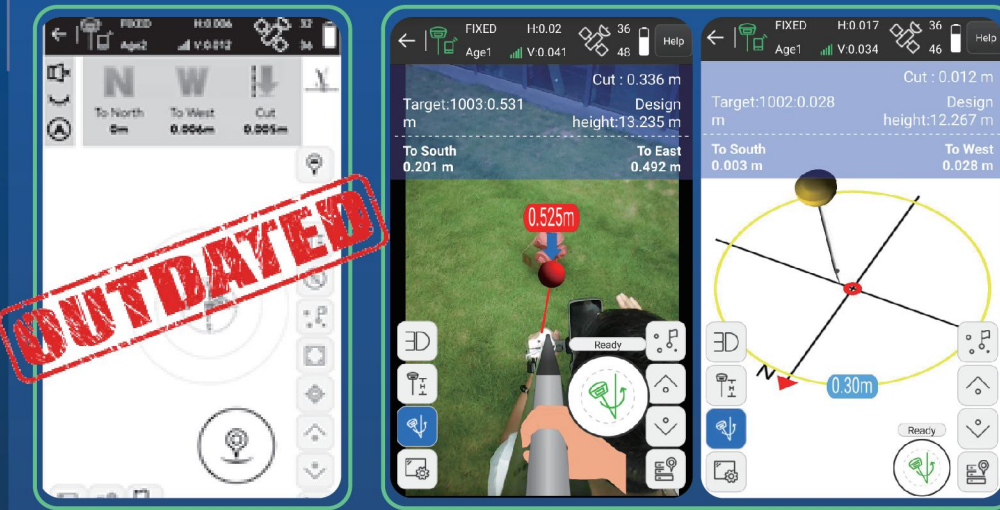
45.35m
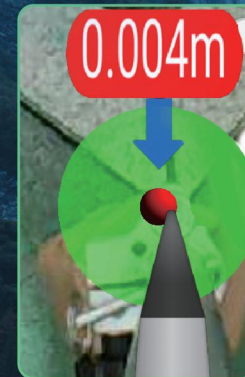
Visualized Data Display

AR visual stakeout function visualizes geographic data, allowing users to intuitively understand landforms, features, and other relevant information.
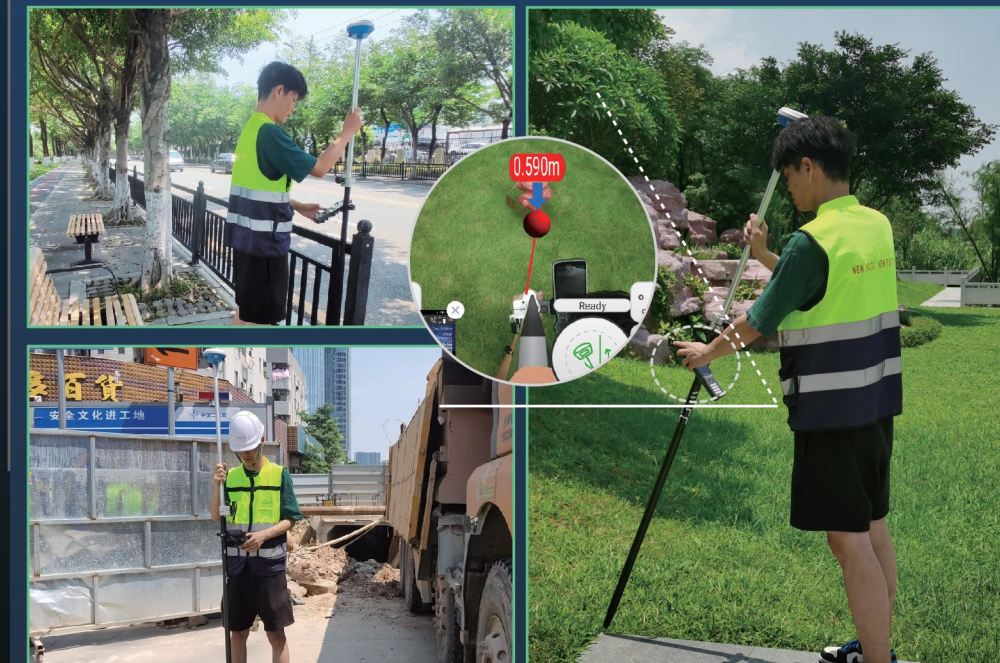

AR Stakeout, One Step Ahead

OUTDATED

Traditional | New AR Stakeout Technology

Enhancing Precision, Accelerating Productivity

0.590m

1408

Powerful GNSS SoC chip with 1408 Channels. GNSS data quality and signal tracking capabilities are promoted by over 20%.

5+22

Upgraded with our GINTEC 5-satellite + 22-frequency solution engine, the chip's computational power is boosted by 40%, enabling precise calculations by using a wider range of satellite frequencies.

30%↑

Calibration-free tilt compensation can boost surveying, engineering, and mapping efficiency by 30%.
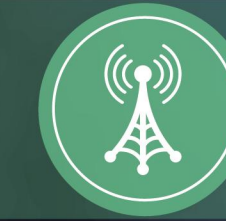
50%↑

Our advanced technology enables quick completion in seconds, increasing efficiency by up to 50% even for field operators.

Key Features

Augmented Reality (AR)
- Overlaying digital information onto the real world
- Assisting to view the stakeout location and see designed features in real time

Professional Camera
- High-resolution night vision camera
- Broad perspective, sophisticated algorithms guaranteeing the precision up to 1cm
- Seamlessly combining 360-degree AR visual stakeout and image AR visual stakeout

Super Protocol—GintecWork
- Strong signal transmission ensures a stable and efficient communication experience
- Support 18 radio protocols to meet various communication needs
- Long-range transmission capability establishes reliable communication connections with other devices and users

G-FIX Correction Outage Technology
- Extending Fixed solution up to 10mins
- Reducing downtime waiting to re-establish RTK corrections

G-FIX

Calibration-Free Tilt Compensation
- Calibration and initialization FREE
- Ready for tilt survey straight out of the box

New Antenna Combination
- Highly integrated GNSS,4G, WIFI, and Bluetooth antennas
- Powerful performance. Smaller size.

New-Generation SoC
- Powerful GNSS SoC chip with 1408 channels
- Supporting the new B1C, B2a, B2b, and BeiDou-3
- G-FIX supported

Anti-Interference Technology
- Multi-frequency interference suppression and multi-step adaptive filtering technology
- Receiving strong and stable signals in challenging conditions

Built-in Battery. Quick Charging
- Supporting multiple fast charging protocols, Max 18W
- Charging time ≤ 3.5 Hours
- Battery life ≥ 2000 Circles