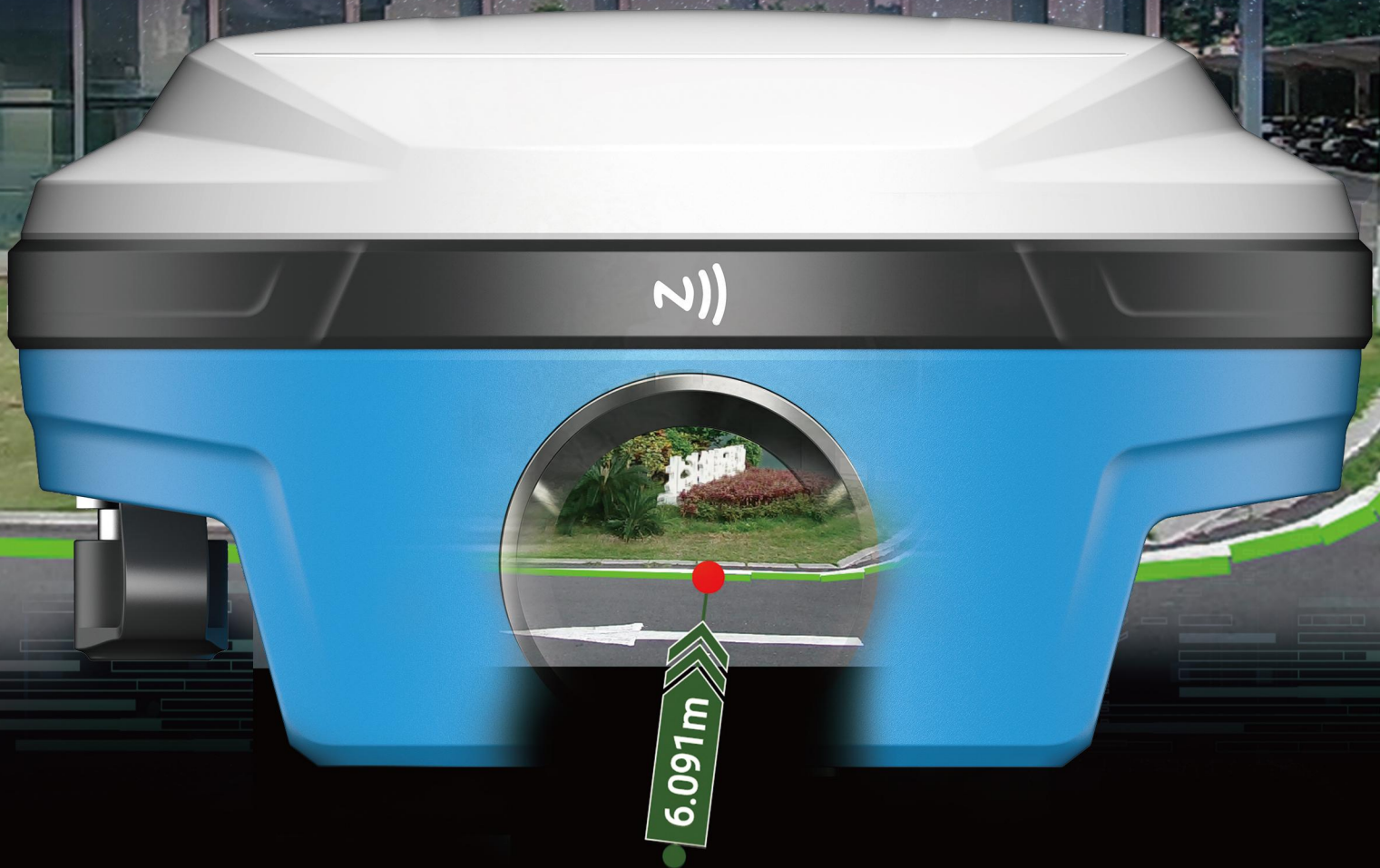


G40Pro Dual-Camera Visual RTK

GNSS Receiver



G40Pro

CAD+Dual-Camera

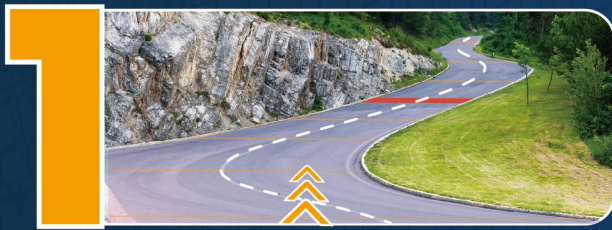
Overall Stakeout

Efficiency **40%**

A One-Step Solution for Foundation Planning Across Transportation, Energy, Landscape, Urban Lighting, Drainage, and Safety Systems – Unifying Design, Measurement, and Construction Validation in a Seamless Workflow



One-Step Foundation Construction Planning



AR Overlay for Road

Real-time AR visualization projects road centerlines and cross-sectional profiles directly onto real-world terrain, accelerating road surveying, field stakeout, and construction verification with centimeter-level accuracy.



Power Infrastructure Planning Construction

Power Infrastructure Planning and Construction, Key Design Elements for Clash Detection with Existing Features and Streamlined Energy Workflow Optimization



Smart Pipeline Stakeout and Survey

From Design to Reality: Smart Pipeline Stakeout & Survey with AI-Driven Precision.
Real-Time GNSS/RTK Guidance, AR-Assisted Field Marking, Dynamic Clash Avoidance.



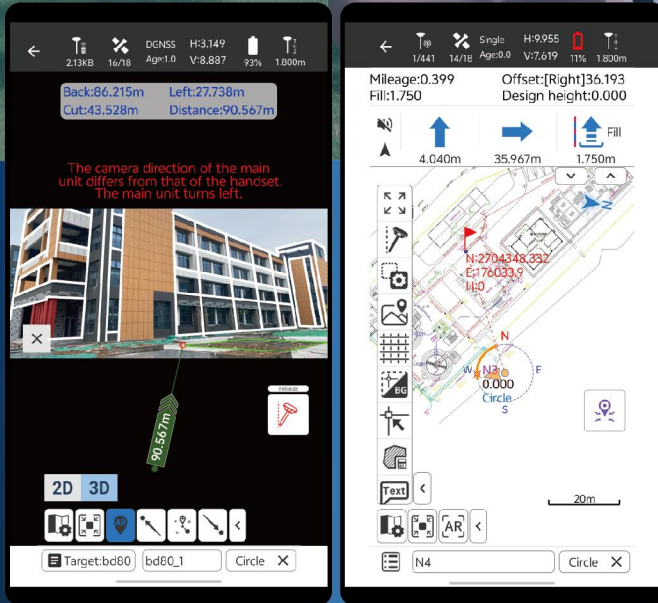
Slope Security

Ensure slope stability and optimize design with AR-visualized DSM stakeout. Simplify earthwork volume calculations (cut/fill) and maintain long-term slope integrity through periodic monitoring.



CAD Stake-Out :

Enhance Efficiency and Simplify Operations



Manual editing of point libraries is no longer necessary, streamlining the staking-out process. Users can work directly from CAD drawings, eliminating the need to obtain coordinate files beforehand, making it faster and more efficient to stake out geometric shapes. Additionally, the simultaneous display of online maps and CAD drawings enhances accuracy, while AR guidelines provide an intuitive and user-friendly experience, further simplifying the staking-out procedure.



Live-View Quick Stakeout:

More Accurate, More Precise, More Smart

The dual-camera G40 PRO GNSS receiver enhances the stake-out experience through the CY software, which integrates both cameras effectively. At medium to long distances, the front-facing camera guides the direction of travel, while the downward-facing camera accurately pinpoints locations at closer ranges, significantly accelerating the staking process. Furthermore, AR guidelines are available for point, line, and CAD staking out programs, offering users enhanced visual assistance.



Key Features



Streamlined Palm-Sized Visual-Inertial RTK

- Power and Portability, Perfected.
- 692g. Full-featured (GNSS, Auto-IMU, cameras). Half the size. Double the efficiency.
- Ideal for the field: where durability meets real-world agility.



Endurance Engineered for Pros

- Extreme battery life. Zero anxiety.
- Rapid recharge. Reduced downtime.
- Unwavering reliability for non-stop field operations



Up to 120° Tilt

- Maintain high accuracy beyond traditional tilt limitations.
- Fifth-gen inertial navigation compensates for extreme instrument angles.
- Confidently measure on slopes, embankments and complex structures.



New Upgraded Radio Module

- Robust performance minimizes interruptions for accurate data transmission.
- Support GINTECWORK and 18+ protocols to meet diverse needs.
- Up to 7 kilometers for reliable long-distance communication.



GALILEO HAS & BDS PPP

- Access Galileo's free high-precision HAS via E6-B signal worldwide.
- Utilize BDS PPP corrections at no additional cost in coverage zones.
- Eliminate subscription fees while maintaining premium accuracy.



Starlight Vision

- Adaptive exposure automatically optimizes for low-light conditions.
- Capture survey-grade points well.
- Enhanced dual-camera system boosts GNSS availability for efficient work.

SPECIFICATIONS



Positioning

Channels	1408
GPS	L1C/A,L1C,L2P(Y),L2C,L5
GLONASS	G1,G2,G3
BDS	B1I,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°



Physical Properties

Shell Material	Magnesium-Aluminum Alloy
Weight	692g
Dimensions	Φ124*69.5mm
Button	Power Button
Indicator Lights	Satellite Signal Light, Data Transmission Light, Current Battery Light



Power

Battery Life	Static 40h,Rover 25h,Base 20h
Power Supply	Built-in Li-ion 9V/2A MAX18W 3.6V_9800mAh



System

Operating System	Linux
Memory	8G
Data Transmission	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
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.



Camera

Number of Lenses	2
Front Lens Field of View	83.4°
Front Sensor Pixel	2 Mega Pixel
Front Camera Focal Length	5m
Front Sensor Resolution	1920*1080
Bottom Lens Field of View	83.4°
Bottom Sensor Pixel	2 Mega Pixel
Bottom Camera Focal Length	2m
Bottom Sensor Resolution	1920*1080



Environmental Adaptability

Operating Temperature	-30℃~+65℃
Storage Temperature	-40℃~+80℃
Water and Dust Resistance Rating	IP68
Operating Humidity	99.9% non-condensing