Specifications

Satellite system

Channel：1408
BDS: B1I/B2I/B3I/B1C/B2a/B2b
GPS: L1C/A/L2P (Y)/L2C/L5
GLONASS: L1/L2
Galileo: E1/E5a/E5b
QZSS: L1/L2/L5

Performance

Update rate：20Hz
RTK survey horizontal accuracy:± (8+1×10⁻⁶D) mm
RTK survey vertical accuracy:± (15+1×10⁻⁶D) mm
Static survey horizontal accuracy:± (2.5+0.5×10⁻⁶D) mm
Static survey vertical accuracy:± (5+0.5×10⁻⁶D) mm

Environment

Operating temperature:-25°C ~ +65°C
Storage temperature:-35°C ~ +80°C
Waterproof and dustproof level:IP67
Drop: 1.2m free drop at room temperature
Humidity: 99% condensation resistant

Physical features

Dimensions: about 115mm*115mm*76mm
Weight :about 590g
Battery: built-in lithium battery, 3.6V 10200mAh
Charging mode: Type-C PD 12V fast charging supported
Voice guidance: English support
Data interfaces: TNC, 5-pin, Type-C, SIM card slot, 1 button
Auxiliary function: Seamless IMU tilt measurement technology
Human machine interaction: 4 LED breathing lights to indicate device status

Satellite antenna

Internally integrated quad-feed microstrip antenna, zero phase center design, Built-in multipath suppression plate

Wireless communication

Bluetooth: built-in, V5.0 + EDR backward compatible/BLE, auto-search & pairing within 5 seconds
WIFI:802.11 b/g/n/ac,2.4G/5G hotspot + client mode, direct connection to controller via wifi, WebUI wireless management supported
Radio: transceiver integrated, 410-470MHz, 1W
Communication Protocol: Supports full protocols including：FCC-GMSK \ FCC-4FSK \ SATEL \ TRIMTALK \ TRIMMARK \ SOUTH \ HI-TARGET \ LORA-LINK etc.
External transmission:2/35W typical operating range≥15km
Operating frequency:410-470MHz

Memory/Data

Built-in storage: 8GB onboard
Differential output:RTCM2.3,RTCM3.X,RTCM3.2, CMR,CMR+
Data security: dual backup of measurement data during RTK operation

Camera

Pixel:2MP
Frames:30Hz
Field of view: FOV 88°
Sensitivity :high sensitivity in low-light conditions
Stakeout accuracy:1-3CM

Illustrations, descriptions and technical specifications are not binding and may change.

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QR code for our website

FOIF®
It's professional since 1958

A66AR

Full-featured Palm-sized Mini RTK



FOIF®
It's professional since 1958

All Constellations
All constellations, 1408 channels, BDS/GPS/GLONASS/Galileo/QZSS supported

AR Reality Stakeout
88° view, 30 FPS, clear in low light.

Integrated Transceiver Radio
Built-in integrated transceiver radio, omnidirectional range, wide frequency and multi-protocol compatibility with major RTK market products



Multi-Function WiFi
Supports 2.4GHz & 5GHz dual bands and independent hotspot+client mode

Seamless IMU Tilt Measurement System
IMU inertial navigation module, 9-axis 500Hz dynamic output, and calibration-free tilt measurement technology

High-Capacity Lithium Battery
3.6V 10200mAh high-capacity lithium battery, built-in LED power indicator, one-touch battery check function

One-click Lock
Instant one-click fixation, and supports nationwide measurement coverage

4-in-1 Combo Antenna
Integrates GNSS, Bluetooth, WiFi, and 4G into a single unit

AR Reality Stakeout: Precise Alignment at a Glance



It is an interactive AR-Assisted stakeout, and real-time camera captures target position directly onto your data collector, which brings precise alignment at a glance.



88° View

Micro-scale Light Sensing



Reality Stakeout

FOIF®
It's professional since 1958





Seamless IMU Tilt Measurement Technology

- Calibration-free, instant point-and-measure
- 60° inclination, 2cm accuracy
- 9-axis IMU inertial navigation module
- 500Hz dynamic output and real-time correction



Integrated Transceiver Radio

Comprehensive radio protocol compatibility



Built-in integrated transceiver 1W radio

Supports radio channel detection

Supports radio signal ID verification to prevent cross-channel interference causing coordinate error

P9V Controller

- Android 11 , 8-core processor, 4GB LPDDR4 + 64GB storage
- 5.5-inch FHD (1080×1920) touchscreen, enhanced clarity, brightness and power efficiency
- GSM-certified global mobile communication, 4G worldwide with voice call support
- Single-frequency GPS/GLONASS/BDS support
- Supports WIFI, Bluetooth, NFC and Type-C wired communication
- Long battery life with 9000mAh high-capacity battery
- IP67 dust/water proof, operating temperature from -30°C to 60°C
- High-strength metal frame, 3D curved body design for comfortable grip



FOIF®
It's professional since 1958

FOIFPad

- AR reality measurement and stakeout function
- Multiple earthwork calculation methods make volume measurement quite a breeze
- Advanced CAD features and real-time data sync
- QR code sharing for conversion parameters, coordinate systems, and configuration sets, etc
- Power grid surveying & tower foundation stakeout
- Online map & satellite image with offline map download support
- Direct import of road straight/curve tables, it supports input methods including element-based, intersection-point, and coordinate-based
- Mountain photovoltaic stakeout can efficiently and precisely measure and mark photovoltaic panel position
- Slope stakeout guides the operator to select any edge in CAD to realize grade slope measurements
- Transparent overlay can superimpose CAD drawings onto maps
- Cloud data sharing function makes file transfer to controller easily
- External references function can support opening any CAD drawings with external reference objects
- Field measurements directly exported to CAD drawings



Application Scenarios

