RLIDE



V1 is one of the most cost-effective and easy-to-use visual stakeout RTK in the industry. In addition to Dual Camera AR stakeout, it features:

- "Ultra Fast Connection between Controller and Receiver"
- "Radio Signal Strength Check" to compare signal quality of each radio channel and choose the most suitable one before working.
- "Multiple Protocols Compatibility" to support SATEL and other mainstream radio protocols.
- · One of best user-friendly IMU in the industry.



1,808 channels

8+1 frequencies RTK accuracy

Empowered by the **Polestar** Algorithm, V1 can track enormous signals of all constellations with stunningly fast fixing speed even under the thick cover of trees or beside tall buildings. Coordinates will be examined twice to ensure the utmost accuracy.





Radio TX / RX

-- Three Unique Techniques

The radio of V1 supports most of the mainstream protocols such as SATEL, TRIMTALK, SOUTH and covers all their frequencies. In addition, 7 of its channels are set to fixed values to avoid accidentally changing the frequencies. To obtain the best working performance, you can check the radio signal quality of each channel and use the best one to ensure stable communication during the work.

Inertial Measurement Unit

--One of the best IMU in Industry

Traditionally, surveyors encountered issues with IMU usability when rotating the pole during changing walking direction or adjusting the receiver attitude. V1 IMU effectively eliminates the loss of IMU status in most scenarios, enhancing IMU availability and productivity. During AR stakeout, you can walk at your own pace without worrying about losing IMU, making workflow smooth.

SPECIFICATIONS

SATELLITE PERFORMANCE

Channels 1,808

GPS L1C/A, L2C, L2P(Y), L5

GLONASS L1. L2

BEIDOU B1l, B2l, B3l, B1C, B2a, B2b

GALILEO E1, E5a, E5b, E6 QZSS L1, L2, L5, L6

SBAS 11 15

B2b PPP (only for Asian-Pacific region) L-Band

1-20Hz Positioning Rate

ACCURACY

Code Differential H: 0.40m (RMS)

V: 0.80m (RMS)

Static H: 2.5 mm ± 0.5 ppm (RMS)

V: 5mm±0.5ppm (RMS)

Real-time Kinematic H: 8mm±1ppm (RMS)

V: 15 mm ± 1 ppm (RMS)

Network PPK H: 3mm±1ppm (RMS)

V: 5mm±1ppm (RMS)

IMU MEASUREMENT

2cm within 60° Tilt Accuracy

DATA STORAGE

Type & Storage SSD 8GB

External USB Pen drive

Data Tranfer Type-C USB Transfer

Supports FTP/HTTP download

Differential Format RTCM 2.1, RTCM 2.2, RTCM 3.0,

RTCM 3.1, RTCM 3.2, NMEA 0183, CMR

Static Data Format DAT, RINEX 2.x, RINEX 3.x, BINEX **GPS Output Format** VRS, FKP, MAC

Network Model Ntrip fully supportable

CAMERA

1/5 inch Optical Format 1.75*1.75"um Pixel Size 1616*1232 Active Pixel Array

Sensor 2 mega CMOS imaging sensors

COMMUNICATION

1/0 Type-C (Fast Charge+Ethernet)

Antenna Port UHF antenna Nano-SIM card Network Modem

LTE FDD, LTE TDD, UMTS, GSM

2W Tx/Rx **UHF** Radio

410-470MHz

Protocol SATEL, TrimTalk, Hi-Target, SOUTH, CHC

WiFi IEEE 802.11 a/b/g/n/ac

Hotspot/Data Link

Bluetooth Bluetooth 2.1 + EDR and 4.0

NFC Available

INTERFACES

Button

LED Indicator Data Link, Satellite, Power

POWER SUPPLY

Battery Internal Li-on Battery (support working

with power bank)

3.6V, 12000mAh **Operating Time**

Static mode 30h Rover mode 23h

PHYSICAL

57mm(H), 132mm (W) Dimension

668g Weight

-30°C to 65°C Operating Temp. -40°C to 80°C Storage Temp.

Proof IP68 water and dustproof

2m drop on hard surface 40G 10ms sawtooth wave



GEO DataLab (Included)

- Image Processing
- PPP data processing
- PPK data processing

Static baseline processing

Data quality check Format conversion



H6 (Optional)

- Android 11
- MediaTek
- BT 4.1
- 5" touchscreen
- 64GB ROM
- 9200mAh battery
- Support SurPad



(Optional)

- Android 11
- Snapdragon
- BT 5.0
- 5.5" touchscreen
- 64GB ROM
- 7000mAh battery
- Support SurPad







