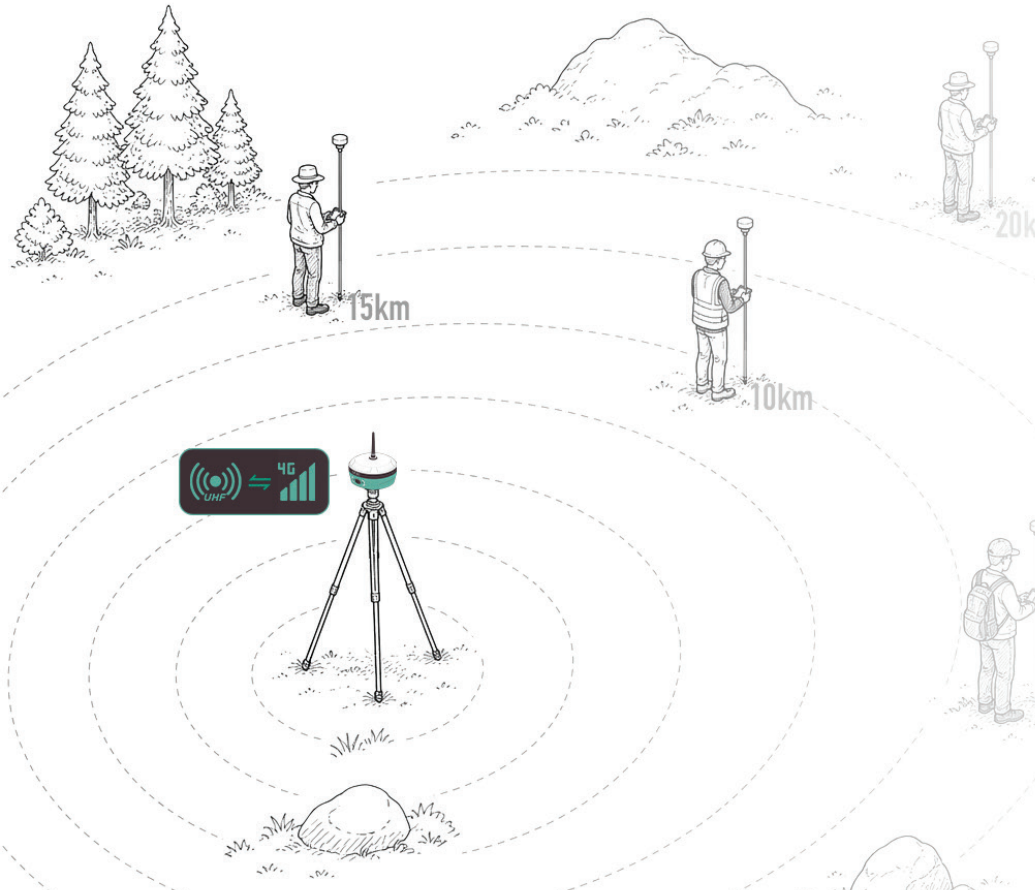
SV5



A BASE RECEIVER
WITH FULL POWER
PERFORMANCE.



GO FURTHER



S-Link Ultra 5W

With a built-in 5W ultra-high-power radio and the proprietary S-Link Ultra protocol, SV5 delivers significantly extended working range up to 20km+ and enhanced link stability.

Featuring dual transmission via radio and network, the rover can automatically and seamlessly switch to a network data link once it moves beyond radio coverage—eliminating the need for manual reconfiguration after signal loss.

16 hrs working

High transmit power doesn't have to come at the cost of battery life. SV5 features an intelligent power management system that dynamically optimizes energy allocation under different conditions, enabling up to 16 hours of operation.

A dedicated battery status button on the bottom allows users to check the remaining power instantly—no matter the power is on or off.



EXCELLENCE AS BOTH BASE & ROVER

32GB
INTERNAL MEMORY



IP68
WATER DUST PROOF



COOLING FINS
HEAT DISSIPATION



IMU & CAMERA
AR STAKE OUT AS ROVER



SPECIFICATIONS

SATELLITE PERFORMANCE

Channels	1,408 | 1,808 (upgradable)
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2
BEIDOU	B1i, B2i, B3i, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L5, L6
SBAS	L1, L5
L-Band	B2b PPP, E6-HAS
Positioning Rate	1-50Hz

ACCURACY

Code Differential	H: 0.40m (RMS) V: 0.80m (RMS)
Static	H: 2.5mm±0.5ppm (RMS) V: 5.0mm±0.5ppm (RMS)
Real-time Kinematic	H: 8mm±1ppm (RMS) V: 15mm±1ppm (RMS)
Network RTK	H: 8mm±0.5ppm (RMS) V: 15mm±0.5ppm (RMS)
PPK	H: 3mm±1ppm (RMS) V: 5mm±1ppm (RMS)
PPP	H: 5cm (RMS) V: 20cm (RMS)

IMU MEASUREMENT

Tilt Accuracy (No tilt angle limit)	2cm within 60°

DATA STORAGE

Type & Storage	SSD 32GB
Data Transfer	Type-C USB Transfer Supports FTP/HTTP download
Differential Format	RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM 3.4, NMEA 0183,CMR,
Static Data Format	DAT, RINEX 2.x, RINEX 3.x, BINEX
GPS Output Format	VRS, FKP, MAC

CAMERA

Optical Format	1/5"
Pixel Size	1.75*1.75μm
Active Pixel Array	1616*1232
Sensor	2 mega CMOS imaging sensors

COMMUNICATION

I/O	Type-C USB
Antenna Port	All-in-one port for radio/GPRS antenna
Network Modem	Nano-SIM card LTE FDD, LTE TDD, UMTS
UHF Radio	2/5W Tx/Rx 410-470MHz
Protocol	SLINK, SLINK Ultra, TrimTalk, Satel, etc.
WiFi	2.4G/5G*, 802.11 a/b/g/n/ac Hotspot/Data Link
Bluetooth	Bluetooth 5.0, BLE
NFC	Receive only

INTERFACES

Button	2
LED Indicator	Data Link, Satellite, Bluetooth, Power

POWER SUPPLY

Battery	Internal Li-on Battery 7.2V, 13,600mAh
Operating Time	Static mode: 44h Rover mode: 40h Base mode: 16h

PHYSICAL

Dimension	93mm(H), 156mm (W)
Weight	1,400g
Operating Temp.	-20°C to 65°C
Storage Temp.	-40°C to 85°C
Proof	IP68 water and dust proof 2m drop on hard surface 40G 10ms sawtooth wave

*Note
2.4 GHz Band:
P(e.i.r.p) max: 20 dBm
Nominal channel bandwidth: 20 MHz, Wi-Fi Standard: 802.11b/g/n
Operating Frequency Range: 2400 MHz - 2483.5 MHz
Number of channels: 13 channels (1 to 13)
5 GHz Band:
P(e.i.r.p) max: 20 dBm
Nominal channel bandwidth: 20 MHz, Wi-Fi Standard: 802.11a/n/ac
Operating Frequency Range: 5150 MHz - 5250 MHz, 5725 MHz - 5850 MHz
Number of channels: 9 channels (36, 40, 44, 48 and 149, 153, 157, 161, 165)

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