

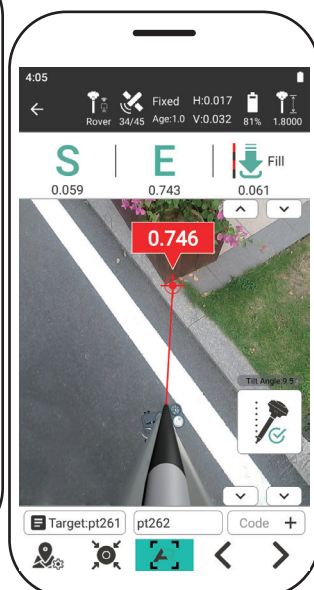
BASE RECEIVER

SV5

STEC



SV5 is a state-of-the-art GNSS receiver that merges industrial-leading inspiring ideas and technologies. With a powerful internal UHF radio of 5w maximum output, SV5 enhances your working range with rover up to 20km.



A unique AR stake-out solution that coordinates cameras both on controller and receiver. When you are quite away from the point, the controller shows you the general direction to the point. Until you are steps away from the point, the controller will shift to the camera beneath the receiver seamlessly and shows a more accurate guidance to the point.

SPECIFICATIONS

SATELLITE PERFORMANCE

Channels	1,408 1,808 (upgradable)
GPS	L1C/A, L2, L2C, L2P(Y), L5
GLONASS	L1, L2, L3
BEIDOU	B1I, B2I, B3I, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L2C, L5, L6
SBAS	L1, L5
L-Band	B2b-PPP, E6-HAS
Positioning Rate	1-20Hz
Initializing Time	<5s

ACCURACY

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

IMU MEASUREMENT

Tilt Angle (No tilt angle limit)	2cm within 60°
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DATA STORAGE

Type & Storage	SSD 8GB External USB Pen drive up to 32GB
Data Transfer	Type-C USB Transfer Supports FTP/HTTP download
Differential Format	RTCM 2.1, RTCM 2.2, RTCM 2.3, RTCM 2.x, RTCM 3.0, RTCM 3.1, RTCM 3.2, CMR, CMR+, RINEX 2.x, RINEX 3.x, NTRIP, NMEA 0183,
GPS Output Format	VRS, FKP, MAC
Network Model	Ntrip fully supportable

CAMERA

Optical Format	1/5 inch
Pixel Size	1.75*1.75µm
Active Pixel Array	1,616*1,232
Sensor	2 mega CMOS imaging sensors

COMMUNICATION

I/O	Type-C (OTG+Fast Charge+Ethernet)
Antenna Port	All-in-one port for radio/GPRS antenna
Network Modem	Nano-SIM card LTE FDD, LTE TDD, UMTS, GSM
UHF Radio	5W Tx/Rx
Protocol	410-470MHz S-LINK, TrimTalk, Satel, etc.
WiFi	802.11b/g/n Hotspot/Data Link
Bluetooth	Bluetooth 2.1 + EDR and 4.0
NFC	Available

INTERFACES

Button	1
LED Indicator	Data Link, Satellite, Bluetooth, Power

POWER SUPPLY

Battery	Internal Li-on Battery 7.2V, 13,600mAh
External Power	Supports power bank during operation
Operating Time	Base mode: no less than 12h Rover mode: 44h

PHYSICAL

Dimension	93mm(H), 155.6mm (W)
Weight	1,500g
Operating Temp.	-40°C to +65°C
Storage Temp.	-40°C to +75°C
Proof	IP68 water and dust proof 2m drop on hard surface 40G 10ms sawtooth wave



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