

STEC



SmartViewer

SV1

SmartViewer SV1 is a state-of-the-art GNSS receiver that merges industrial-leading inspiring ideas and technologies, offering an efficient and productive solution to no matter amateur or professional.

Designed for
professionals.



128mm



74mm



740g

Internal UHF
radio antenna

Type-C USB fast charge

SIM card slot

1 button
2 status LEDs
4 battery indicators



Camera for
AR stake out



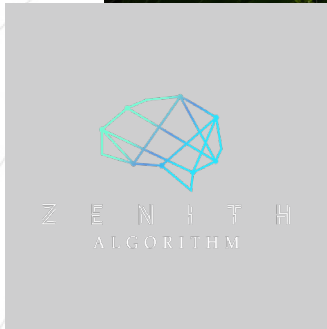
IP68



Magnesium alloy
housing



Complied with the harshest
standard of IP68 water and dust
proof in industry, SV1 can survive
in water at 1m depth for at least 1
hour even in power-on status.

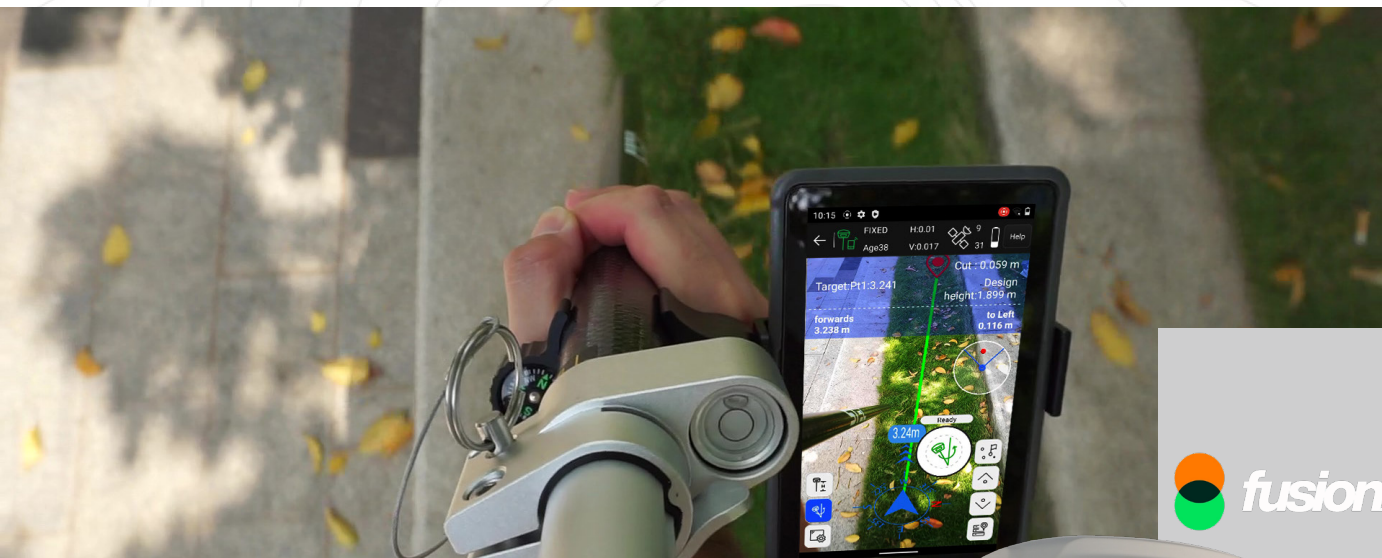


Empowered by ZENITH Algorithm, SmartView is capable to track enormous signals of all constellations with stunningly fast fixing speed even under thick cover of trees or beside tall buildings. Coordinates will be examined twice to ensure an utmost accuracy.

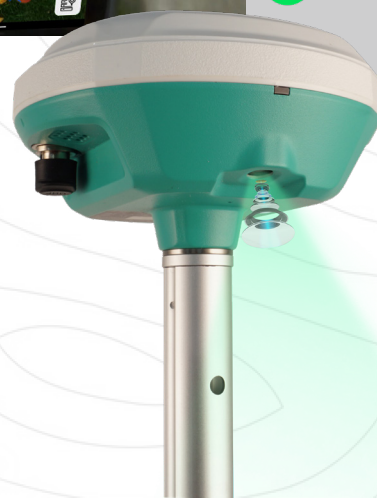
1,408
channels

21
frequencies

8+1
RTK accuracy



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. And when you are steps away from the point, the controller will shift to the camera beneath the receiver seamlessly and show a more accurate guidance to the point.



Thanks to the 2W internal UHF Rx/Tx radio featured with high efficiency and low power consumption, with S-LINK protocol, SmartViewer provides a safe and stable datalink with a super long distance up to 15km.



S P O S

SPOS (STEC Positioning Service) is a worldwide correction service based on precise point positioning (PPP) technology. By receiving corrections delivered directly from L-band satellites, SPOS allows you to achieve a centimeter-level accuracy with only one rover on hand when base receiver or CORS service is not accessible in remote areas.

STEC IMU just eases your work with an ever joyful experience. No need for calibration, no need for initialization. In a few seconds after getting fixed, you are in the EZtilt collect mode. Just tip the pole end to the point, especially those which are not easy to reach, within a tilt range of 60°. Fast, easy, and reliable.

EZtilt



60°





Rugged Controller S Pod



Type-C
Fast
Charge



5.5"
CORNING
Gorilla Glass 3

Google Mobile Service



13mpx
rear camera



android

GPS
BEIDOU
GLONASS

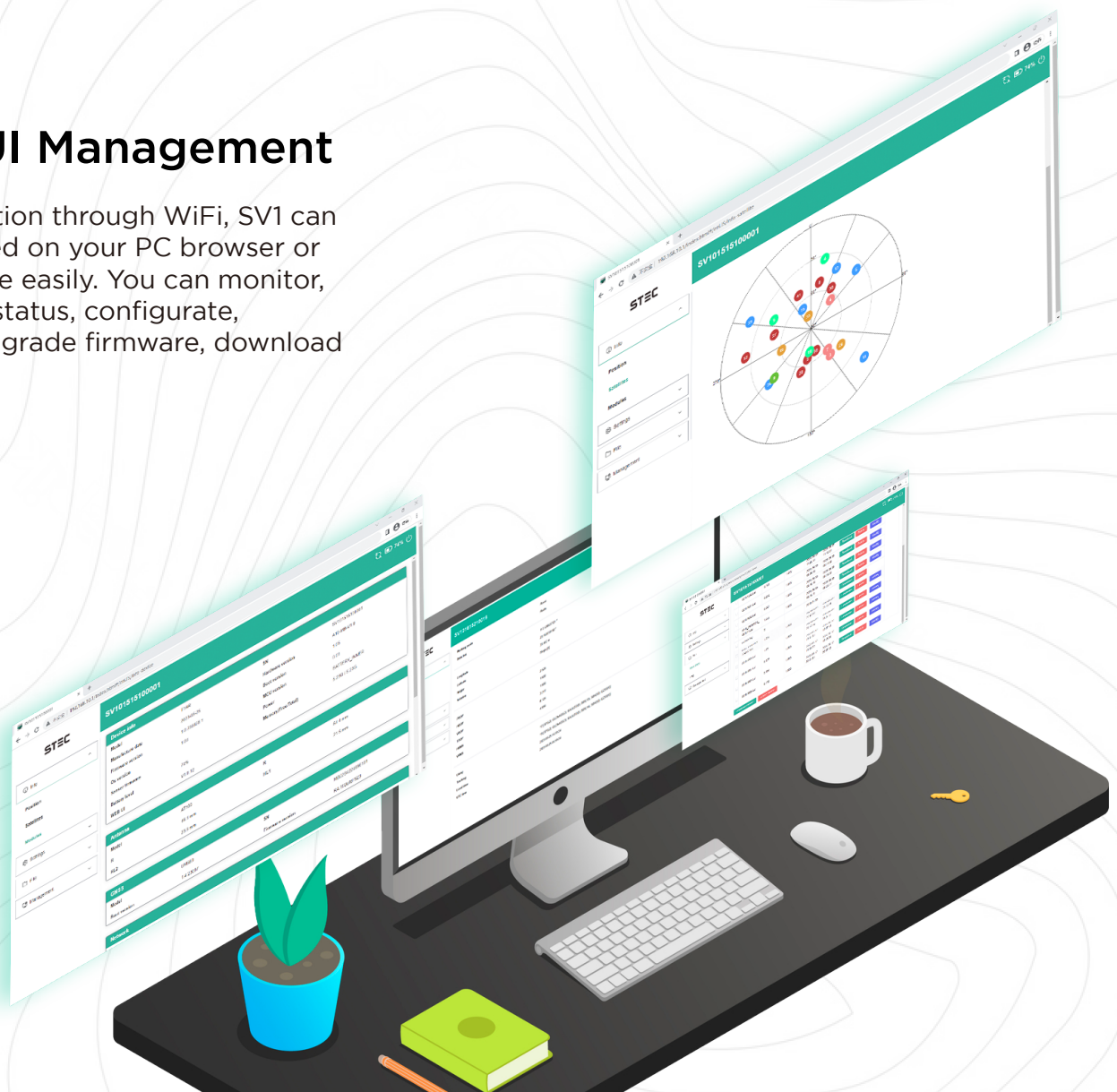
4GB RAM
64GB ROM



8-core | 2.0GHz
processor

Web UI Management

By connection through WiFi, SV1 can be managed on your PC browser or smartphone easily. You can monitor, check the status, configure, register, upgrade firmware, download data, etc.



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
Positioning Rate	1-20Hz

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

Type & Storage	SSD 8GB External USB Pen drive
Data Transfer	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, CMR+
Static Data Format	DAT, RINEX 2.x, RINEX 3.x, BINEX
GPS Output Format	VRS, FKP, MAC
Network Model	Ntrip fully supportable

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 (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	2W Tx/Rx 410-470MHz
Protocol	S-LINK, 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	1
LED Indicator	Data Link, Satellite, Bluetooth, Power

POWER SUPPLY

Battery	Internal Li-on Battery 7.2V, 6,800mAh
Operating Time	Static mode 20h Rover mode 15h

PHYSICAL

Dimension	74mm(H), 128mm (W)
Weight	740g
Operating Temp.	-30°C to 65°C
Storage Temp.	-40°C to 80°C
Proof	IP68 water and dust proof 2m drop on hard surface 40G 10ms sawtooth wave