Sveaverken

SVEAVERKEN V1 BASE STATION

PRODUCT INTRODUCTION

Sveaverken V1 Base Station has adopted a new structure design and highly integrated electronic components. Using a high-performance antenna, our V1 Base Station supports 965 channels and all constellations provided by GPS, GLONASS, Galileo, Beidou, QZSS, SBAS, and IRNSS. Its characteristics of quick start, fixing by seconds, and stable signal constitute our differentiated service for high-precision positioning, making it a reliable choice for precision agriculture users.

Lightweight & Stronger

Elektron materials is strong and corrosion resistant

Fast and Accurate

Featured by fast start, fixing by seconds and CM-level precision

Global Constellation

965 channels: GPS, GLONASS, Galileo, Beidou, QZSS, SBAS, IRNSS, L-band*

Multi-protocol Radio

Typical work range is 5km** empowered by built in TRIMTALK, TRIMTALK3, TT450S, TRANSEOT

IP67 Rating

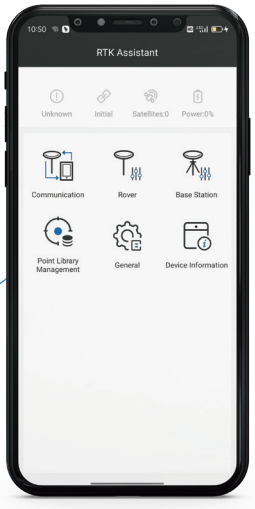
V1 supports IP67 rating and has passed the 1.5m drop test

Long Battery Life

Base 10h powered by a large-capacity lithium battery and low-power chip-set

RTK Assistant APP can help us set up Sveaverken V1 base station conveniently. You can install this APP on an Android device and set your V1 base station with either inner radio or external radio. The APP contains functions such as known point coordinate, base setting and manually adjusting radio frequency. In addition, if you want to obtain high-precision position coordinates, you can also set it as a rover on the APP and connect Ntrip to get correction service or base station correction data by inner radio.

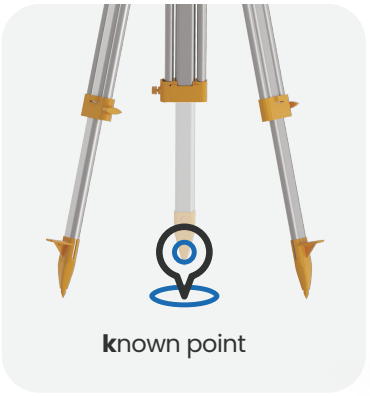
RTK Assistant

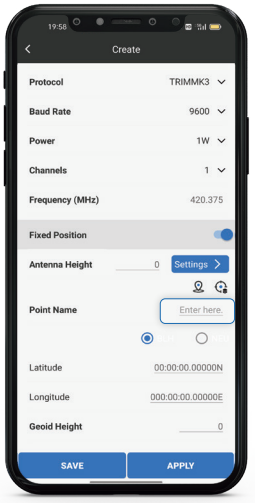


Even without network or Ntrip coverage, Sveaverken V1 Base Station can still provide CM-Level accuracy positioning for auto steer systems of Sveaverken and other brands.

BASE STATION BY KNOWN POINTS

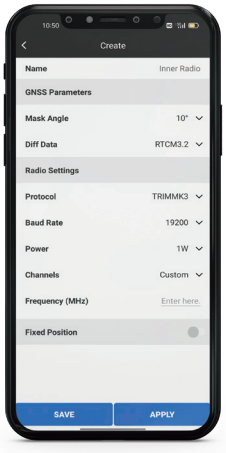
V1 Base Station supports setting by known coordinates. You can simply input the known coordinates to set base station.

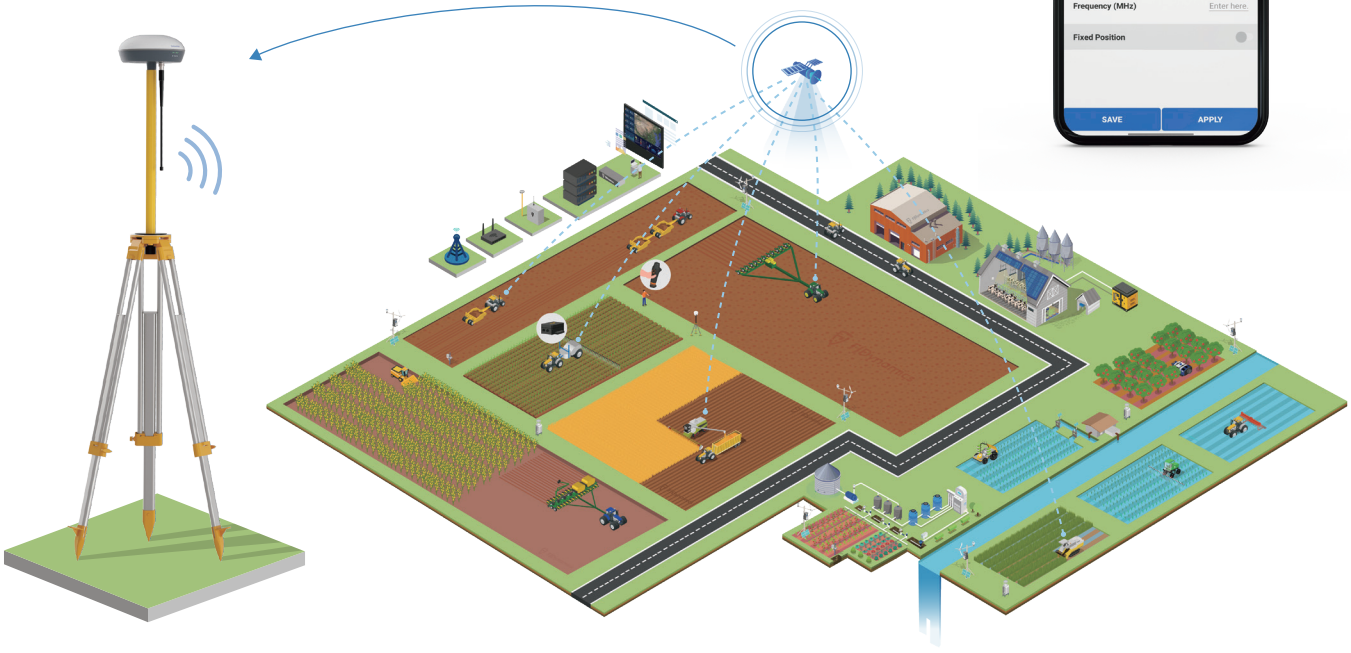




USER-DEFINED RADIO FREQUENCY

Inner radio supports user-defined frequency setting for catering to your real needs. You can also set the rover station with the same frequency to communicate with the Base station.





QUICK SPECS

Satellite Constellation

Channels	965
GPS	L1C/A, L2P, L2C, L5, L1C
BDS-2	B1I, B2I, B3I, B1C, B2a, B2b
BDS-3	B1I, B3I, B1C, B2a, B2b
GLONASS	G1, G2, G3
Galileo	E1, E5a, E5b, E6
QZSS	L1C, L2, L5, L1C/A
SBAS	L1C/A, L5*
IRNSS	L5*
L-band*	

* need firmware update to support

Receiver

Size & Weight	∅162*86 mm; 1 kg
IP rating	IP67

Battery

Battery capacity & life	6700 mAh; 10h for base station and 10h for the rover

Bluetooth

Protocol	BT4.2 & BLE

Built-in Radio

Power consumption	0.5 W/1 W
Frequency	410 MHz - 470 MHz/ 902 MHz - 928 MHz (optional)
Protocol	TRIMATLK, TRIMMARKIII, TT450S, TRANSEOT and Satel 3AS 4FSK
Work range	5km**

**might be influenced by operational environments.

Power Supply

Voltage	Rated input voltage: 12 V DC; Input voltage range: 9 V - 32 V

Ambient Environment

Operating temperature	-30 ºC - +60 ºC
Storage temperature	-40 ºC - +75 ºC
Humidity	95%

Positioning Performance

Single positioning (RMS)	Horizontal 1.5 m, vertical 3 m
RTK (RMS)	Horizontal ± (8+1*10-6*D) mm, vertical ± (15+1*10-6*D) mm
Update rate	Raw observation data: 1, 2, 5, 10 Hz Real-time positioning data: 1, 2, 5, 10 Hz
Data format	RTCM2.X, RTCM3.X, RINEX

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