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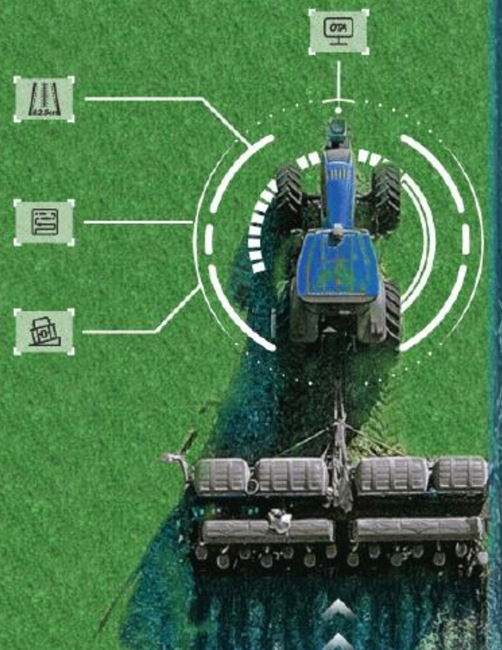
F100

AUTO STEER SYSTEM



SVEAVERKEN PRECISION AG TECHNOLOGY

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YOUR PRECISION IS OUR MISSION

Sveaverken F100 auto steer system features full GNSS RTK capability, delivers 2.5cm accuracy, reduces skips and overlaps, and enhances agricultural productivity throughout farming seasons.

±2.5cm Accuracy | Modular Design | Guidance Line Assist | Terrain Compensation | 30min Installation | Online Service & OTA

OVERVIEW

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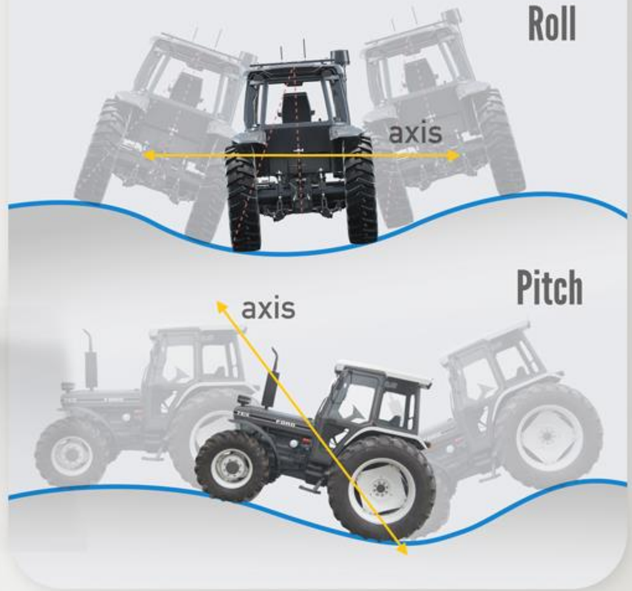
SVEAVERKEN PRECISION AG TECHNOLOGY

SVEAVERKEN F100 AUTOSTEER

Terrain Compensation



Accuracy
2.5cm

Ultra-Low Speed
0.1m/s

Installation within
30mins

FOR ALL FARMING SEASONS

Guidance Line Synchronization

Works with Wi-Fi Camera

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FOR ALL FARMING SEASONS

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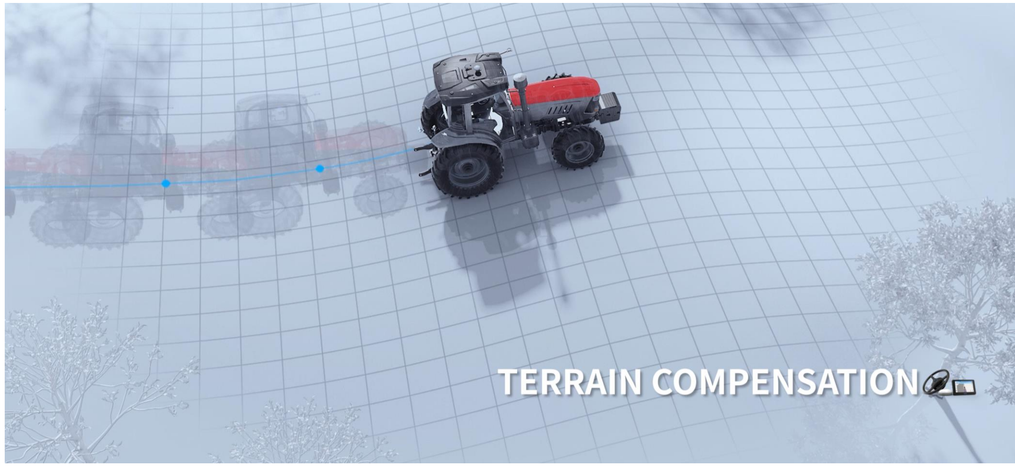
TERRAIN COMPENSATION

Improves accuracy when driving straight lines across sloping or rough terrains with minimized skips and overlaps.



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REAL-TIME DISPLAY

Speed Display
Displays the real-time tractor speed.

Offset Display
Tells the real-time offset value.

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REAL-TIME DISPLAY

Area Metering
Calculates the area worked under auto steer and manual modes respectively.

Speed Alert
Prompts an alert when the tractor is speeding.

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±2.5CM ACCURACY

With high-precision navigation technologies, F100 easily assists your tractor to deliver 2.5cm accuracy from pass to pass, under conditions of poor visibility and even at night.

Supports both mobile base station** and network RTK

*Accuracy may vary in environments.

** Sveaverken V1 Base Station sold separately, for more details, kindly refer to the end of slides

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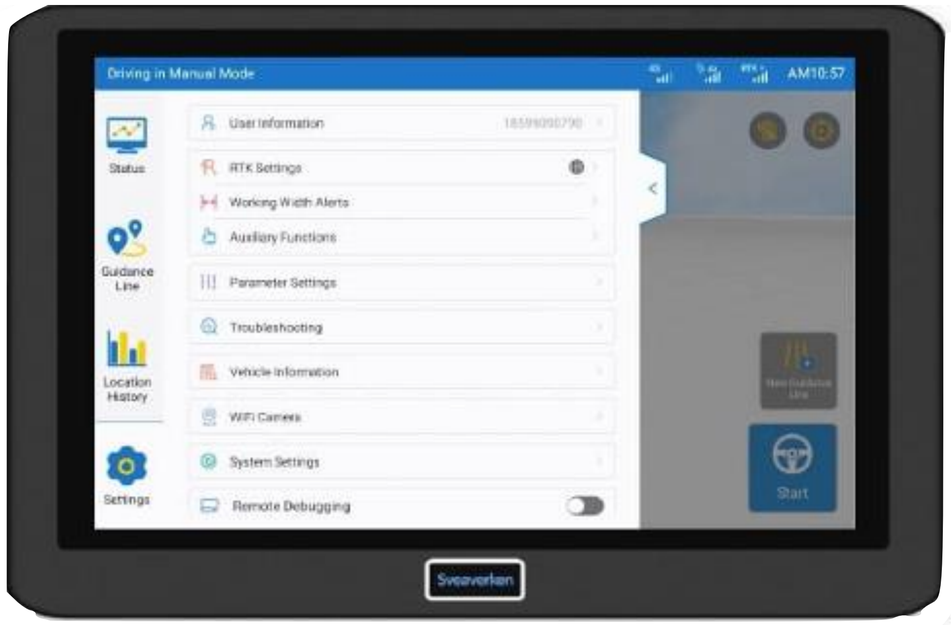
USER-FRIENDLY HMI

Accurately monitors and records field info in real time.



SYSTEM SETTING

AUTOSTEERING MODE

MANUAL MODE

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GUIDANCE LINE ASSIST

Straight-line/Curve Mode

Keeps the rows straight/curved and evenly spaced without depending on experience or intuition.

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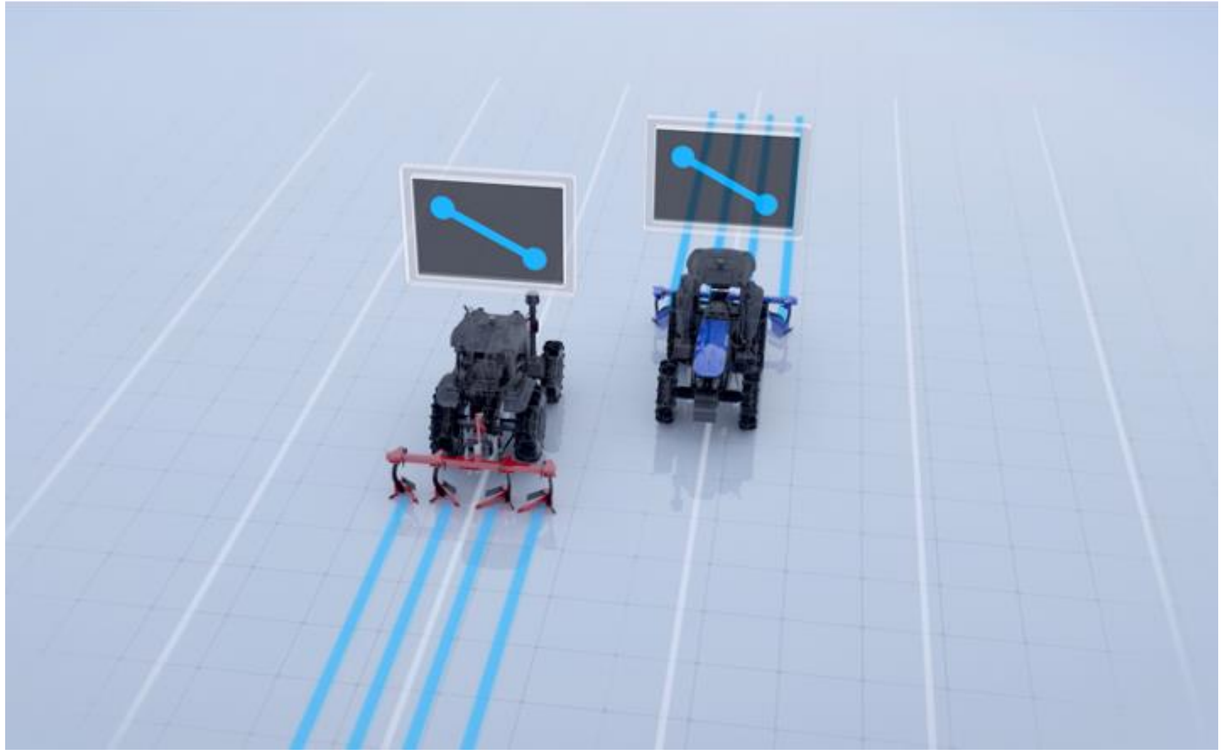
GUIDANCE LINE ASSIST

Guidance Line Shift

Set the direction and distance to shift the current guidance line.

Guidance Line Sync

Share guidance lines for increased efficiency and complete field coverage when two tractors are working on the same field.



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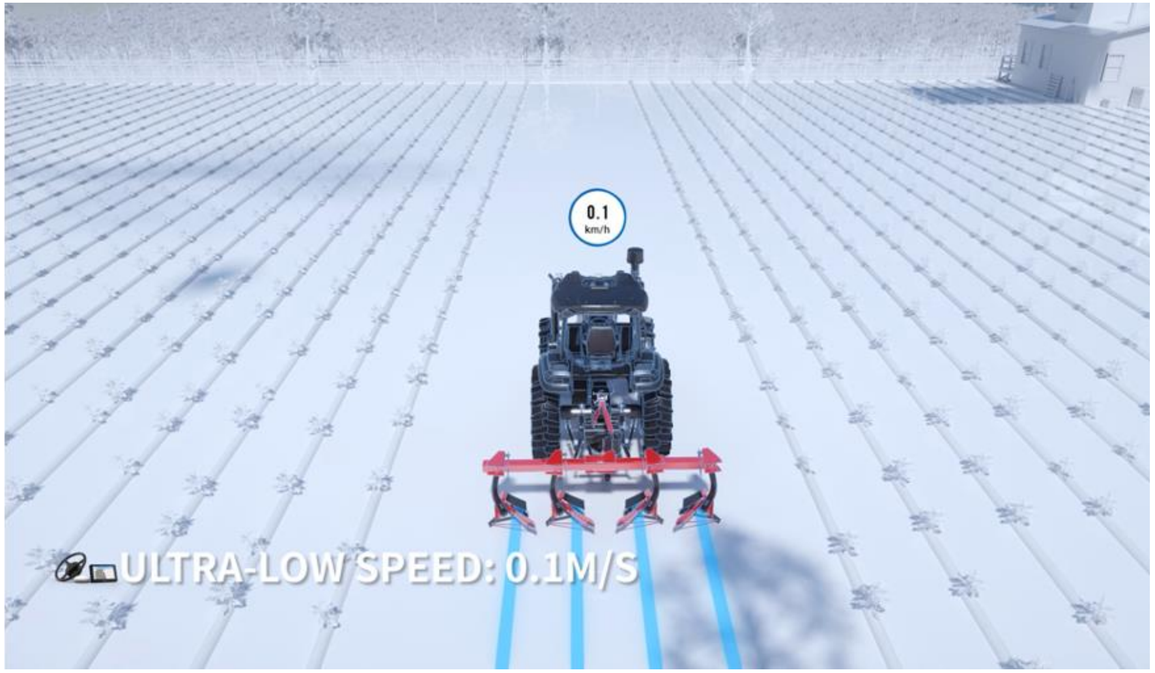
NMEA

Real-time transfer of accurate position and speed from one "control terminal" to multiple "implements".

*A NMEA cable is needed. Sold separately.

ULTRA-LOW SPEED

High accuracy at 0.1m/s.
Ideal for planting potatoes, sugarcanes, etc.



* A Hall angle sensor is needed. Sold separately.

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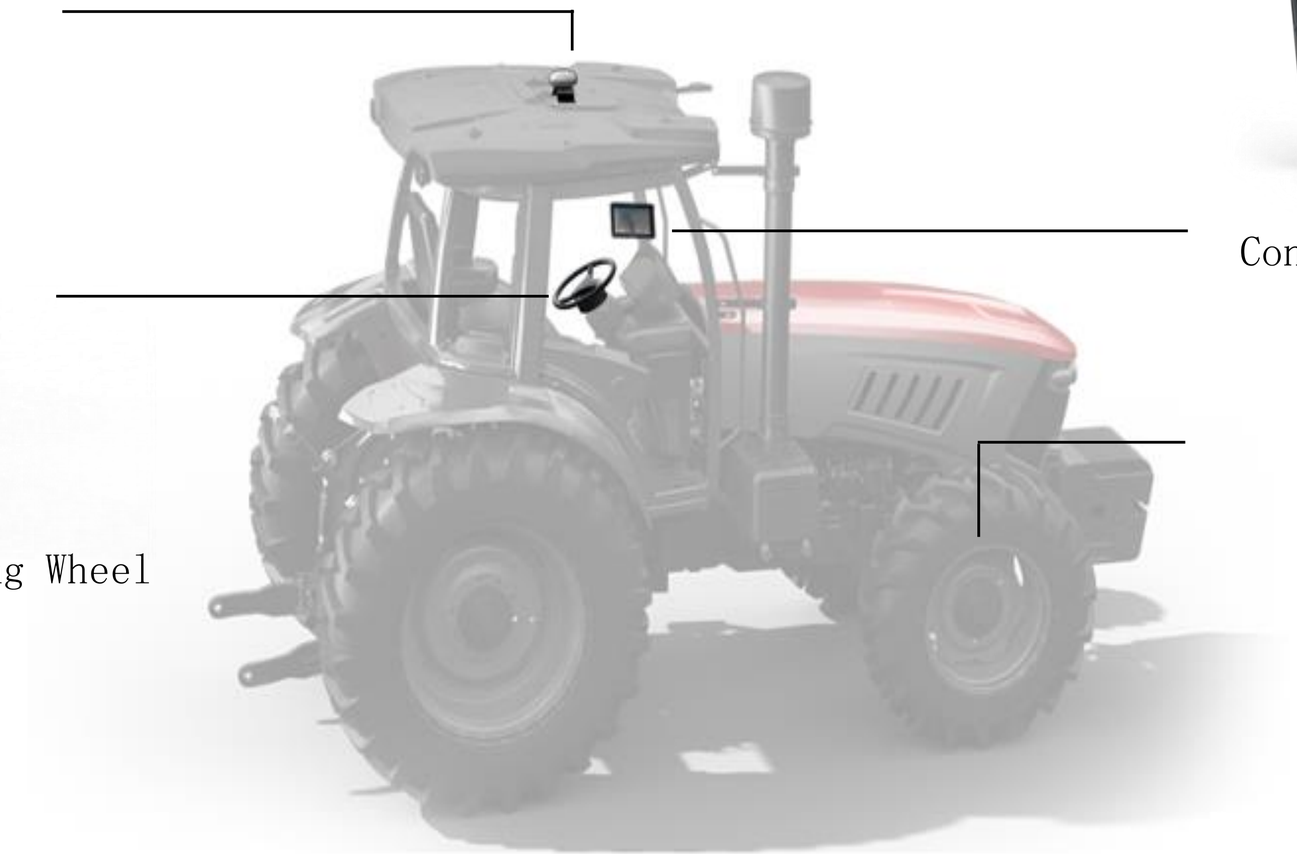
MODULAR DESIGN

Receiver

Electric Steering Wheel



Control Terminal

Angle Sensor

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COMPREHENSIVE COMPATIBILITY

JOHN DEERE

FENDT

NEW HOLLAND AGRICULTURE

CASE IH AGRICULTURE

DEUTZ FAHR

CLAAS

YANMAR

McCORMICK

STEYR

MASSEY FERGUSON

Kubota

VERSATILE

Mahindra

Landini

VALTRA

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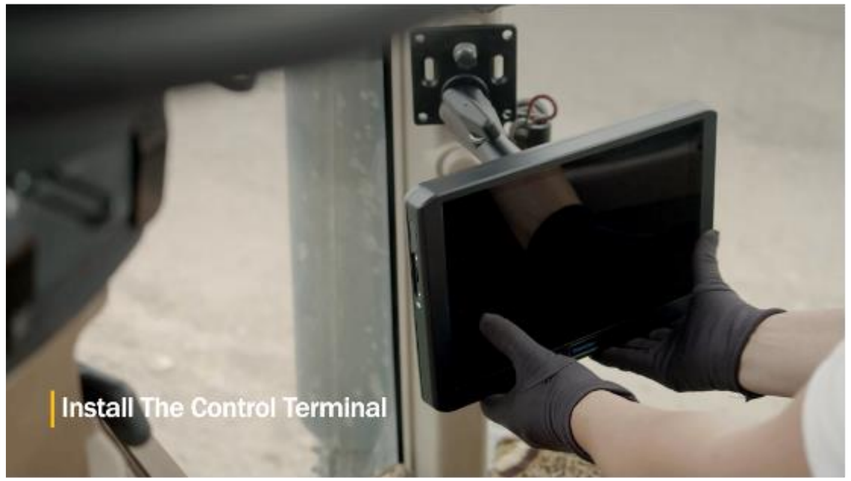
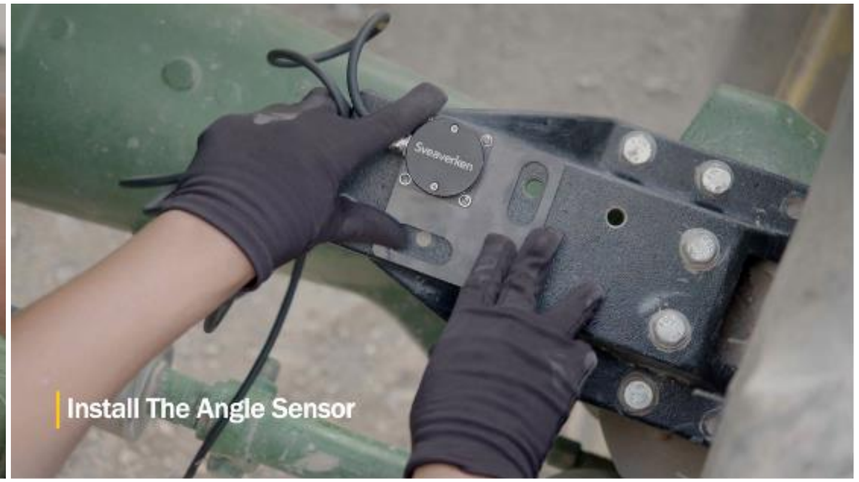
30MIN INSTALLATION





YouTube

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SPECS

Electric Steering Wheel

Compatible with Mainstream Tractors.

Size: 410mm
Power supply: 12V/24V
IP Rating: IP65

Control Terminal

10.1" touch screen;

Built-in WiFi, Bluetooth, and radio;

Displays real-time task status.

Size: 275*180*40mm
Screen: 10.1 inches 700nits LED screen
Power supply: 9V-36V
Pixel: 1280*800 pixels
Operating Temperature:-30℃~75℃
Storage Temperature：-40℃~85℃
IP Rating: IP65

Receiver

Capable of IMU functions;

Modular design;

Obtains position, orientation & vehicle attitude

and transmits the info to the control terminal.

Frequency: GPS L1/L2, GLONASS L1/L2, BDS B1/B2/B3, Galileo
Size:162*78mm
Operating Temperature:-20℃～+70℃
Storage Temperature:-40℃～+85℃
IP Rating: IP66

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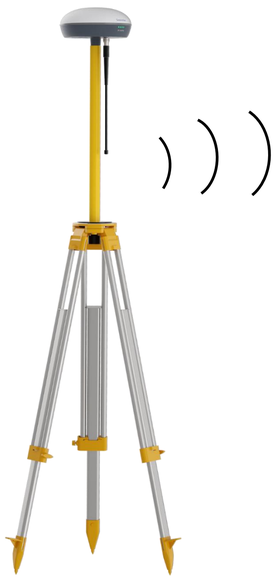
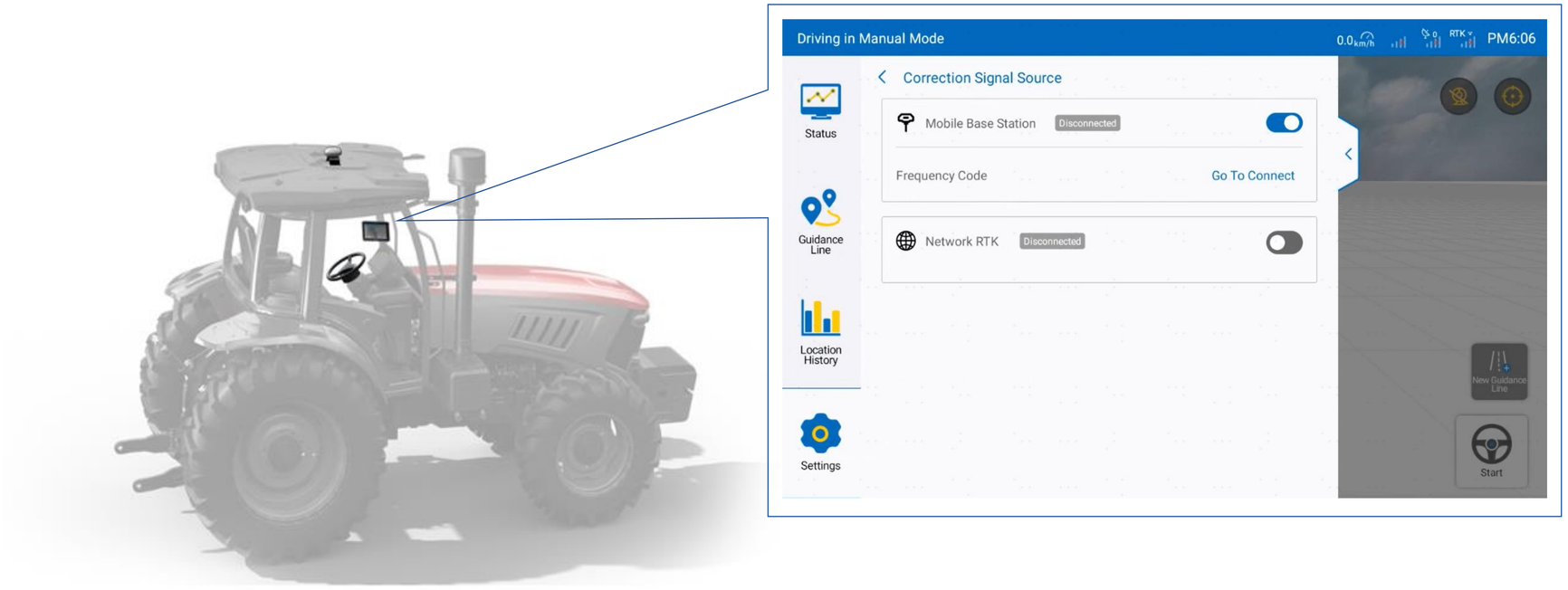
V1 BASE STATION

When there are not network or Ntrip covered, Sveaverken V1 Base Station can provide CM Level accuracy.





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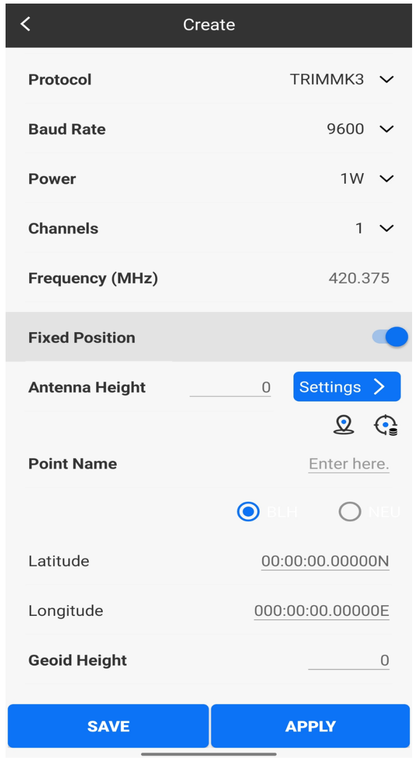
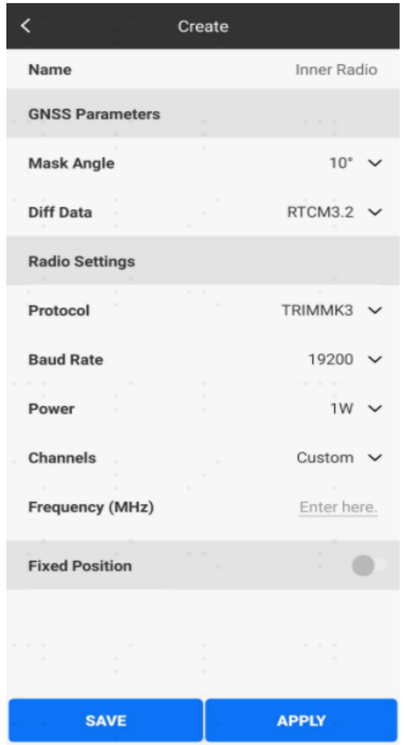
V1 BASE STATION – RTK ASSISTANT

RTK Assistant APP can help us set Sveaverken V1 as base station conveniently. You can install this app in Android device. We can set V1 base station with inner radio or external radio. It contains functions such as known coordinates base setting and user defined radio frequency. In addtion, if you want to survey high precision positon coordinate, you can also set it as rover and connect Ntrip to get correction service or get base station correction data by inner radio.

RTK Assistant



Known Coordinates Base Setting



Radio Frequency User Defined

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V1 BASE STATION SPECS

Base setting with known points coordinates.

Support inner radio and external radio.

User defined frequency setting.

Send correction to Rover station terminal.

Base 10h.

Frequency: GPS L1C/A, L2P, L2C, L5, L1C BDS-2: B1l, B2l, B3l, 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 L-band*
Inner radio: 0.5 W/1 W, 410 MHz - 470 MHz Protocol: TRIMTALK, TRIMMARKIII, TT450S, TRANSEOT
Battery: 6500 mAh; Base：10 h
Size & Weight 162*86 mm; 1 kg, IP67

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WITH US, FARMING BECOMES EASIER

Sveaverken Agri AB is over a hundred years old and has a long tradition of driving innovation in the agriculture and livestock sector in the Nordic region. Today, Sveaverken works to transform traditional farming into more sustainable farming by reducing greenhouse gas emissions, reducing the use of fertilizers and pesticides, and improving working conditions for farmers. We focus on three frontier areas: field farming, vertical farming and livestock farming. With our advanced technologies in image processing, the Internet of Things and automation, together with our partners around the world, we are constantly seeking innovations in agriculture to feed the growing planet's population in a more sustainable way.

For field farming, Sveaverken's auto steer system and our digital farm management solutions can effectively reduce the use of fossil fuels, fertilizers and pesticides while maximizing the yield per acre of farmland. Sveaverken's smart photovoltaic and energy storage solutions are also helping photovoltaic agriculture and making field farming more sustainable.

For vertical farming, Sveaverken's smart temperature control system, smart ventilation, fertilizer and water control system and robot-based plant management system, powered by big data and AI algorithms, offer the world's one of the most cost-effective vertical farming solutions, bringing better profitability to a new generation of "vertical farmers".

For livestock farming, Sveaverken's automated feeding solutions, Moocollar health management solutions and cattle climate environmental control solutions, help dairy farmers save feed, take better care of cattle, reduce carbon emissions and maximize milk production per cow.

From traditional farming to digital farming and finally to factory farming, we are convinced that our progress in these areas will have a profound impact on human society, and our future generations will be proud of what we have achieved.

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