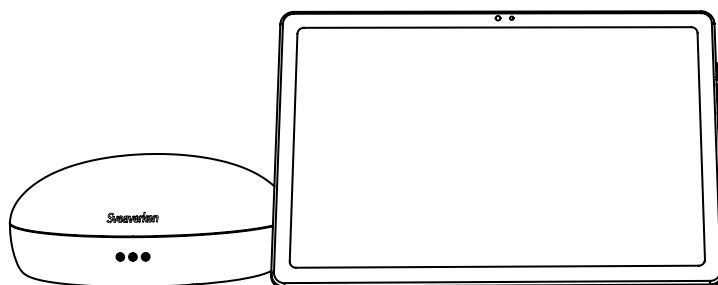


Sveaverken



Agricultural Guidance System **F100G**

User Manual

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Security Summary

Operator Requirements

1. The driver must obtain the driving license for agricultural vehicles required by relevant local regulations.
2. Drunk driving and fatigue driving are prohibited.
3. When an accident occurs, please cut off the power first.

Working Environment

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1. Please test, calibrate, adjust or operate in an open field away from crowds, and ensure that there are no irrelevant personnel and vehicles in the operation area to prevent personnel injuries or property loss.
2. Please stay away from crowds, livestock, obstacles, electric poles, tall buildings, airports and signal towers, etc., so as not to suffer from signal interference and thus affecting the operation.
3. Do not work in extreme weather such as heavy rain, heavy fog, snow, thunder, lightning and strong wind.

Regulation of Practice

1. The driver must monitor the operation status in real-time throughout the driving process to ensure timely manual intervention.
2. When a vehicle equipped with this system is driving on public roads or public places, please be sure to drive manually.

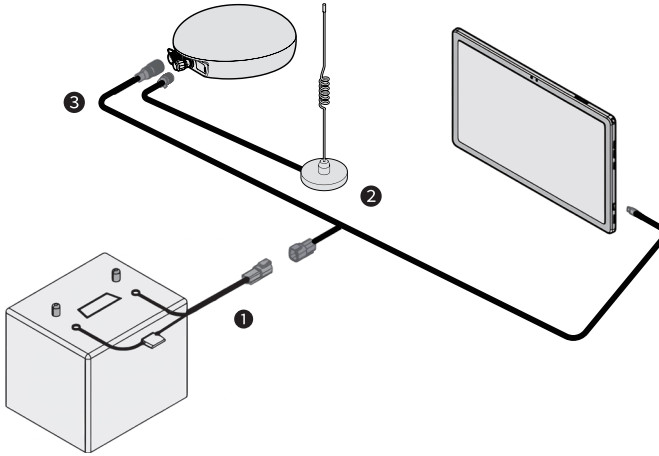
Examination

1. Make sure that the antenna is installed properly. If moved, please calibrate it again before use.
2. Make sure that all connecting cables are in good condition. If damaged, please stop using it and replace it with a new one.

Other

1. Please do not disassemble this product by yourself, so as not to affect the warranty service.
2. If the equipment is damaged due to force majeure (lightning strike, high voltage, collision, etc.), it is not within the scope of free maintenance.
3. The product supports 9-36V input. When supplying power to this product, pay attention to the power supply requirements.

Hardware Wiring Harness Connection



① Main Power Cable

② Radio Antenna

③ Main Wiring Harness



Please pay attention to whether the back cover nut is in place when plugging and unplugging the GNSS receiver plug;
The dustproof and waterproof performance is not permanently effective and may be weakened with the passage of time or changes in the working environment.

1. The copyright of all content in this manual belongs to Sveaverken, and any form of copying, extracting, reusing, reprinting, etc. is prohibited.
2. For detailed information on installation, use and function updates, please check Sveaverken F100G Guidance System Software User Manual and Sveaverken F100G Guidance System Hardware Installation Manual on the official website.
3. Official website address: www.sveaverken.com
4. Company address: Room 401-501, Building 13, Nangang Second Industrial Park, No.1026, Songbai Road, Sunshine Community, Xili Street, Nanshan District, Shenzhen

Software Instructions

Commissioning

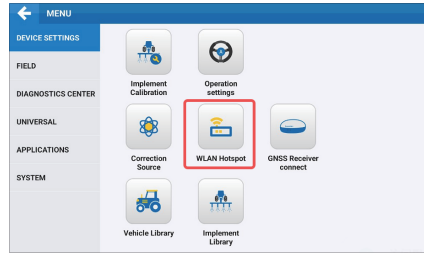
Select the language → Register and log into the account → Fill in the installation information → Connect the GNSS receiver → Connect the signal source → Obtain the heading angle → Set the vehicle parameters → Calibrate the implement → Complete the installation and calibration

Connect the GNSS receiver

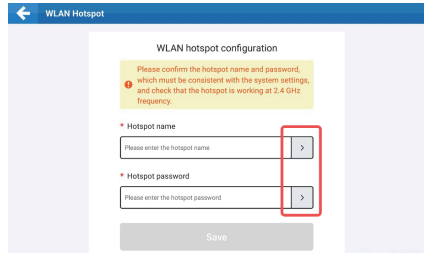
Configure the system hotspot name and password

The first connection requires configuring the system hotspot name and password.

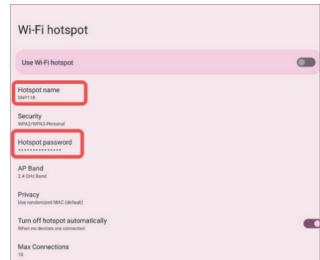
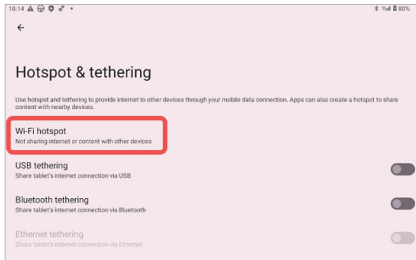
1. Click the WLAN Hotspot to enter the setting page.



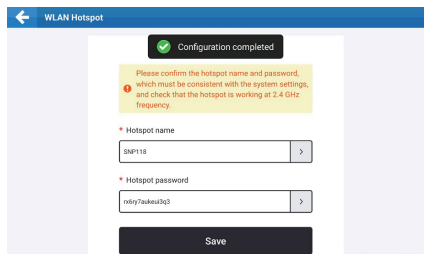
2. Click the jump button next to the hotspot name/hotspot password to jump to the system settings WLAN hotspot page.



3. Copy and paste the hotspot name and password from the system settings into the app.

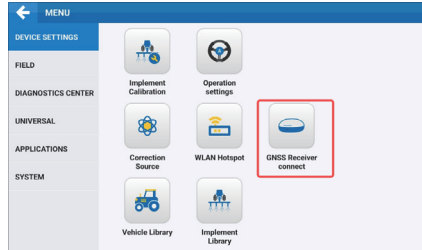


4. Click save to complete the configuration.



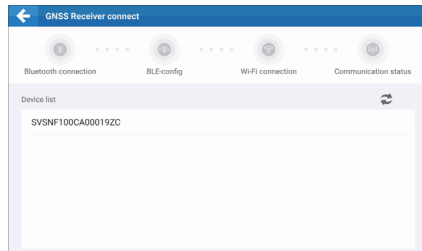
Connect the GNSS Receiver

1. Click GNSS Receiver Connect to enter the connect page.



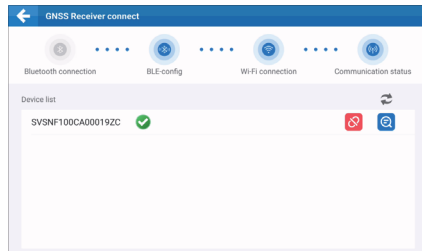
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2. The system will automatically turn on Bluetooth and search for GNSS receiver devices. Please select your GNSS receiver in the Device List.



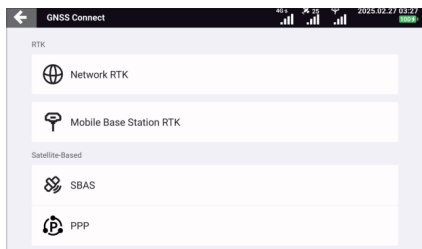
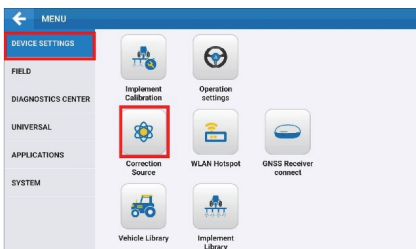
3. After selecting the GNSS receiver, the system will automatically connect it.

4. After connecting successfully, the Bluetooth connection will be turned off automatically and system needs some time to complete communication initialization.



Select Correction Signal Source

- Go to Menu list and click on Correction Source in Device Settings to enter the correction signal source interface.



Network RTK

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Ntrip connection: Enter "Host" and "Port", and click "Get Source". The port with the strongest signal is automatically displayed in the "Source Node".
 After obtaining the node, enter your account information in "Account" and "Password". Click "Connect" to connect to the corresponding network RTK.

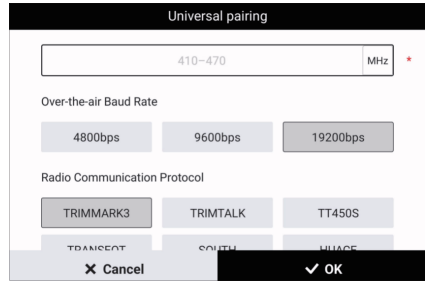
Base Station RTK

1. Pairing via code: Please turn on the mobile base station, click "pairing via code" on the screen and enter the code to connect to the base station (Please refer to the user manual of the base station to get more instruction on inputting the code).

2. Pairing via frequency: Please turn on the mobile base station, click "Pairing via Frequency" on the screen, and enter the frequency to connect to the base station (Please refer to the instruction manual of the high-power base station to get more instruction on inputting the frequency).

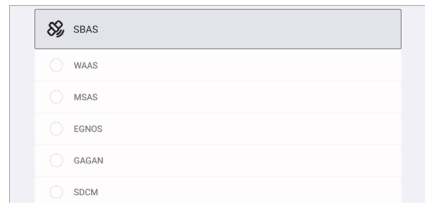
3. Pairing via Channel: Please turn on the mobile base station, click "Pairing via Channel" on the screen, and select the channel, baud rate and radio communication protocol to connect to the base station (Please refer to the instruction manual of the corresponding base station to get more instruction on relevant parameters).

4. Universal pairing: Please turn on the mobile base station, click "Universal pairing" on the screen, and enter the corresponding frequency, baud rate and radio communication protocol to connect to the base station (Please refer to the instruction manual of the corresponding base station to get more instruction on relevant parameters).



SBAS

SBAS connection: Click the channel to connect in SBAS. The operation cannot be started until the SBAS has completed configuration and convergence. If you need to switch to another SBAS source, click the target signal source, and click OK in the pop-up window. After successful connection, the signal source icon in the upper right corner turns to S00-S20.



PPP

PPP connection: Click the channel to connect in PPP. The operation cannot be started until the PPP has completed configuration and convergence. After successful connection, the signal source icon in the upper right corner turns to P.

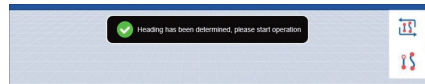


Preparatory Operations

1. Confirm the Correction Source Connection: Before preparing the operation, please confirm the current source connection.



2. Obtain Current Heading: After confirming the connection status of correction signal source, please drive forward until heading direction is confirmed (you only need to operate it once every time you turn it on). Make the current heading of the vehicle model on the screen consistent with the vehicle's real driving direction.

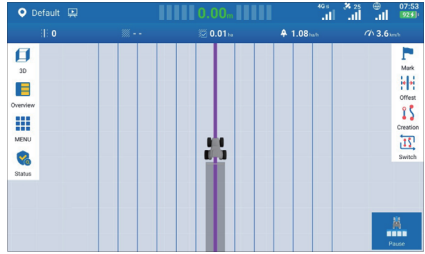


3. Create or select a boundary or guidance line: You may go to "Line Creation" on the right of the main page to create new boundaries and guidance lines, or go to "Switch" to select existing ones.

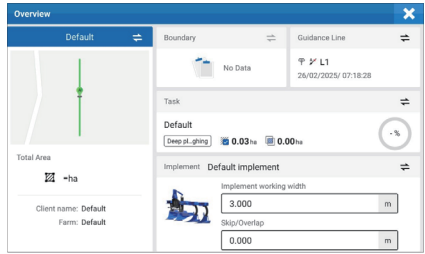


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4. Start Operation: After importing the guidance line, you can start operation right away.



5. You may go to "Overview" on the left of the main page to switch field, boundary, guidance line, task or implement.



Guidance Line

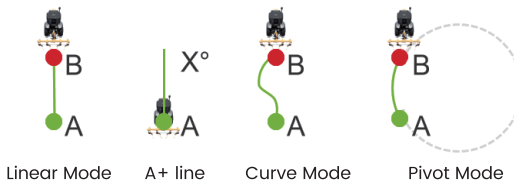
After entering the process of creating a guidance line, select the guidance line type first. Currently, you can choose to create AB Line, A+ Line, Curve Line, and Pivot Line.

AB Line: Create a straight guidance line by selecting the position of point A and B, which is applicable to fields with regular shape.

A+ Line: Create a straight guidance line by selecting the position of point A and the heading direction, which is applicable to huge fields with regular shape and collaborative operation.

Curve Line: Create a curved guidance line by selecting the position of point A and B, which is applicable to irregular fields or special terrain.

Pivot Line: Create a round guidance line with the center point and radius generated by an AB arc, which is applicable to fields with a center pivot irrigation system.



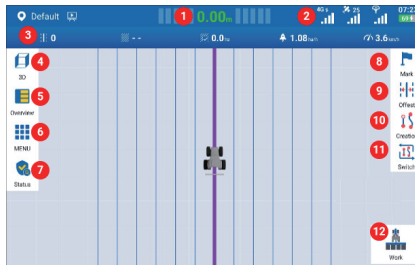
Linear Mode

A+ line

Curve Mode

Pivot Mode

Operation Interface



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1. Offset distance: The offset distance of the current operation relative to the guidance line is displayed in real time.
2. Correction source status: You may check the current connection status of satellites and correction signals.
3. Real-time operation information: From left to right is the order of the current guidance line, total area within field boundary, operated area & coverage, operation efficiency and real-time speed.
4. Perspective switch button: Click to switch between 2D and 3D perspectives.
5. Overview button: Click to view or switch task configuration.
6. Menu button: Click to enter device settings, field management, universal settings, application center and system settings.
7. Status button: Click to display the current real-time status information of the system.
8. Mark headland button: When there is no boundary, the two ends of the field can be marked at a distance of more than 5m. An alarm warning will pop up when approaching the field end.
9. Guidance line translation button: Click to translate the guidance line to be center aligned to the vehicle or to translate it to the left or right by a certain distance.
10. Line creation button: Click to start creating a new boundary or a new guidance line.
11. Switch button: Click to switch to another boundary or guidance line.
12. Task record button: Click to switch the recording status.



means that the current task data is being recorded.



means that the current task data is not recorded.

Product Specifications

No.	Component	Specifications
1	Control terminal	Size: 251×170×17mm Screen: 10inch Resolution: 1280*800 RAM: 4GB ROM: 64GB Operating voltage: 5V 2A DC Signals received: 4G signal Operating temperature: -10°C to +45°C Storage temperature: -20°C to +70°C Wireless communication: 2.4 GHz Wi-Fi, BT 5.0
2	GNSS receiver	Frequency bands: GPS L1/L2/L5, GLONASS L1/L2, BDS B1/B2/B3, Galileo E1/E5b, SBAS Operating voltage: 9 V-36 V DC Operating current: <300 mA Size: 162×78 mm Operating temperature: -20°C to +70°C Storage temperature: -40°C to +85°C Ports: one TNC port, one Type-C port IP rating: IP67

Disclaimer

The products, services, or functions you purchase are governed by commercial contracts and terms. We've listed all products, services, or functions in this manual while some of them may not be necessary. Unless other conditions are stipulated in the contract, Sveaverken does not make any express or implied statement on the contents of this manual.

This manual may be updated due to product upgrades or other reasons. Sveaverken reserves the right to modify this manual without prior notice.

This manual is only used as a guide book. Sveaverken has made every effort to ensure the accuracy and reliability of the information in this manual, but cannot guarantee that there are no errors or omissions. All information in this specification does not constitute any express or implied guarantee.

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FCC Warning

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.