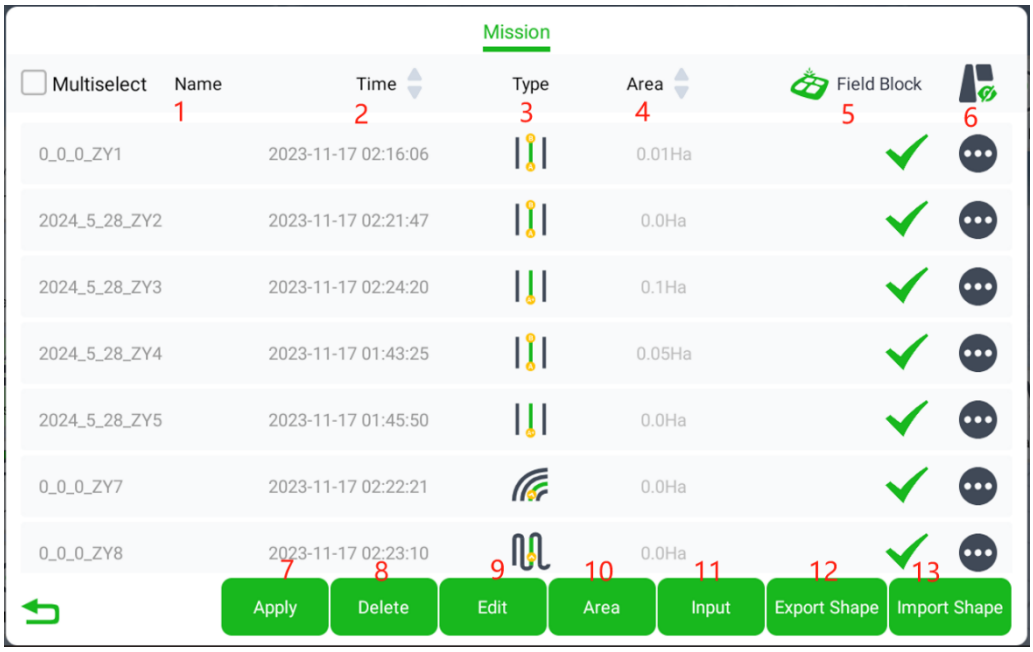
3.4 Project list (Mission)

Query historical job information, import and export jobs, view and apply fields.



1 Name: Job List

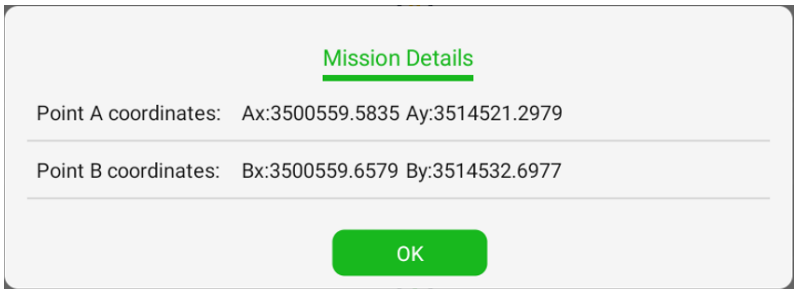
2 Time: Start working time

3 Type: Work type. Please refer to ***Chapter Ⅲ-3.1*** for details

4 Area: Display Field track area

5 Field Block: Select a task and click Field Block enter the field block management interface.

6 Mission Details: Display the coordinate information of the collected control points

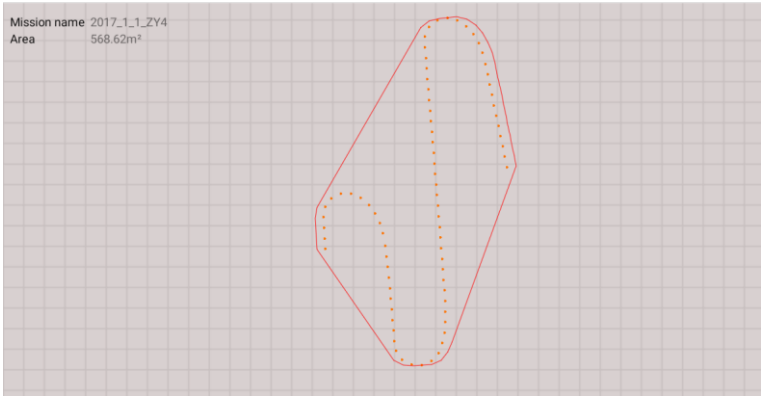


7 Apply: Apply the selected job. The check mark icon after each task line is the shortcut application key

8 Delete: Delete the selected project

9 Edit: Edit job name

10 Area: Show tracking map



11 Input: Input files and create fields
12 Export Shape: Export shape files
13 Import Shape: Import sharp files

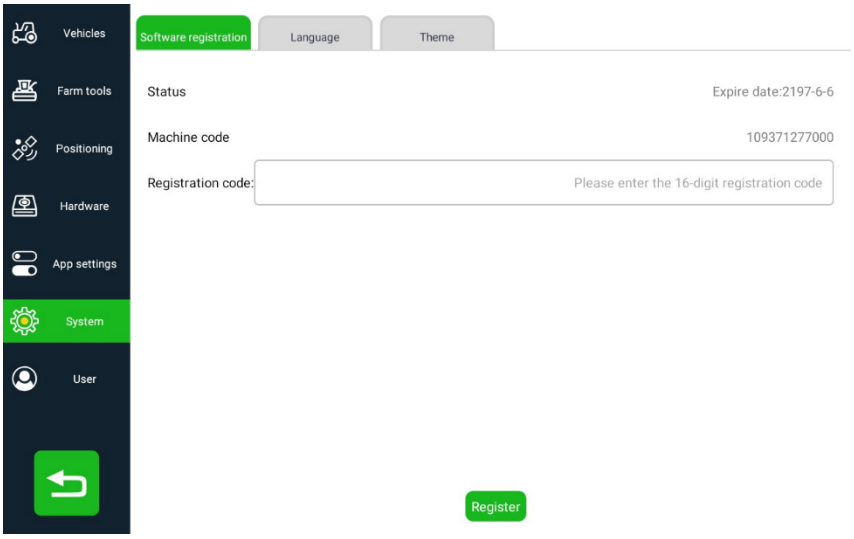
4 system setting and others

4.1 System

4.1.1 Software Registration

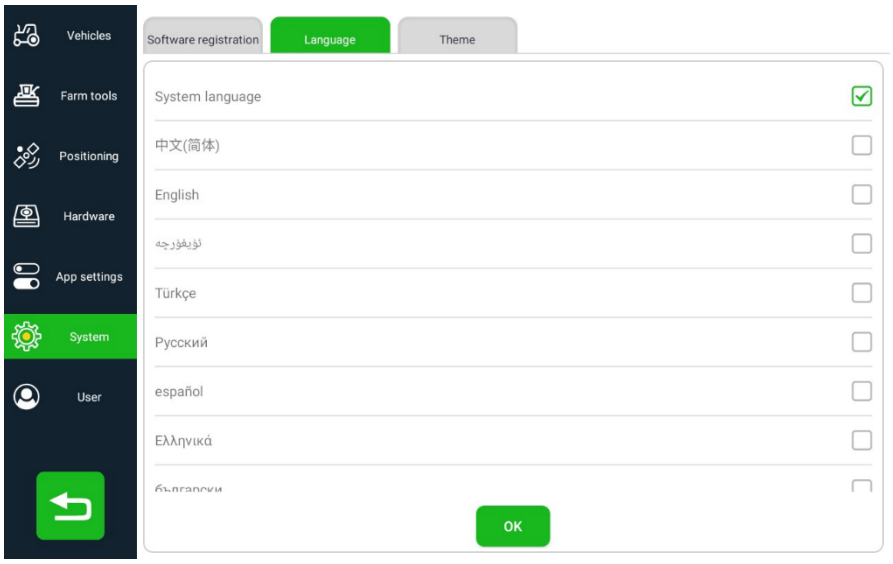
After the software is installed on the tablet, the usage period will be limited according to the requirements of both parties. If the registration expires, the automatic driving start button is not allowed to be turned on. Please confirm and contact relevant personnel in time to obtain the registration code.

Enter "***Menu>System>Software registration***", Feedback the **Machine code** to relevant personnel to obtain the registration code and enter it for registration.



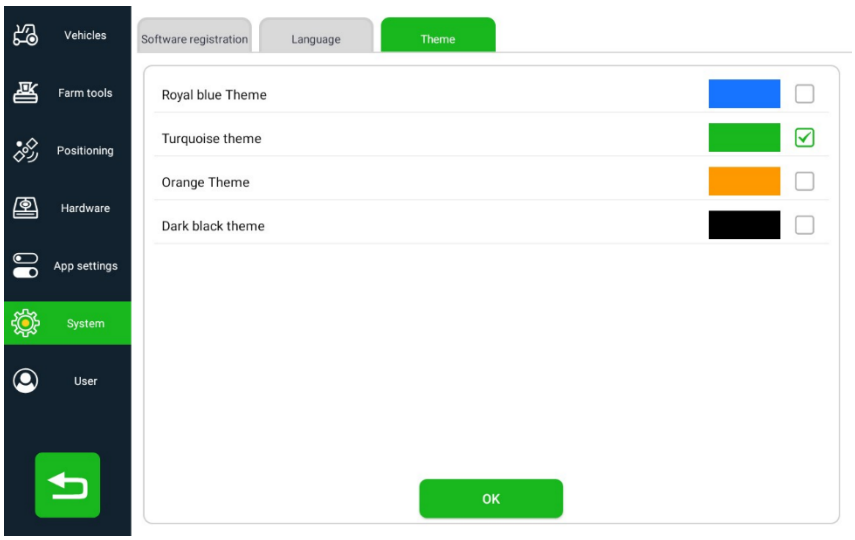
4.1.2 Language

AG501 Pro currently provides multiple optional languages and continuing to increase.



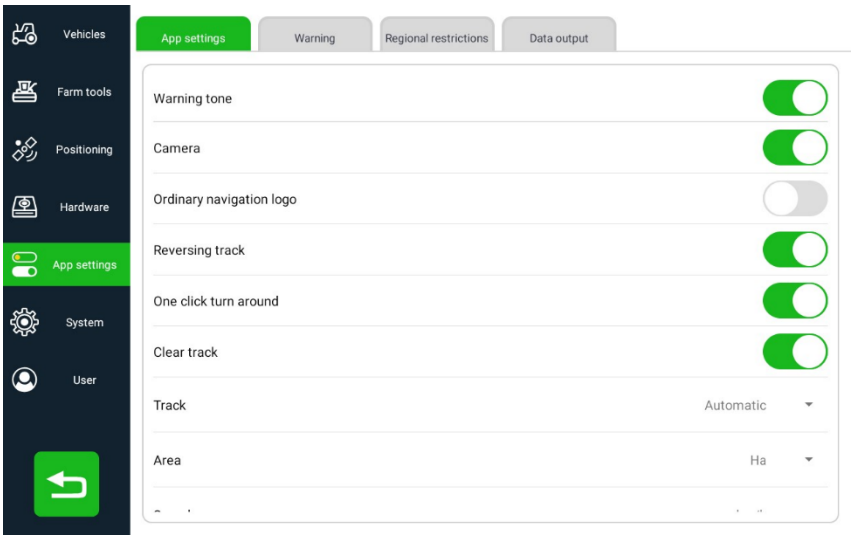
4.1.3 Theme

Supports modifying theme colors, blue, green, orange, black



4.2 APP settings

4.2.1 APP settings

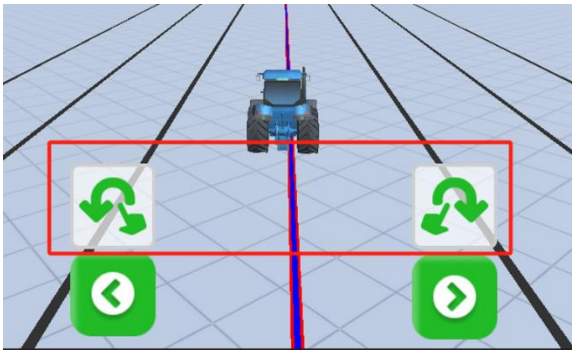


Warning tone: When an abnormality occurs during installation or use, the software will sound a warning sound and pop up a pop-up window to explain the source of the problem.

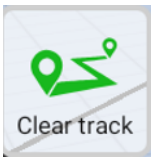
Camera: The camera options can be displayed on the main interface. When connected to the standard USB camera, the camera image can be displayed in the software and the image size can be adjusted.

Ordinary navigation logo: The vehicle icon changes to a triangle.
Reversing track: When the vehicle reverses and uses autosteer, the operation trajectory will also be tracked.

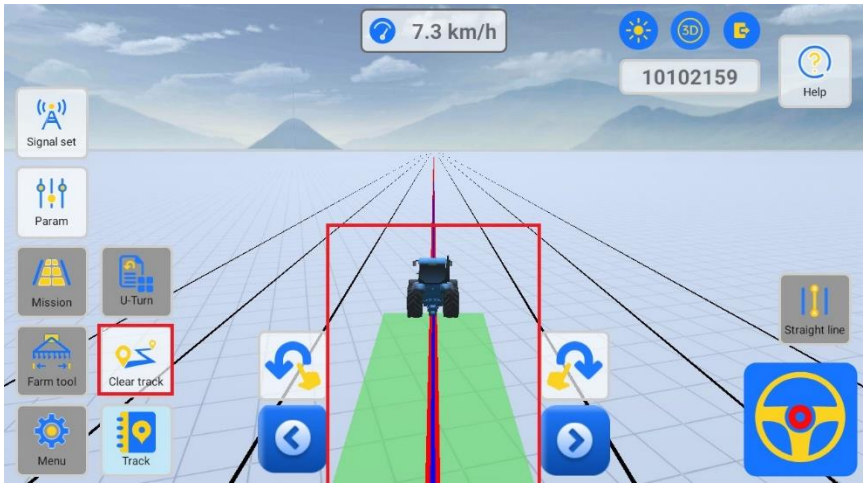
One click turn around: Open the **one-click U-turn** option and click to make an immediate U-turn at the current location.



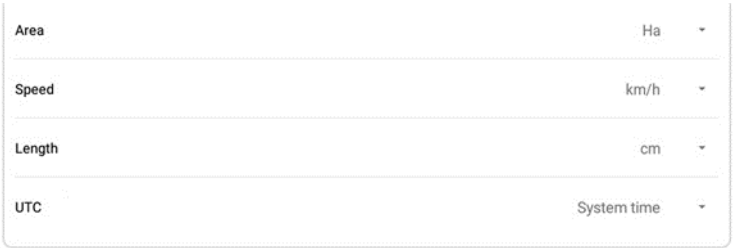
Clear track: The clearly recorded trajectory, the green area, and returns the operating area to 0



Track: Record the operating area after starting automatic driving, displayed in green area. You can set the recording mode independently: **Automatic**, **Manual** and **Do not record**.



Area: The area unit of the trajectory, including ㎡、Mu、Ha、Acre.

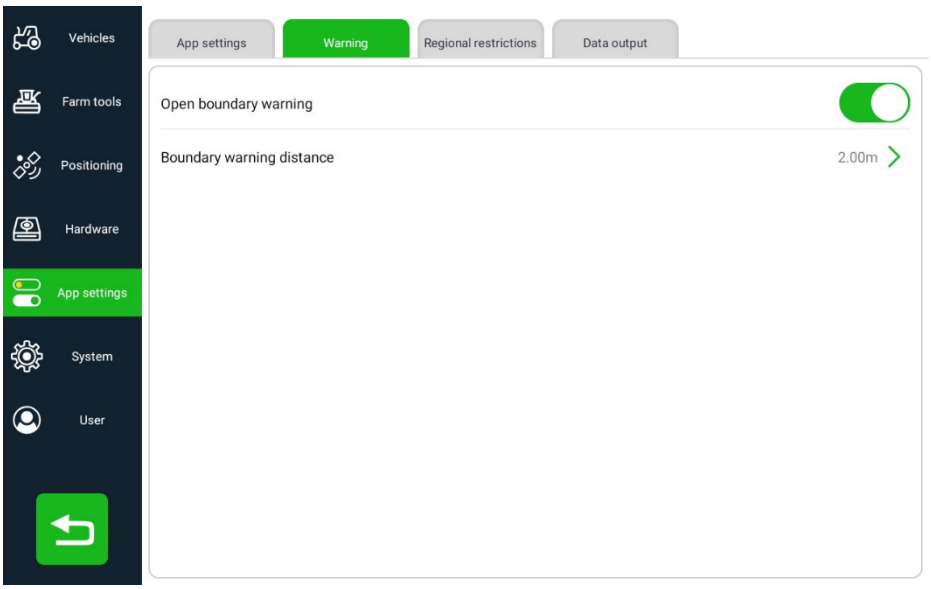


Speed: Speed units include km/h and mph

Length: Units of length include: meters, feet, centimeters, inches. From the design to the length part in the software, all unit values will be switched.

UTC: Time in your own time zone

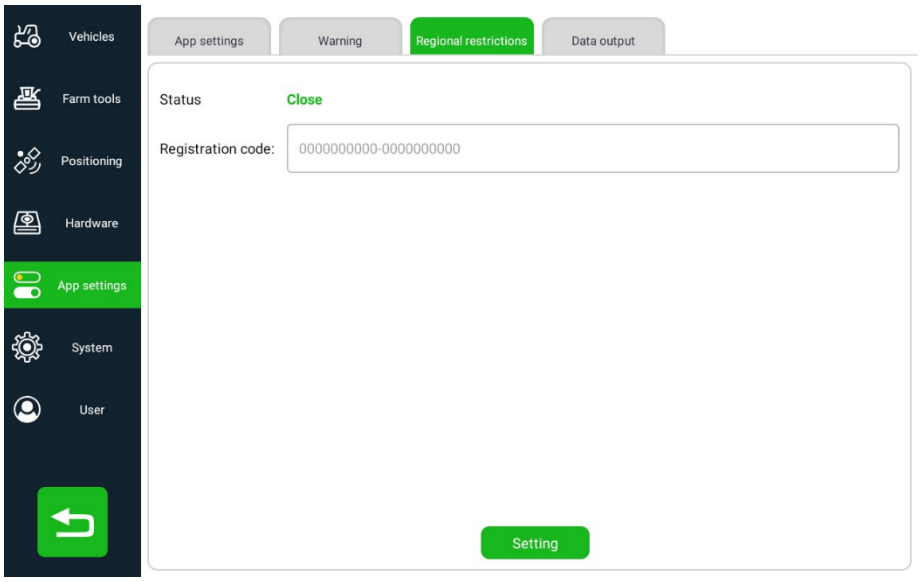
4.2.2 Warning



In this page, user can turn on the boundary warning. If the vehicle's distance from the boundary is less than the setting value during autosteer, an alarm will be issued.

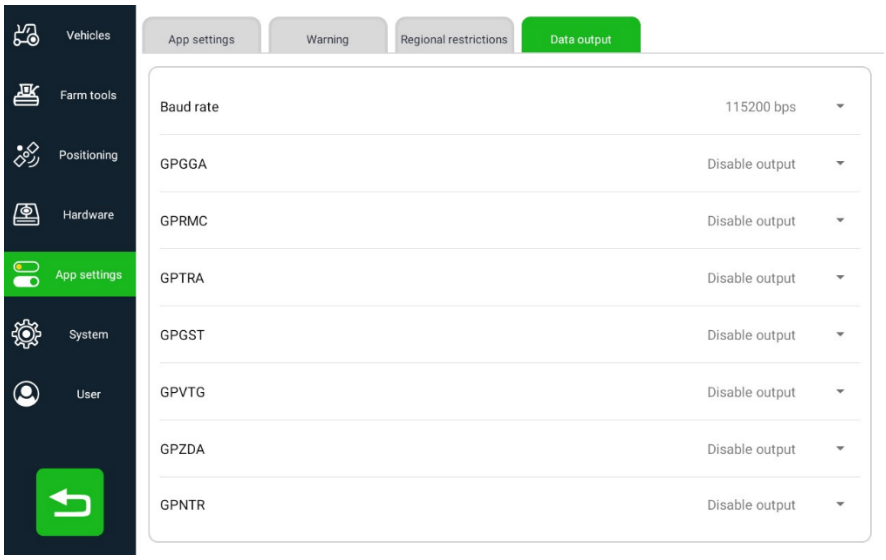
4.2.3 Regional restrictions

In order to prevent fleeing goods and affect the interests of partners, the function of restricting the use of areas has been added. If the system cannot search for satellites, it means that the tablet has been restricted in this area, and users need to enter a 20-digit number to unlock the restriction. Generally speaking, tablets purchased through regular channels have been registered in advance. If there is a problem with not registering, please contact the dealer from whom you purchased it in time.



4.2.4 Data output

Through the USB interface, select the correct baud rate and output real-time NMEA0183 data to other devices

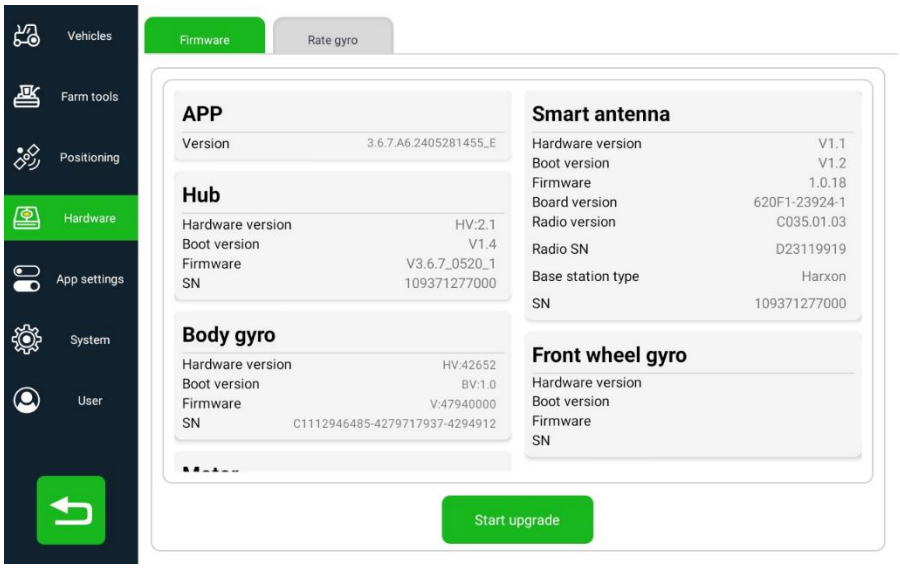


4.3 hardware

Check the hardware version information of each part.

4.3.1 Firmware

Query the version information of application software, radio module, board module, built-in Hub, motor, etc. Usually when shipped, it is already the default version without any modification or upgrade.

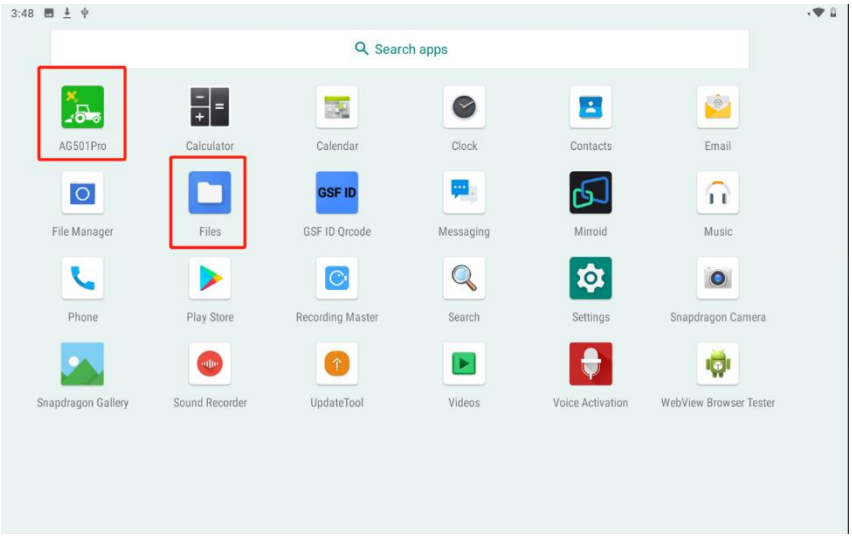


4.3.2 Upgrade

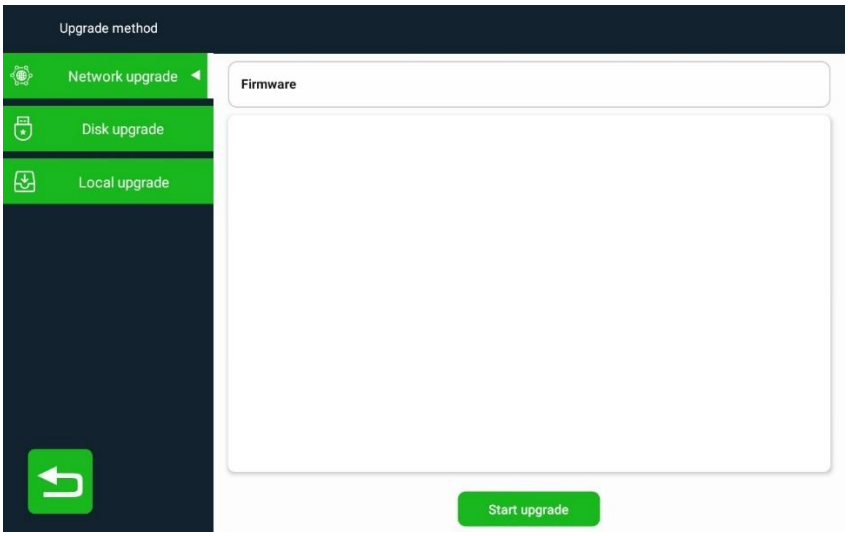
1. Upgrade Application

Get the latest Android installation package from the manufacturer and store it in U-disk. Exit the AG501Pro software on the tablet, and close the software running in the background, then insert the U-disk. Please note that if a U-disk is inserted when running the software, the software will occupy the U-disk. At this time, the U-disk cannot be opened in the file manager. In this case, you need to exit the software first, clear the background, and then reinsert the U-disk.

User can also download the APP package locally and open it in File Manager for installation.



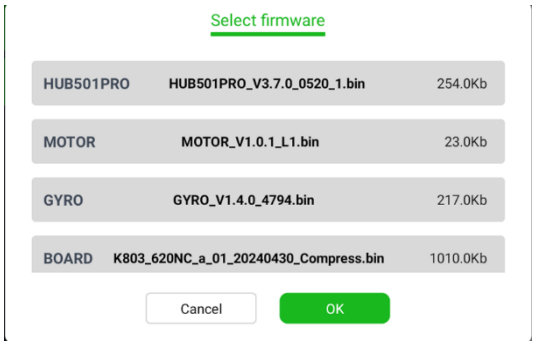
2. Upgrade firmware



1) Disk upgrade

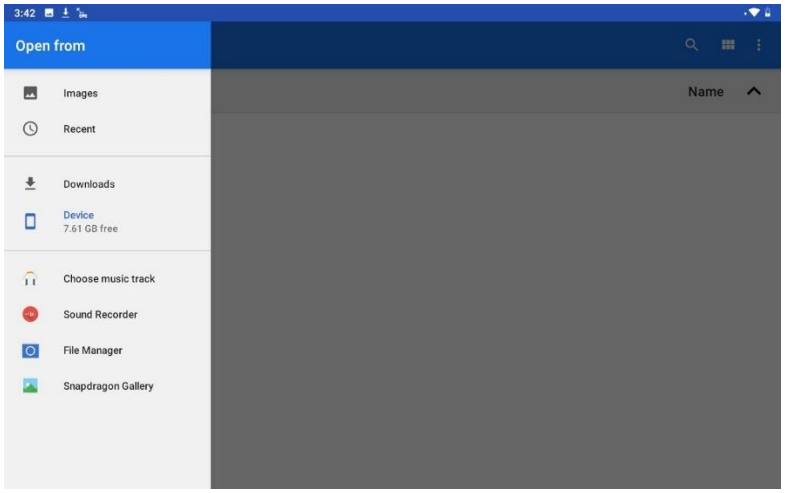
First, download the firmware that needs to be upgraded and store it on the U-disk. Then open the software and insert the U-disk. Enter "**Menu*>Hardware > Firmware> Start upgrade> Disk upgrade***", select the firmware, the software will automatically identify the firmware in the U-disk, then click ***Start upgrade***. Please wait for a minute. After the upgrade is completed, software

will prompt that the upgrade is successful.



2) Local upgrade

The difference from Disk upgrade is that the downloaded firmware is stored directly in the local folder. Open AG501Pro and enter " ***Menu> Hardware > Firmware> Start upgrade> Local upgrade***", Find and open the folder where the firmware is stored, click to select the firmware and click ***Start upgrade***. Please wait for a minute. After the upgrade is completed, software will prompt that the upgrade is successful.

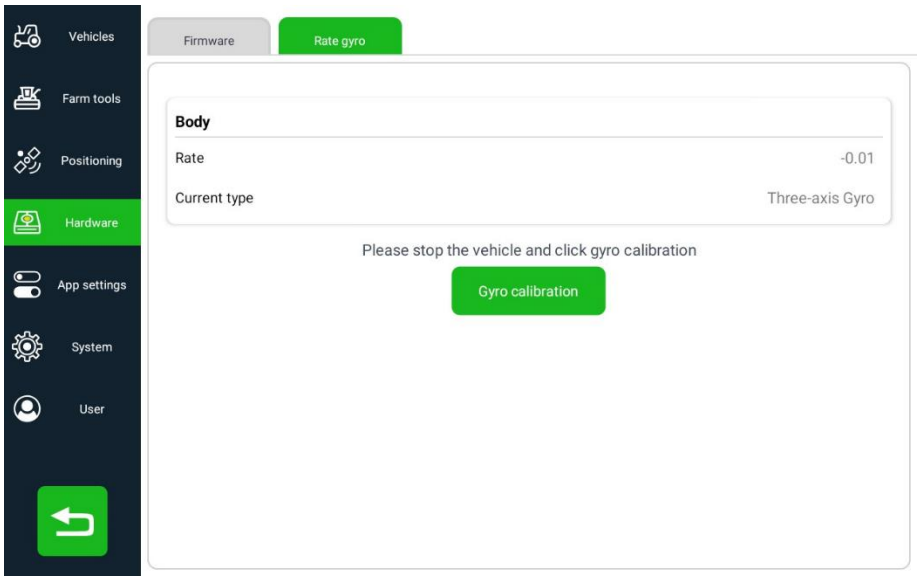


3) Network upgrade

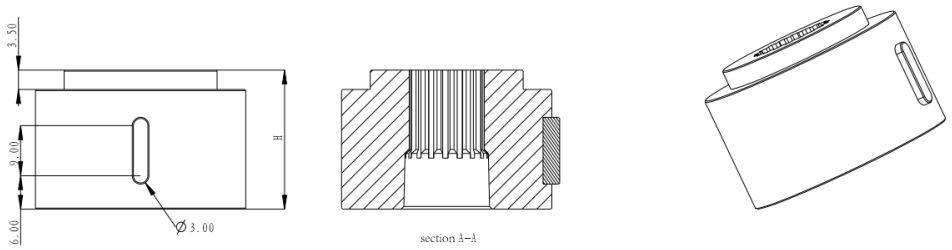
After the device is connected to the Internet, click Network Upgrade. The software will automatically search the cloud server and download the latest firmware. Please confirming the firmware information, click Start upgrade. Wait for the progress bar to complete the firmware upgrade.

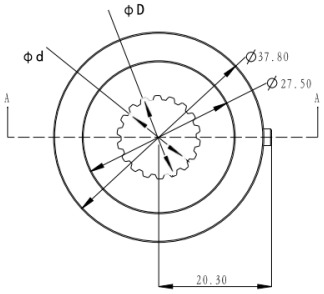
4.3.3 Rate Gyro

The smart antenna has a built-in three-axis gyroscope.
When stationary, the speed should not exceed ±0.15


Vehicles
Farm tools
Positioning
Hardware
App settings
System
User
Firmware
Rate gyro
Body
Rate
-0.01
Current type
Three-axis Gyro
Please stop the vehicle and click gyro calibration
Gyro calibration

Appendix 1





Type Name	PN	Diameter φd mm	Diameter φD mm	Teeth Number
15-18	3011100389	13.5	15	18
15-30	3021020262	13.5	15	30
16-36	3011100388	14.8	15.8	36
18-36	3011100385	17.5	18.8	36
18-36S	3011100386	17.2	18.2	36
18-40	3011100390	16.5	17.6	40
21-36	3011100391	19.5	20.6	36
22-36	3011100387	21	22.2	36
TN25	3011100392	25.25		1
NHL18	3011100393	17.88		1
WMD	3011100394	19.5		1
XQB	3011100395	19.5*		1

FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.