AD Plus2.0
User Manual

Revision History

Revision Date	Version	Revision Description	Author
2022-04-08	V1.0	First issue	Wang Xiaoyong

Contents

1. Overview

The *AD Plus2.0 User Manual* is intended to help users to better understand and apply the powerful functions available in the device system. Please note that only professional personnel can set the device.

Please note that only professional O&M personnel can set the device.

Streamax reserves the right of final interpretation of this document and the right to modify this document or information and descriptions therein. The contents of the manual are subject to change without further notice.

1.1. System Introduction

The AD Plus2.0 is an intelligent device that integrates the functions of the active collision avoidance alarm system, the driver abnormal behavior alarm system, the alarm prompter and the event data recorder (EDR), and can perform intelligent algorithm analysis and processing. Employing the deep learning technology, it can effectively identify hazards such as forward collision and too short following distance, and provide alarms for the driver's abnormal behaviors, thus reducing the traffic accidents due to the driver's personal reasons.

The truck EasyCheck App or IE settings can increase its efficiency. The EasyCheck App is recommended for easy carrying and quick settings.

1.2. Function Overview

The Streamax AD Plus2.0 is a cost-effective intelligent device specially developed for remote video surveillance and driving safety surveillance of trucks. It has the following functions and features:

1. 4-channel video, 2-channel by default (ADAS and DSC), and extended 2-channel Integrating the ADAS camera, DSC camera and MDVR
2. Uploading the alarm event and relevant video evidence to the cloud platform via a wireless network, providing real-time alarms, and preserving the onsite video evidence to facilitate evidence collection and truth restoration
3. Front 5MP ADAS camera, with an ultra-wide viewing angle, to provide 110° surveillance and 70 m vehicle detection
4. 1080p cockpit lens to provide HD surveillance of the whole cockpit
5. Integrating 3G/4G, Wi-Fi, G-Sensor, and other modules to provide various functions
6. Adopting the GPS positioning technology to record the vehicle track in real time for background analysis
7. 2 × Micro SD card for video storage, with the maximum capacity of a single card up to 256 GB
8. Remote monitoring and IP voice intercom

2. Instructions for Use of Functions

2.1. Software Download and Installation

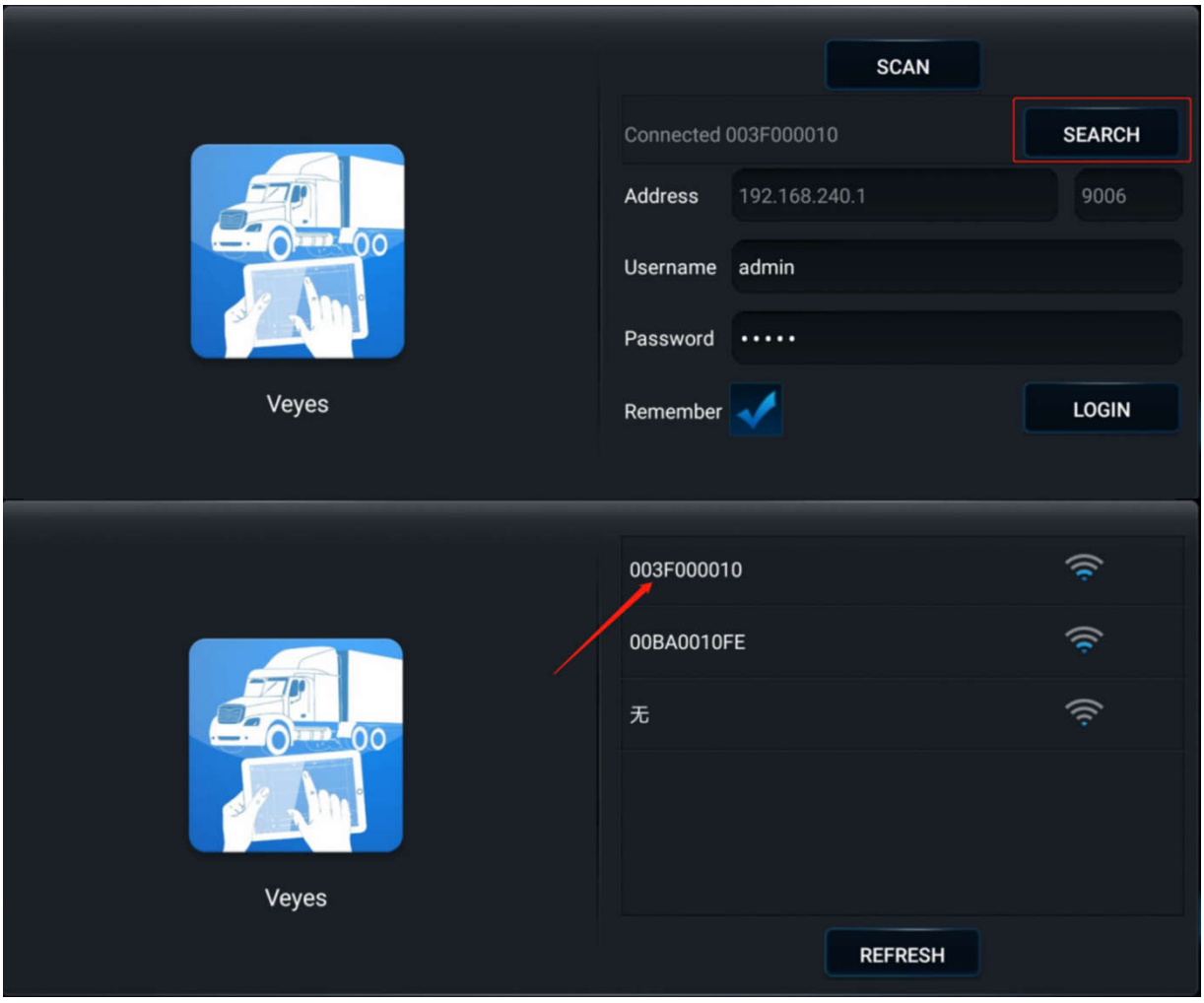
For Android phone users, please search for "Veyes" in Google Play, and for iPhone users, please search for "Veyes" in Apple Store. Install the downloaded software.

2.2. Login/Logout

Turn on Wi-Fi and GPS on your mobile phone before connecting the device with the truck EasyCheck app.

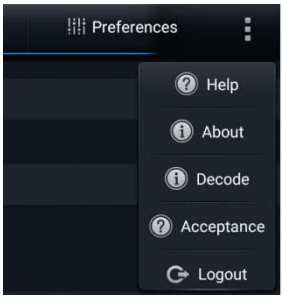
After the AD Plus2.0 device is powered on, it will remain in AP mode within 2 minutes. Then, run the truck EasyCheck app on your mobile phone and tap **SEARCH**. The screen listing the Wi-Fi hotspots found is displayed. During the first login, the Wi-Fi hotspot is named after the encrypted chip number of the AD Plus2.0. If the license plate number is changed, the hotspot name is the new license plate number. Search for a Wi-Fi hotspot named after the encrypted AD Plus2.0 chip number or the license plate number you have entered. The login screen is displayed.

On the login screen, enter the corresponding username and password. Default username/password: **admin**/**admin**.



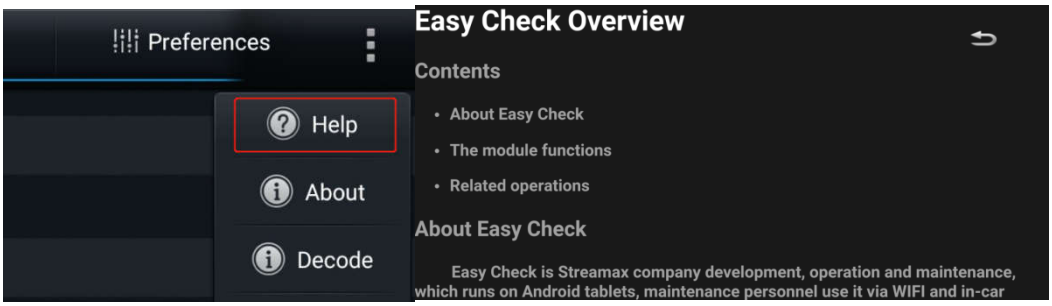
Tap **LOGIN**. The operation screen is displayed, as shown in the figure below.

Tap on the upper right corner. The menu including Help, About, and Logout is displayed.

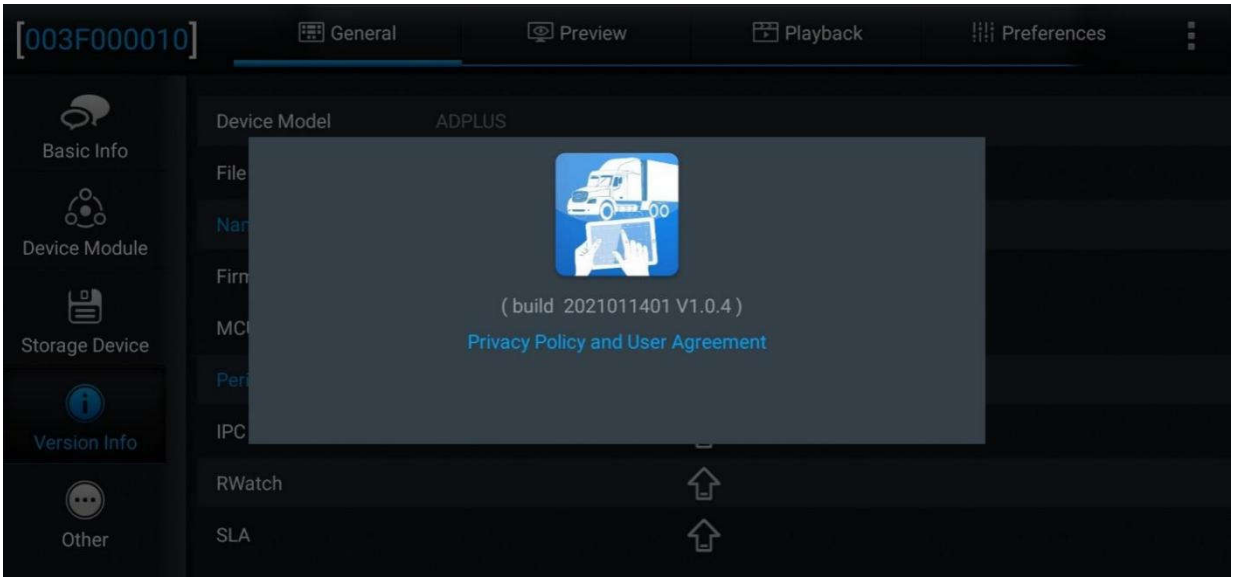


Tap **Logout** to log out of the connected device.

Tap **Help** to view the help document of the truck EasyCheck app, as shown in the figure below.



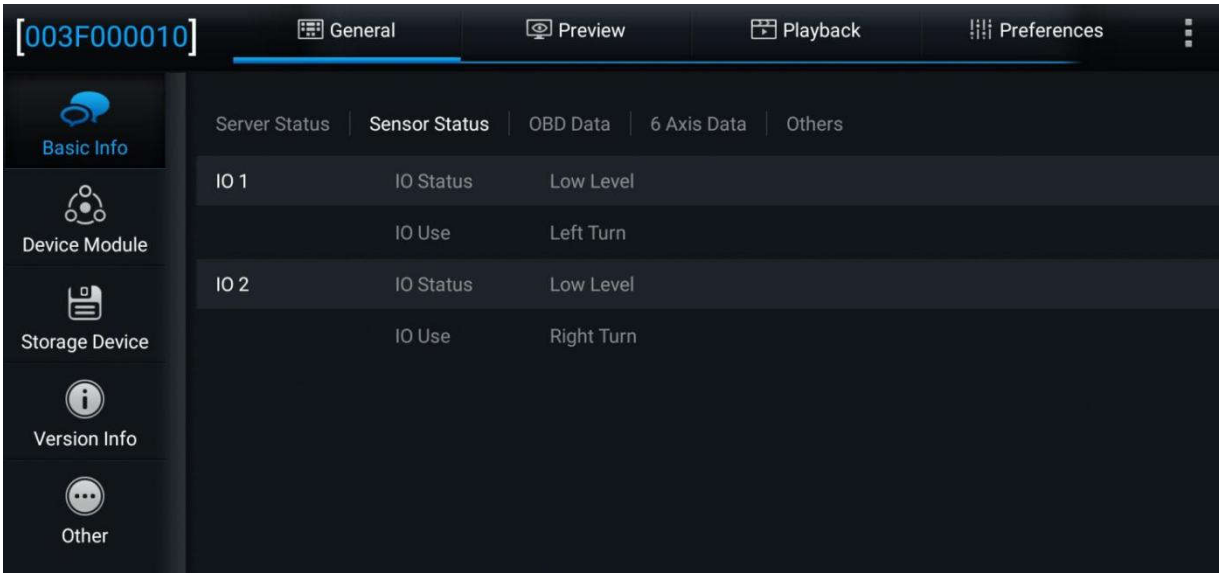
Tap **About** to view the version information of the truck EasyCheck app on your mobile phone.



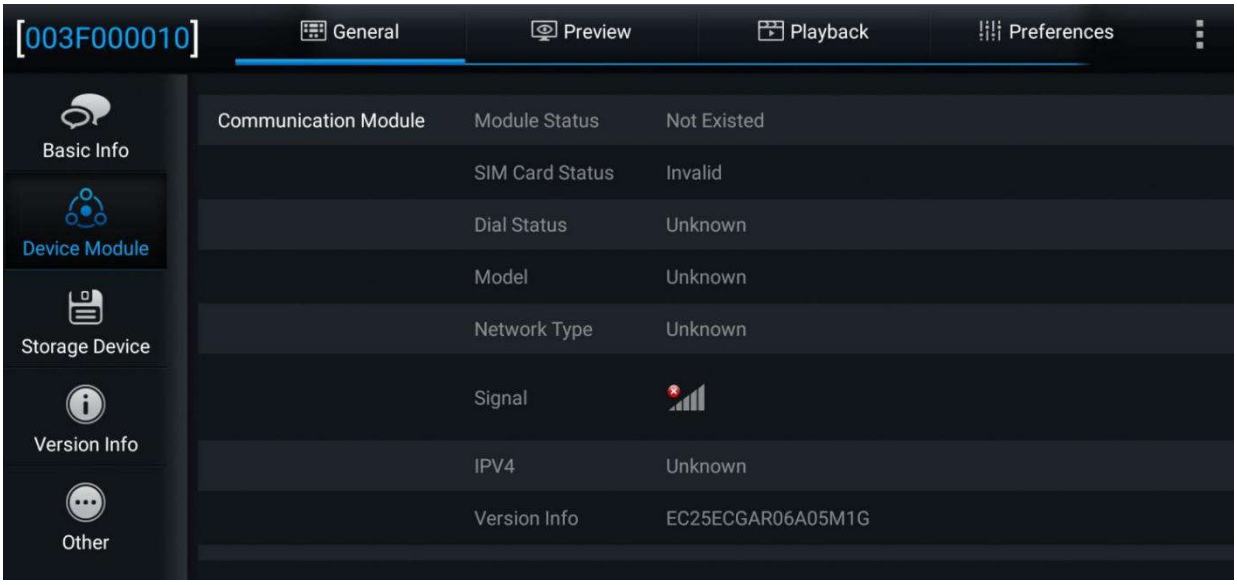
2.3. General

On the **General** screen, you can view the real-time status of the device, import/export parameters, logs, and other files, and upgrade the software.

- **Basic Info**: shows the server connection status, IO level status and use, OBD data, G-Sensor data, ACC status, pulse status, and device status.



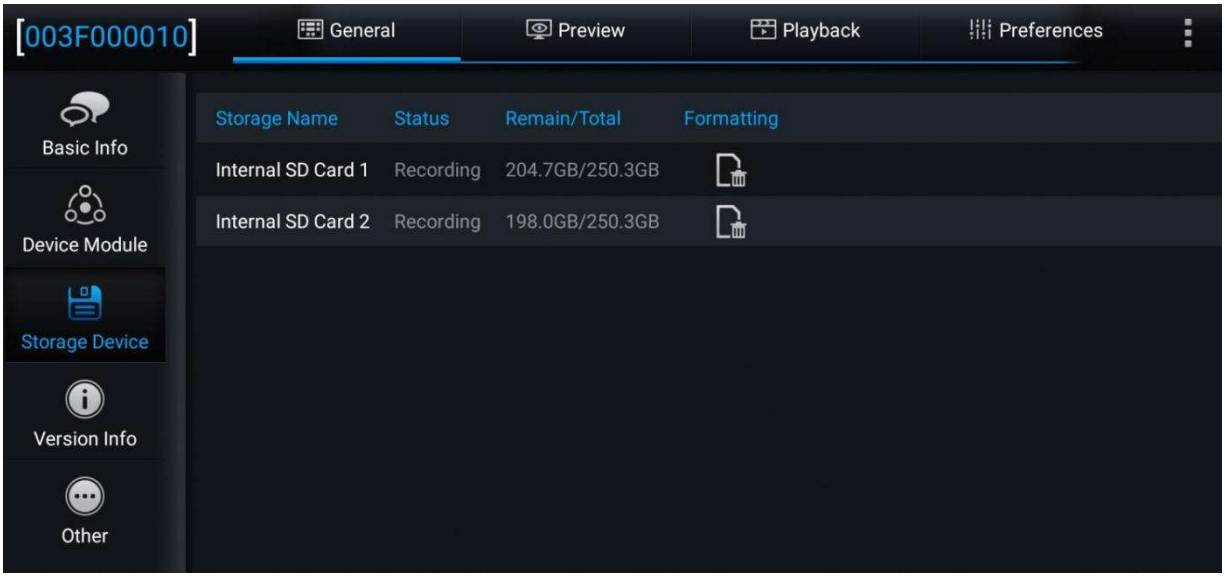
- **Device Module**: shows the status of the Wi-Fi, 3G/4G, and positioning modules of the device.



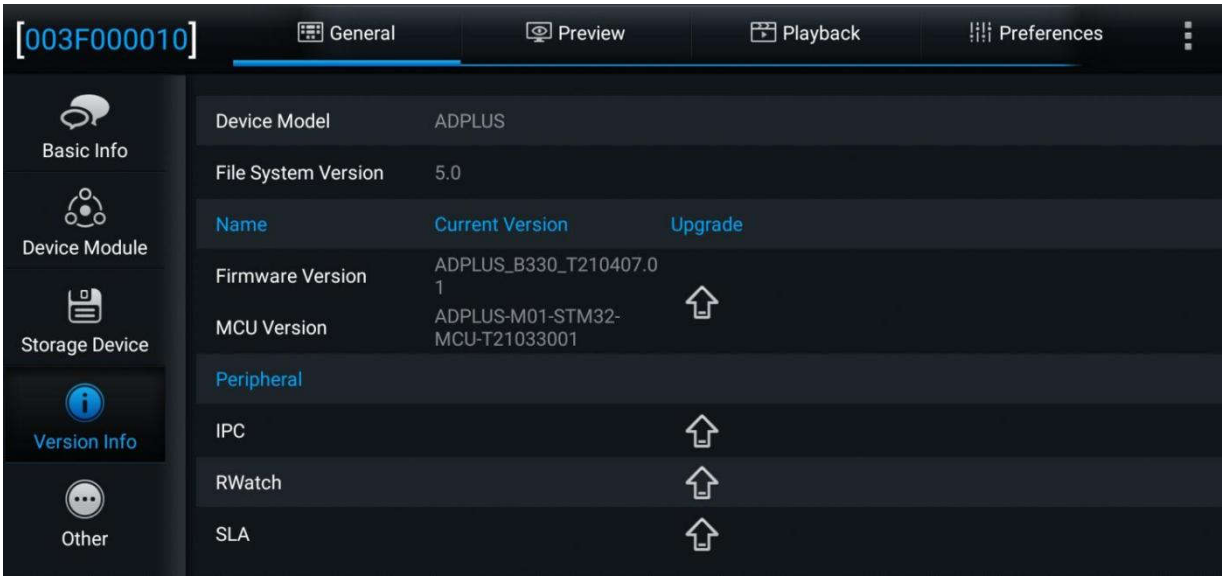
- Positioning information: it is used to check the satellite positioning signal quality of the device, and help the installation, operation and maintenance personnel to evaluate the positioning capability and quality of the device, so as to perform corresponding maintenance actions. On this screen, the top row indicates the number of active satellites and the total number of satellites. PRN in the list below indicates the serial number of the satellite. GNSS indicates the global satellite navigation system (GPS, GLONASS, or GALILEO) that the satellite belongs to. SNR indicates the signal-to-noise ratio, which is a parameter reflecting the quality of satellite positioning signals. Direction angle represents the satellite azimuth angle, and Altitude angle represents the satellite altitude angle.

This screen is displayed only when the GPS raw data record command is opened. For the specific operation method, please see Section 2.8.1 "Location".

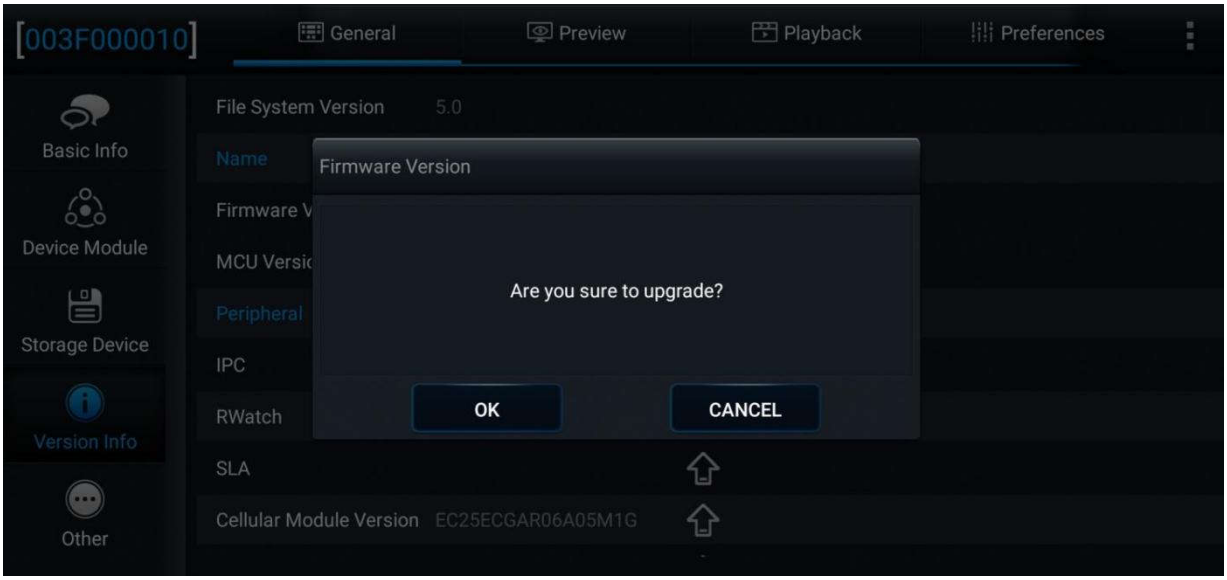
Storage Device: shows the information of the built-in and external storage devices of the device and allows formatting them. For the built-in memory, a prompt will be displayed after you tap the icon in the **Formatting** column, for you to confirm the formatting operation.



•• **Version Info**: shows the software version information.



• On the **Version Info** screen, you can locally upgrade the version of the MDVR, IPC, R-Watch, communication module, GPS, or power box. A USB adapter cable is required to connect to a USB flash drive or the EasyCheck App with the SD card for the upgrade. To upgrade the required item, tap . In the displayed confirmation prompt box, tap **OK**.



- **Other**: allows importing/exporting O&M logs, restoring default settings, and rebooting the device. A USB adapter cable is required to connect to a USB flash drive or the EasyCheck app with the SD card for data import/export operations.

✧ **It allows logging in to the device via the EasyCheck app to perform the following operations:**

1. Export alarm logs, user logs and black box files
2. Export alarm capture images of the selected time period
3. Import/Export the Geo-fence information
4. Import/Export the AI configuration file
5. Restore default settings
6. Export print data within a specified time period
7. Reboot the device
8. Import and clear the encryption key

✧ **It allows logging in to the device via the IE browser to perform the preceding operations.**

2.4. Preview

On the **Preview** screen, you can view the real-time recording, turn on/off the sound or guide, and perform AI calibration.

2.4.1 Viewing Real-Time Recording

On the **Preview** screen, you can view the real-time recording of each channel of the device. Double-tap on the preview screen of a channel to zoom in and double-tap again to return to the normal screen. If the camera is damaged or not connected, "**VIDEO LOSS**" will be displayed.

2.4.2 AI Calibration

ADAS automatic calibration is supported by AD Plus2.0. After the ADAS lens installation height, left margin, front end width, and front end length **are** entered, the equipment will be calibrated automatically. For detailed setting screen, refer to Section 2.9.5. Here, the traditional method of ADAS algorithm calibration from the preview interface and the calibration method of the external DMS camera lens (optional) are introduced.

2.4.2.1 ADAS Calibration

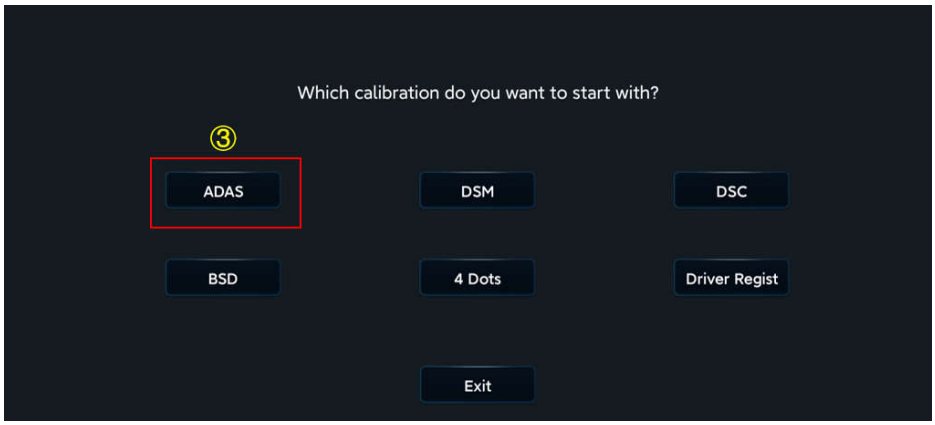
① On the home screen, tap **Preview**. The **Preview** screen is displayed.

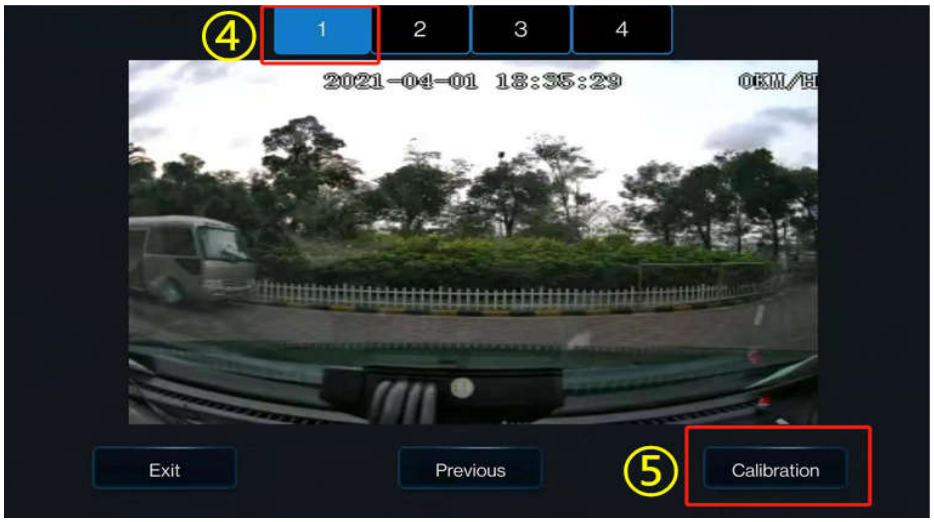
② Tap **AI Calibration** on the lower left corner.

③ Tap **ADAS** for calibration.

④ Tap channel **1**.

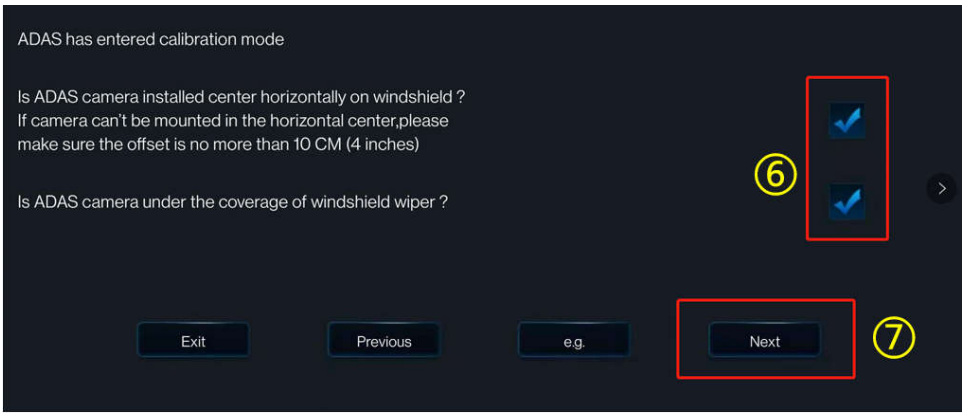
⑤ Tap Calibration.





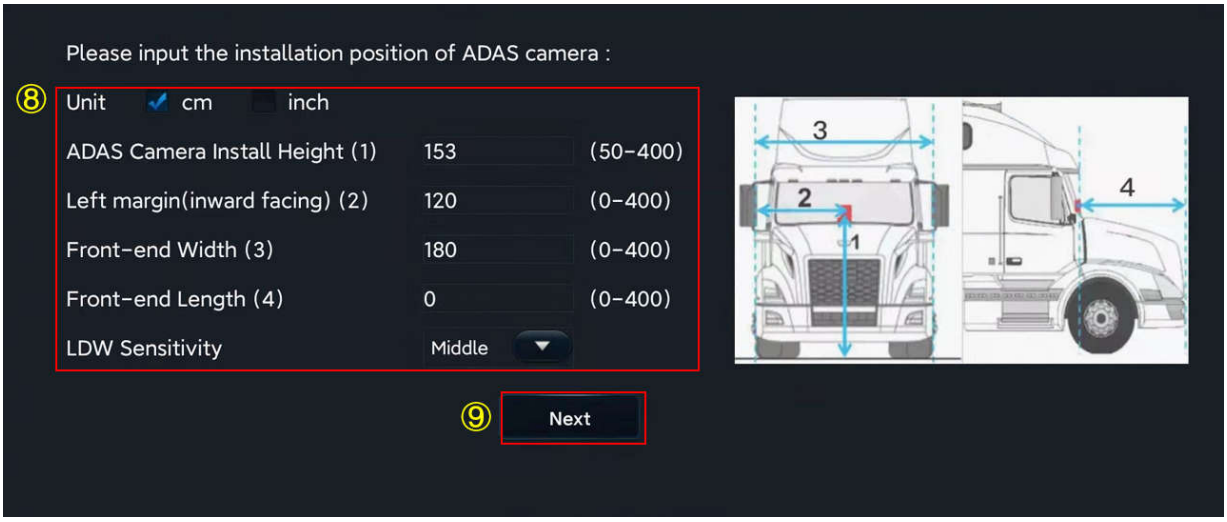
⑥ Select the two check boxes.

⑦ Tap **Next**.

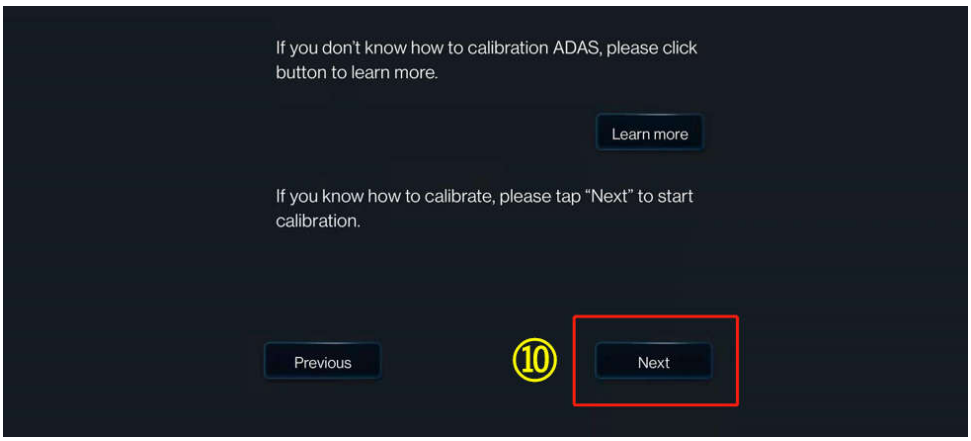


⑧ Enter the vertical height of the front-facing camera from the ground, the horizontal distance between the front-facing camera and the outer edge of the leftmost tire of the vehicle (on the left side of someone standing on the outside of the vehicle and facing the front end), and the width and length of the front end (in centimeter or inch; referring to the example on the right for the size measurement, with each parameter serial number corresponding to each legend serial number). In addition, this step is added with the setting of the lane departure alarm sensitivity, and the installation personnel can select the appropriate sensitivity according to the vehicle model during installation, so as to realize more accurate alarms. The lane departure sensitivity is optional for low, medium, and high. And the default sensitivity is medium.

⑨ Tap **Next**.



⑩ Tap **Next** (tap **Learn more** to learn how to calibrate the ADAS camera).



⑪ Tap **Next**.

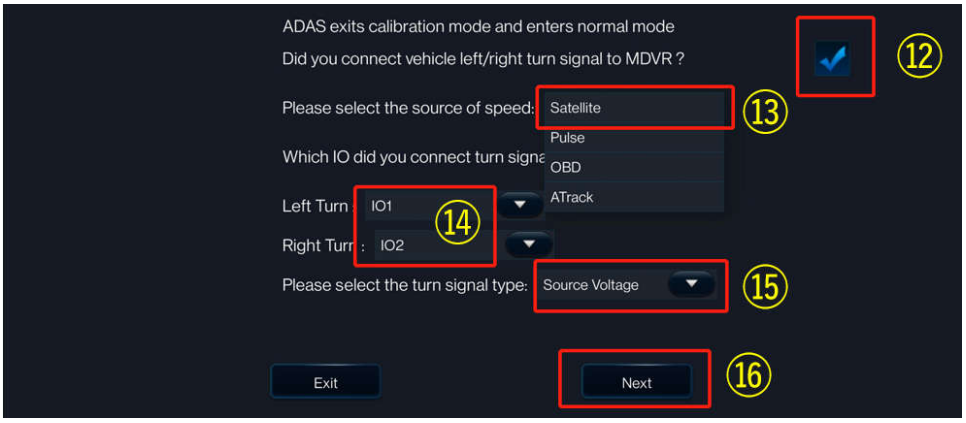
⑫ Select the check box.

⑬ Tap the required source of speed from **Satellite**, **Pulse**, **OBD**, and **ATrack**.

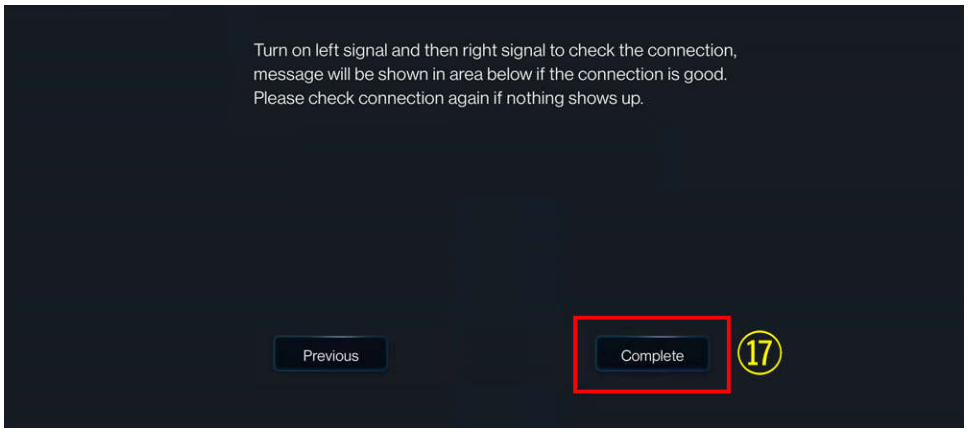
⑭ Select the required IO for the left/right turn signal in **Left Turn**/**Right Turn** respectively.

⑮ Tap the required signal source type from **Source Voltage** and **Source Pulse**. Usually, **Source Pulse** is selected.

⑯ Tap **Next**.



⑰ After checking that the left and right signal cables are properly connected, tap **Complete**. The calibration of the ADAS camera is completed.



2.4.2.2 DSC Calibration

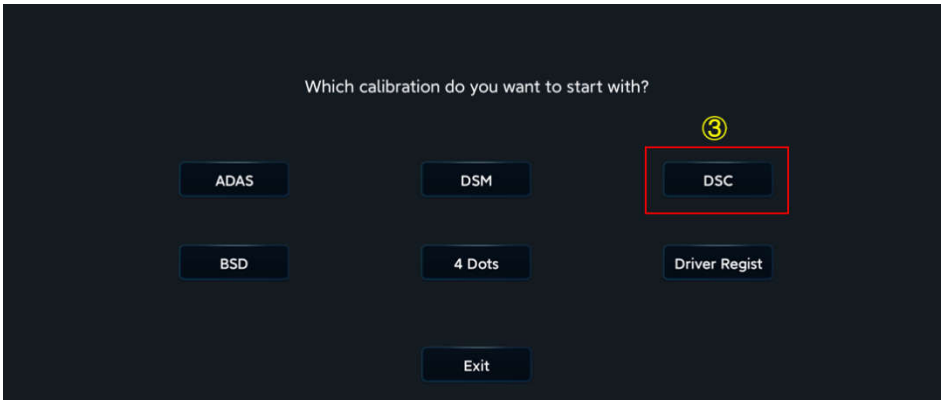
① On the home screen, tap **Preview**. The **Preview** screen is displayed

② Tap **AI Calibration** on the lower-left corner

③ Tap **DSC** for calibration

④ Tap channel 2

⑤ Tap Calibration



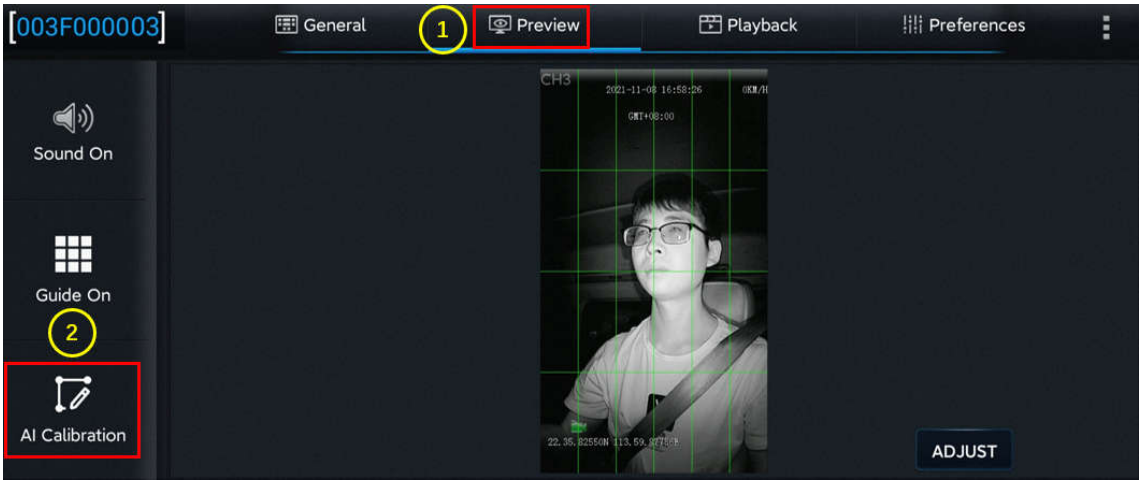
⑥ Select left-hand drive or right-hand drive for the steering wheel (left-hand drive indicates that the steering wheel is on the left of the cockpit when the driver is seated in the cockpit and facing toward the front direction; right-hand drive indicates that the steering wheel is on the right of the cockpit when the driver is seated in the cockpit and facing toward the front direction)

⑦ Tap **Save** to save the operation. The DSC calibration is complete

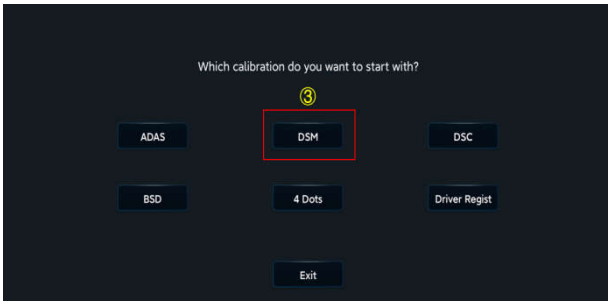
⑧ Tap **Exit** to exit the DSC calibration.

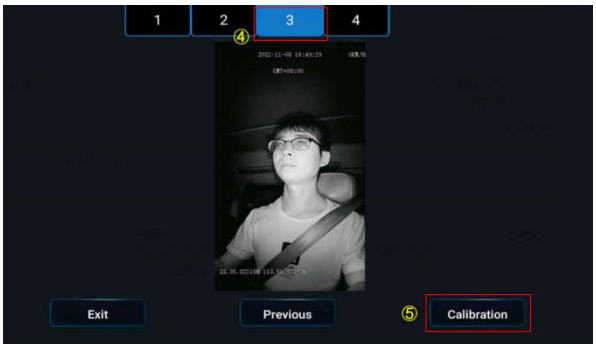
2.4.2.3 DMS Calibration (Optional)

1. Click **Preview** on the homepage to enter the Preview screen
2. Click **AI Calibration** for calibration

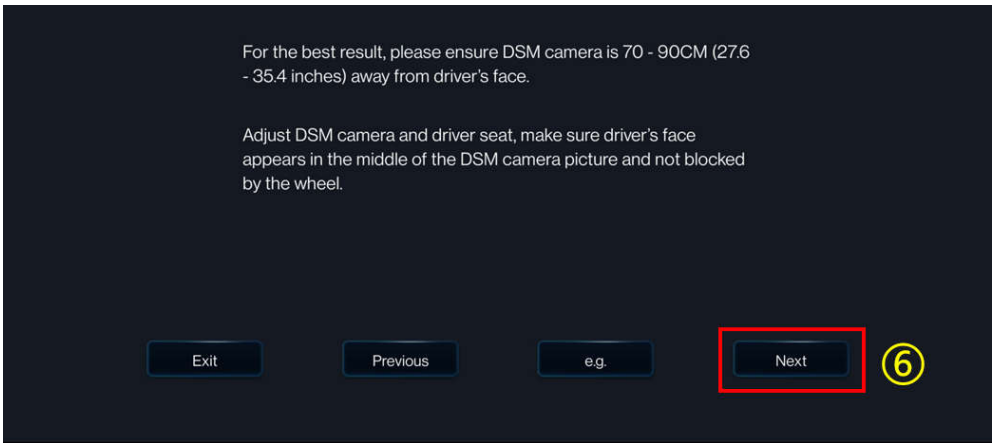


3. Click **DMS** for calibration
4. Choose the channel corresponding to the DMS camera
5. Click **Calibration** for the next step





6. Confirm the prompt--Click **Next** for the next step

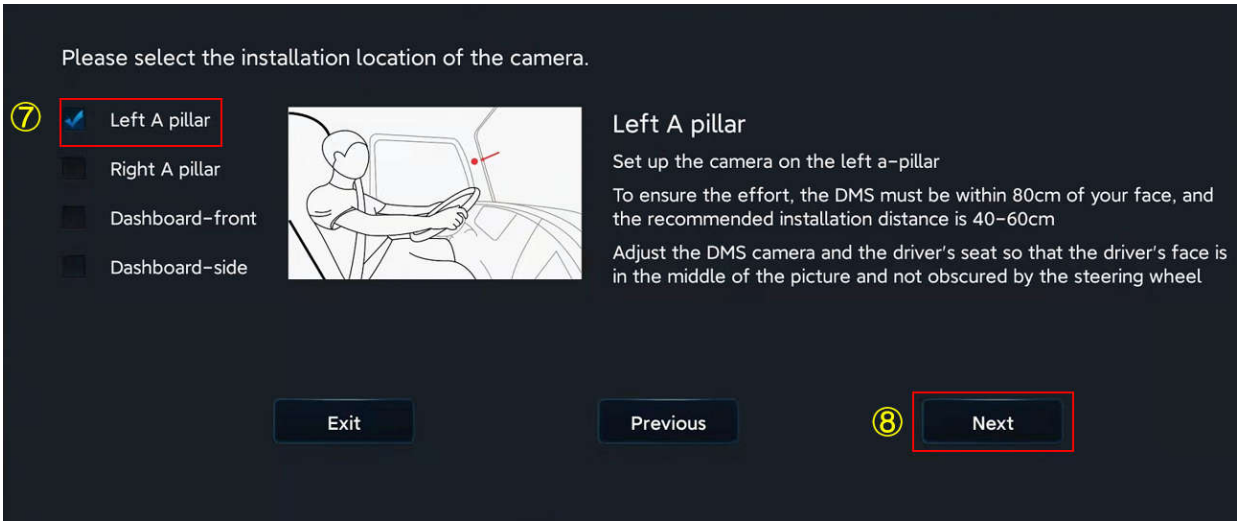


7. For the installation location of the DMS camera, the left A-pillar, the right A-pillar, the front side of the countertop, and the lateral side of the countertop are available. If you have any questions, please click each option in turn, and refer to the legend and description on the right.

After selecting the corresponding installation method, the software automatically associates the calibration method with the installation method, not requiring any manual operation (for installation on the left A-pillar, the right A-pillar, and the lateral side of the countertop, the lateral side calibration is applied, and for the installation on the front side of the countertop, the front side calibration is applied).

(This step is very important, and the selected installation method must be consistent

with the actual installation method)



*Note:

Before clicking **Next** to start formal calibration, the driver shall sit in the normal driving posture and look straight ahead.

8. Click **Next** to move on to the next step for automatic face calibration.

During calibration, make sure that the driver sits still according to normal driving habits and posture and looks straight ahead.

In the process of side calibration, the intelligent algorithm will automatically learn the driver's head deflection angle and the positions of feature data of the driver's face. If the driver moves his head during the calibration, the calibration will restart automatically.

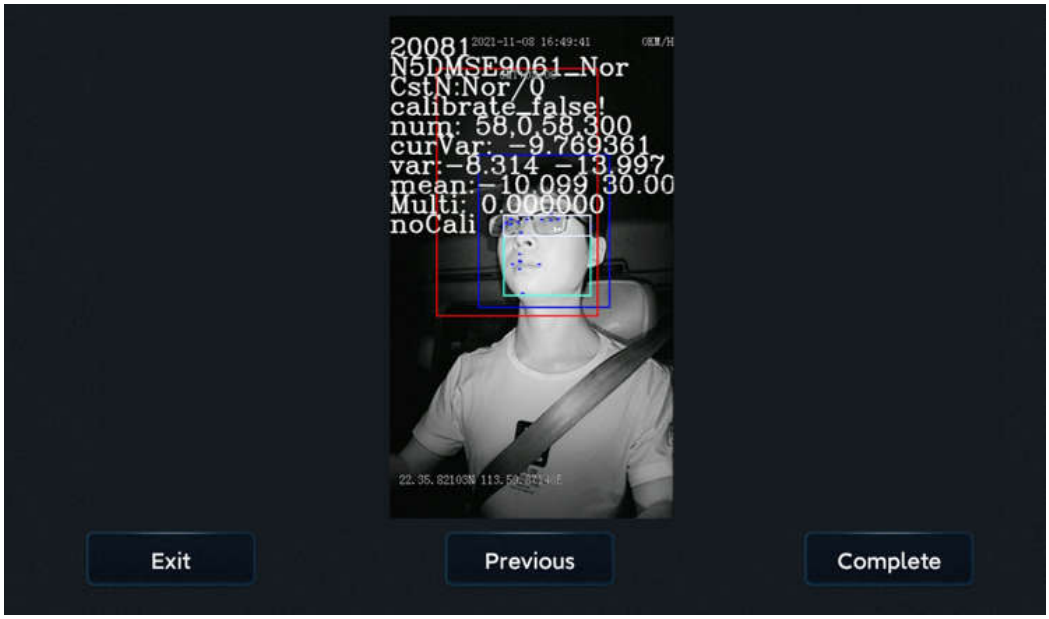
*Note:

For installation on the left A-pillar, the right A-pillar, and the lateral side of the countertop, the human face and the camera must form a certain angle to complete the calibration.

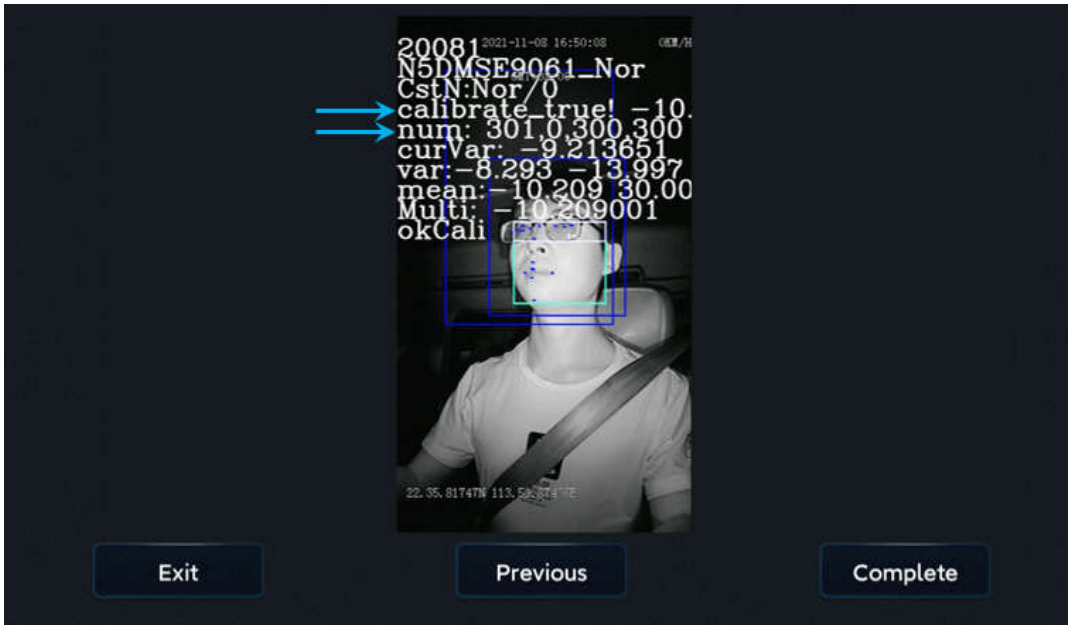
For installation on the front side of the countertop, the human face must be in front of the camera to complete the calibration.

The driver sits still and waits for the equipment to be calibrated automatically. When the value of NUM reaches 301 in the mode of side installation and side calibration (51 in the mode of front installation and front calibration), the calibration frame turns from red to blue, and then the automatic calibration ends.

Calibration is ongoing:



Calibration completed



Click **OK** to complete the calibration and exit the calibration mode.

2.5. Playback

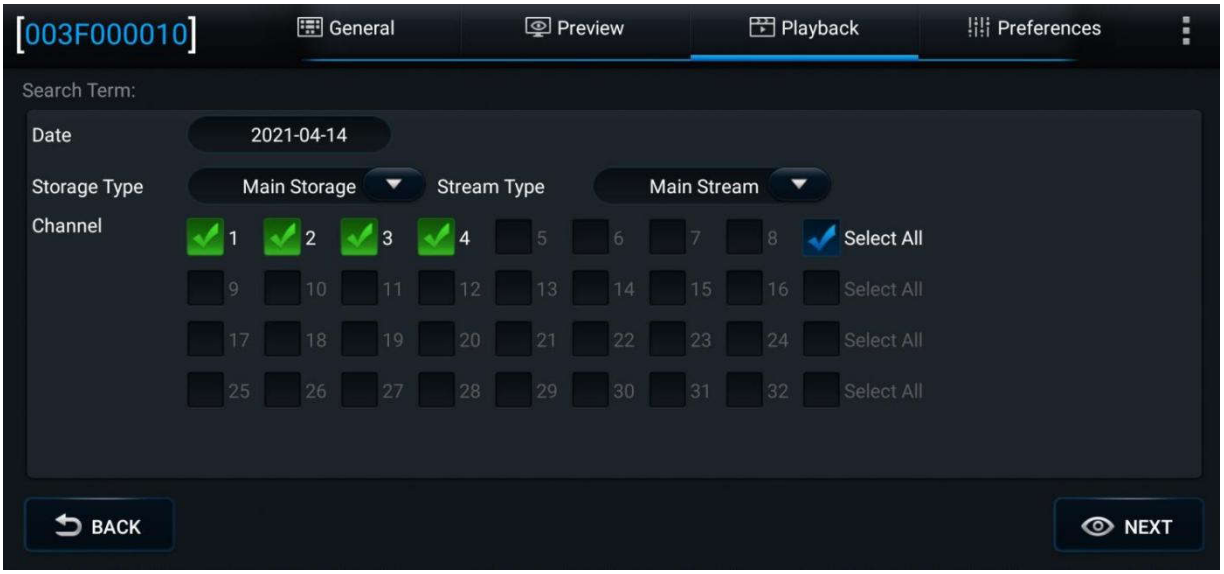
2.5.1. Video Playback

On the **Playback** screen, you can search for the main-stream video/sub-stream video in the main storage/sub-storage on a certain date.

On the Playback screen, select a date from the calendar for video playback. On the left part of the screen, you can select the year and month. Tap  and  to select different years and months. In the calendar, the color of the strip under a date indicates that videos were recorded on that day. Where,

No colored strip	No video recorded on that day
Green	Normal videos recorded on that day
Red	Alarm videos recorded on that day
Yellow	Alarm videos recorded on that day and file automatically locked (videos locked)

Tap the date of the video to be viewed in the calendar. On the displayed screen, select the channel of the video to be viewed. You can re-select the date and type of the video on this screen. Then, tap NEXT.



After the channel is selected, you can drag the timeline to select the playback time, and tap **Play**. During the playback, you can select the play operation. Double-tap on the screen to hide the operation screen and zoom in on the play screen.

- Timeline:

1) The timeline at the top displays time at an interval of 1 hour.

2) You can drag the 06:10:26 to any position in the timeline below.

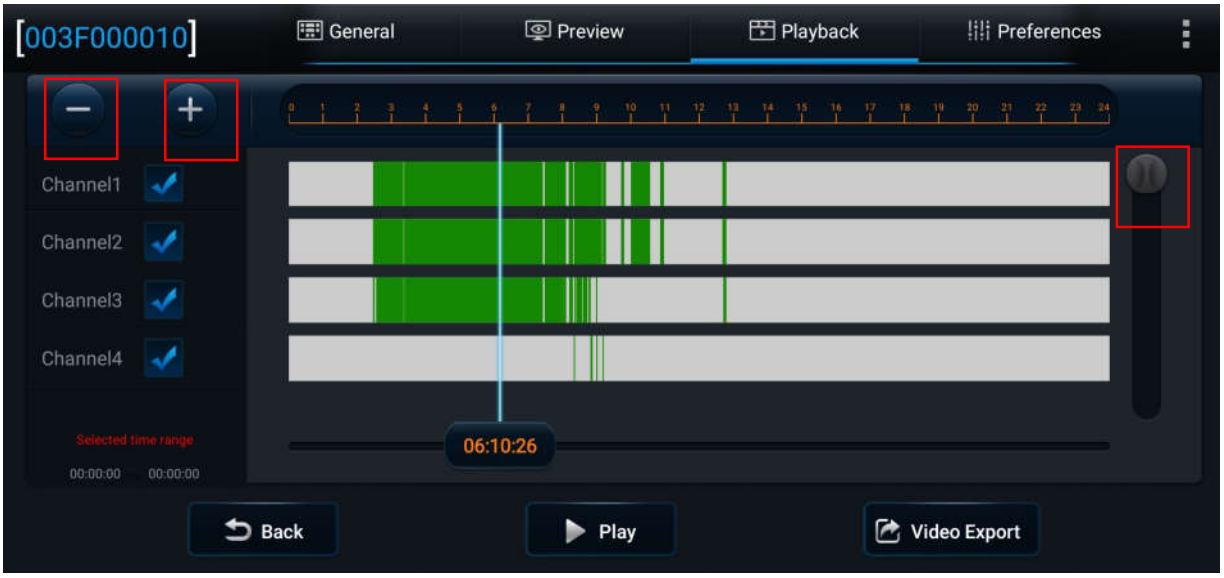
3) Tap − on the upper left corner of the screen to reduce the time interval and tap + to enlarge the time interval. This function allows you to quickly locate a certain time period for the next playback/export operation when there are many video segments.

- Channel No.:

1) The colored strip for each channel indicates the video types in different time periods.

2) If there are many video channels, drag on the right part of the screen upward and downward to view the video of each channel.

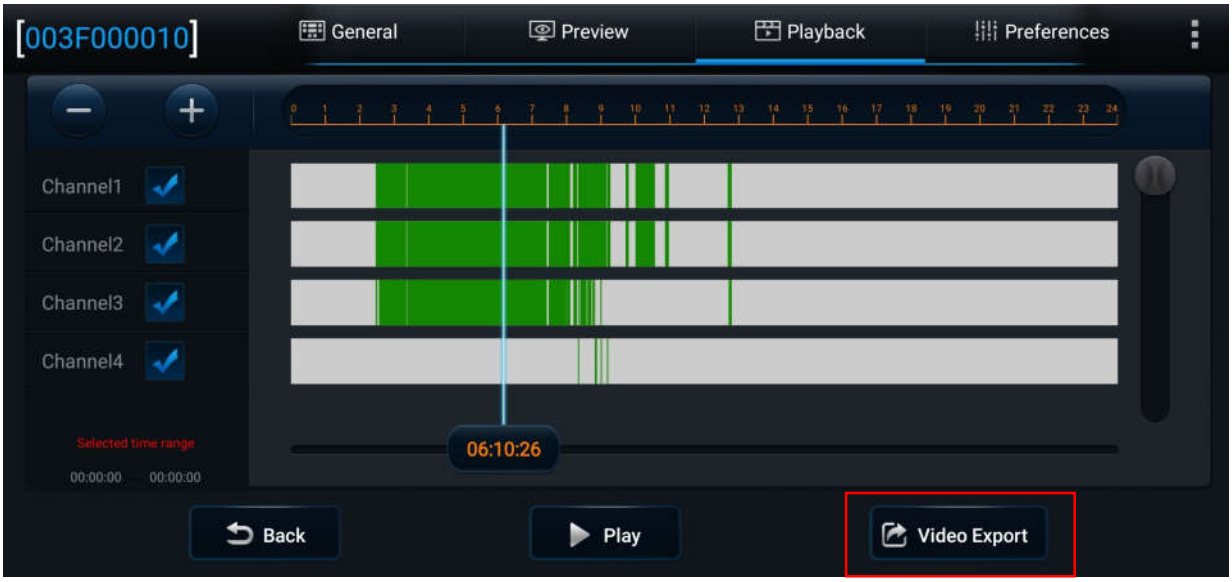
3) Check a channel (or more) and select the timeline(s) to playback or export the videos in the channel(s) at the selected time.

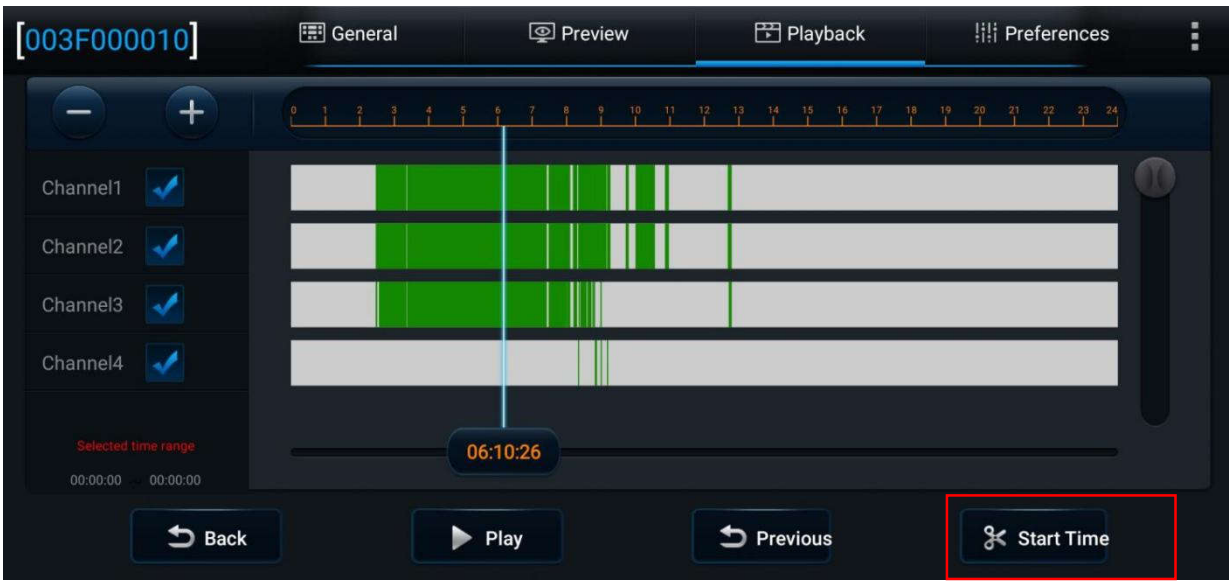


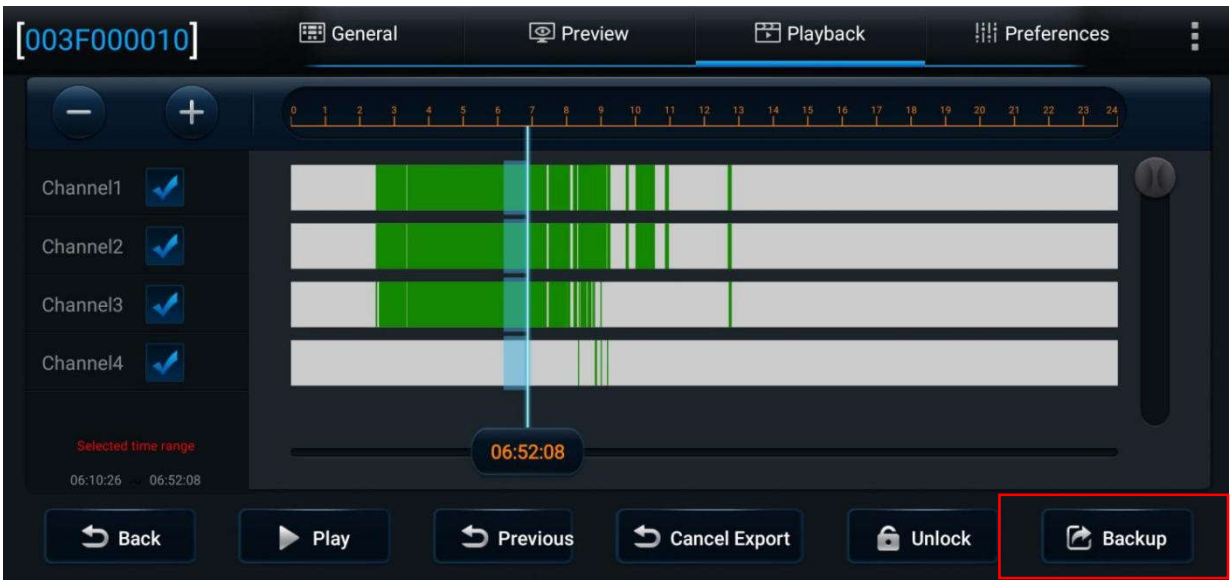
2.5.2. Video Export

You can also export the video of the selected time period.

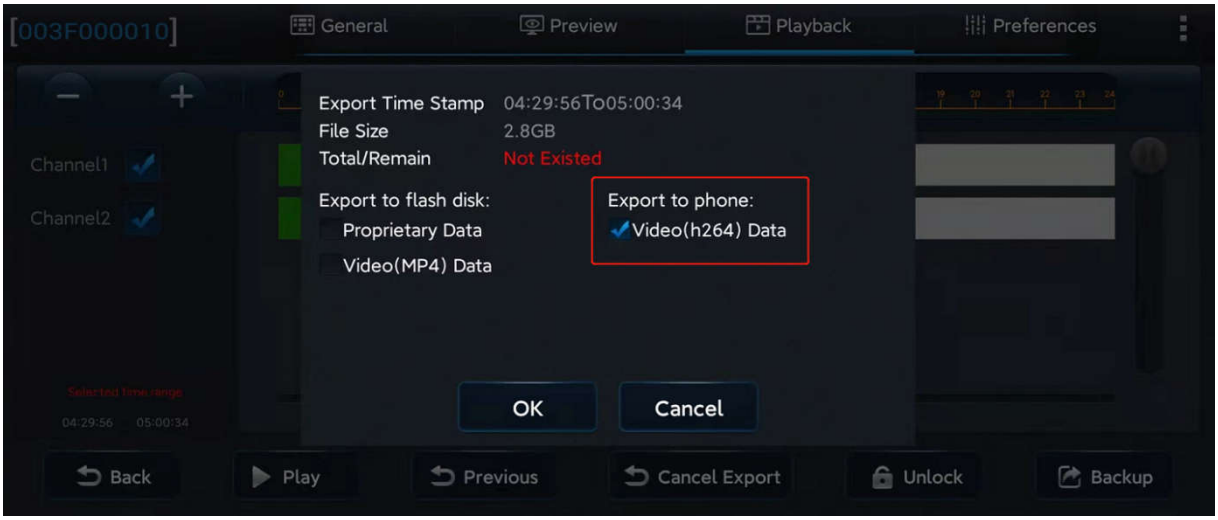
Tap **Video Export** at the bottom of the **Playback** screen and select the start time and end time. To export the video, tap **Backup**; to lock the video of the selected time period, tap **Unlock**.







In the video export options, you can choose to export the cropped video to an external USB disk or mobile phone, so that O&M personnel can quickly obtain and share the video.

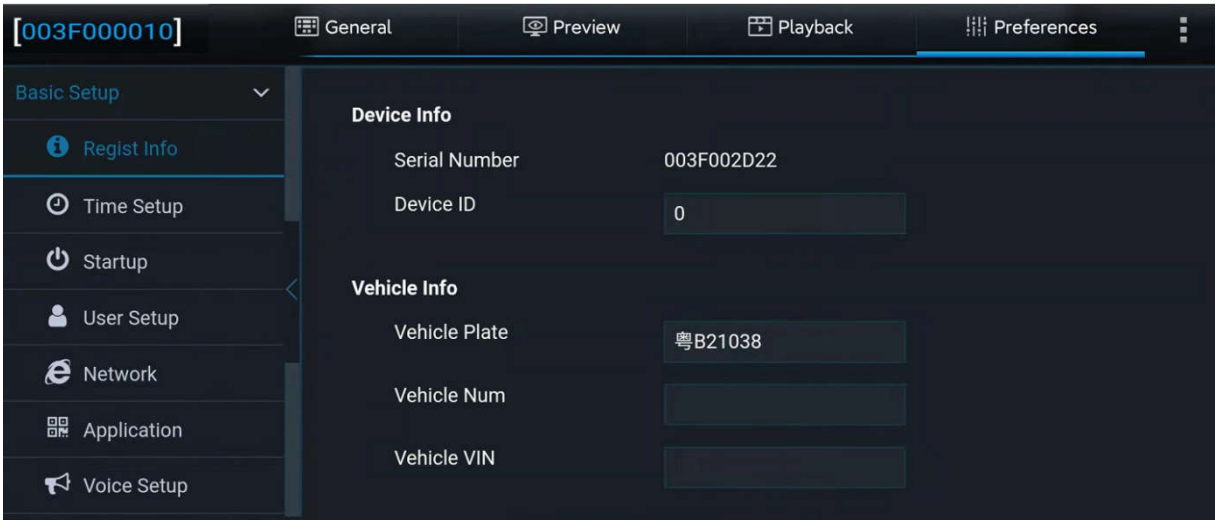


2.6. Basic Setup

Note: On all parameter configuration interfaces, tap **Save** to save the modified parameters and tap **Default** at the bottom of the screen to restore the default settings of the parameters.

2.6.1. Registration Information

On this screen, you can set **Device Info** (**Device ID**), **Vehicle Info** (**Vehicle Plate**, **License Plate**, and **Vehicle VIN**), and **Driver Info** (**Driver Number** and **Driver Name**). After setting the license plate number here, the Wi-Fi hotspot will be named after the license plate number when you connect the device hotspot using Veyes.

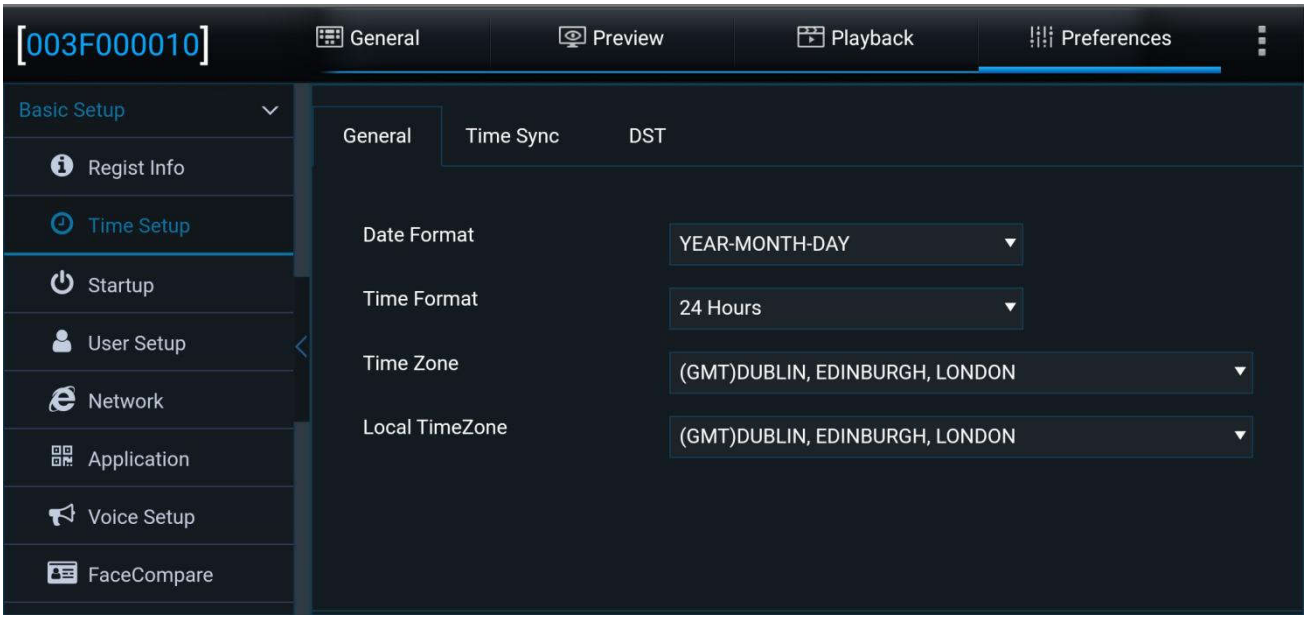


2.6.2. Time Setup

General: allows you to set the format of the time display and the time zone in which it is located.

1. **Date Format**: can be set to **YEAR-MONTH-DAY**, **MONTH-DAY-YEAR**, or **DAY-MONTH-YEAR**. It is reflected only in the live view and recording OSD.
2. **Time Format**: can be set to **24 Hours** or **12 Hours**. It is reflected only on the live view screen and in recording OSD.
3. **Time Zone**: allows you to select the required time zone.
4. **Local TimeZone**: allows you to choose the local time zone (Local TimeZone

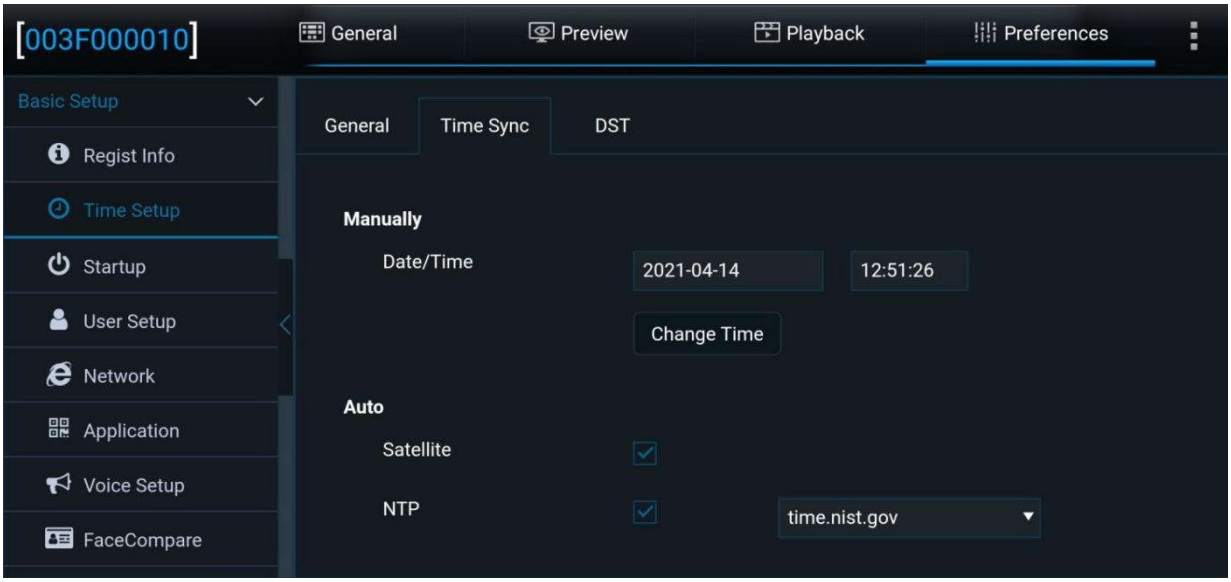
is available only when Time Zone is set to UTC+0)



- Time Sync:

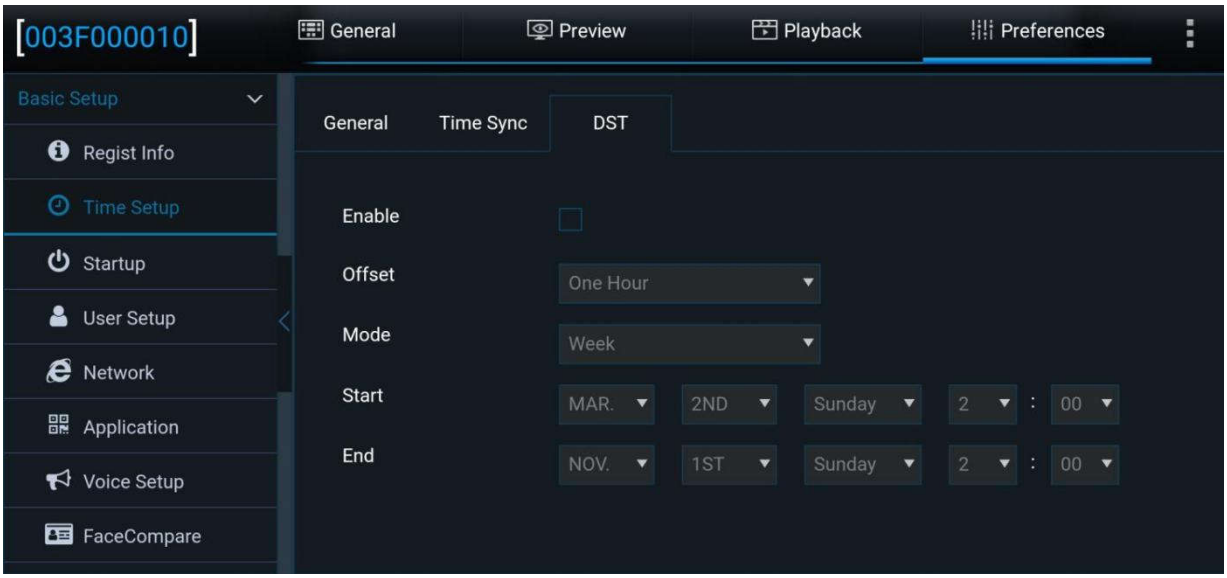
The time will be synchronized automatically when there is a deviation between the system time and the actual time. In the automatic time synchronization settings, you can enter the date and time manually, or set the time synchronization method.

1. Tap **Change Time** to modify the date and time manually.
2. **Satellite**: allows you to synchronize time with the GPS.
3. **NTP**: allows the system to use the WAN network time. You can select the time of different WAN servers.
4. **Central Server**: allows the system to use the time of the reported platform. If multiple platforms are reported, you can select the time of different platforms.
5. If multiple time synchronization methods are selected at the same time, the synchronization will be started in order of priority: satellite > NTP > central server. Once the time synchronization is successful, the next method will be stopped.



- **DST**:

For some regions, you need to set the DST due to the time zone reason. Specifically, you can set the start & end time, and offset in weeks or days. Tap **Preferences** > **Basic Setup** > **Time Setup** > **DST**, as shown in the following figure:

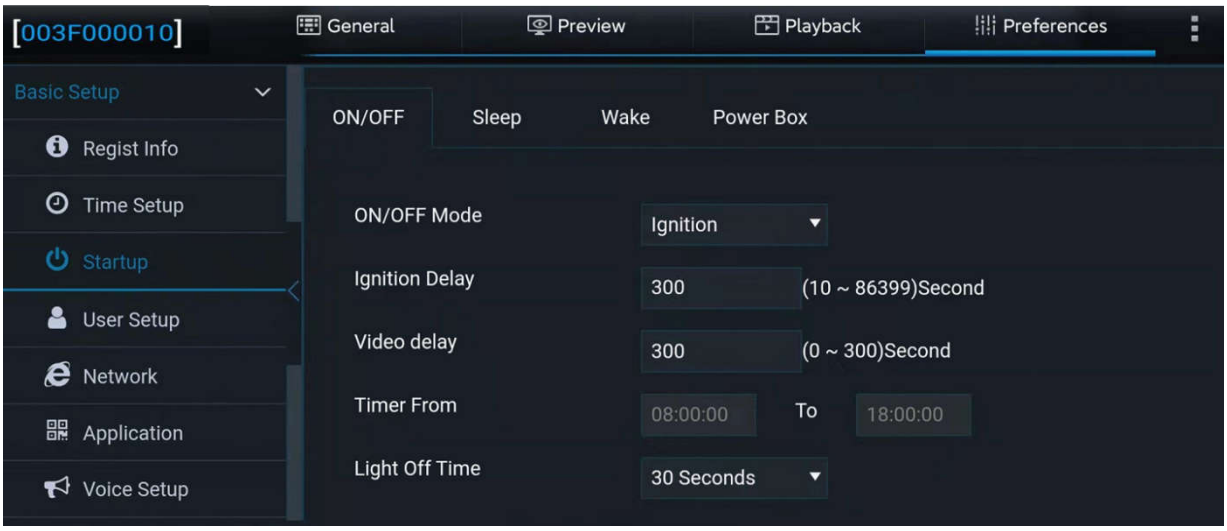


1. **Enable**: allows you to enable or disable the DST function. It is disabled by default.
2. **Offset**: can be set to **One Hour** or **Two Hours**.
3. **Mode**: can be set to **Week** or **Date**.
4. **Week**: allows you to set **Start** and **End** of the DST by setting the month, Nth day of the week, and hour/minute/second.
5. **Date**: allows you to set **Start** and **End** of the DST by setting the date and hour/minute/second.

2.6.3. ON/OFF

- ON/OFF

Tap **Preferences** > **Basic Setup** > **Time Setup** > **ON/OFF**, as shown in the following figure:



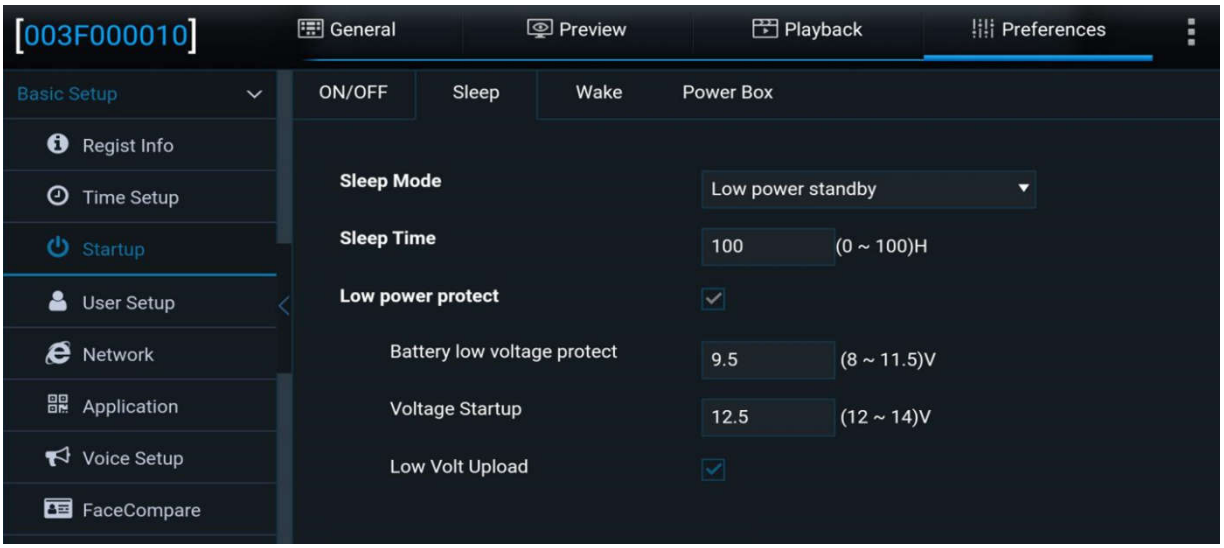
1. **ON/OFF Mode**: You can select **Ignition** (that is, use the car key to turn on the

device).

2. **Ignition Delay**: allows you to set the time for the delayed shutdown after the car key is turned off, which can be set from 0 to 86399 seconds, and the default is 300 seconds.
3. **Video Recording Delay**: allows you to set the time for the video recording after the car key is turned off. The configurable time range changes with the ignition delay. The maximum time for video recording delay is subject to the ignition delay. Specifically, the video recording delay is equal to or less than the configured ignition delay.
4. Scheduled Power-on Time: allows you to select the time range for powering on the device. Currentl, the scheduled power-on and power-off are not available.
5. Backlight turn-off time: when an external display is connected, the screen backlight turn-off time can be configured, including never, 30s, 1 min, 3 mins, 5 mins, and 10 mins.

- Sleep

Tap **Preferences** > **Basic Setup** > **Time Setup** > **Sleep**, as shown in the following figure:



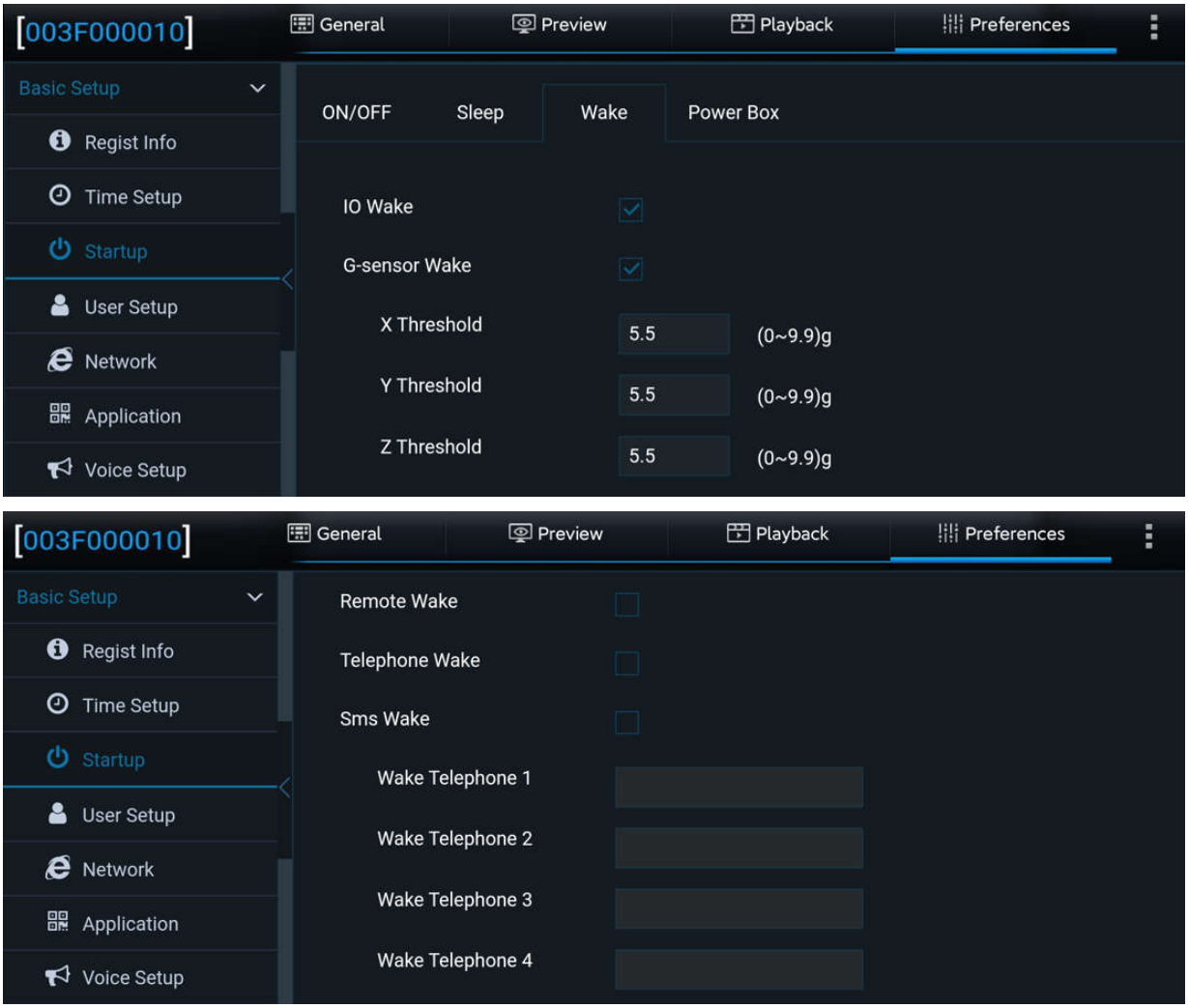
1. Sleep Mode: can be set to Low power standby or Zero power standby.
   - **Zero power standby**: In this sleep mode, the system will not be waken up after the device is turned off in ignition or timing mode.
   - **Low power standby**: In this sleep mode, the system can be waken up by the IO alarm, phone call, or SMS and start the MDVR after the device is turned off in ignition or timing mode.
2. **Sleep Time**: allows you to set the sleep time to 0–100 hours. The default is 100 hours.
3. **Low power protect**: enables low voltage protection after being selected.
4. Battery low voltage protect: enables the system to enter the sleep status when the car key is turned on and to enter the power-off status when the car key is turned off, thus protecting the battery power of the vehicle when the battery voltage is lower than the set value.
5. **Voltage Startup**: restarts the system when the battery voltage is higher than

the set value in the sleep status.

6. **Low Volt Upload**: automatically reports the low voltage to the platform after being selected when the low voltage protection is triggered.
7. **Note**: When the low voltage protection is not enabled, 7 V is the judgment condition for low voltage protection by default.
8. Sleep Upload: reports the GPS information so that you can view the vehicle location information when the device restarts at regular intervals after the vehicle is turned off and goes online properly. The time interval cannot be modified for the time being, and the default is 5 minutes.

- Wake

Tap **Preferences** > **Basic Setup** > **Time Setup** > **Wake**, as shown in the following figure:



To select a wake method, select the corresponding check box.

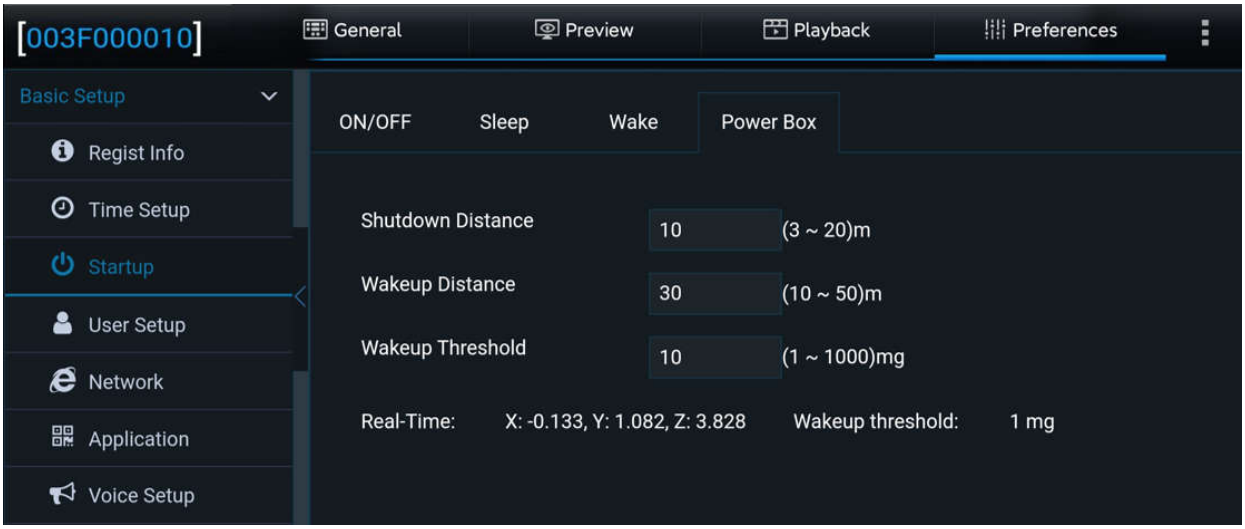
1. **IO Wake**: wakes up the MDVR by triggering the IO alarm.
2. **G-Sensor Wake**: wakes up the MDVR by shaking the device in the X, Y, or Z direction. The default waking thresholds for the X, Y, and Z axes are all 5.5 g;
3. **Remote Wake**: remotely wakes up the MDVR by sending commands. When the device is in sleep status, the platform sends commands to wake up the MDVR. Currently, remote wake is supported only through FT API, and only

the first N9M server is supported for remote wakeup;

4. **Telephone Wake/SMS Wake**: wakes up the MDVR by calling or sending SMS messages to the device. You need to set the mobile number to wake up the device in advance.

- Power Box

Choose **Preferences** > **Basic Setup** > **Time Setup** > **Power Box**. The displayed screen is as shown in the following figure:



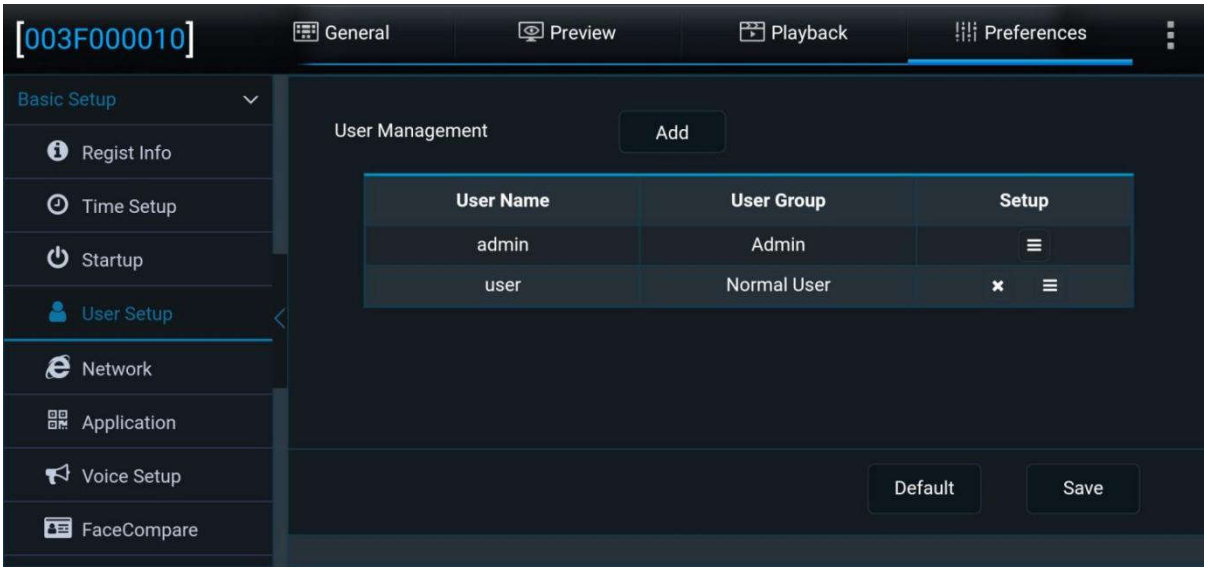
Set the shutdown and wake-up thresholds controlled by the power box

1. **Shutdown Distance**: When ACC is disabled and the vehicle movement distance is less than the configured threshold, the device is shut down. The threshold range is 3 to 20 m, and the default value is 10 m;
2. **Wakeup Distance**: This parameter is currently not used;
3. **Wakeup Threshold**: determines whether to wake up the MDVR according to the acceleration received by the built-in G-Sensor of the power box when the ACC detects that the movement in any axis exceeds the threshold. It can be set to 1–1000 mg, 10 mg by default.

The following displays the data on the 3 axes, and the currently detected wakeup value.

2.6.4. User Setup

Tap **Preferences** > **Basic Setup** > **User Setup**, as shown in the following figure:

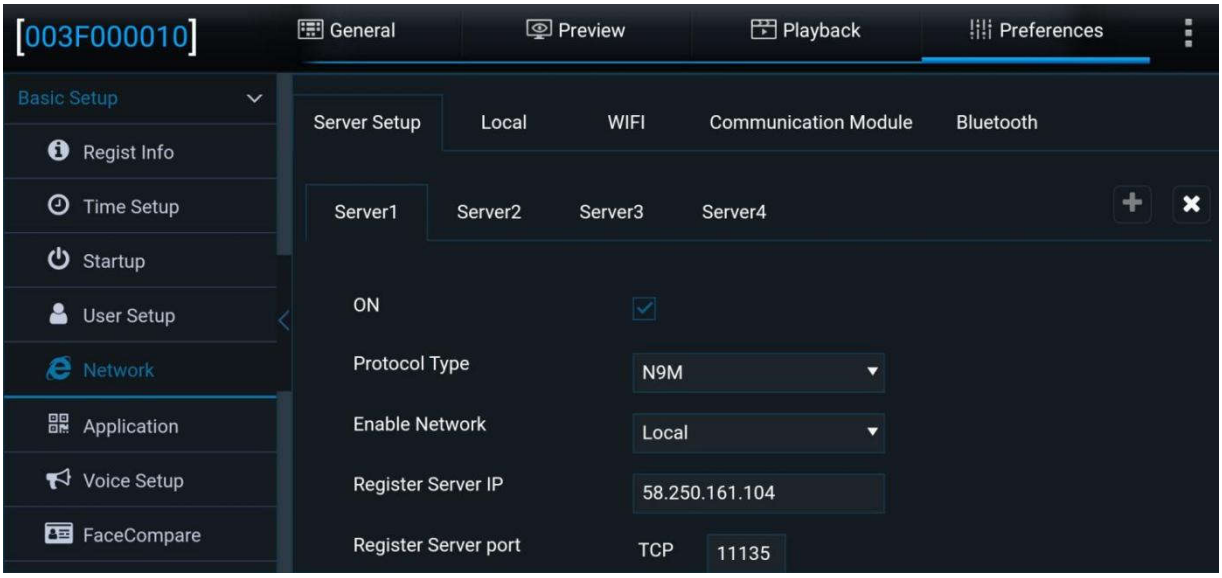


1. Tap **Add** to add a user.
2. Tap ☰ in the **Setup** column to set the password for the user login.
3. **admin** (**Admin**): The system has an administrator account by default. The administrator has the permission to add/delete common users and set parameters. It can add a maximum of two common users.
4. **user** (**Normal User**): only has the permission to query settings.

2.6.5. Network

- Server Setup

Tap **Preferences** > **Basic Setup** > **Network** > **Server Setup**, as shown in the following figure:



1. Tap ➕ on the right part of the screen to add a server; tap ✖ to delete a server on the screen, but **Server1** cannot be deleted.
2. **ON**: enables a server after being selected. A maximum of three servers can be enabled simultaneously. If it is deselected, the device will not report the server information yet with server parameters reserved.
3. **Protocol Type**: can be set to N9M or 808.

- **N9M**: indicates the protocol type for the device to report information to the video surveillance platform CEIBA2.
- **808**: indicates the protocol type for the device to report information to the 808 platform (not used for overseas trucks).

4. **Enable Network**: can be set to Local, WIFI, or Communication Module.
5. **Register Server IP**: specifies the IP address of the register server of the platform to which the device reports information.
6. **Register Server port**: specifies the corresponding device port through which the device reports information to the platform.
7. TLS encrypted port number: during the normal startup and operation of the device, the interactive data between the device and the platform is transmitted through TLS encryption, which can ensure the security of the interactive data between the device and the platform. Data interaction in dormant state is not encrypted. For the usage, you need to enable TLS and configure the encrypted port number. Currently, only TLS encryption for the CEIBA3 platform is supported.
8. Media Server IP: specifies the IP address of the media server of the platform to which the device reports information.
9. Media Server port: specifies the corresponding device port through which the device reports information to the platform.

   The registrar and media server have the same default IP address and port number.
10. It supports 4G SIM cards, which can provide mobile hotspots for mobile terminals such as mobile phones and pads for Wi-Fi network transmission.

    In order to prevent end users from using traffic beyond the control or forgetting the password, the dealer needs to control the account and password. However, it is impossible to set the device on site due to the site environment. In this case, you can send SMS messages to enable/disable hotspots or change the account password in the AP mode.

    The Wi-Fi module allows modifying parameter formats and contents by sending SMS messages, as shown in the following:

    Command keyword: WIFI

    Enable. **1**: Enable; **0**: Disable

    99admin,120223,WIFI0 -- None

    99admin,120223,WIFI1 -- Client

    99admin,120223,WIFI2 -- AP

    The command parameters have different formats and contents due to different parameters in different modes:

    1) AP mode:

       Command parameters: **Mode**, **Encryption Type**, **ESSID**, **Password**, and **Hotspot Enable**!

       Example:

       99admin,120223,WIFI2,WPA,streamax,streamax,1!

99admin,120223,WIFI2,WEP,streamax,streamax,1!

99admin,120223,WIFI2,NONE,streamax,1!

Client mode:

Command parameters: **Mode**, **Encryption Type**, **ESSID**, **Account**, **Password**, **Static Enable**, **Static IP Address**, **Subnet Mask**, and **Gateway**!

0 indicates that the static IP address is enabled and **1** indicates that the dynamic IP address is enabled.

Example:

99admin,120223,WIFI1,WEP,streamax,streamax,1!

99admin,120223,WIFI1,WPA/WPA2-PSK,streamax,streamax,1!

99admin,120223,WIFI1,WPA2.ENTERPRISE,streamax,streamax,streamax,1!

2) None mode:

Command parameter: **Mode**!

Example: 99admin, 120223, WIFI0!

10. It allows modifying server parameters by sending SMS messages. When the server address changes or is abnormal, the device will be disconnected from the server. All remote services of the vehicle are stopped. To avoid this situation, you can change the IP address and port number of the device server by sending SMS messages.

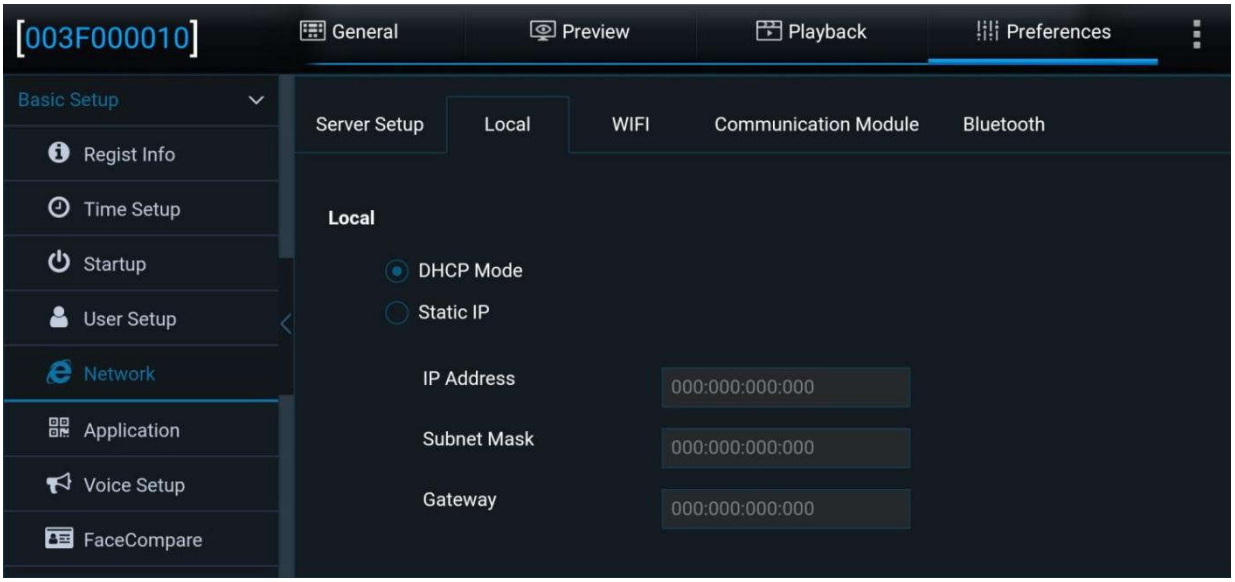
Command keyword:	SMCM
Command parameters:	Server Serial Number, Enable, N9M Register Server, N9M Media Server, N9M Register Server Port, N9M Media Server Port, Server Serial Number, Enable, N9M Register Server, N9M Media Server, N9M Register Server Port, N9M Media Server Port, Server Serial Number, Enable, N9M Register Server, N9M Media Server, N9M Register Server Port, and N9M Media Server Port
Remarks:	113.14.232.88 (IP address), 6605 (port number) Enable. 0: Disable; 1: Enable
Example:	

99admin,120223,SMCM1,1, 113.14.232.88, 113.14.232.88,6605,6606

(,1,1, 113.14.232.88, 113.14.232.88,6605,6606) (,1,1, 113.14.232.88, 113.14.232.88,6605,6606)

- Local

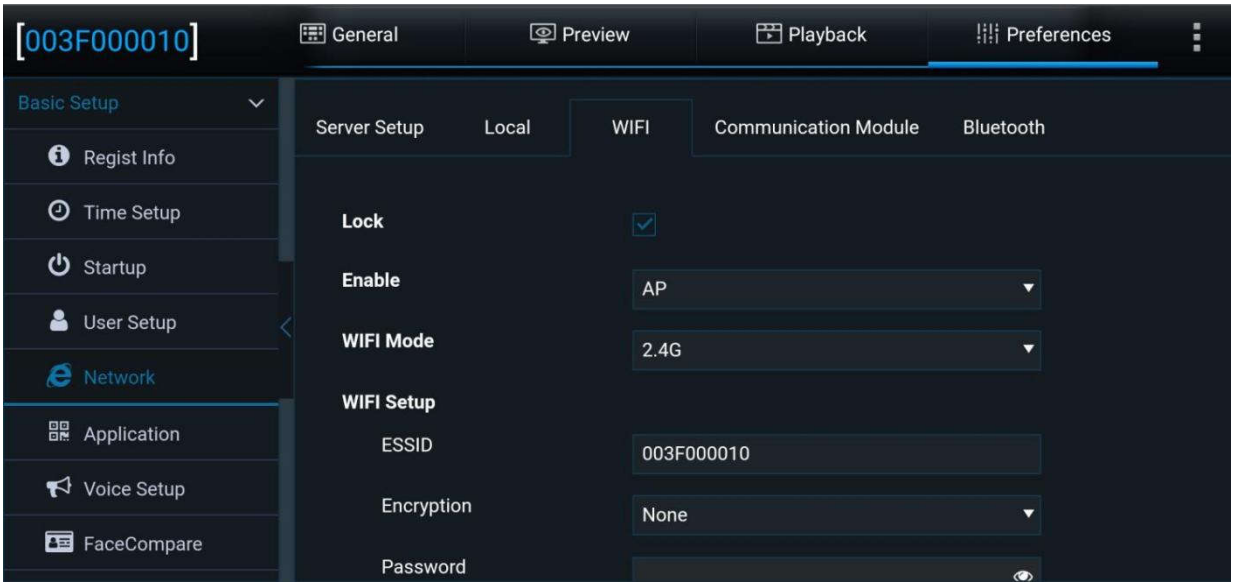
Tap **Preferences** > **Basic Setup** > **Network** > **Local**, as shown in the following figure:



1. **DHCP Mode**: indicates that the device automatically obtains the IP address. After it is selected, the network automatically allocates a dynamic IP address, and the DNS address can be dynamically or statically customized.
2. **Static IP**: indicates that the device uses the static IP address. If the preset static IP address is used, the DNS address must be specified statically.
3. **Direct Port**: Set to 80 by default. This port will be used for IE access.

WIFI

Tap **Preferences** > **Basic Setup** > **Network** > **WIFI**, as shown in the following figure:



1. **Lock**: enables/disables the modification of Wi-Fi hotspot parameters. After it is selected, the relevant parameters of the Wi-Fi hotspot will not be modified.
2. **Enable**: specifies the Wi-Fi connection mode and can be set to **AP**, **Client** or **Disable**.
   - AP: In this mode, the Wi-Fi name is automatically associated with the vehicle license plate number. You can cannot change it or set a password for it on this screen. Moreover, the device maintains the hotspot status during and after the startup. (If the AD Plus2.0 has the AP mode switch

button, the button is disabled.)

- **Client**: In this mode, the device can automatically search for a valid Wi-Fi hotspot nearby for connection. After the successful connection, the device can automatically connect to this hotspot after rebooting or re-entering this area. By default, the AP mode is used upon the startup. If the device is not connected with the EasyCheck app within 3 minutes, it will automatically switch to the client mode. The device can be switched to the AP mode when you push the button twice. After the switch, if the device fails to connect to the EasyCheck App within 3 minutes, the device will automatically switch to the client mode.
- **Disable**: In this mode, the Wi-Fi network is not enabled and the client mode fails. The device uses the AP mode within 3 minutes after the startup by default. (If the AD Plus2.0 is equipped with the AP mode switch button, you can switch the device to the AP mode with the button. After the switch, if the device fails to connect to the EasyCheck app within 3 minutes, the device will exit from the AP mode and the module will enter the sleep mode.)

3. **WIFI Mode**: specifies Wi-Fi frequency bands and can be set to 2.4G, 5G or Adaptive.
4. **ESSID**: In AP mode, the entered value is the hotspot name when the hotspot function of the device is turned on, and the Wi-Fi name when a mobile device connects the device (no longer a serial number. After the connection, the EasyCheck App can be accessed, and it can access the Internet as a mobile terminal when the hotspot is enabled); In client mode, the entered value is the Wi-Fi name when the device connects an external Wi-Fi.
5. **Encryption Mode**: In AP mode, the encryption mode can be None/WEB/WPA; In client mode, the encryption mode can be None, WEP, WPA/WPA2-PSK, and WPA2.ENTERPRISE.
6. **Password**: In AP mode, the password is used for other mobile devices to access Streamax MDVR. The correct password is required to connect the Wi-Fi network (No password is required if the name and password are not configured. In this case, tap the serial number or license plate number to connect). In client mode, the password is used for connecting external Wi-Fi networks.

- Communication Module

Tap **Preferences** > **Basic Setup** > **Network** > **Communication Module**, as shown in the following figure: