MEITRACK MDVR
Operation and Function Manual

Change History

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2 Fast Installing and Using the MDVR

Perform the following nine steps to fast install and use the MDVR:

1) Loosen the screws and insert the key to open the SD card lock (or disk lock).
2) Insert the SIM card into the SIM card slot. (MD511H/MD811H MDVR: You will see the card slot after pulling out the disk enclosure.)
3) Install two SD cards as required. (MD511H/MD811H MDVR: Install a disk, and then install an SD card.)
4) Connect four cameras, the display, handset, GSM antenna, WiFi antenna and GPS antenna.
5) Connect the power cable (including the VCC, GND and ACC cables) to the external power supply. (The ACC cable must be connected to the positive terminal of the external power supply. Otherwise, the MDVR cannot be started.)
6) Set the IP address and port of the platform.
7) Set the data transmission network.
8) Set the login user name and password.
9) After logging in to the platform, you can implement video surveillance, search videos, and make a call.

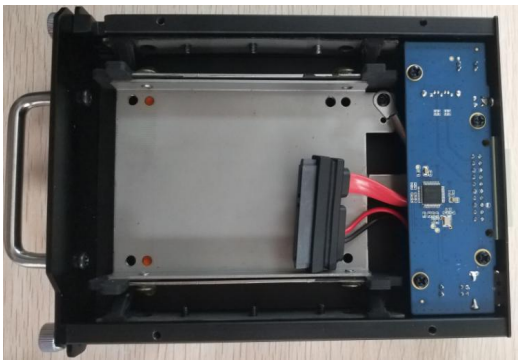
2.1 Installing the MDVR

(1) Loosen the screws and insert the key to open the SD card lock (or disk lock).

MD511S MDVR (SD card version) operations:

MD511H/MD811H MDVR (Disk version) operations:

Open the disk cover by using a screwdriver, and then install a disk.



After installing the disk, you need to push the disk up with your fingers, turn the disk enclosure over, and tighten the screws firmly.

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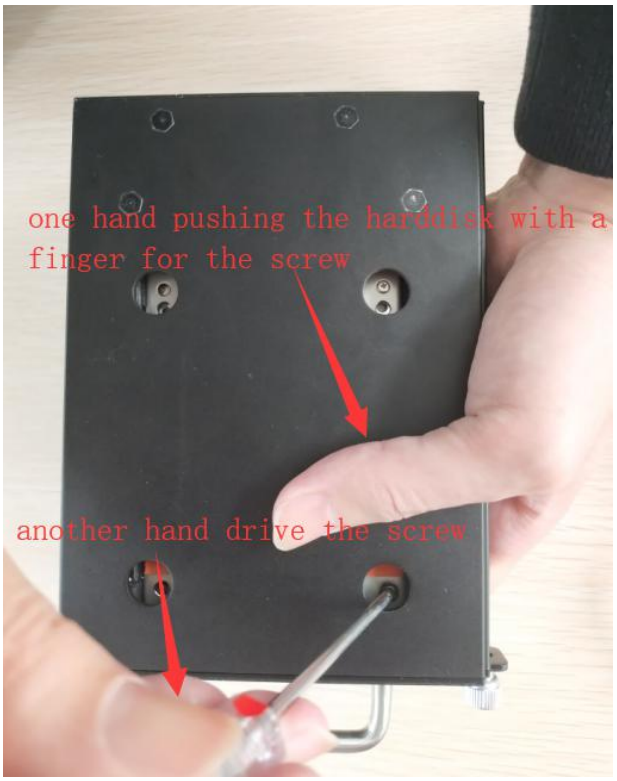

Tighten the eight screws on both sides of the disk enclosure, and install the disk enclosure.

(2) MD511S MDVR: Install a SIM card and two SD cards, and then lock SD cards. (**Note: You must lock the card cover by the key after closing it. Otherwise, the recording function fails to be started.**)

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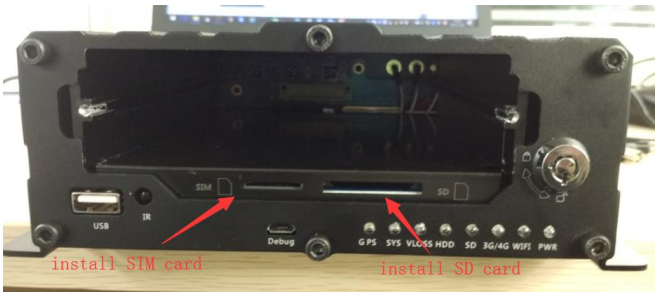
MD511H/MD811H MDVR: Install a SIM card and a SD card, and then lock the disk. (**Note: You must use the key to lock the disk after putting the disk back. Otherwise, the MDVR cannot be started.**)

MD511S MDVR (SD card version):

MD511H/MD811H MDVR (Disk version):



(3) Connect four cameras(8 cameras for MD811H), the display, handset, GPS antenna, GSM antenna, WiFi antenna, and power cable.

Plug the power cable in the PWR interface.

Plug the four cameras in the AV-IN1, AV-IN2, AV-IN3, and AV-IN4 interfaces.

Plug the display in the AV-OUT interface.

Plug the handset in the MIC&SPK interface.

Connect the WiFi antenna, GPS antenna, and 3G/4G antenna to the MDVR. (If the WiFi antenna is not connected, the WiFi function will be unavailable.)

(4) MD511S MDVR: Supply power to the MDVR and connect the external power supply to the ACC cable. (**Note: To enable the recording function, ensure that the ACC cable is connected to the positive terminal of the power supply and SD cards are locked.**)

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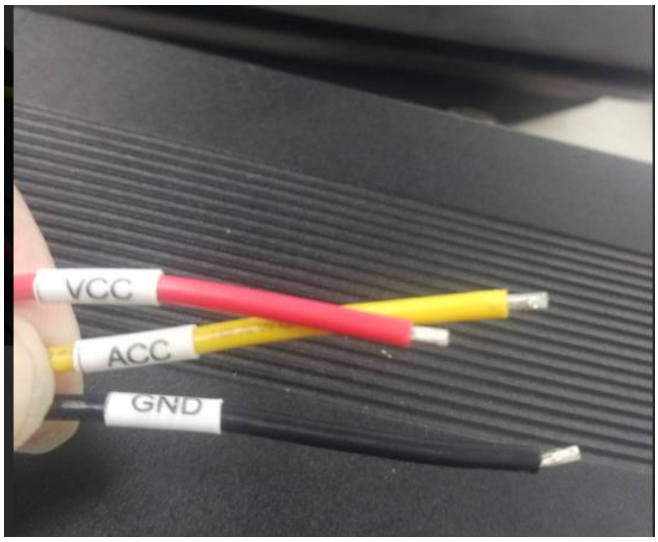
MD511H/MD811H MDVR: Supply power to the MDVR and connect the external power supply to the ACC cable. (**Note: To enable the recording function, ensure that the ACC cable is connected to the positive terminal of the power supply and the disk is locked.**)



(5) After the external power supply is connected, the initialized MDVR will automatically record videos, and the display will be turned on automatically and play live videos.

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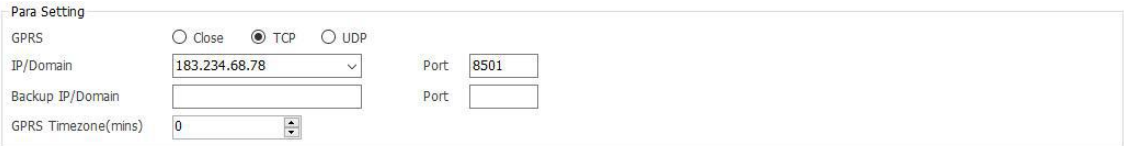
2.2 Configuring the MDVR

After the MDVR is installed, connect it to a network and server. You can configure the MDVR by using any of the following methods: Meitrack Manager software, SMS, and platform. In this section, I will show you how to use the Meitrack Manager software to fast configure the MDVR.

You need to install Meitrack Manager first. (Visit www.meitrack.com to download the software). After the installation is completed, connect the USB cable to a computer, and then perform the following steps to configure the MDVR.

(1) Set the IP address and port for uploading positioning data, IP address and port for uploading video data, and the user name and password of the FTP server:



SMS configuration:

Send the following command to set the IP address and port for uploading positioning data: 0000,A21,1,183.234.68.78,8501,APN(for example, internet),APN_USER,APN_PASSWORD.

(2) Set the IP address of the FTP server. Video data will be uploaded to the specified FTP server.

(3) Set the network.

There are three network connections: mobile network (3G/4G), WiFi, and Ethernet. Ethernet is the best choice, WiFi is the second choice, and a mobile network is the last choice. It means that if the MDVR is connected to Ethernet, the WiFi and mobile network will be disabled.

WiFi configuration:

As shown in the following figure, enter the WiFi SSID and password and click **Set**. The WiFi network connection is set successfully. You can click **Refresh** to search the WiFi list nearby.

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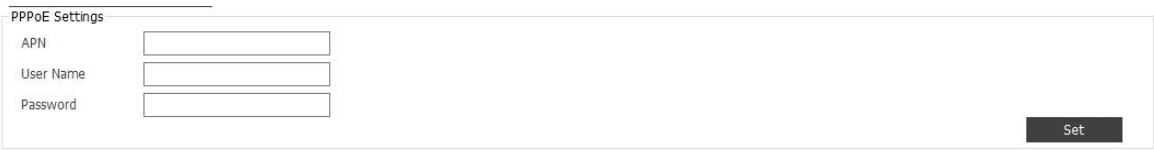
Ethernet configuration:

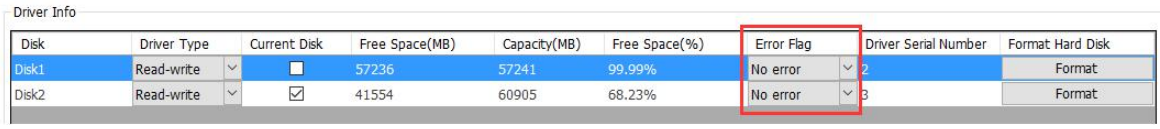
Enter the IP address, subnet mask, gateway, active DNS server and standby DNS server.

Mobile network configuration:

Enter the APN, APN user name and APN password, and click **Set** to save the settings.



(4) Check whether SD cards are installed properly. When you use the MDVR for the first time, if the system detects format errors, SD cards will be initialized automatically. If "no error" is displayed as follows, it means that SD cards are initialized successfully.



2.3 Logging In to the Platform

Visit https://mdvr.trackingmate.com/, enter the user name and password, and log in to the platform.

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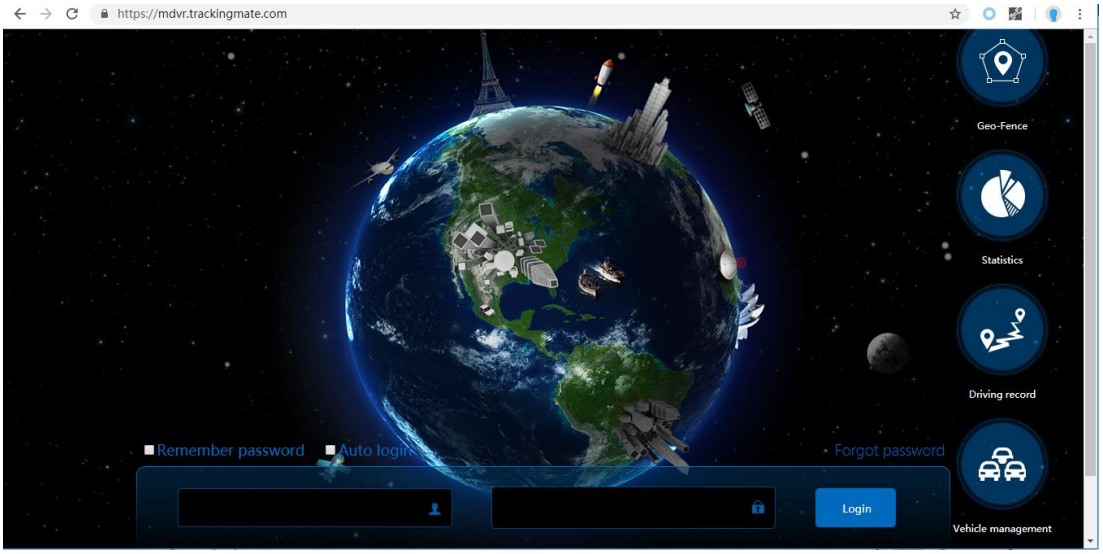
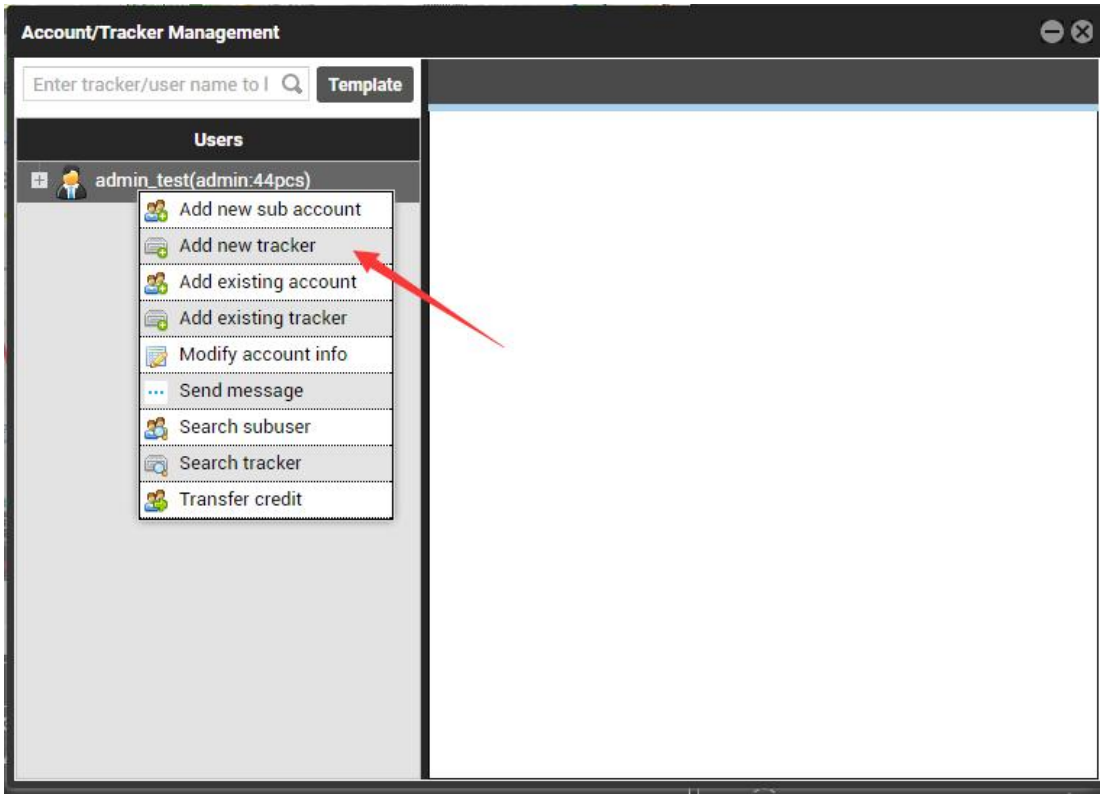


Add a MDVR:

1. On the main interface, choose **Management**. On the page that is displayed, select **Account & Tracker** from **Use Normal**.
2. On the **Account/Tracker Management** window, right-click a user, and select **Add new tracker**.
3. On the **Add new tracker** window, enter related information, modify the expiry date, and click **Submit**.

Note: The IMEI number must be consistent with that printed on the MDVR. Otherwise, the MDVR cannot be detected by the system.



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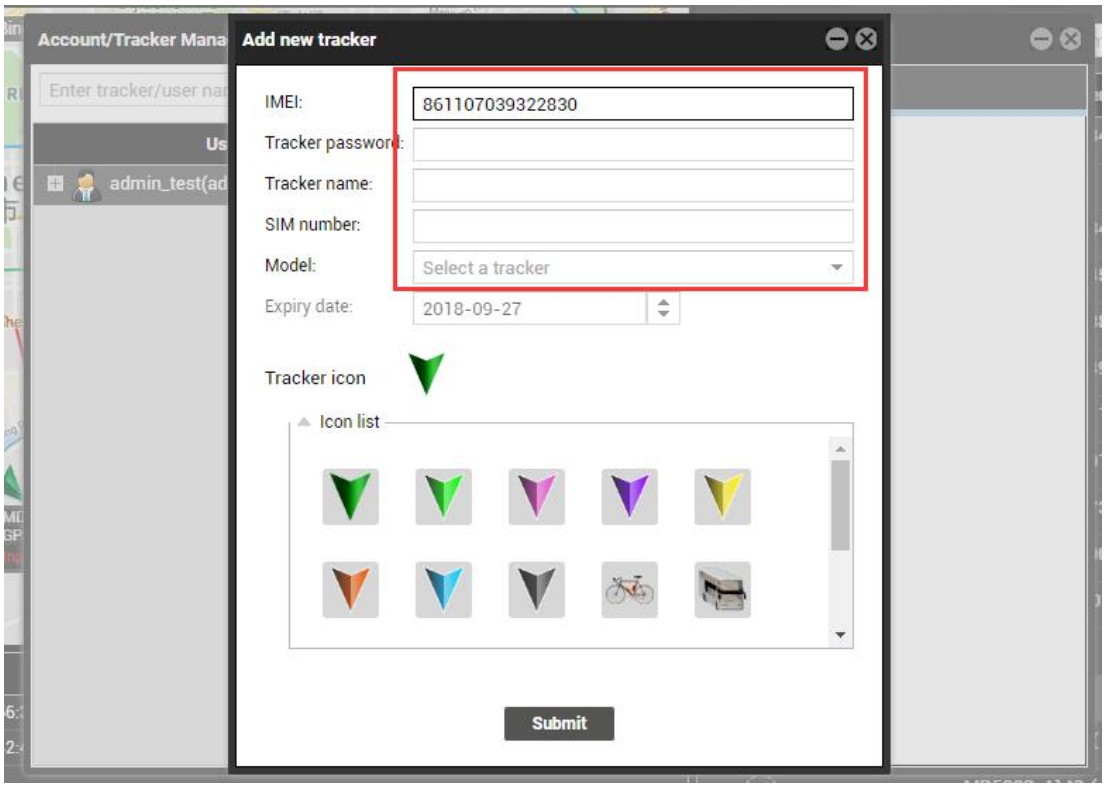
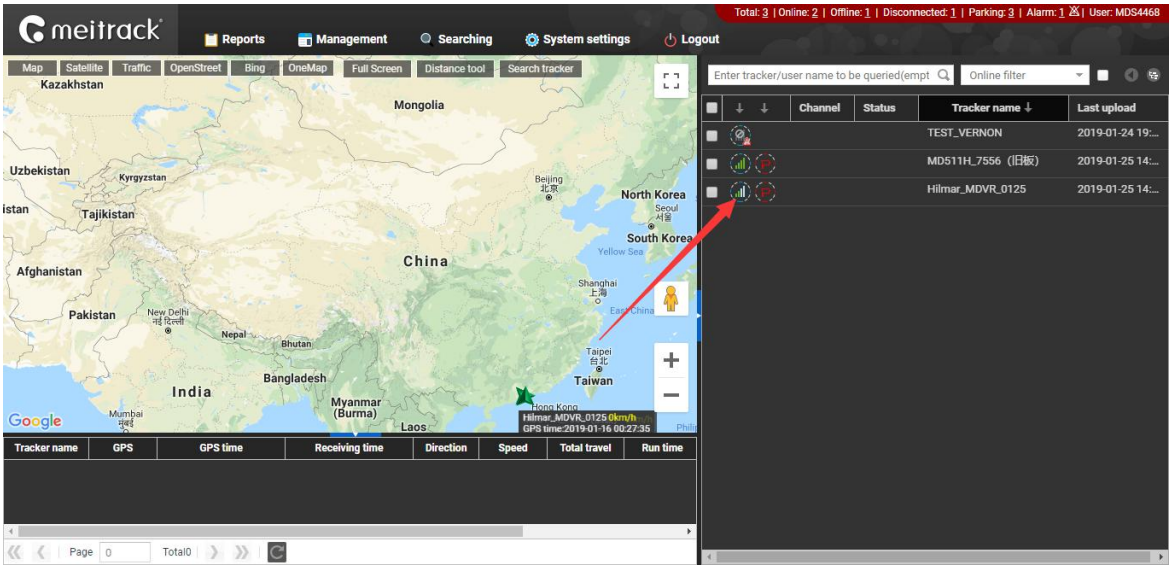


Check whether the MDVR is online:

If the green signal icon is displayed, it means that the MDVR is online.



Video surveillance:

Right-click a MDVR and select **Video Monitor** to start four-channel surveillance.

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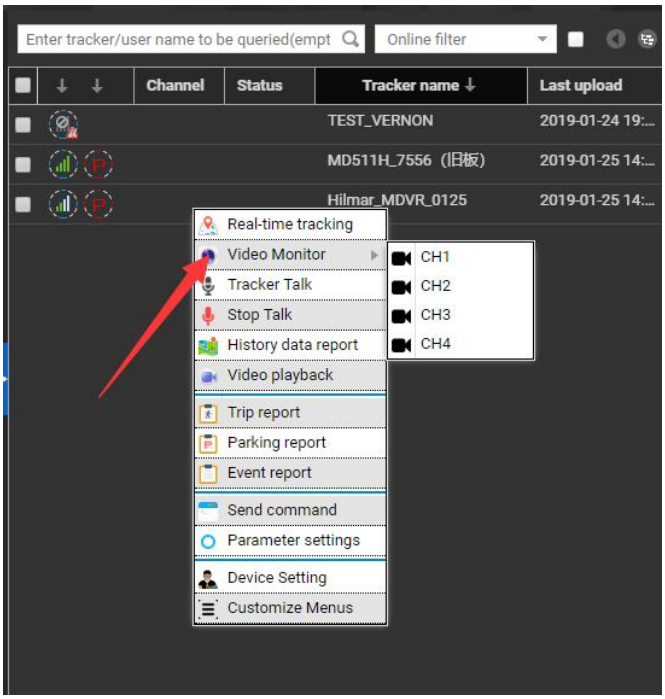

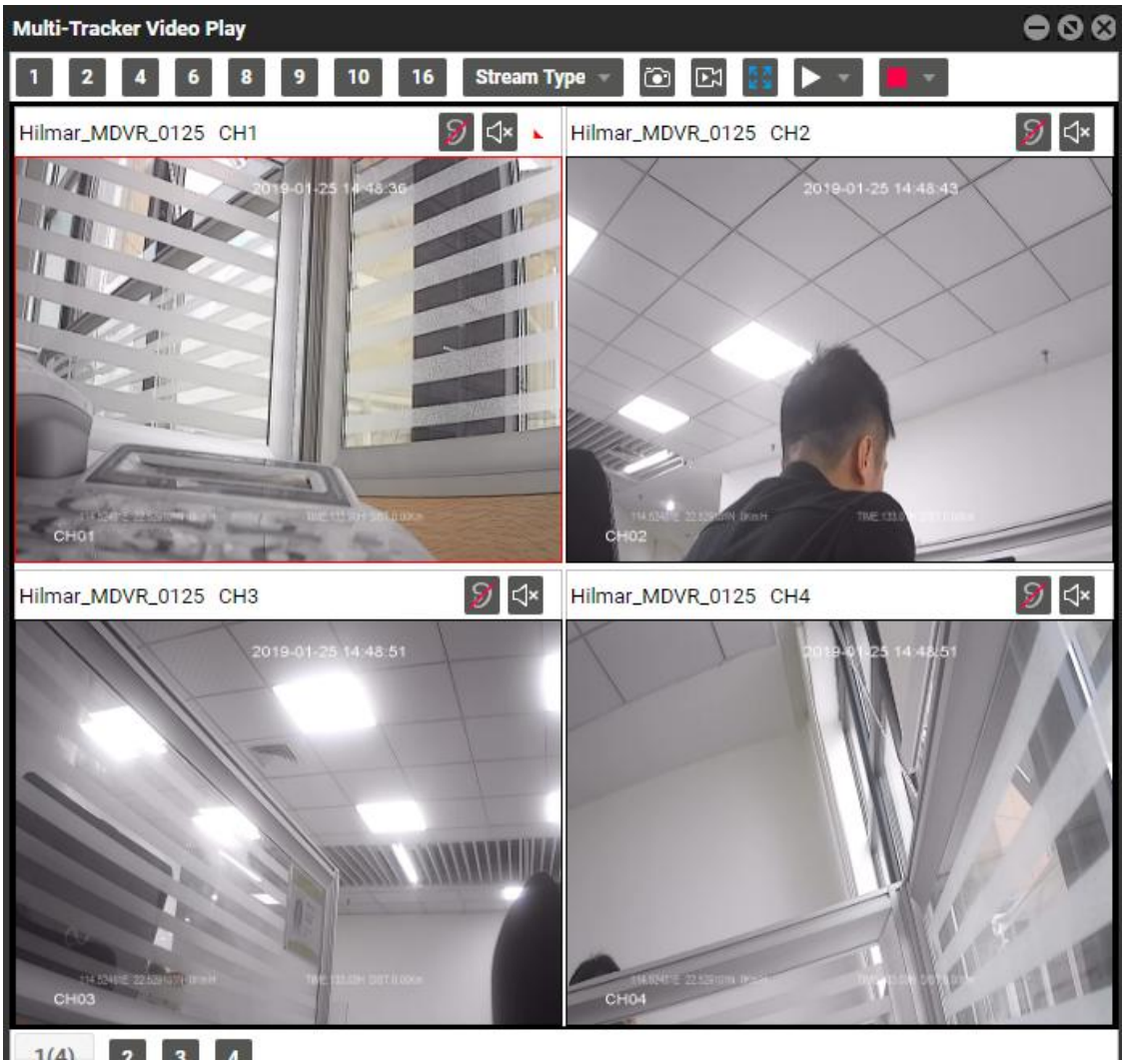

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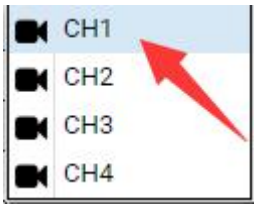
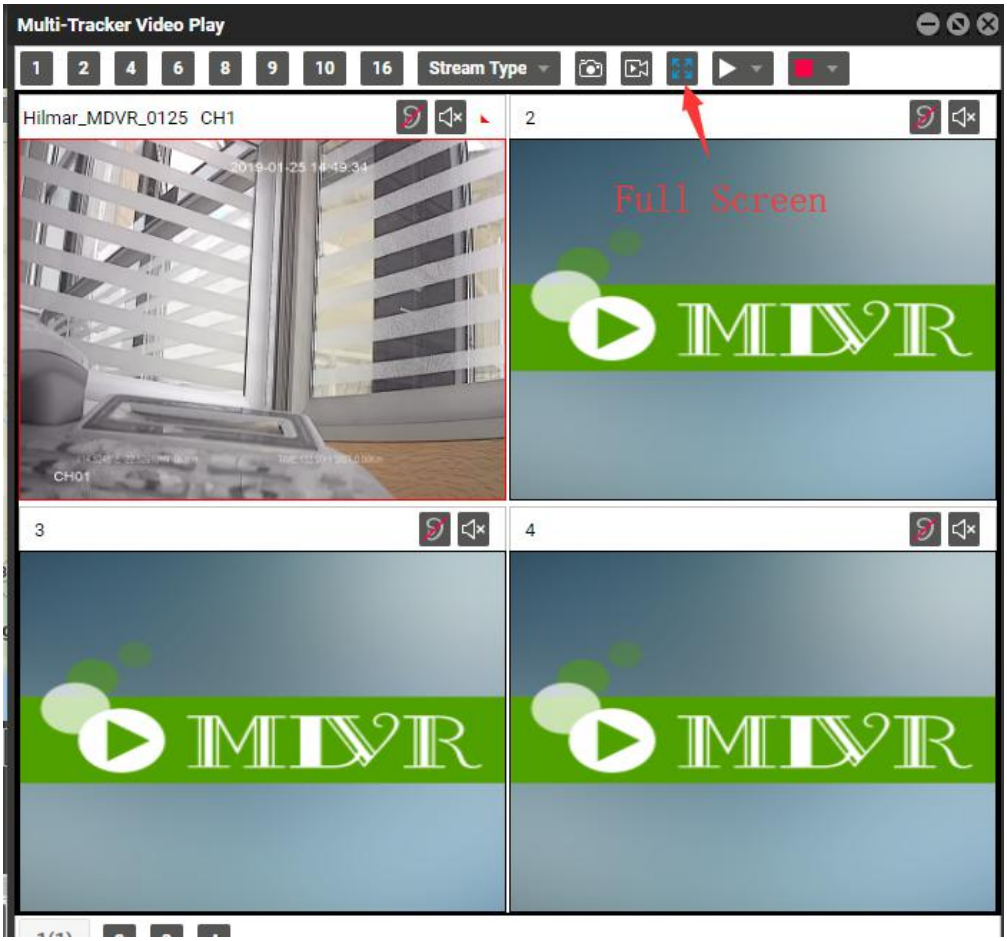
If you select a single channel, such as CH1, videos in this channel will be played.





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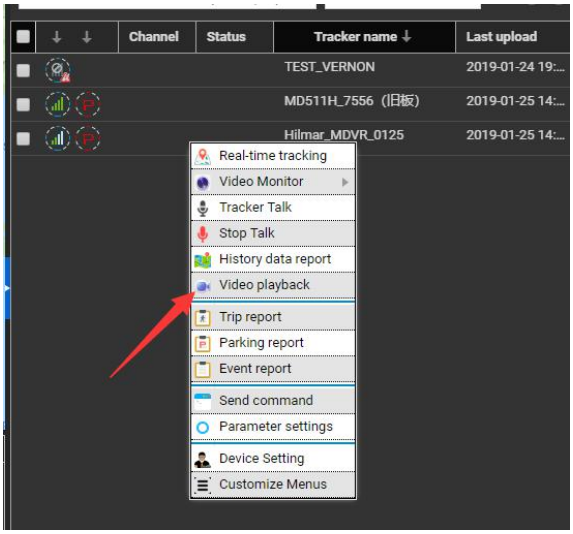
Video playback and search:

Right-click a MDVR and select **Video playback**. On the page that is displayed, set **Start time**, **End time** and **Channel**, and click **Search**. The video playback will start.



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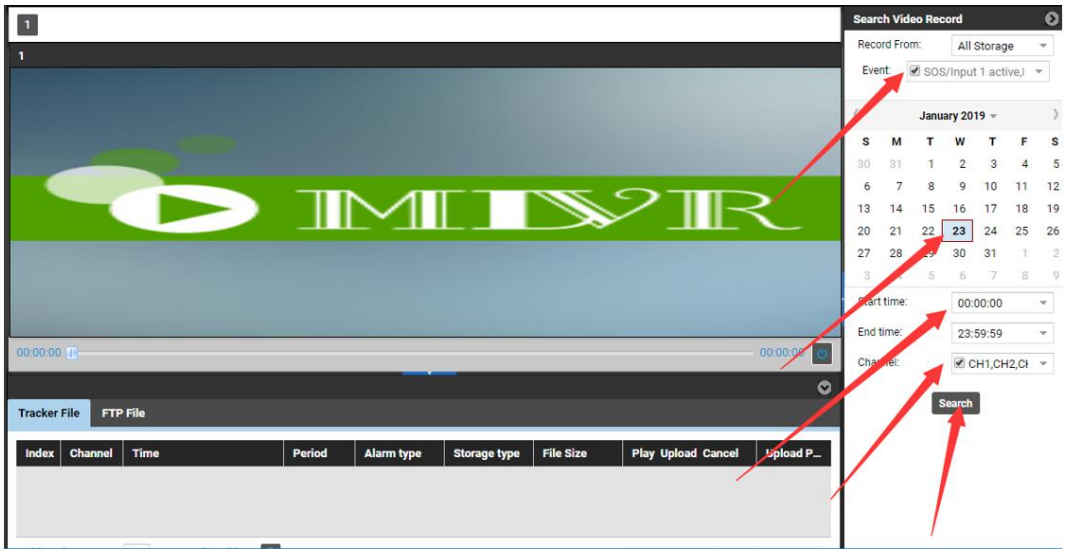

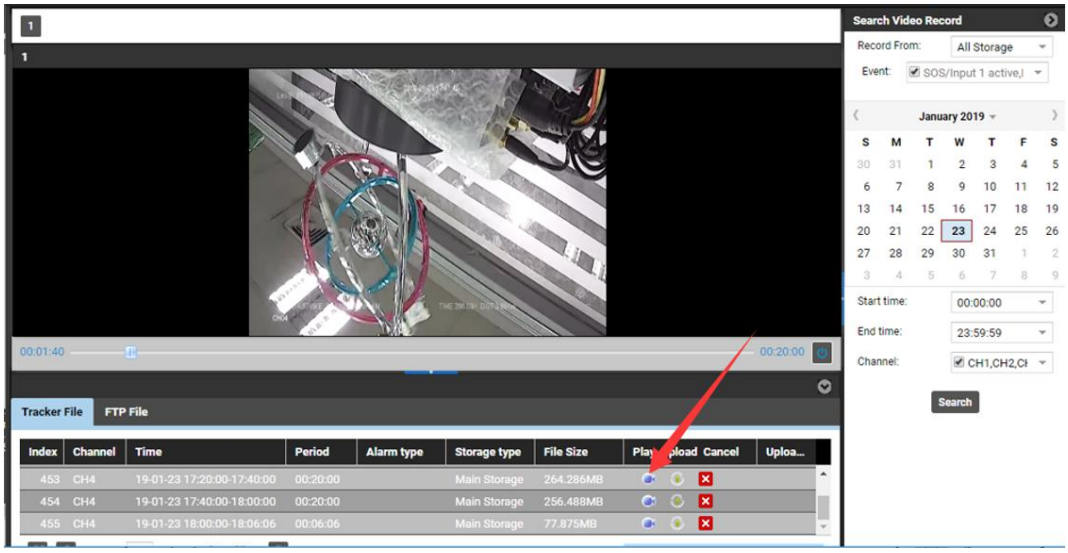

As shown in the previous figure, the icon in the **Play** column is used to play the current video, and the icon in the **Upload**

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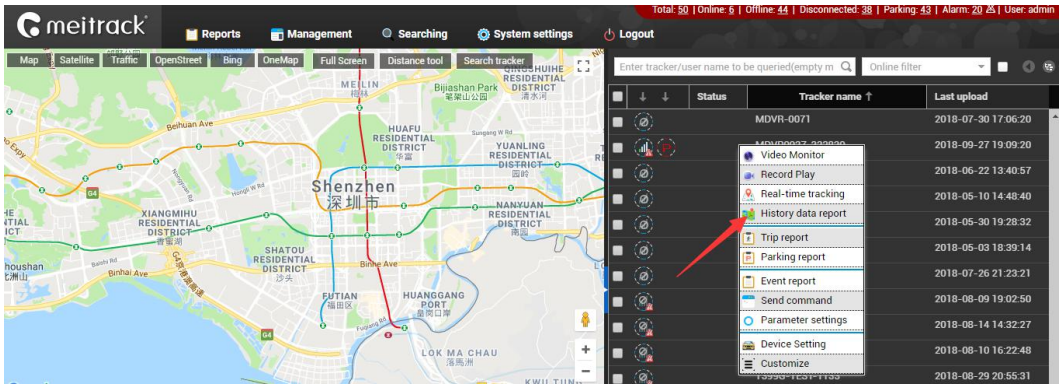
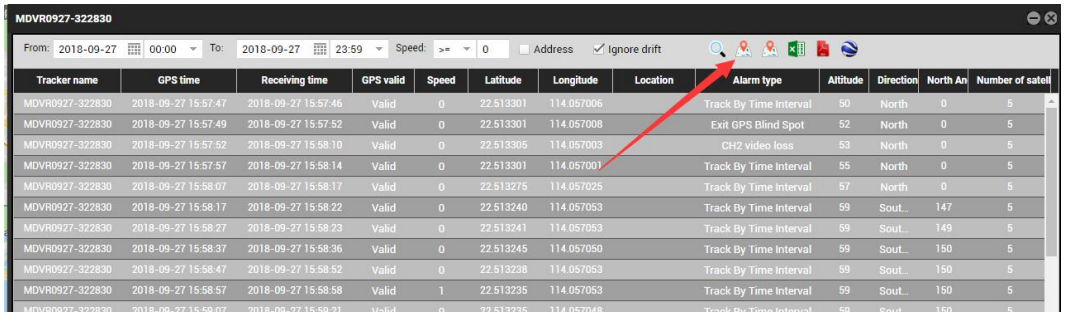
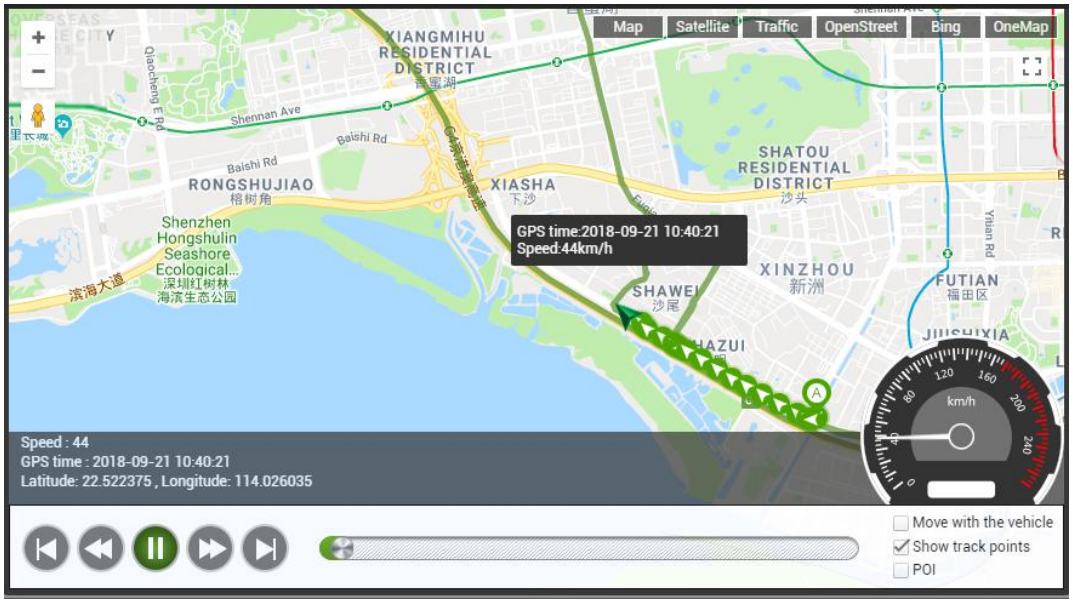
column is used to play the video and upload it to the FTP server.

Query historical positioning data:

Right-click a MDVR and select **History data report**. On the page that is displayed, click the map icon . The device's trips will be displayed.







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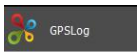
3 Device Parameter Settings and Querying

3.1 Basic Settings

3.1.1 Setting Flash Data

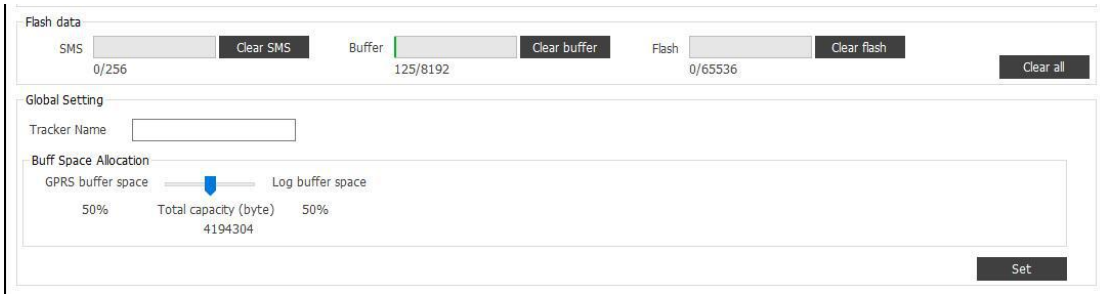
SMS flash data: When the device cannot connect to a mobile network, SMS messages will not be sent out and will be stored in the flash memory of the device. When the network recovers, the device will send these messages again. At most 256 pieces of data is allowed to be stored. If there have been 256 pieces of data in the memory, original flash data will be replaced with new flash data. Flash data will be sent in a time ascending order. If you want to clear SMS flash data manually, click **Clear SMS** on Meitrack Manager software, or send the SMS command **0000,F09,1**.

GPRS flash data: When the device cannot connect to a network, GPRS messages will not be sent out and will be stored in the flash memory of the device. When the network recovers, the device will send these messages again. At most 16,384 pieces of data is allowed to be stored. If there have been 16,384 pieces of data in the memory, original flash data will be replaced with new flash data. Flash data will be sent in a time ascending order. If you want to clear GPRS flash data manually, click **Clear buffer** on Meitrack Manager software, or send the SMS command **0000,F09,2**.

GPS log data: indicates positioning data that is stored in the memory of the device and that cannot be sent out. This data can only be read by a computer. After connecting the device to a computer by the USB cable and starting the Meitrack Manager software, press CTRL+ALT+L. The icon 

will be showed on the left list of the software. Click the icon to read the GPS log data.

Buffer space allocation: Users can allocate the storage space of flash data as required. It depends on the desired amount of GRPS flash data or GPS log data.



3.1.2 Setting the Local Time Zone

As shown in the previous figure, the local time zone indicates the time characters shown among camera OSD characters or among SMS alert texts. If the current time of the GMT 0 time zone is 12:00:00, set the local time zone to 480 minutes. Therefore, the OSD time shown on a camera is 20:00:00.

3.1.3 Formatting the Drive

After the SD card is installed, it will be formatted. (If the SD card is used for other purposes, do not install it on the MDVR). When "no error" is displayed as follows, it means that the SD card is initialized successfully and you can start to store recording

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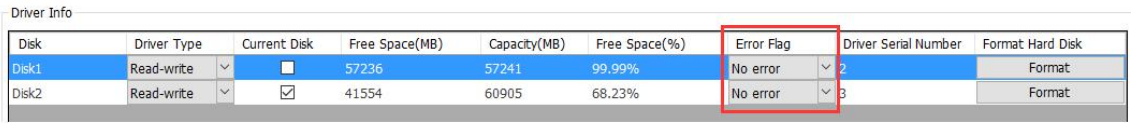
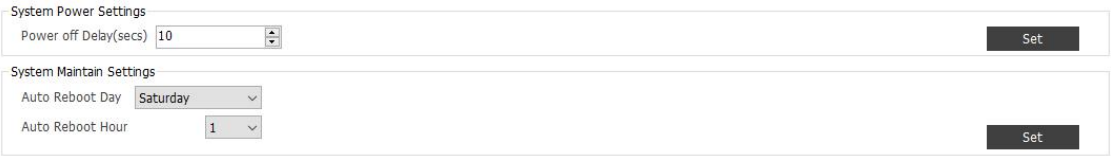
data. (If the disk is not installed properly, a disk error alert will be sent automatically.) If you want to clear all recording data, click **Format**.



3.1.4 Setting Auto Reboot

If the Linux system of the device runs for a long time, the device will start to lag due to a shortage of memory. In this way, you can restart the device to release the memory, which helps the device work more efficiently.

Set timing auto reboot on Meitrack Manager software, as shown in the following figure.



3.2 Tracking Settings

3.2.1 Setting Intervals of Uploading and Recording Positioning Data

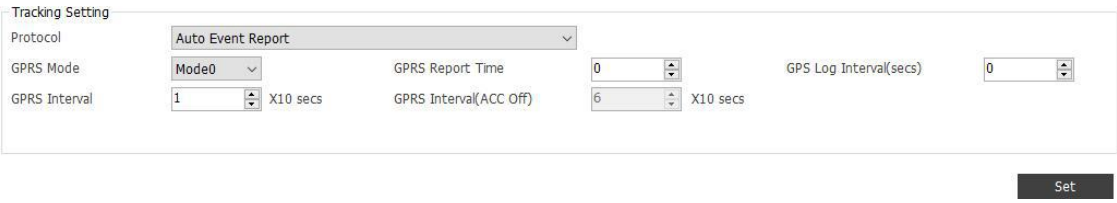
The minimum interval of recording GPS positioning data is 1 second, while the minimum interval of uploading these data is 10 seconds. Once the device enters the sleep mode, GPS positioning data will be uploaded at the interval of uploading heartbeat packets. (Set the interval of uploading heartbeat packets on Meitrack Manager software.)

GPS log interval: indicates the interval of recording GPS log data. When the interval is 0, the function will be disabled.

The device supports the following two modes:

Mode 0: The interval that the device uploads GPRS data is fixed.

Mode 1: When the ACC is on or off, positioning data will be uploaded at different intervals.

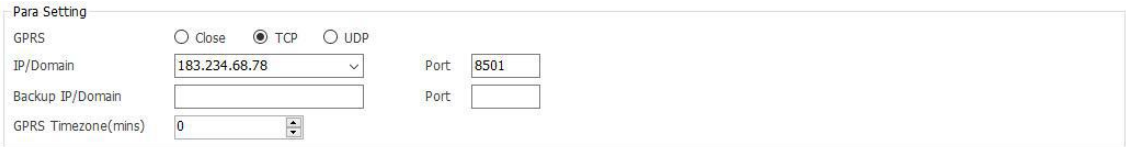


3.2.2 Setting the Platform Server and Positioning Data Uploading Mode

If you want to upload positioning data, select **TCP**. Otherwise, positioning data will not be uploaded.

Standby server: When the device fails to be connected to the active server, it will try to connect the standby server. **<u>You are advised to leave this option blank if you have no special needs.</u>**

GPRS time zone: By default, the time of uploading positioning data is based on GMT 0 (London time). You can set the GPRS time zone as required, as shown in the following figure.



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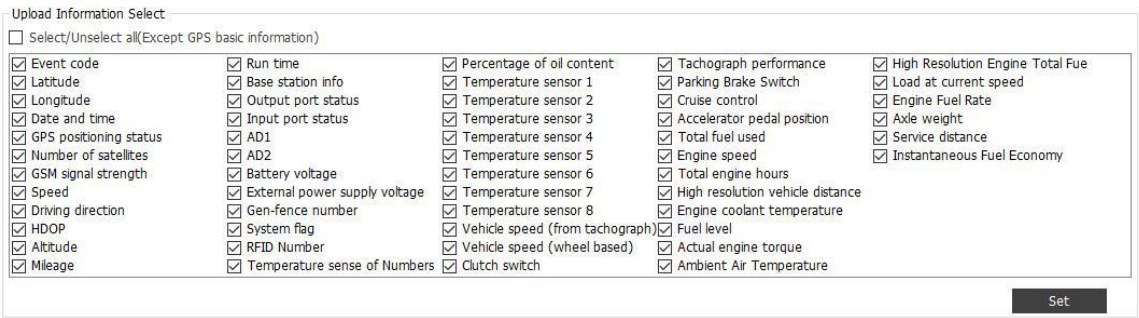
3.2.3 Selecting Uploaded Data

Besides basic GPS information, you can select any of the following data to upload. This will help save data usage.



3.2.4 Setting SMS Related Information

SMS password: When you send an SMS command, the SMS password is required. Otherwise, the command will not take effect. If you want to query device's location in real time, send **0000,A00**.

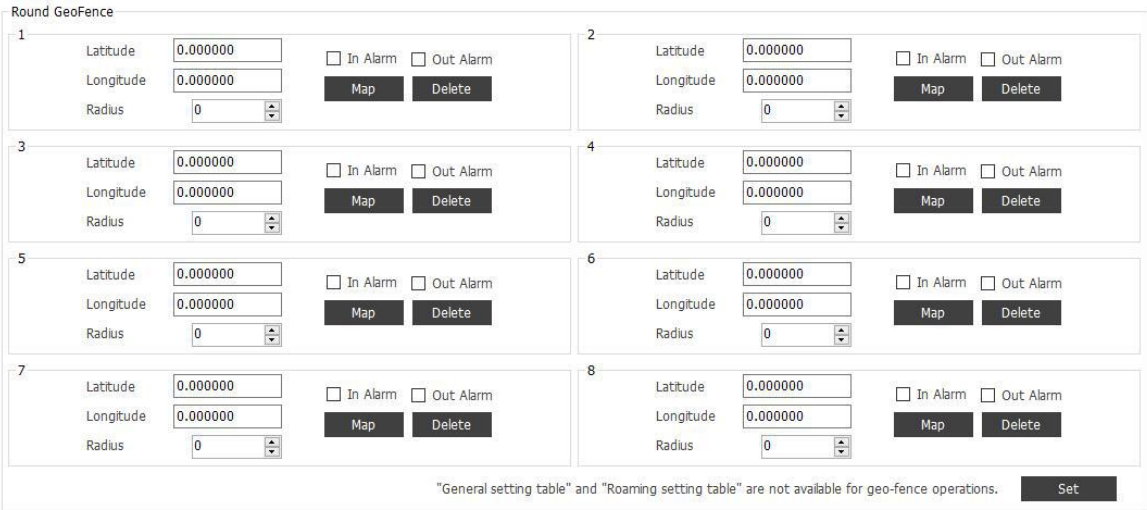
Auto report times, SMS track No., SMS report interval: The device can send an SMS message with positioning data at a specified interval to a mobile phone. When the number of SMS reporting times reaches the preset value, SMS reporting will stop.

3.3 Geo-Fence Settings

A geo-fence can be set by Meitrack Manager software, an SMS command or a GPRS command.

Enter Geo-fence alert: When the device enters a geo-fence, an alert will be sent.

Exit Geo-fence alert: When the device exits a geo-fence, an alert will be sent.



3.4 Alert Event Settings

The device supports about 100 types of alerts. (For details, see the *Meitrack SMS Protocol*.) You can set SMS notification, GPRS

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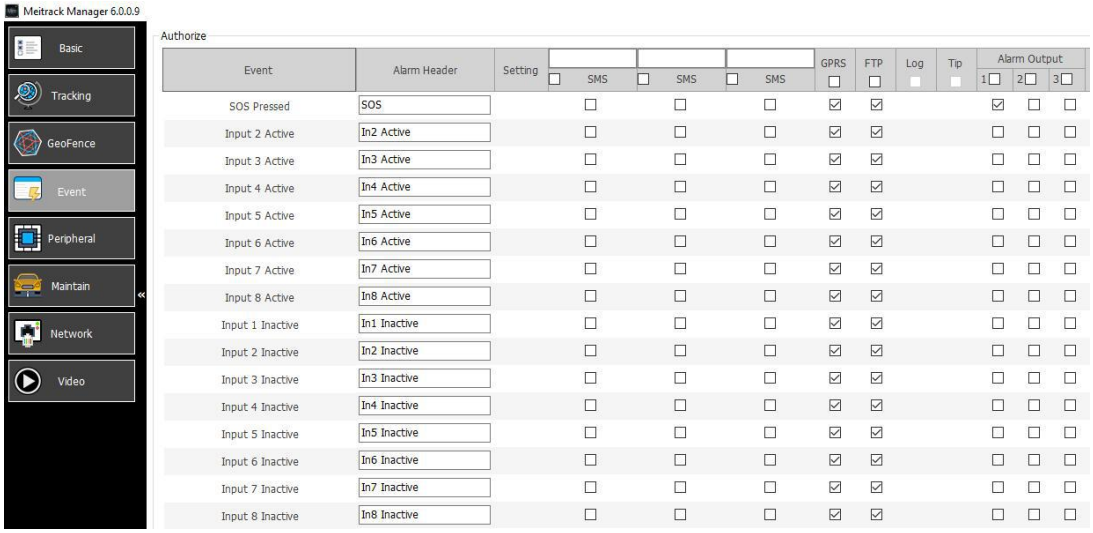
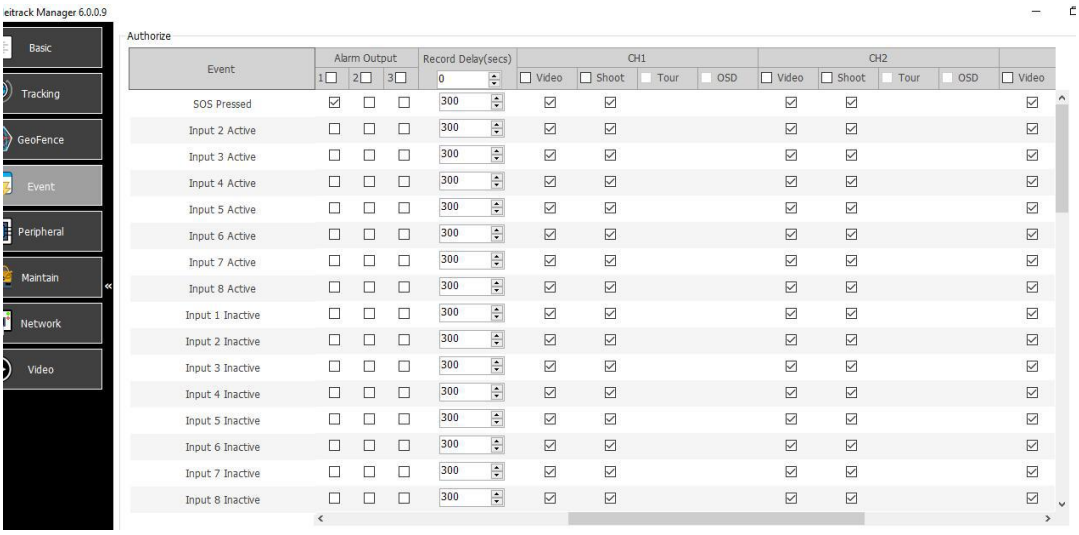
notification, output port triggering (cut off the engine or trigger the buzzer) and functions of taking photos and recording videos for each type of alert.

SMS: You can set an authorized phone number on Meitrack Manager. When an alert is triggered, an SMS message will be sent to the phone number. You can also set an authorized phone number by the A71 command, for example, **0000,A71,1581111111,1582222222,1583333333**.

FTP: Select or deselect this option to determine whether videos are uploaded to the platform server after an alert is triggered.

Output: The device has three output ports. Select or deselect this option to determine whether the buzzer is triggered, the LED indicator is on, or the engine is cut off after an alert is triggered.





3.5 Peripheral Settings

3.5.1 Setting Output Ports

Trigger mode: Select the low level output (0 V) or open drain output (reserved).

Trigger time: indicates the output time of output ports. If the time is 0, it means continuous output.

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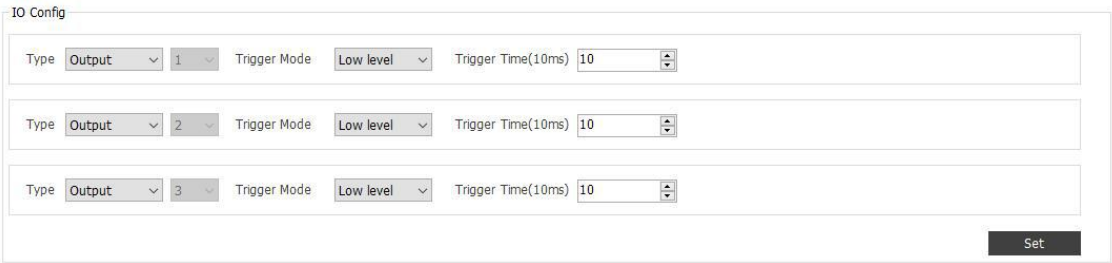


3.5.2 Setting a Fuel Level Sensor

Fuel sensor type: There are four types of fuel level sensors: capacitive fuel level sensor, resistive fuel level sensor, voltage-type fuel level sensor and ultrasonic fuel level sensor. If the sensor is an A53 or A54 fuel level sensor, select **Voltage-type** on the interface.

Oil Change Time Range (min): Parameter value **3** is recommended.

Oil Change Value (%): Parameter value **2** is recommended.

High Oil Alarm Value (%): Parameter value **90** is recommended.

Low Oil Alarm Value (%): Parameter value to **20** is recommended.

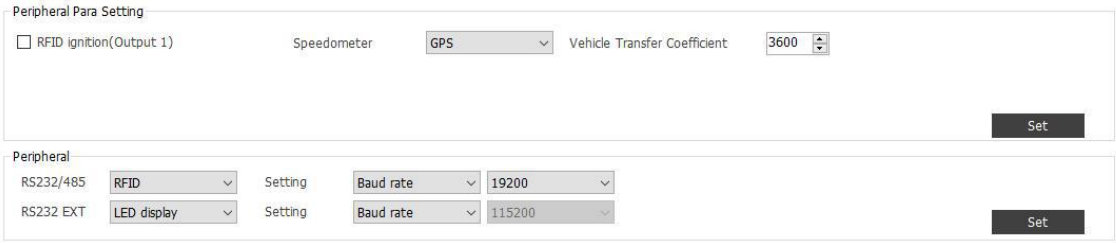
3.5.3 Setting Peripheral Parameters

RFID ignition (Output 1): The engine will start after you select this option and swipe authorized RFID card. When the ACC is off for one consecutive minute, the RFID card needs to be authorized again to start the engine. (The option will take effect after you select **Output 1** of the **RFID** row on the **Event** tab page of Meitrack Manager.)

Speedometer: Set the parameter to determine whether the GPS speed or RPM speed is used. If the RPM speed is used, it needs to be calibrated.

RX232/485: Only the RFID reader can be connected.

RX232/EXT: The LED display, ultrasonic fuel level sensor and RFID reader can be connected.



3.6 Vehicle Maintenance Settings

Maintenance warnings can be sent based on the driving mileage and maintenance cycle.

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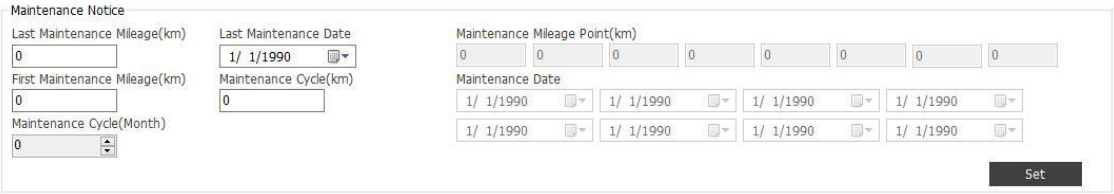

3.7 Network Settings

3.7.1 Setting the FTP Server

You need to set the GPRS server (TCP/UDP protocol transmission) and FTP server (FTP protocol transmission; used to store large videos) for the MDVR.

User Name and Password: Before uploading videos to the FTP server, you need to enter the user name and password to log in to the server. If you do not enter the user name or password, the login fails. In this way, you cannot use the FTP server to upload videos.

Remote Directory: indicates the name of the file that stores video data. For example, **861107039322830**, indicating that video data is stored in the FTP server's file folder whose name is **861107039322830**.

Maximum File Size (MB): Parameter value **1024** is recommended.

3.7.2 Setting Networks

PPPoE Settings: To connect the GPRS network, you must enter a correct APN. If there is a user name and password, enter these information. If not, leave the two parameters blank.

Ethernet Settings: The DHCP is not enabled for the MDVR, so you have to enter a fixed IP address and related information.

Wi-Fi Settings: At present, the MDVR's WiFi only support the Station mode. Select a WiFi hotspot nearby according to your preferences.

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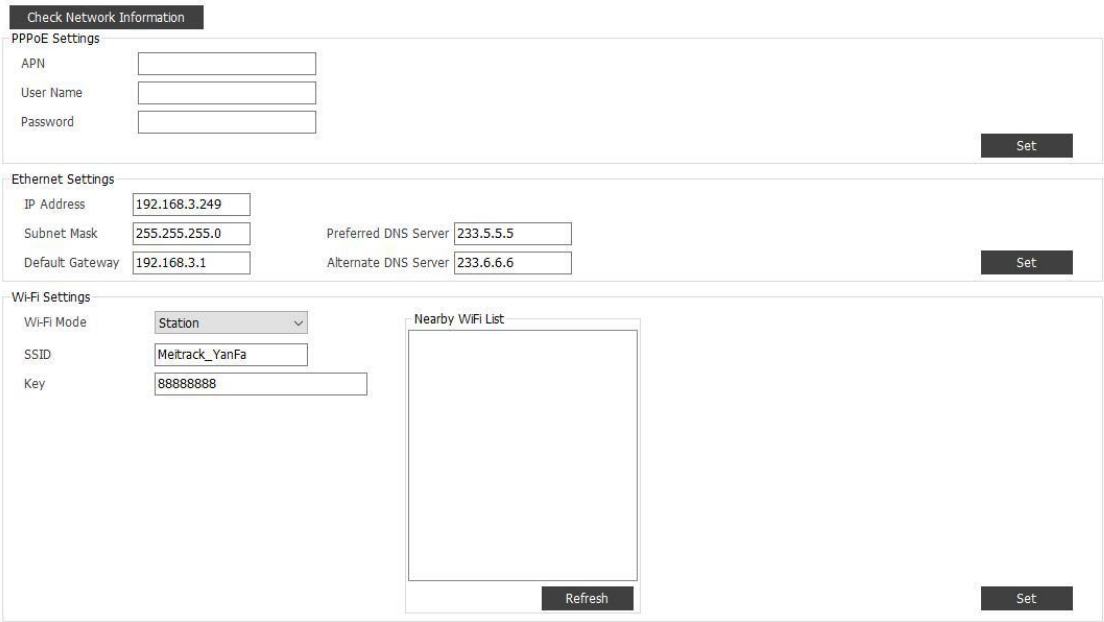
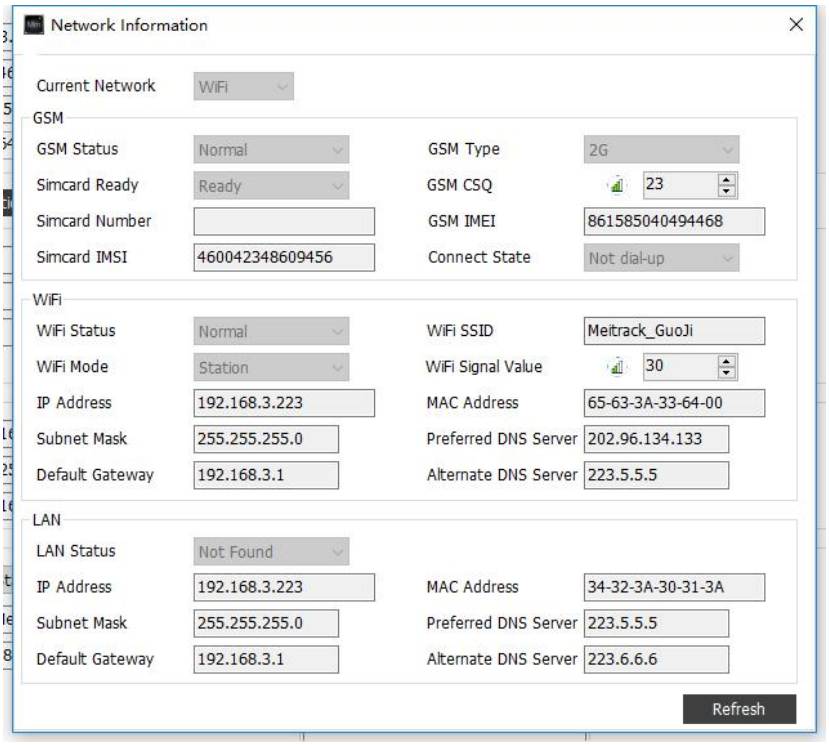


Check Network Information: Click **Check Network Information** to check the current mobile network, WiFi network or LAN network information.



FTP settings: You can determine whether to upload MDVR videos to the FTP server. If yes, set the IP address, port, FTP login user name and password, and FTP directory. Video uploading will consume network resources, so you can set the maximum file size.

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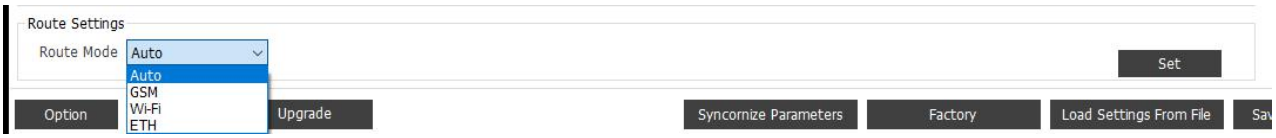
Route settings: As shown in the following figure, the route mode supports four options: Auto, GSM, WiFi and Ethernet. If **Auto** is selected, the MDVR will first detect the Ethernet network, then the WiFi network, and finally the GSM network.



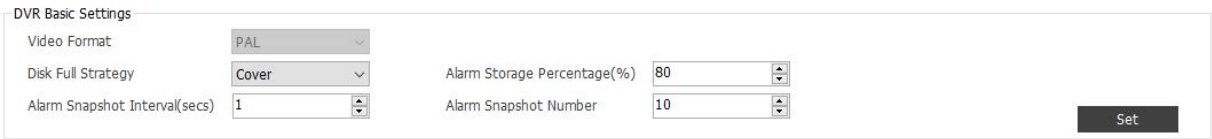
3.8 Video Settings

3.8.1 Setting Basic Video Parameters

Disk Full Strategy: When the disk space is full, determine whether to continue to record videos, replace old videos with new ones, or stop recording.

Alarm Storage Percentage (%): When the disk space reaches the preset percentage value, a disk full alert will be sent. In this way, users can replace the disk with new one or clear the disk to prevent video losses.

Alarm Snapshot Interval (secs) and Alarm Snapshot Number: Set the interval of taking photos and the number of photos for an alert (such as a speeding alert).



3.8.2 Setting Video Encoding

Storage Stream: The device stores recorded video streams, that is, the bitrate of the source video files. Videos stored on the device and FTP server are storage streams.

Live Stream: indicates a data stream that is uploaded to the platform in real time instead of the FTP server. When you monitor the device in real time via the platform, the data stream obtained is a live stream. It is different from the storage stream. The quality of the live stream is relatively rough, and data usage consumption is relatively low. After the live stream is obtained, it will be deleted immediately and will not be saved.

Bit Rate Type: A video has the constant bitrate (CBR) and variable bitrate (VBR). For the CBR, data usage consumption is relatively constant. The VBR is a dynamic bitrate. When an image is still and appears repeatedly, the camera will reduce the bitrate, which helps save data usage. Compared with the CBR, it can help save about 5% to 80% of data usage (depending on how many images appear repeatedly).

Frame Rate (FPS): Frame rate is the frequency (rate) at which consecutive images called frames appear on a display. The larger the number of frames is, the smoother images are. It is recommended that the parameter value should be greater than 20. If the frame rate is lower than 15 FPS, images will be discontinuous.

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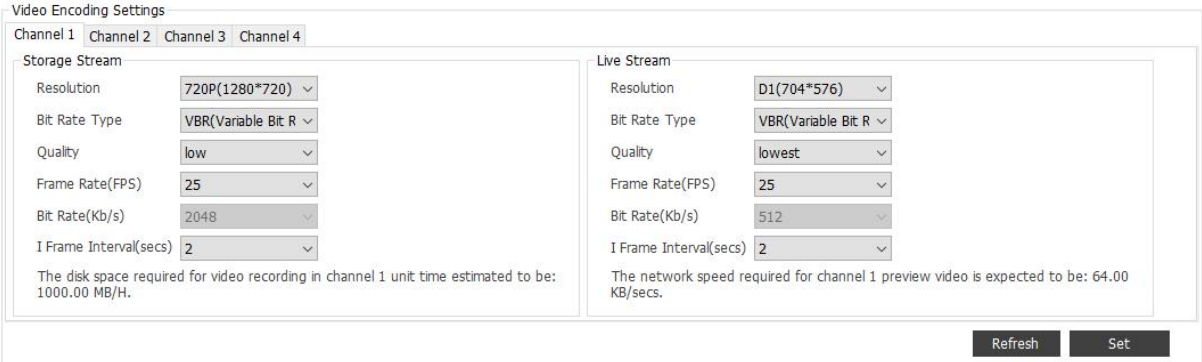


3.8.3 Calculating Data Usage

Video data usage depends on the size of uploaded data streams. The data usage for live preview is calculated based on the bitrate of live streams, while the data usage for video playback is calculated based on the bitrate of storage streams.

Calculation formula: Bitrate (Kbs)/8 x Number of channels x 3600/1024 = Data usage consumption per hour (MB)

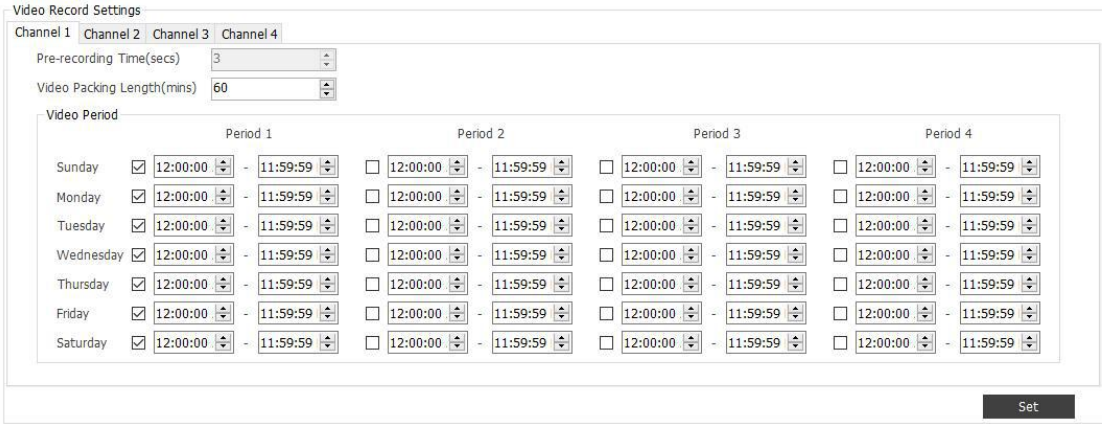
Note: The above data usage only includes video usage.

For example, if the bitrate is 2048 Kbs and four cameras work at the same time, the data usage consumption per hour is 3600 MB (2048 /8 x 4 x 3600/1024 = 3600).

Theoretically the data usage consumption per hour is 3,600 MB.

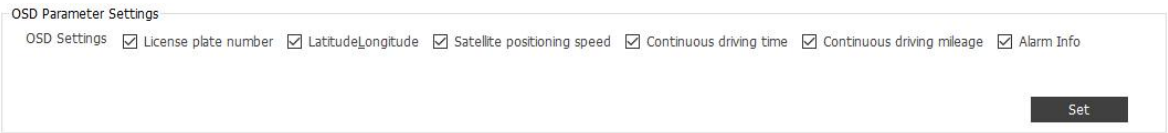
3.8.4 Setting Recording Time

After the MDVR is turned on, all cameras start working and recording by default. Users can set specific time periods of video recording.



3.8.5 Setting OSD Parameters

Users can determine whether to display related OSD information on the video screen, such as the license plate (device name), latitude, longitude and satellite positioning speed.



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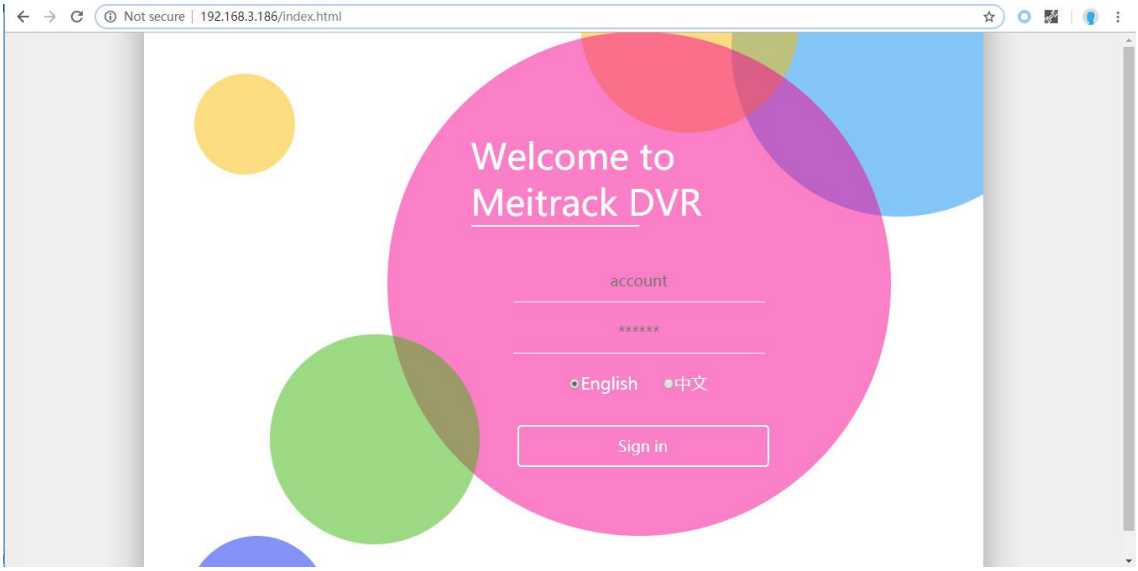
4 Configuring the MDVR by Using the LAN Web Page

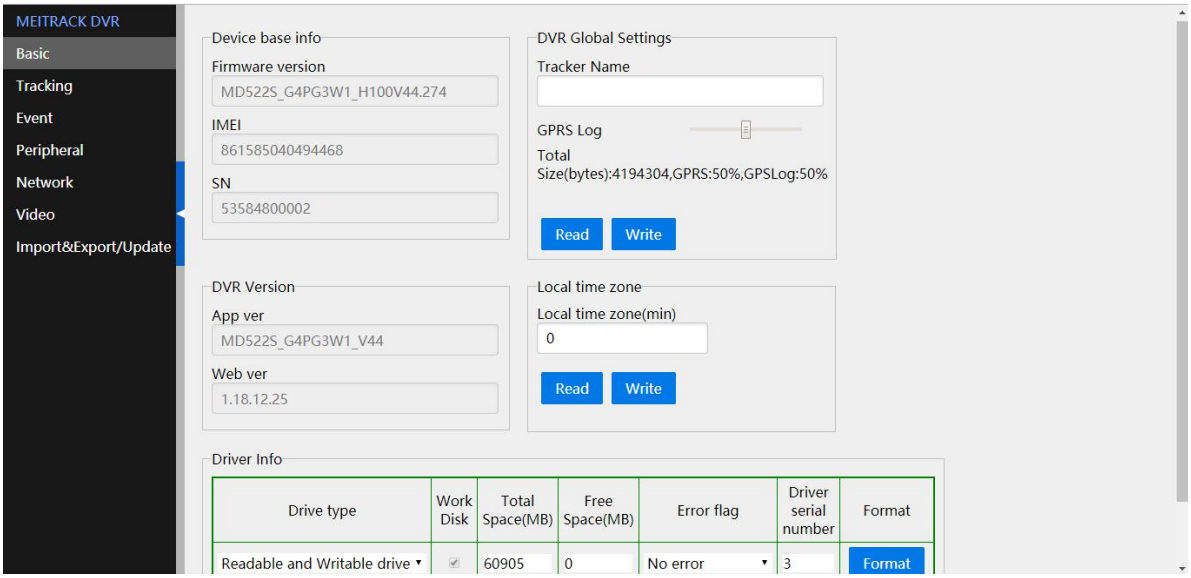
You can use the LAN to configure the MDVR. There are two methods as follows:

1) Connect the computer and MDVR to the same WiFi hotspot, and then configure the MDVR on the web page.
2) Connect the MDVR to the Ethernet, ensure that the computer and MDVR are in the same LAN, and then configure the MDVR on the web page.

You need to obtain the IP address of the LAN connected to the MDVR. (To obtain the IP address, you can connect the MDVR to Meitrack Manager to check the network status, send a command to query the network status, or contact the LAN administrator.) After entering the MDVR IP address in the address bar of your web browser, you can configure the MDVR on the web page.



On the web page that is displayed, enter the user name and password (default user name: admin; default password: 000000), and log in to the system. Then configure the MDVR on the web page. The configuration method is similar to that of Meitrack Manager.



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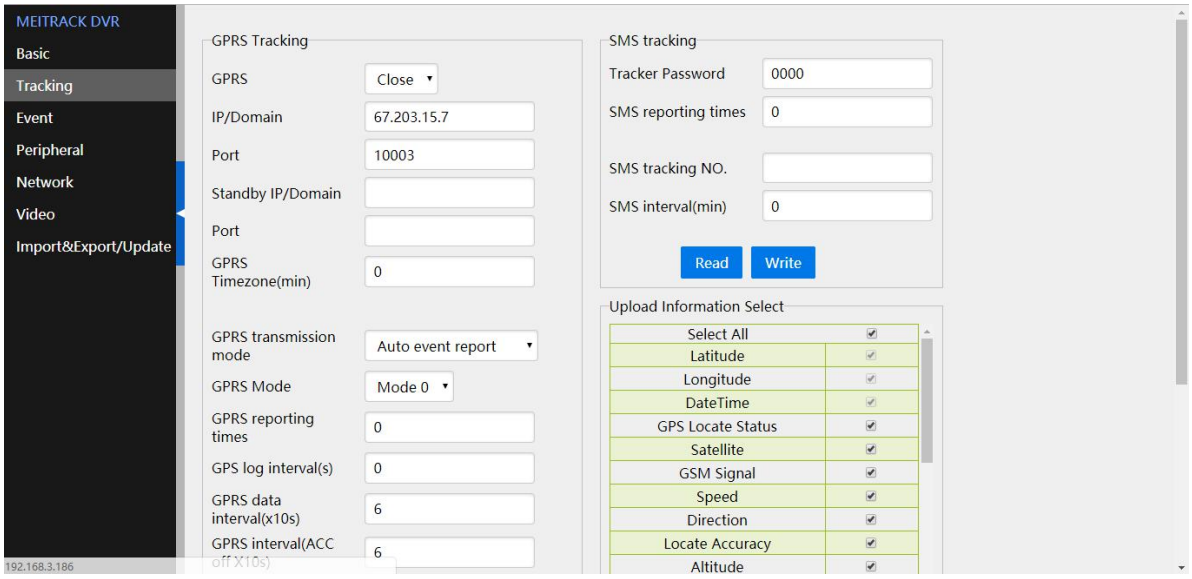

5 Connecting the MDVR to the LCD Display

Button Name	Description
POWER	Used to manually turn on or off the LCD display. (After the MDVR is powered on, the LCD display connected to the MDVR will be turned on automatically.)
MODE	1. Used to select the Night or Glare mode. 2. Used to switch to the next parameter option.
MENU	1. Used to open the parameter settings interface. 2. Used to switch to the next parameter interface.
+	1. Used to turn the volume up. 2. Used to increase the parameter value. 3. Used to select the next option.
-	1. Used to turn the volume down. 2. Used to decrease the parameter value. 3. Used to select the previous option.

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Button Name	Description
V1/V2 (reserved)	Used to select a signal source. (reserved)

5.1 Setting the Language

To set the language according to your preference, press the **MENU** button for four times, and then press the **+** button for several times.

5.2 Setting the Night or Glare Mode

On the video playing interface, press the **MODE** button to set the Night or Glare mode.

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5.3 Setting the Brightness and Contrast Ratio

Press the **MENU** button. Then you can press the **MODE** button to select the brightness or contrast ratio item, and press the **+** or **-** button to adjust the brightness or contrast ratio.

You can select **RESET** and then press the **+** or **-** button to restore the brightness and contrast ratio to factory settings.

5.4 Adjusting the Volume

Press the **MENU** button for two times. On the volume settings interface that is displayed, press the **+** or **-** button to turn the volume up or down respectively.

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5.5 Rotating Images

Press the **MENU** button for three times, and then press the **+** button to horizontally or vertically rotate images.

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5.6 Showing Camera Channels

Press the **MENU** button for four times, and determine whether to show camera channels on the LCD display.

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5.7 Playing a Single Image in Full Screen

After the LCD display is connected to a mouse, double-click an image on the LCD display to play it in full screen.

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5.8 Setting Parking Guidelines

To set parking guidelines, press the **MENU** button for five times, the **+** button for once, the **MODE** button for once, and then the **+** button for once.

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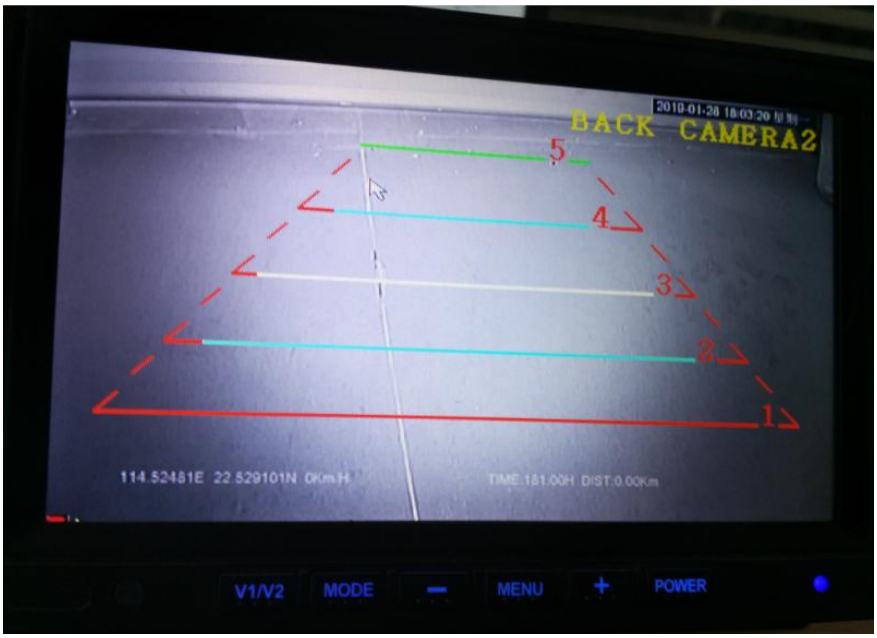

5.9 Setting the Delay Time of Image Playing

Press the **MENU** button for five times to set the delay time of camera images that play on the LCD display.

6 MS03 Web Platform

You can visit mdvr.trackingmate.com and log in to the MS03 platform. On the platform, live streams of the MDVR can be loaded (real-time monitoring), and recording files can be stored (large files are stored on the FTP server).

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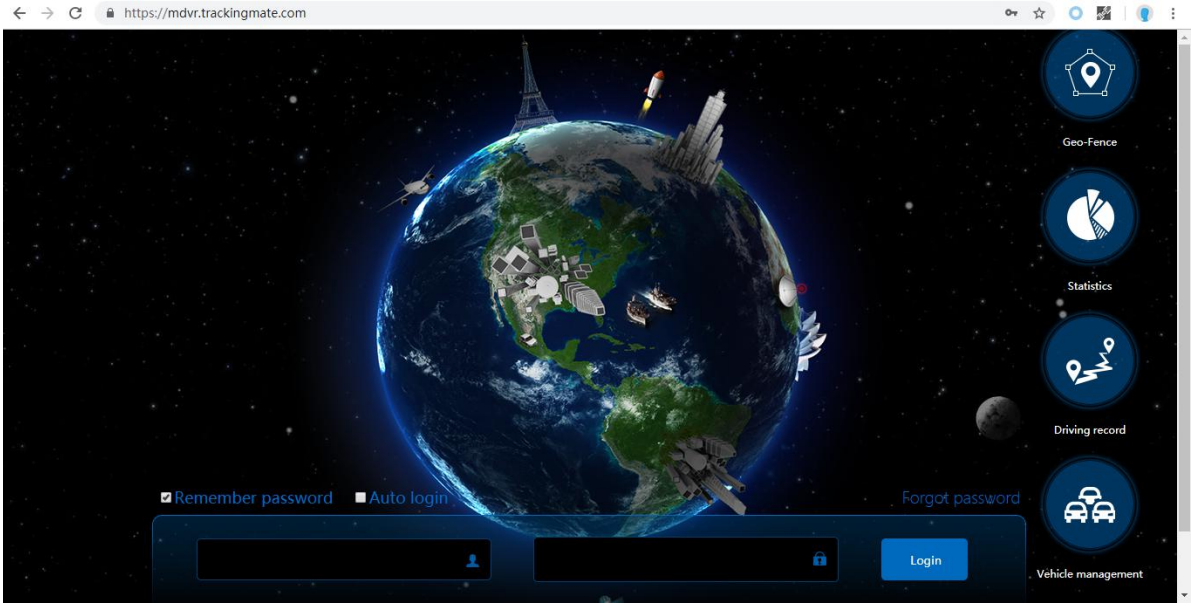
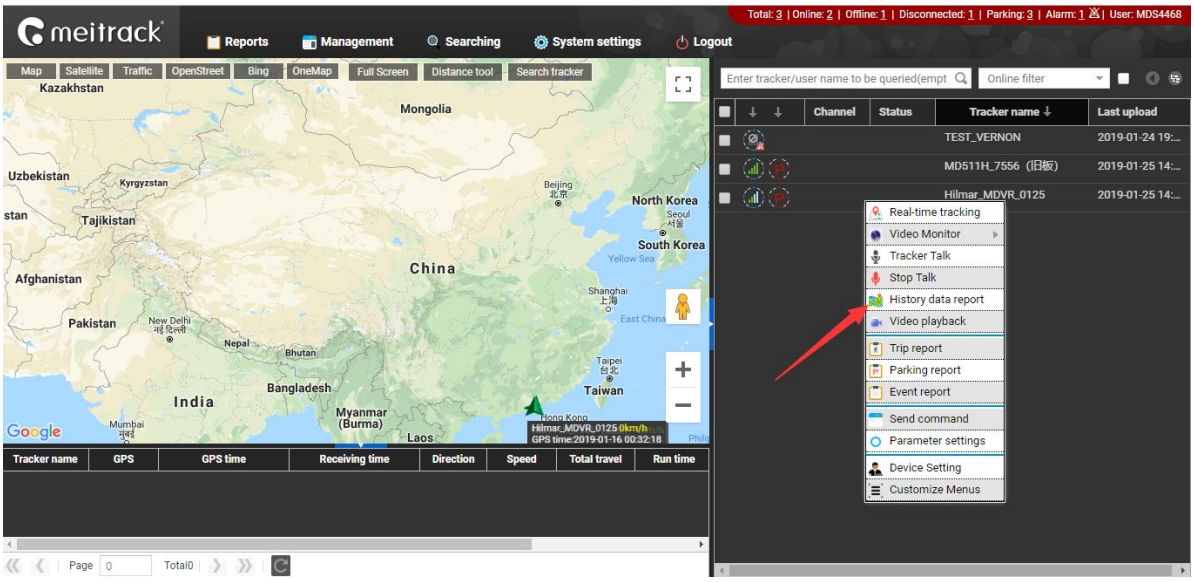


After logging in to the platform and adding the MDVR, you can use the positioning function, monitor the MDVR in real time, play back videos, query alert videos, and make a call.



6.1 Real-time Monitoring

Right-click the MDVR, and select **Video Monitor** and a camera surveillance channel to play videos.

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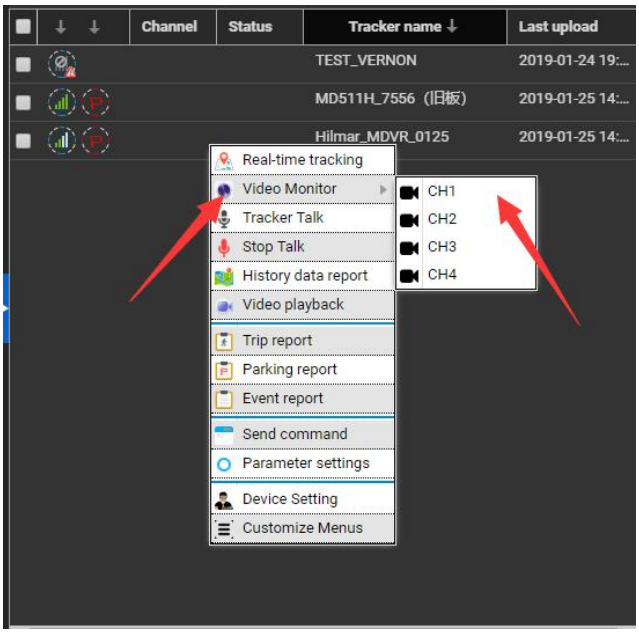
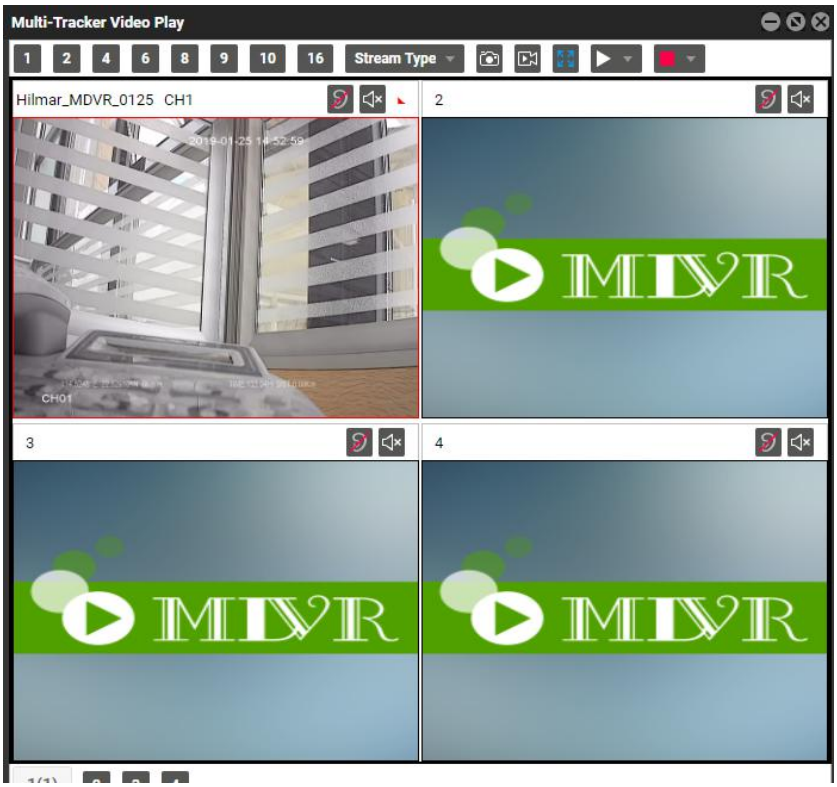
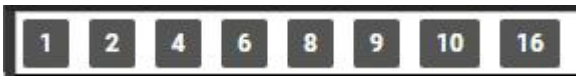




You can select the number of channels to be played as required.



As shown in the following figure, select **SubStream** or **Main Stream** to play videos.

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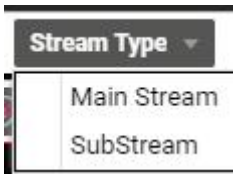
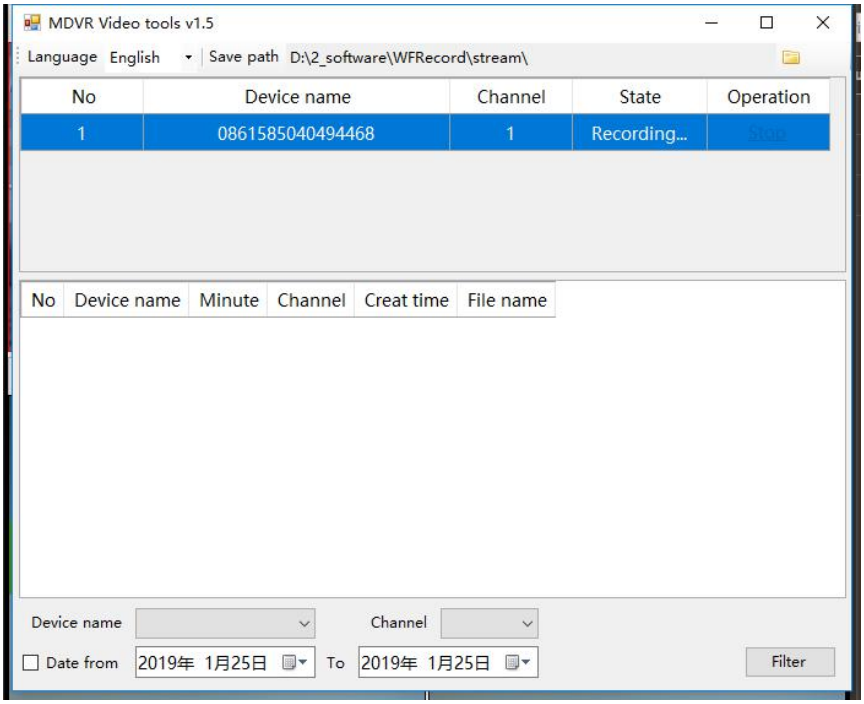


: Screen capture

: Video recording. You need to install Meitrack software MDVR Video Tools, as shown in the following figures.



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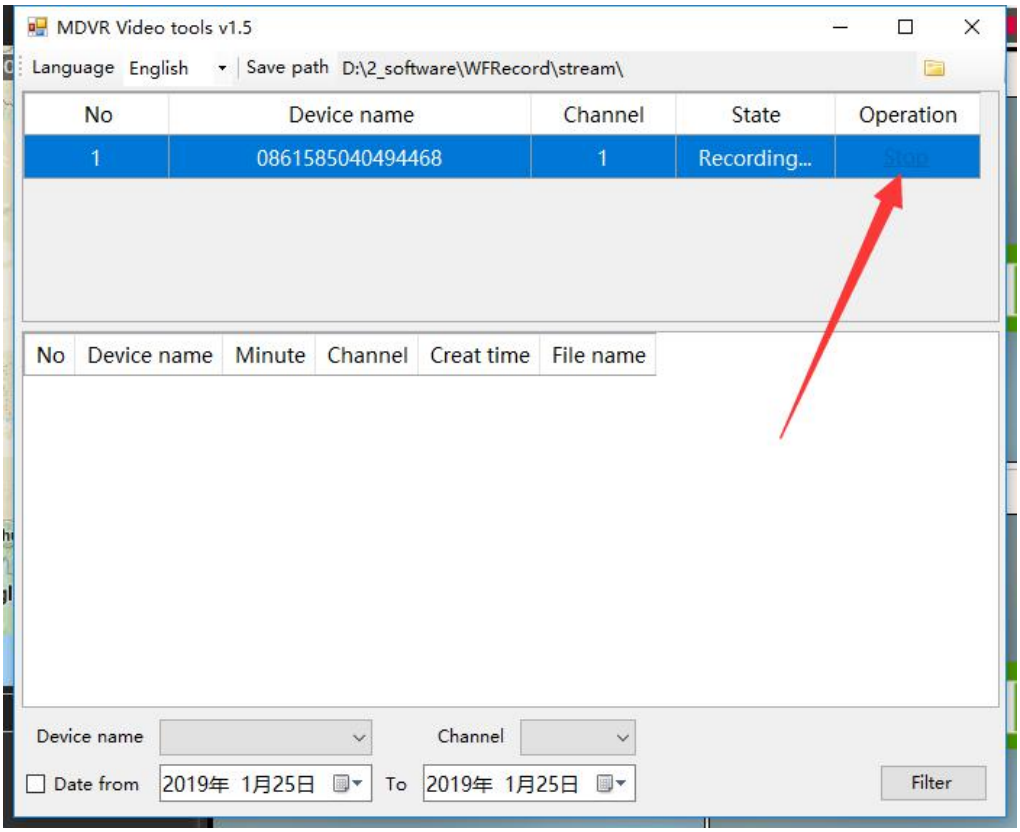
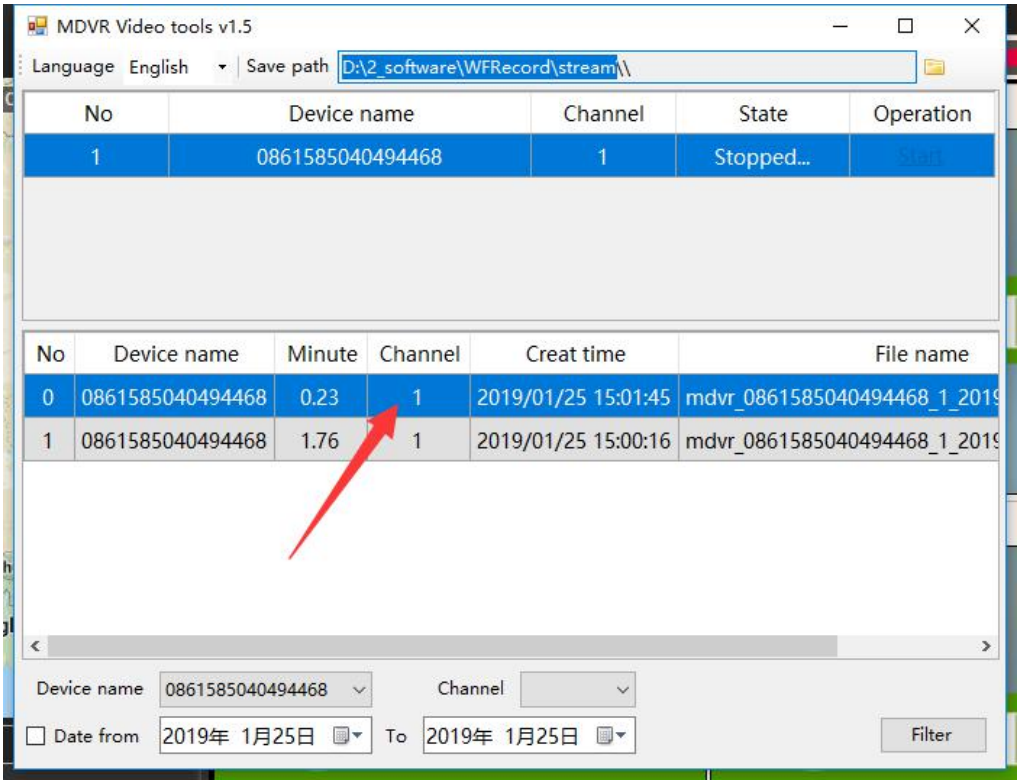
When the video recording is finished, click **Stop**.



The video file is stored in the **D:\2_software\WFRecord\stream** directory.

Double-click the related item to open and play the video.



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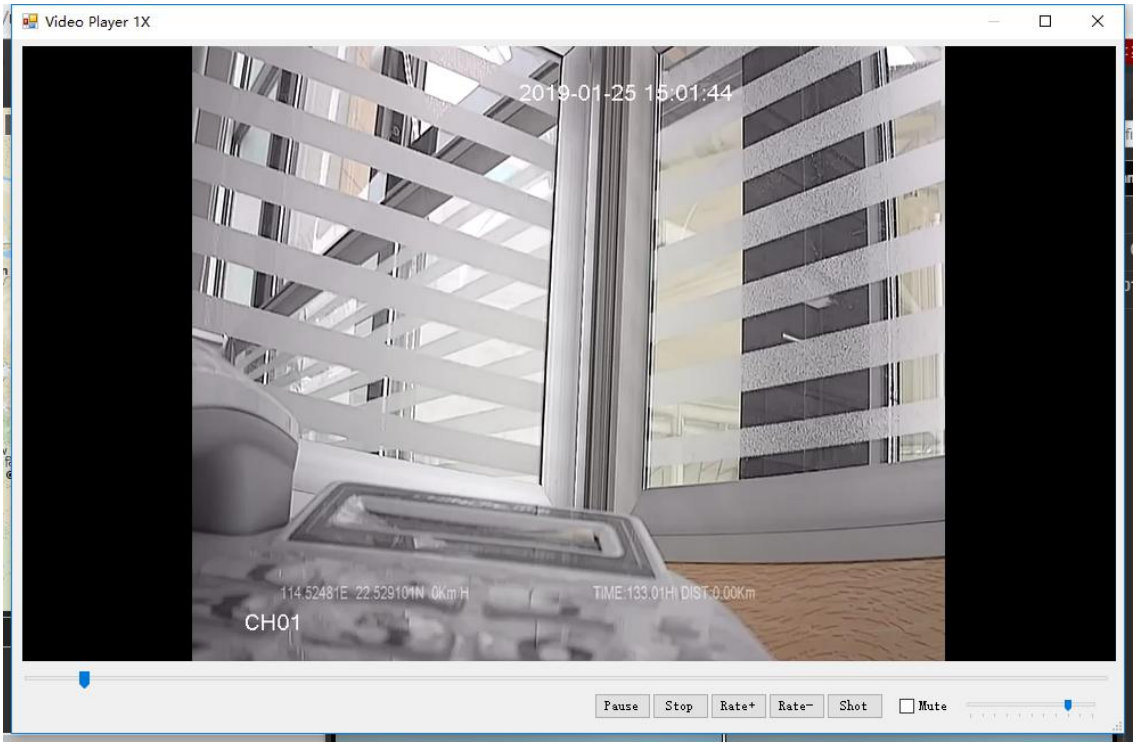
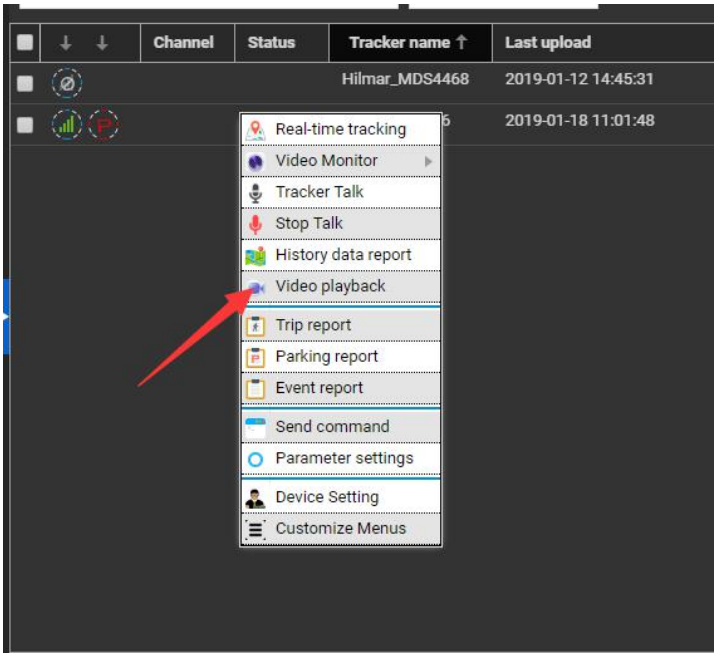


: Listen-in

: Mute or not

6.2 Video Playback

Right-click the MDVR and select **Video playback**.



Select related videos based on events.

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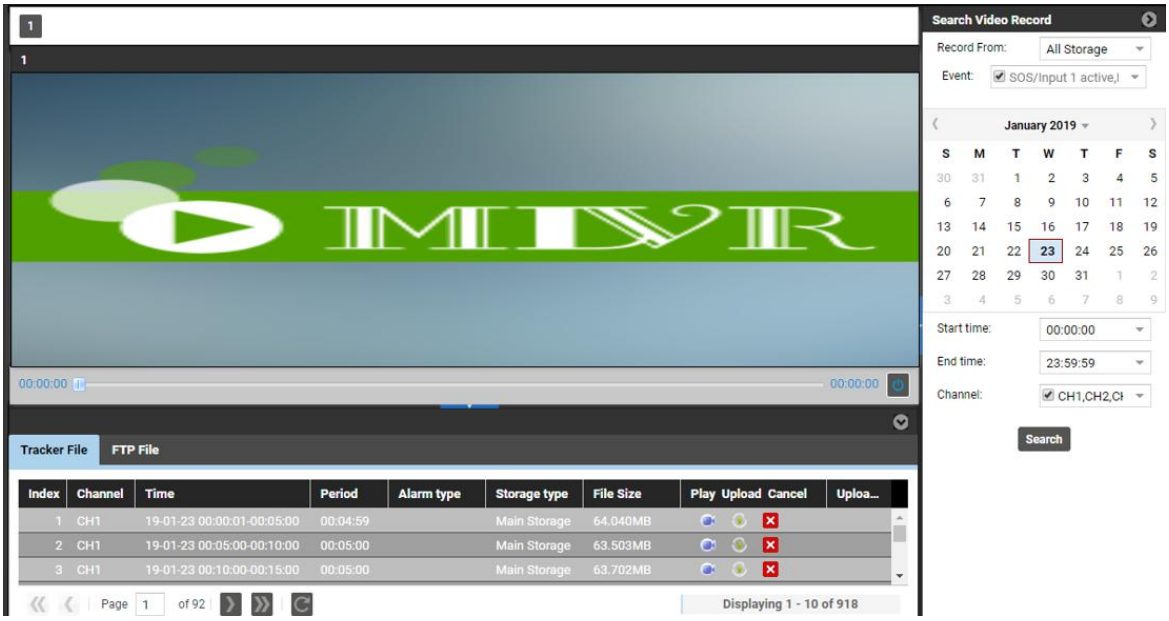

: Play

: Upload

: Cancel

6.3 Two-Way Calling

Right-click the MDVR and select **Tracker Talk**.

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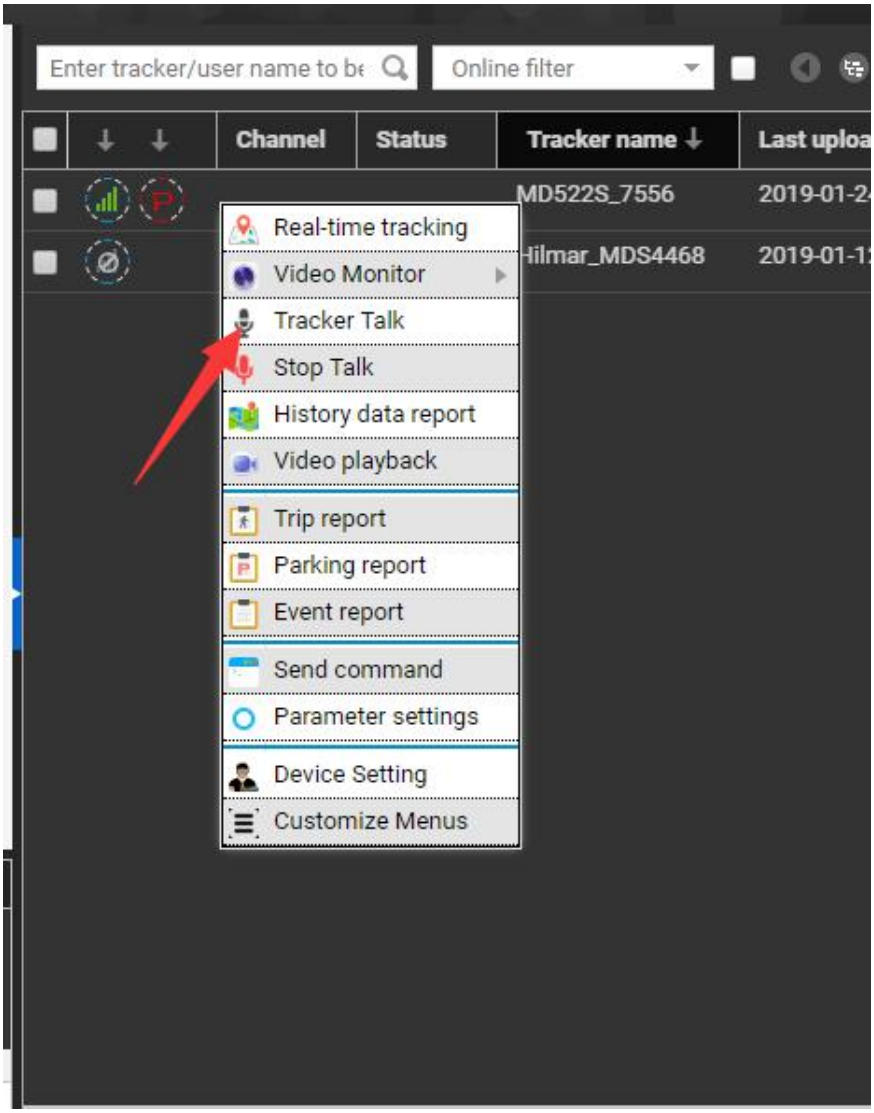

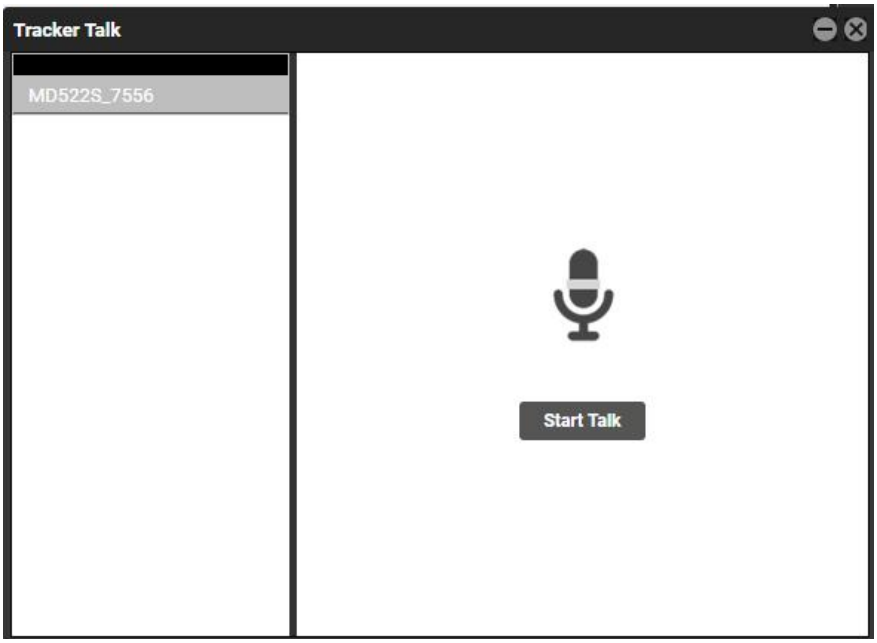

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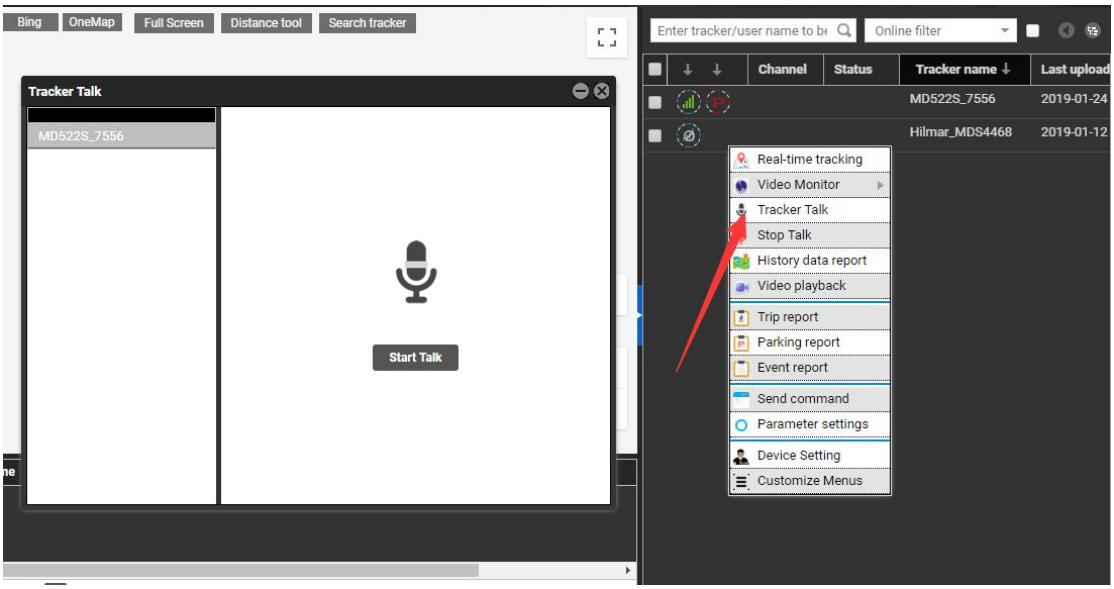
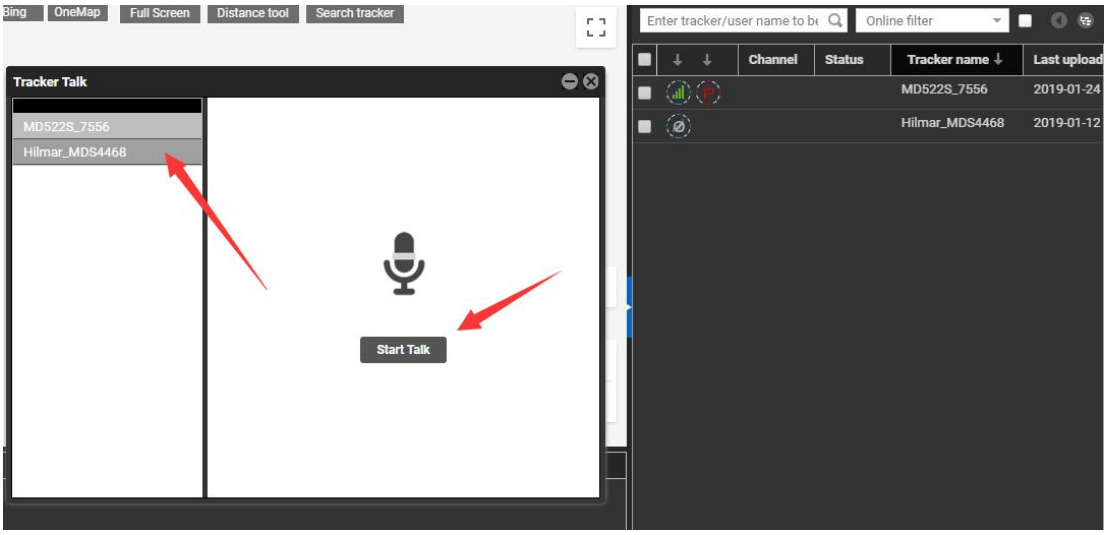
You can talk with multiple users.





Select the users to call, and click **Start Talk** to start broadcasting.

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7 MS03 App

7.1 Logging In to the App

7.2 Checking MDVR Online Status

If the green signal icon is displayed, it means that the MDVR is online.

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7.3 Video Surveillance

Click **MDVR** on the map, or choose **MDVR** on the **Management** page. Then the video surveillance page will be displayed.

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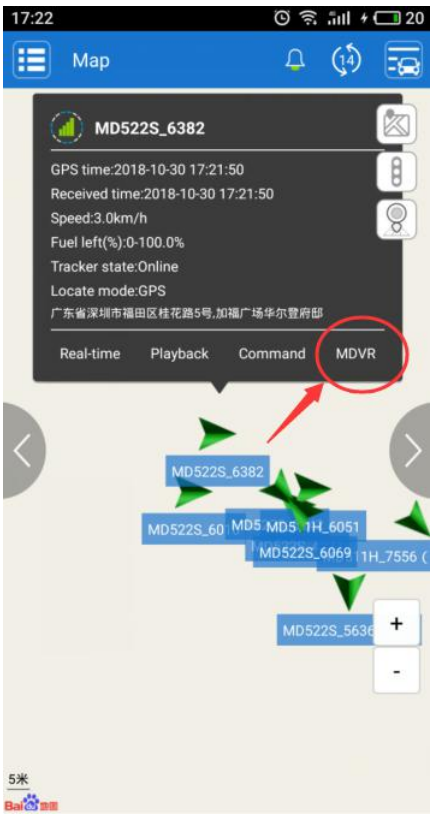

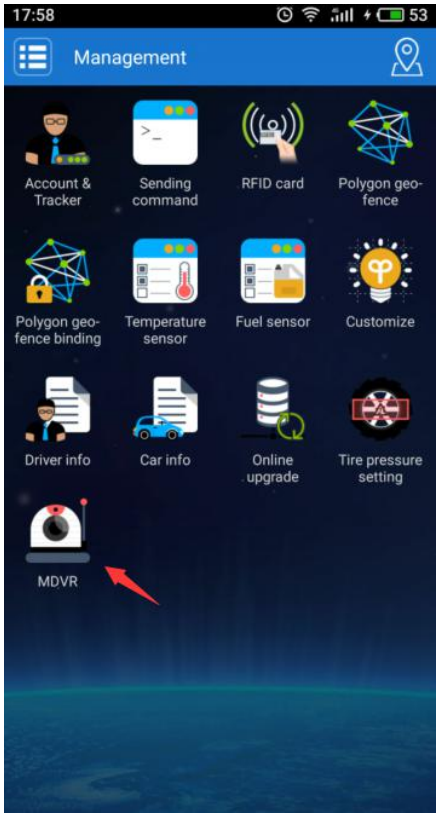

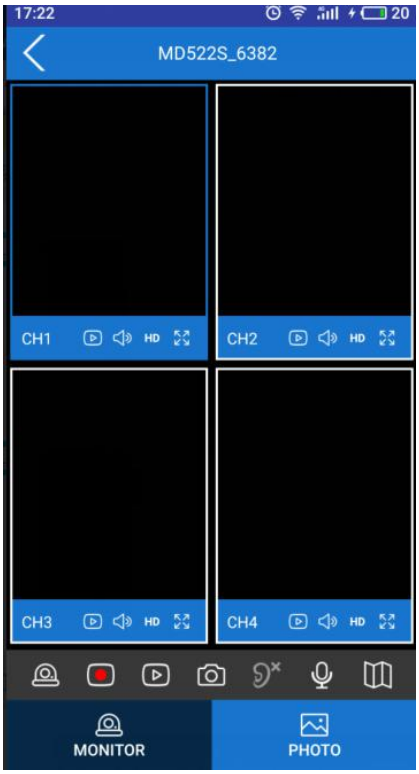

Click to play videos of corresponding channel. Click to start four-channel surveillance.

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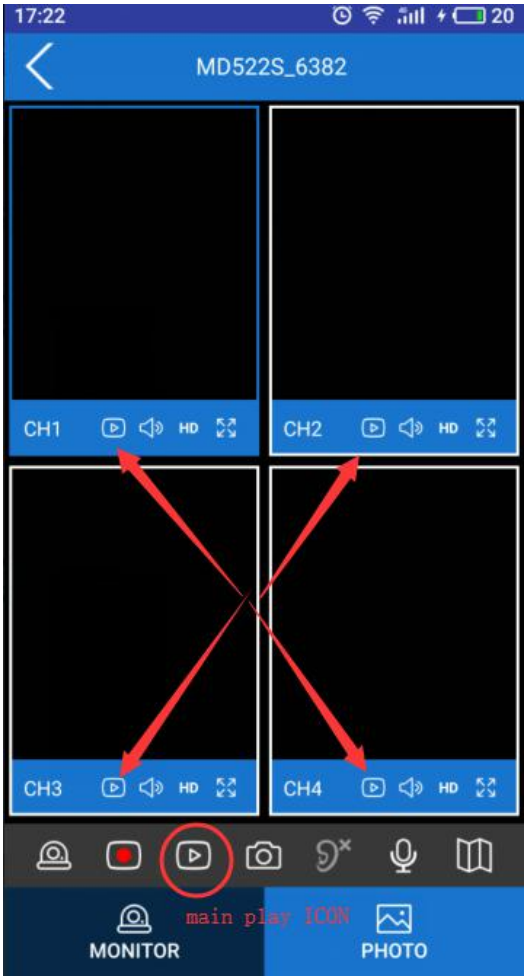

7.4 Other Icons

: Full screen

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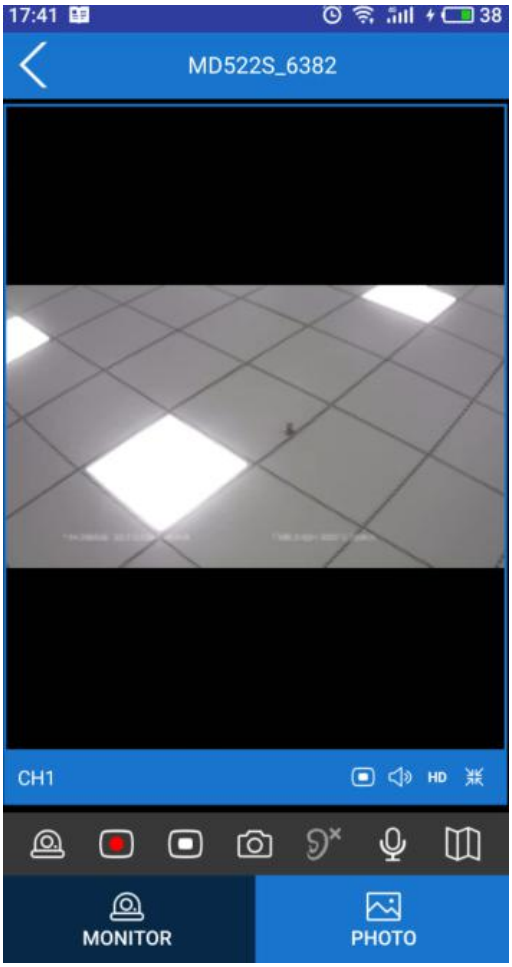

: Cradle head (not supported now)

: Video recording

: Screenshot. Screenshots are stored on your phone. You can click **PHOTO** to view screenshots (as shown in the following figure), or locate and view screenshots on your phone memory.

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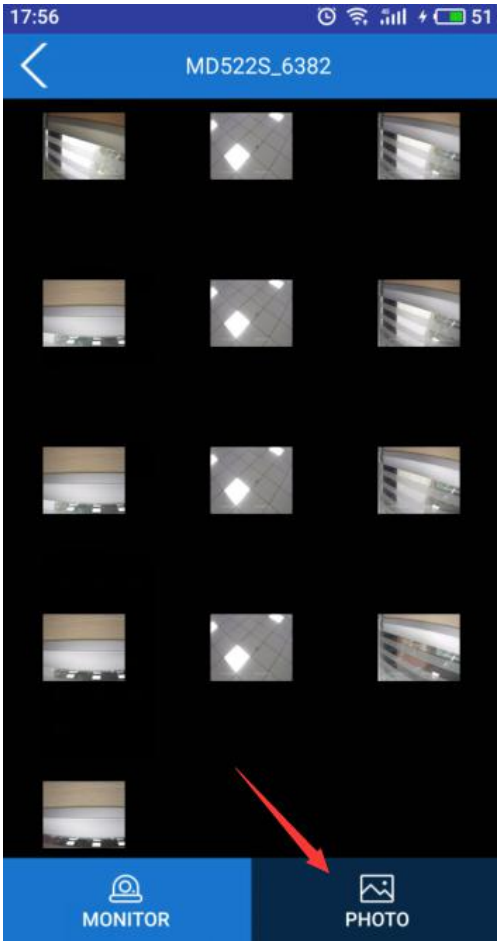

: Listen-in

: Microphone

: Used to select a camera channel, monitor the device, and track the device's location.

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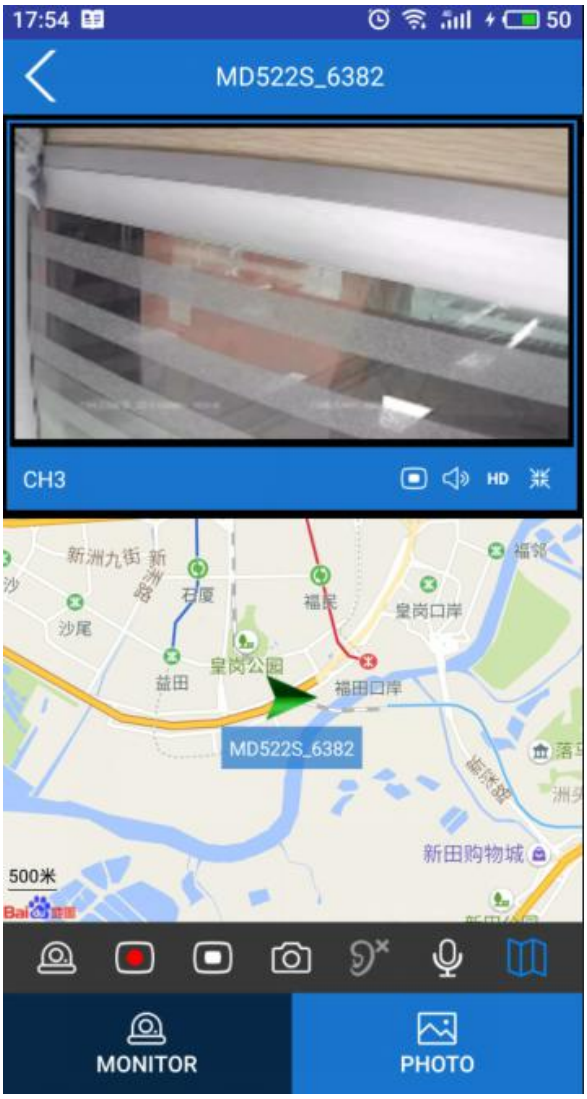
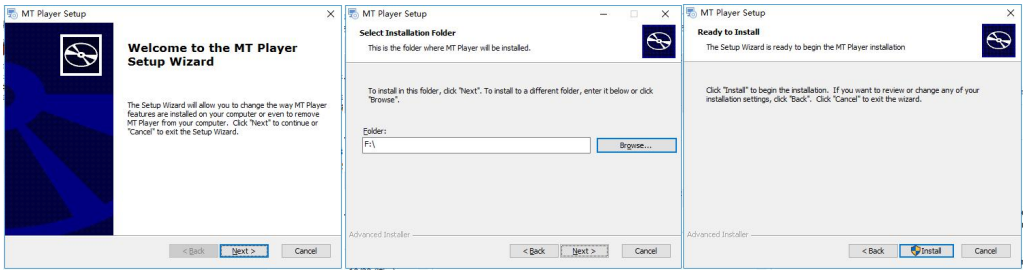


8 Playing MDVR Videos by Using MT Player Software

8.1 Installing MT Player

Unzip the file MTPlayerSetup.rar, and double-click the file MTPlayerSetup.exe to install the software according to the setup wizard.



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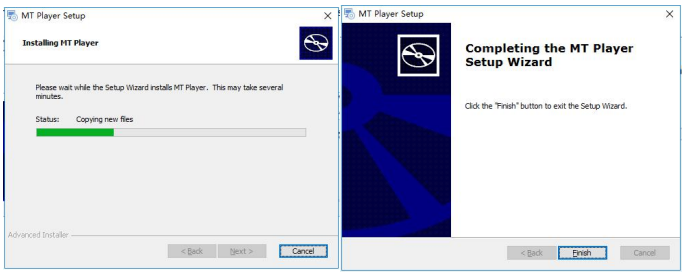
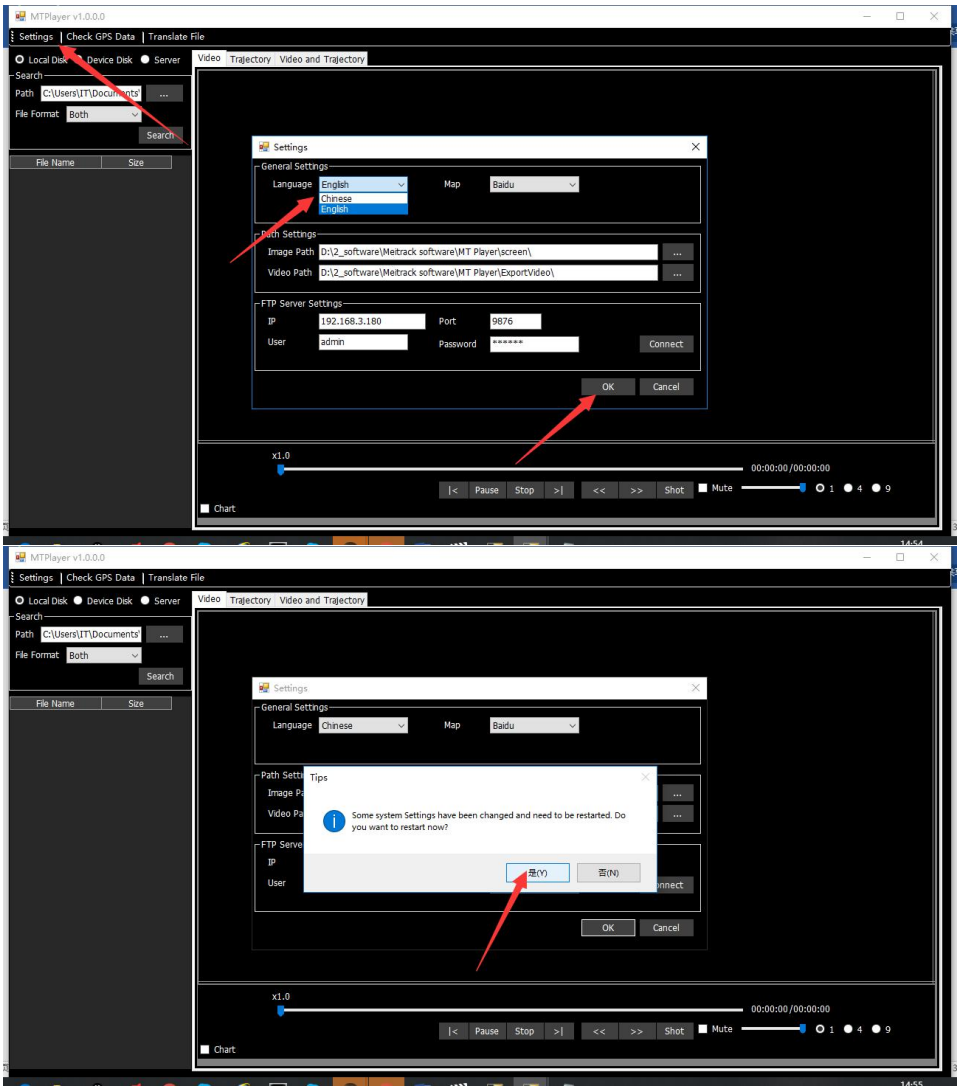


8.2 Setting MT Player Parameters

8.2.1 Setting the Language

As shown in the following figure, select **English** or **Chinese** from the **Language** drop-down list, and click **OK**.



The calendar language is consistent with the computer system language.

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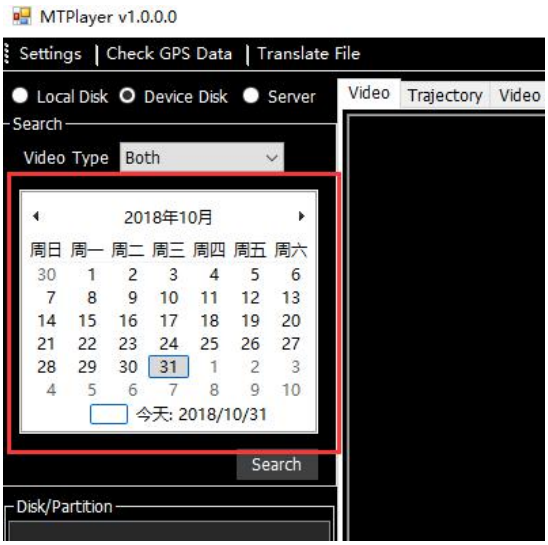
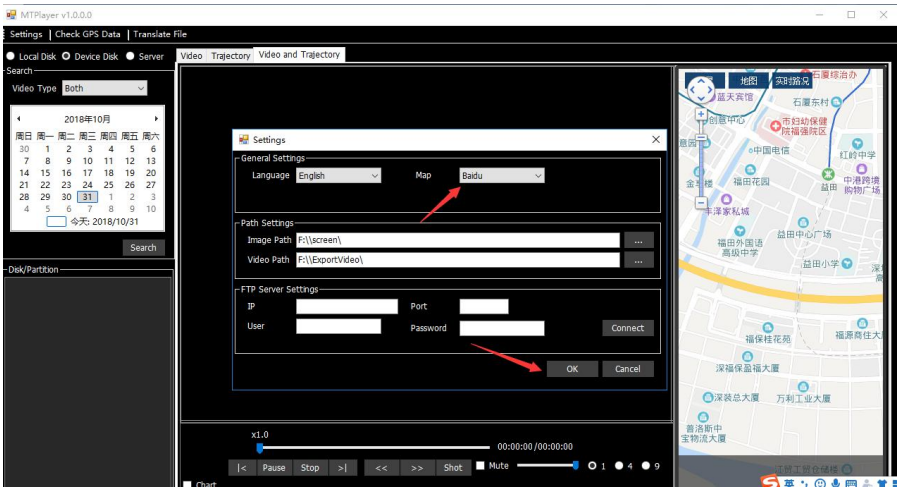
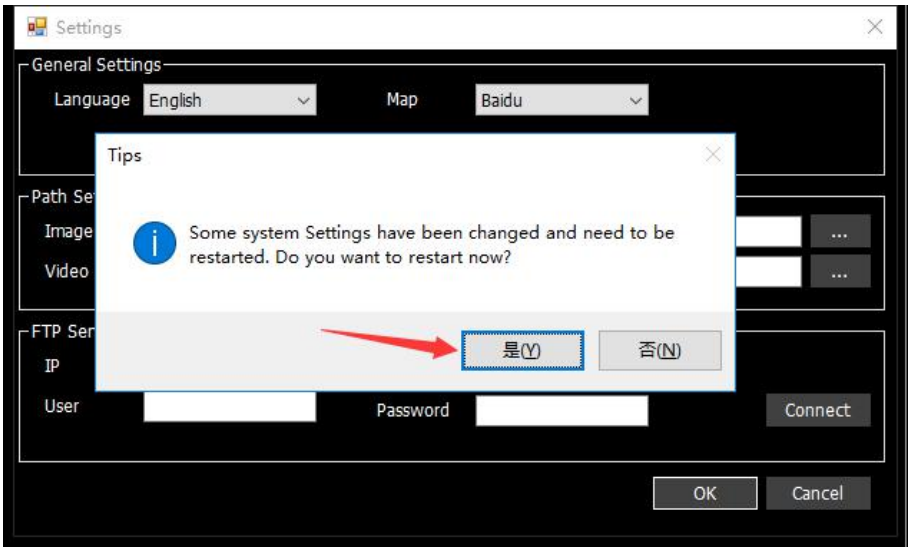


8.2.2 Setting the Map

As shown in the following figure, select **Baidu** or **Google** from the **Map** drop-down list, and click **OK**. After the software is restarted, the setting will take effect.





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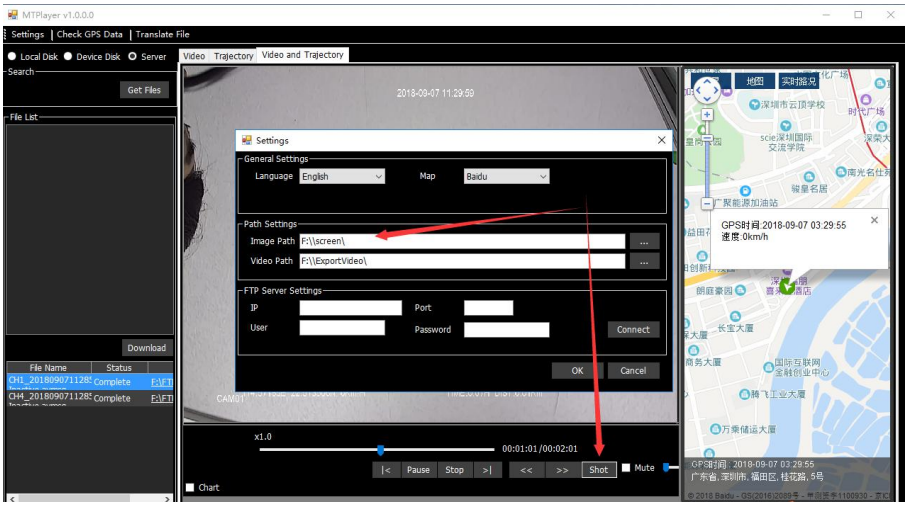
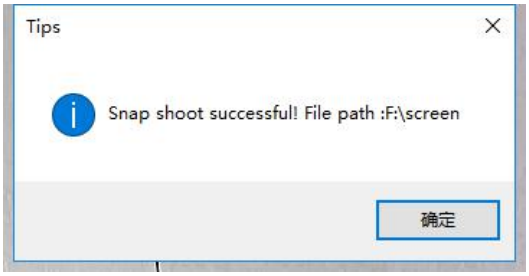
8.2.3 Setting the Storage Path

- Photo storage path

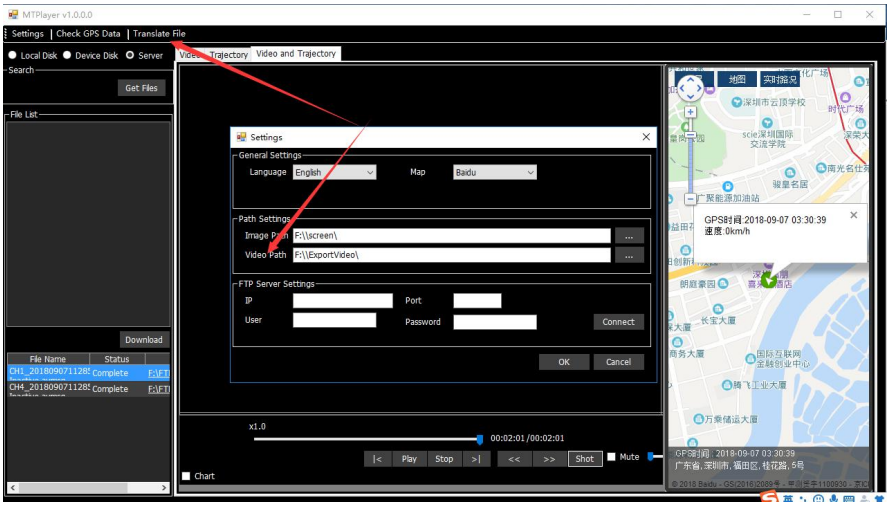
  You can modify the photo storage path as required.





- Video storage path

  You can set the storage path of conversed videos as required. As shown in the following figure, export the video **CH1.mp4** to the **F:\ExportVideo** directory.



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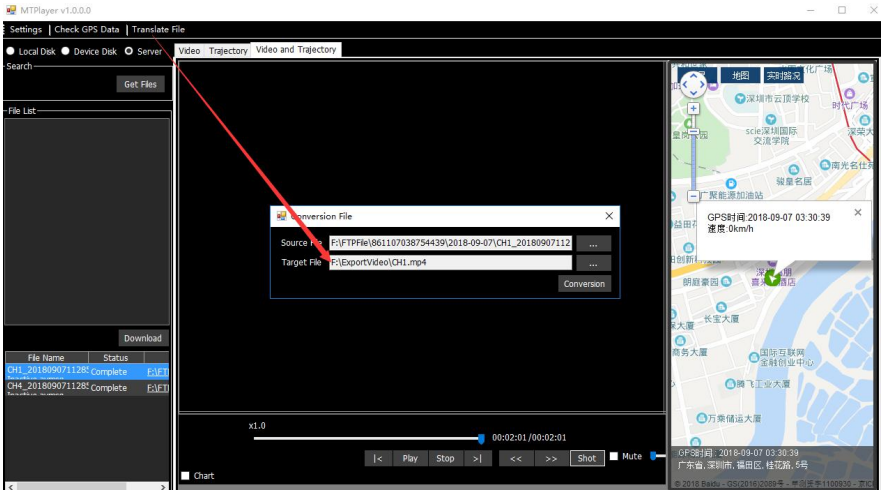
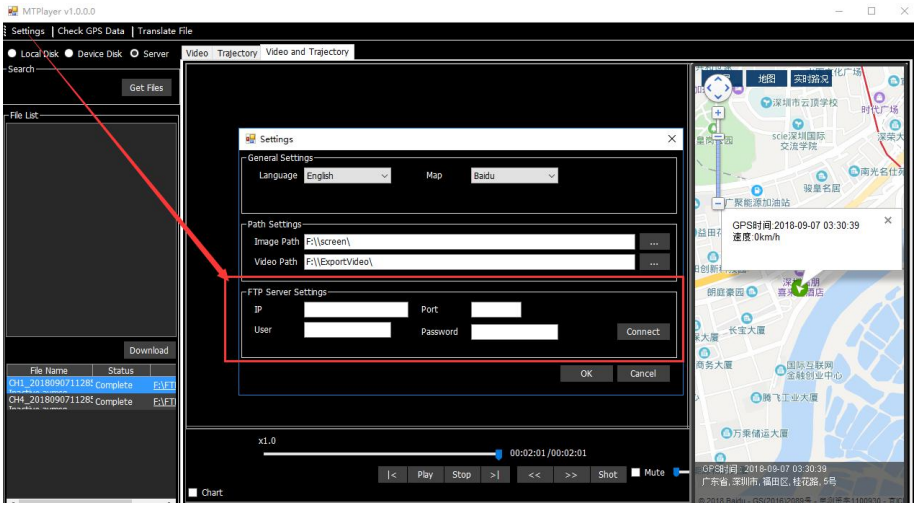
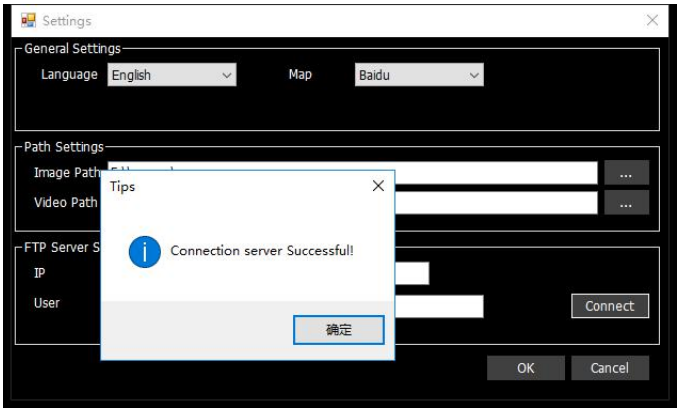


8.2.4 Setting the FTP Server

As shown in the following figure, locate **FTP Server Settings**, set the IP address, port, user name and password, and click **Connect**. Then the file storage list on the FTP server will be obtained.





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8.3 MT Player Functions

8.3.1 Playing Videos

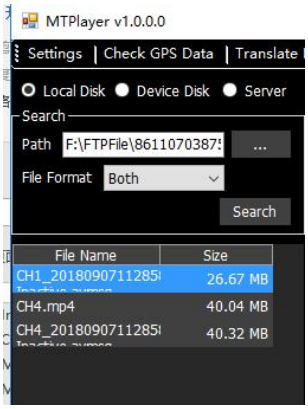
1. Play videos stored in local disks.

You can use any of the following methods to read videos stored in local disks.

1) Insert an SD card into a card reader, and plug the card reader into a computer.

2) Take a disk out of the MDVR, and connect the disk to a computer by the USB cable.

Locate a video in **.avmsg** or **.mp4** format on local disks of your computer.



2. Play videos stored in MDVR disks.

To read a disk, connect the MDVR installed with an SD card or a disk to a computer by the USB cable.

Once any video stored in MDVR disks is detected by MT Player, the icon will be displayed.

If a black bold date appears on the calendar, it means that there are videos recorded on that day.

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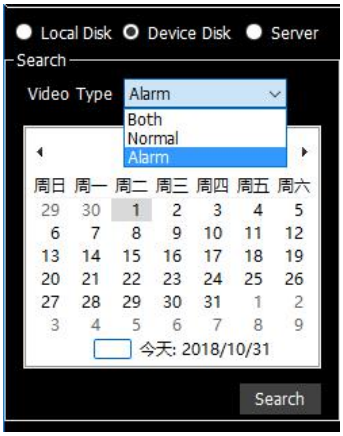
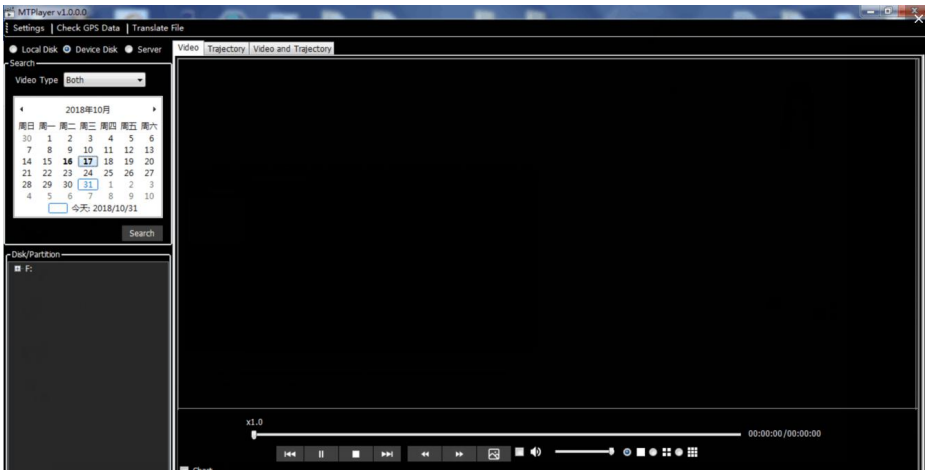
You can select **Normal** to play a complete video or **Alarm** to play an alert video.





Double-click the name of a video file. Then the video will be played automatically.

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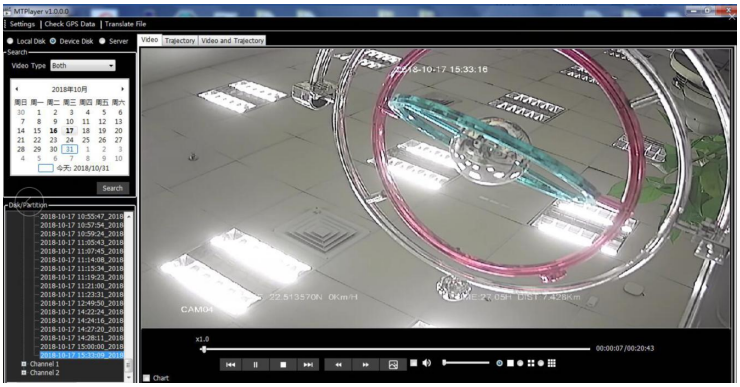
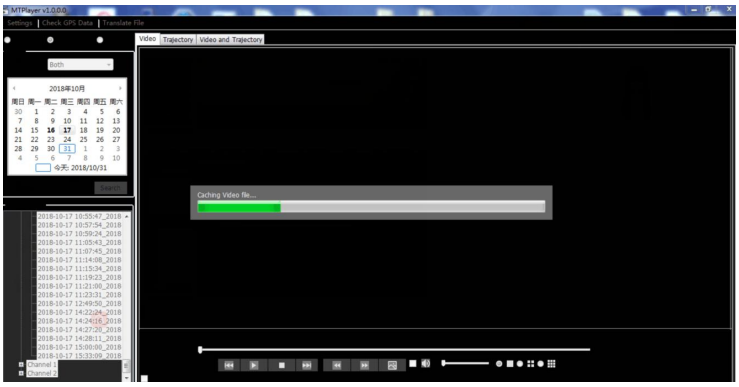
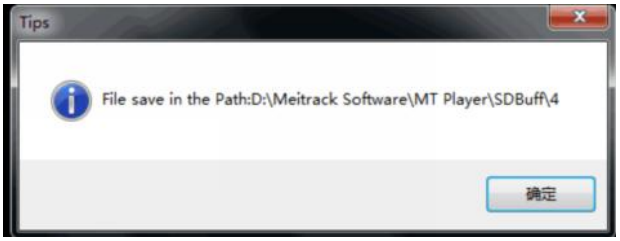
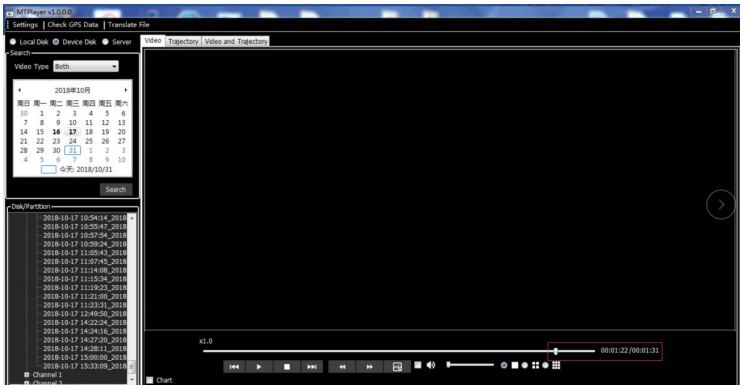


You can also download the video, and then play it.







3. Play videos stored in the FTP server.

After you click **Server**, MT Player will be connected to the FTP server automatically. Users can change the FTP server IP address and port as required.

Click **Get Files**. Then all **.avmsg** files will be displayed, while files in other format will not be shown.

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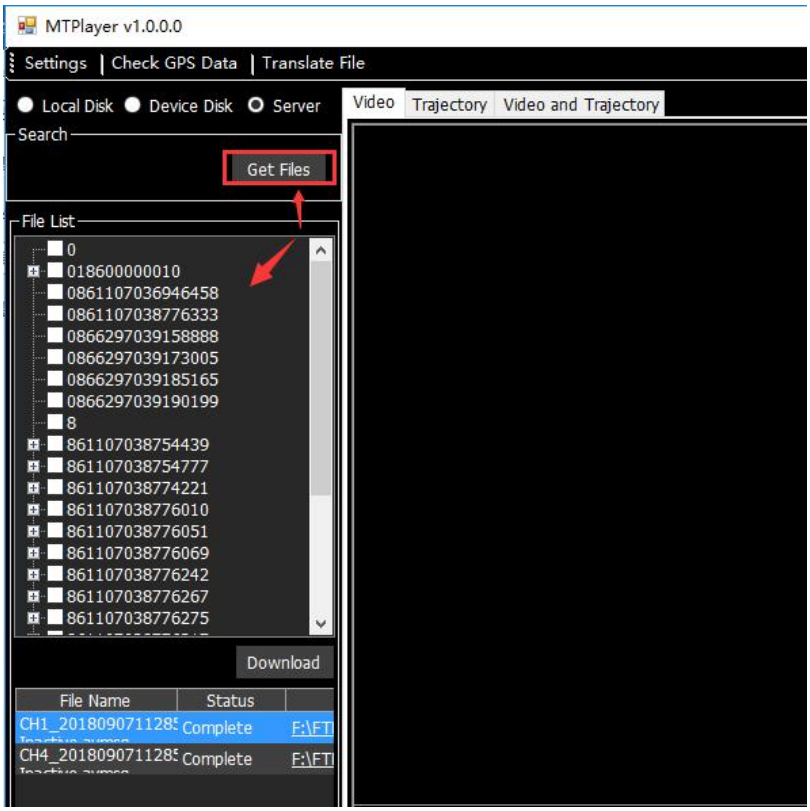
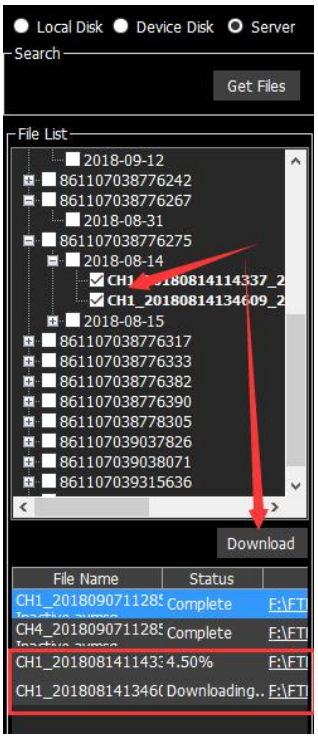


Locate the videos to be downloaded, and click **Download**. During downloading, the downloading progress and file storage path will be displayed.



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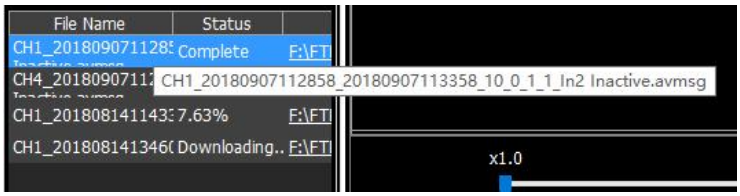

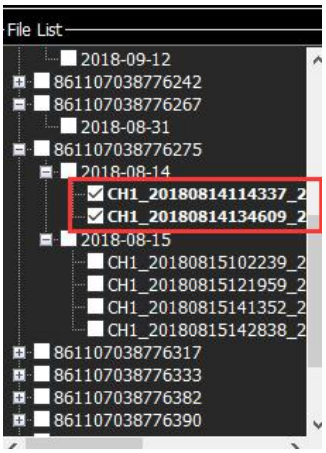

Double-click the name of a video file. Then the video will be played.

During video playing, you can perform the following operations:

- Play, stop, fast forward, and slow forward the video.
- Adjust or turn off the volume.
- Select one-channel, four-channel or nine-channel image playing.
- View the data change chart. Data includes the speed, fuel level, AD, etc.
- Simultaneously play related positioning locations.

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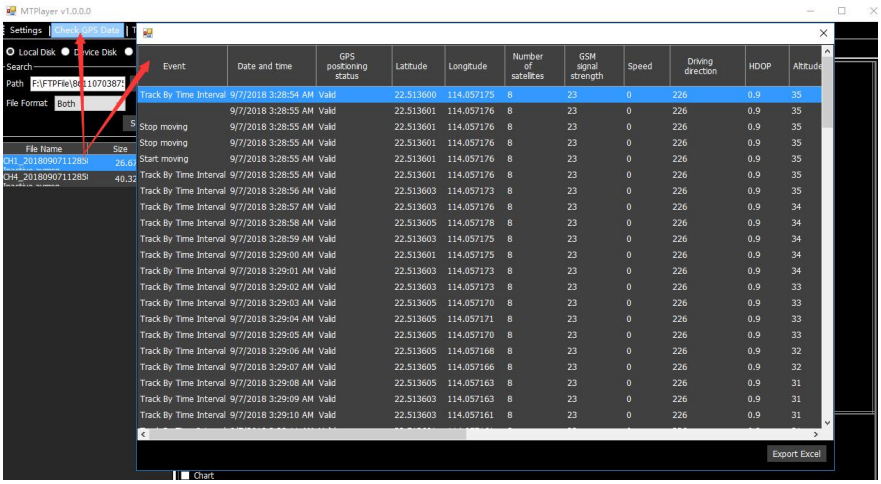
8.3.2 Querying GPS Positioning Data

After selecting a video on the following page, you can obtain the GPS positioning data generated during the video recording and export these data to an Excel file.

Note:

- GPS positioning data cannot be queried while videos are being played. Otherwise, an error warning will pop up.
- Recorded videos support two formats: **.avmsg** and **.mp4**. If you want to read GPS positioning data, you must select a video in **.avmsg** format.



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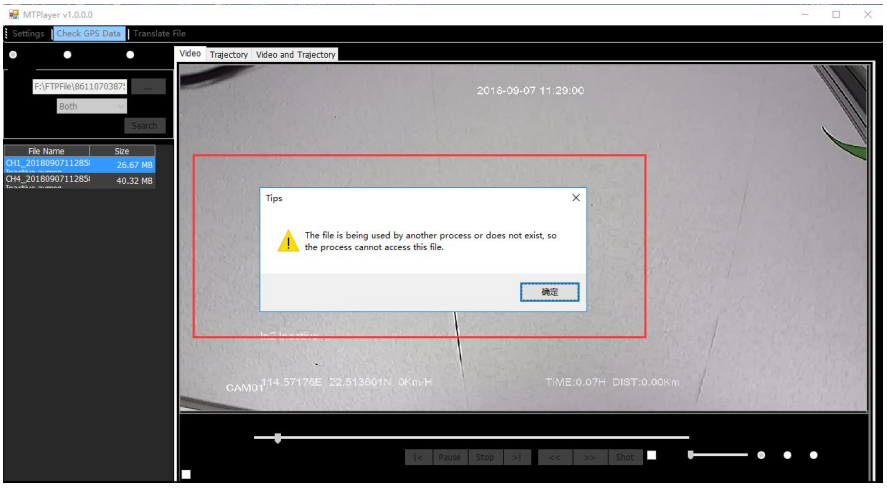

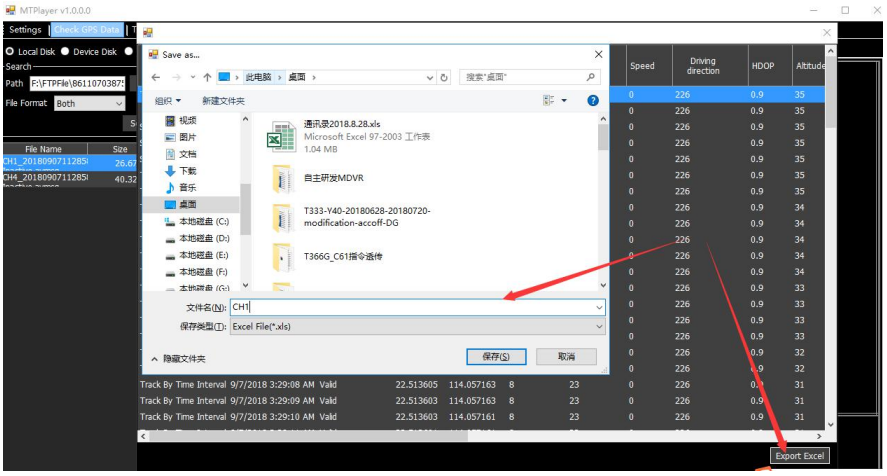

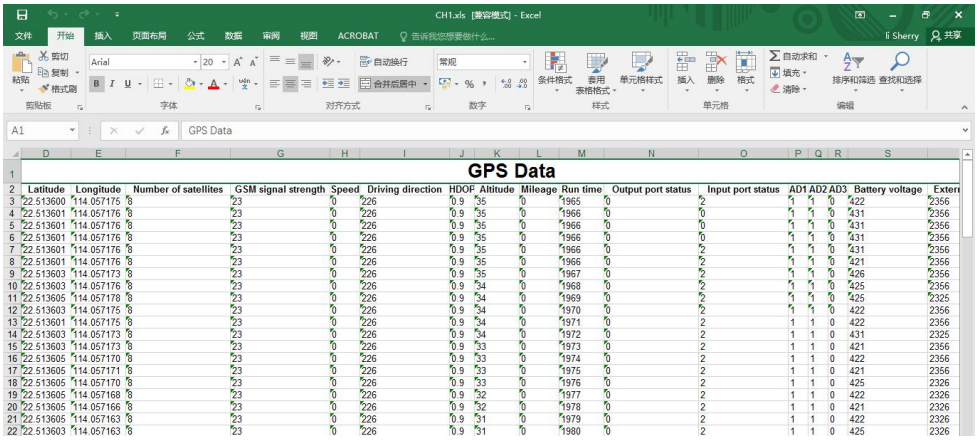

8.3.3 Conversing the Video Format

At present, videos in **.avmsg** format can be conversed to those in **.mp4** format, while videos in **.mp4** format cannot be conversed to those in **.avmsg** format.

Choose **Translate File**. On the **Conversion File** dialog box that is displayed, select the video file to be conversed on **Source File**, set the storage path and file name of the conversed video on **Target File**, and click **Conversion**. After the video format is conversed successfully, the video file name will be displayed on the file list of the left pane.

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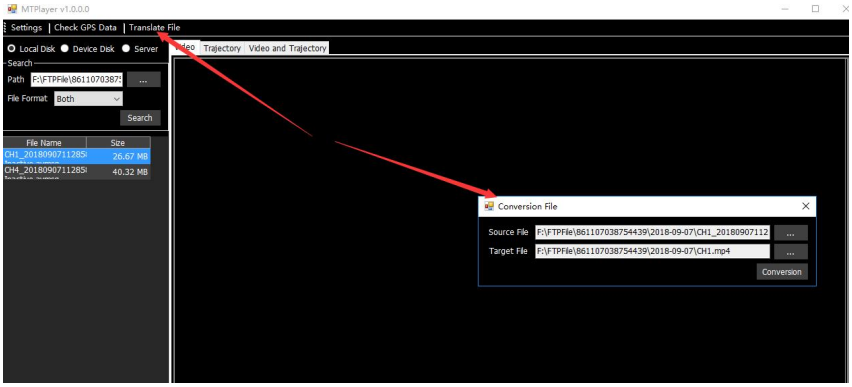
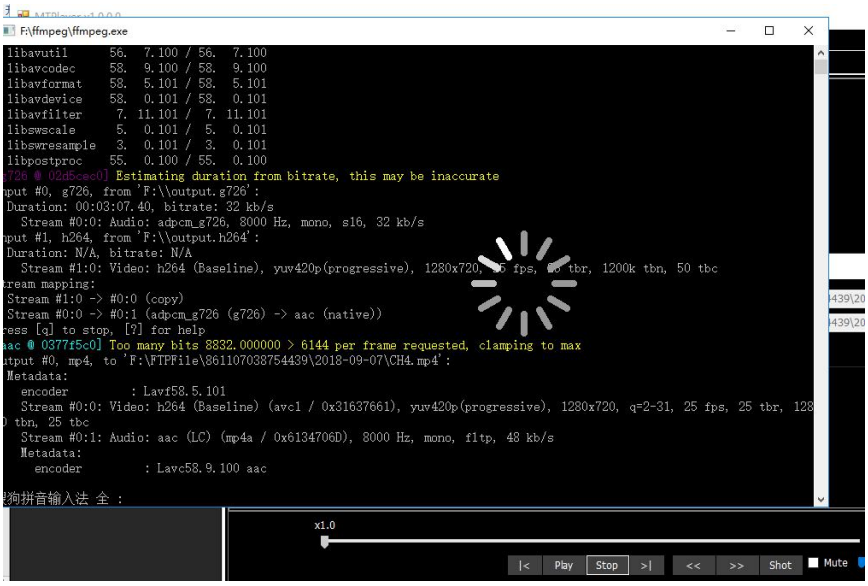
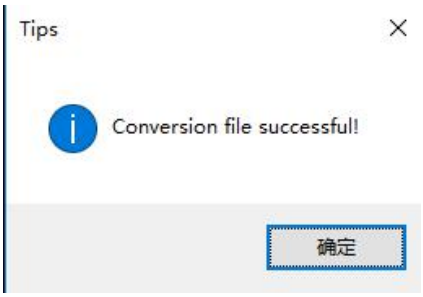
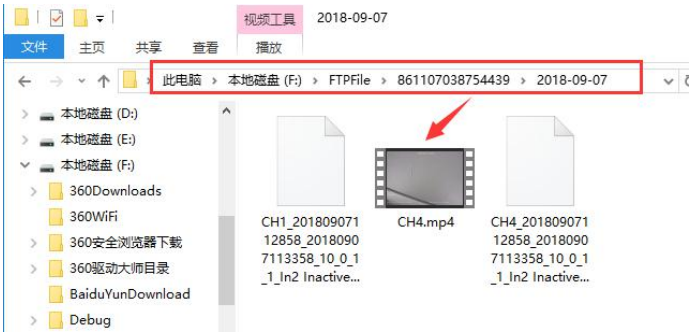






You can find the conversed **.mp4** video file from the following path.



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