

HIKVISION AUSTRALIA PTY LTD



iVMS-5200 Mobile

V1.1.3

Release Note

Sep 2019

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1. Introduction

iVMS-5200 mobile surveillance client is special designed for Hikvision mobile products registering through Ehome protocol, which supports 10 devices for free, and up to 5000 devices can be supported per system. It is capable of managing mobile devices such as Mobile NVR / DVR, Portable PTZ, Bodyworn Camera, G4 Telematics Video Recorder and Intelligent Driving Analysis Terminal. The software supports GPS tracking, live view and playback videos, receiving alarms and event clips viewing BI report and so on.

1.1 Software Downloading

Latest v1.1.3 software can be downloaded from Hikvision Australia Website:

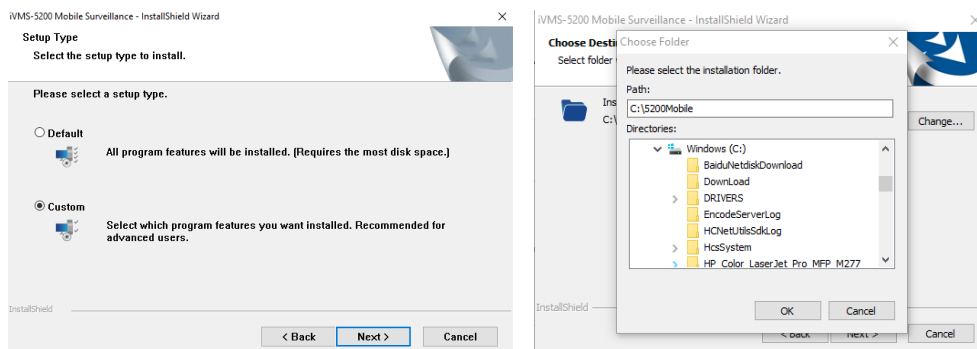
<https://www.hikvision.com/au-en/VMS/Support/Download/iVMS-5200-Mobile-Surveillance>

The software iVMS-5200 Mobile is free of charge for 10 devices. If more than 10 devices connected, additional license fee applies for each additional device.

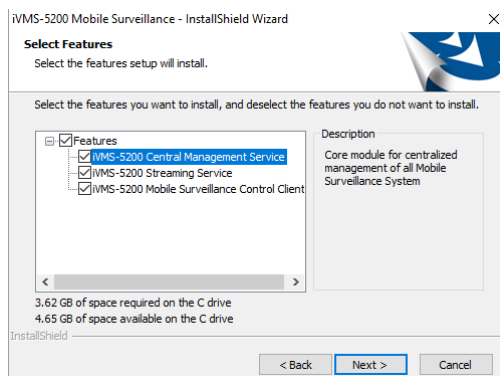
1.2 Server Installation instruction

Make sure the device does not running existing iVMS-5200 Mobile server software, if yes please refer to chapter 1.3. If the device has installed with existing iVMS-5200 Mobile Control Client software, uninstall the software before installing this new version.

- Install the software package, *iVMS-5200_Mobile_V1.1.3_IPM20190429171_20190904*
- Change the default installation location, better change it under C:\5200Mobile\



- Select all three elements

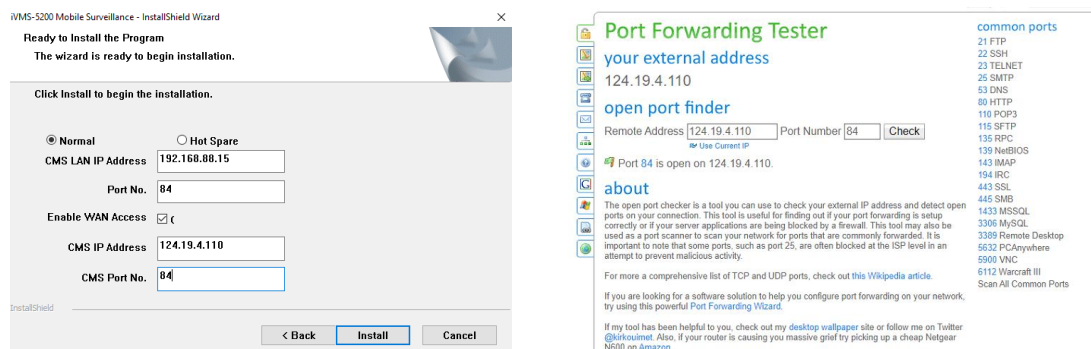


- Select Normal install, Fill in proper IP address information

**Port No. here means HTTP login port, by default it is 80. It is highly recommended to change it, in order to avoid conflict with other applications. In our testing server, we use port 84. Please note the internal HTTP port number must be same with the external port, otherwise the software might not run properly.*

**If you don't know the WAN IP address, please use this website to check:*

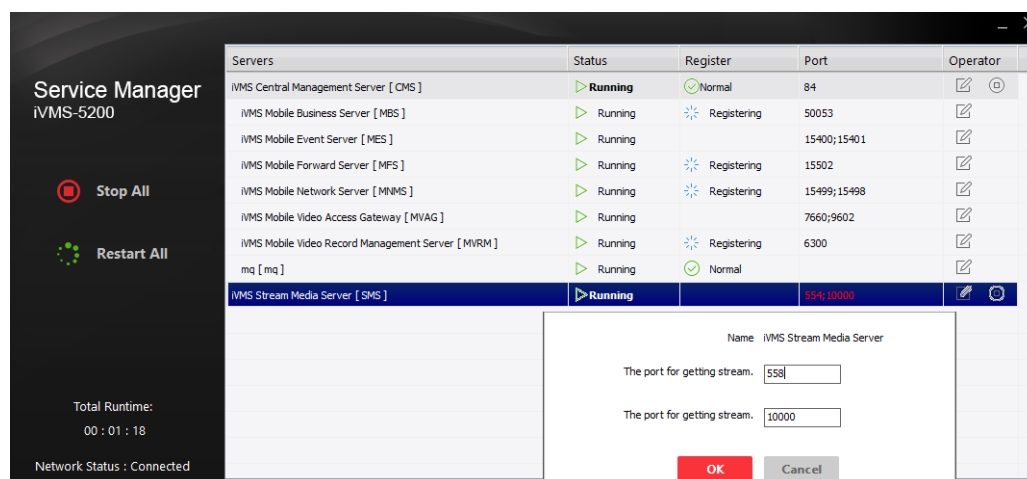
<https://www.yougetsignal.com/tools/open-ports/>. It can also be used as port forwarding tester.



- In the following step, do not select "Modify database password", just click "Next" to complete the installation.

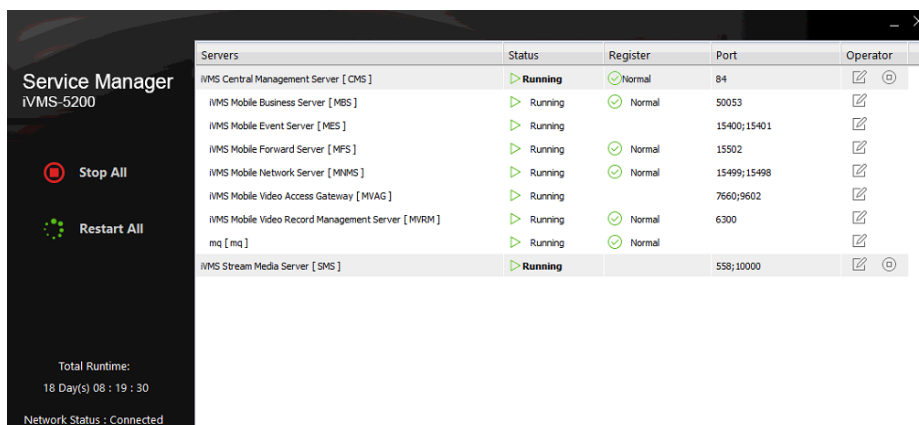


- Change the port "554" to other port to avoid conflict, then click "Stop All" and "Restart All"



- To check whether any ports are being used, you can use CMD command
`Netstat -ano|findstr "port No."`

- All services should be started in 5 minutes, the status of register will change to Normal



1.3 Port forwarding configurations

Since mobile device registration requires WAN access, it requires to forward relevant port from WAN IP address to the LAN IP address. This is to be configured from the internet router. The port to be mapped are listed below. If you changed the local port, it is recommended to change the WAN port to the same number.

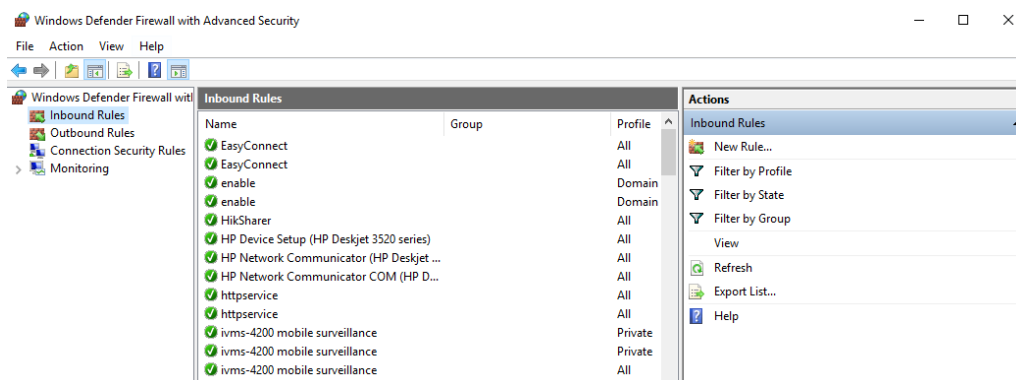
**Please note port number 7660 and 9602 are dedicated for Ehome protocol, they cannot be changed to other number*



Port mapping
list.xlsx

1.4 Firewall configurations

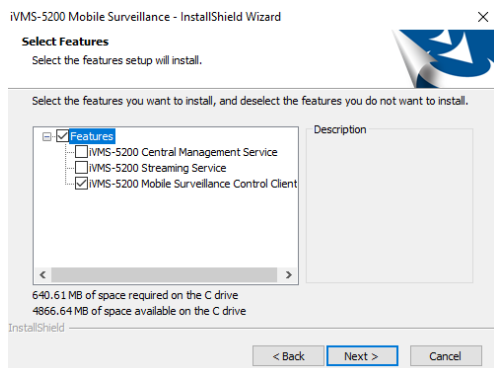
- Go to Firewall settings: Control Panel\All Control Panel Items\Windows Defender Firewall
- In advanced settings, create inbound rules and outbound rules to allow the above ports are opened, so that the services would not be blocked by windows firewall.



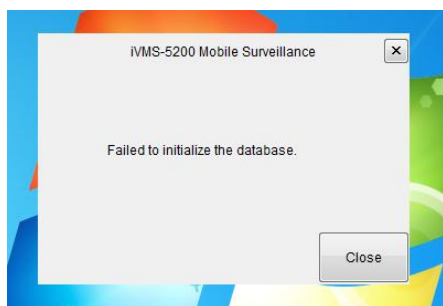
1.5 Control Client Installation instruction

iVMS-5200 Mobile software Control Client can be installed on any PC with internet connection, so you can login to the central server and view the registered devices remotely.

- Use the same software package: [iVMS-5200 Mobile V1.1.3 IPM20190429171 20190904](#)
- Select Custom, and only choose to install the Control Client.



- Right click and use "Administrator permission to open Control Client, otherwise this error may display on screen.



1.6 Update from existing iVMS-5200 Mobile version

- Copy and save the existing License code
- Backup the configuration file and de-active license
- Install new software, activate the license
- On the new software web client, backup the configurations
- Change the old backup file to the same name and same location
- Import the backup file into new platform

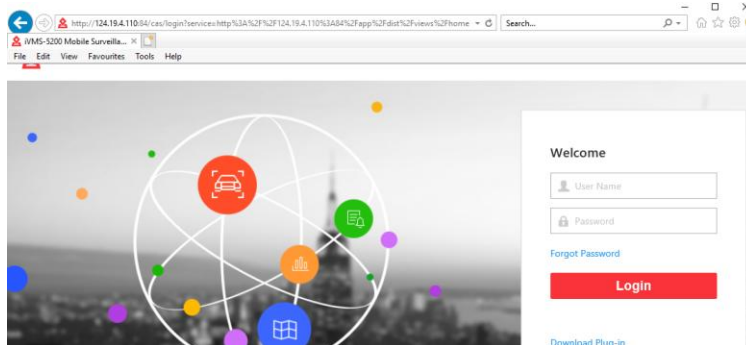
2. iVMS-5200 Mobile Server Operation instruction

2.1 Login to Web Client

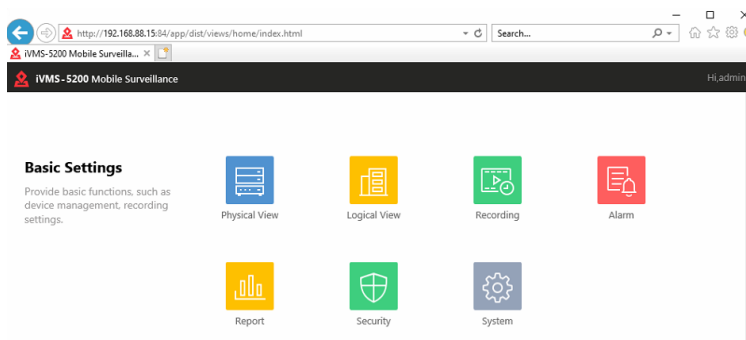
- It is required to use IE browser to login to Web Client. Edge Browser and Chrome, Firefox are not supported.



- It is required to download the Web Component plugin for the first time login.
- For WAN access, use the fixed WAN IP address

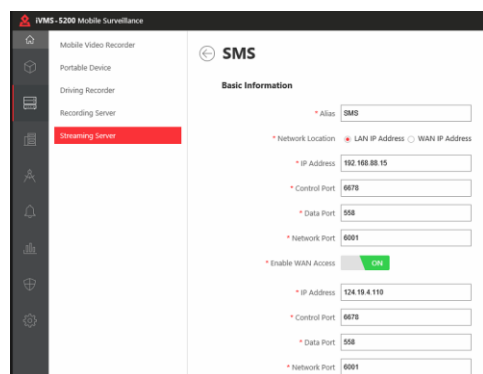


- For internal access, use the LAN IP address

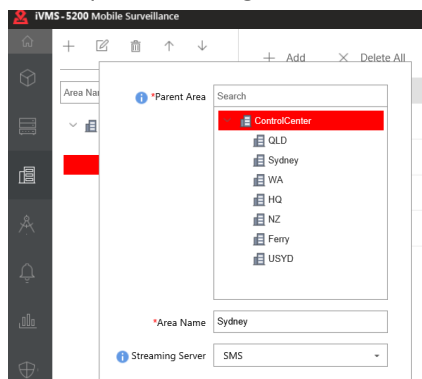


2.2 Create Stream Media Server and Logical Areas

- Create Stream Media Server, Enable both LAN access and WAN access



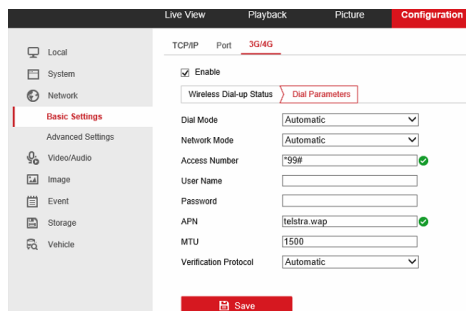
- Under Logical View, create an area
- It is required to assign a Stream Media Server for the area created



2.3 Adding new Mobile Device

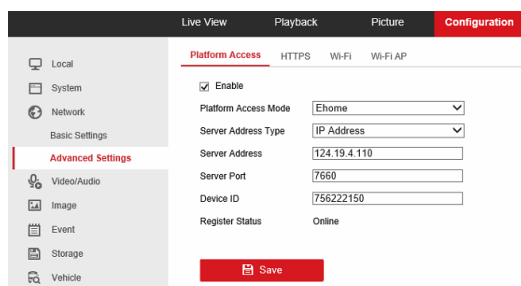
Take mobile NVR as example, use Telstra 4G SIM card for internet connection.

- Login to mobile NVR web client, enable 3G/4G dialing and fill in below information

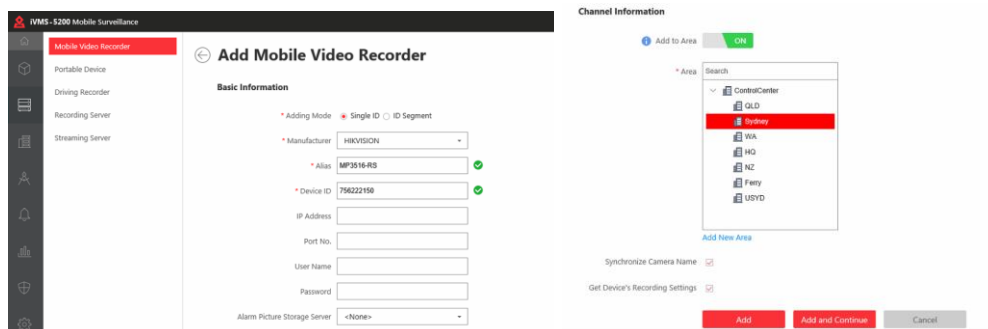


- Enable Platform Access, choose Ehome and fill in the WAN IP and Ehome port, which is 7660

**Please note the Device ID is recommended to be set as same as the Serial No.*



- Make sure device Time is synchronized with local time
- Adding device into Physical View



2.4 Alarm configurations

- Configure Email Template

**To configure Email notification, you should have a Gmail account, and create an APP password:*

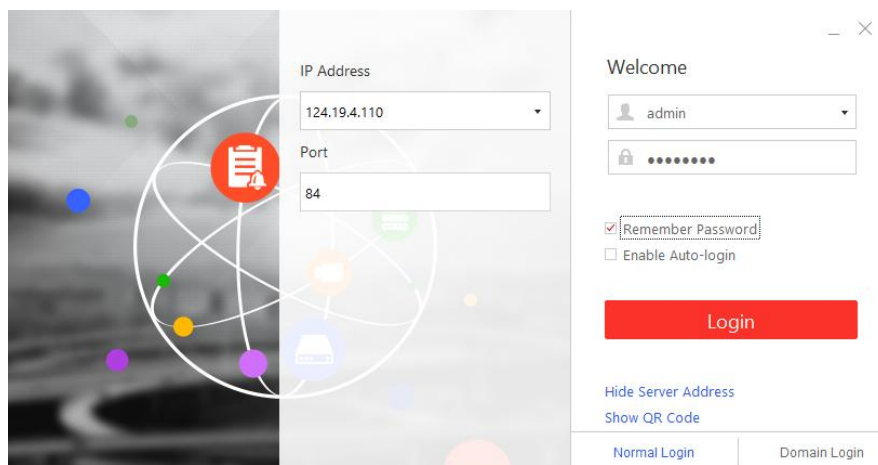


How to enable
the App password

- Create Alarm notification

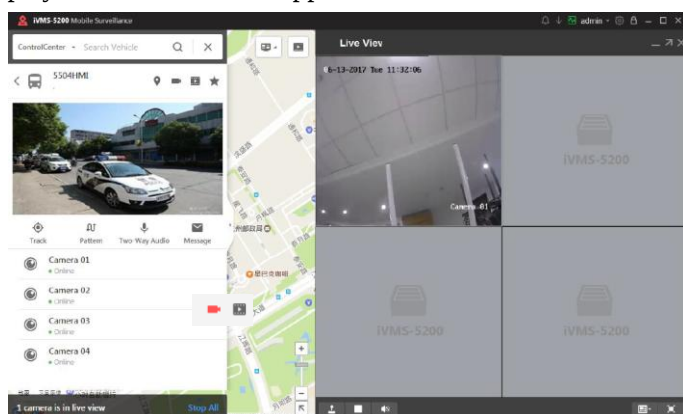
3. iVMS-5200 Mobile Control Client Operation instruction

3.1 Open the Control Client software, Login to IVMS-5200 Mobile Server



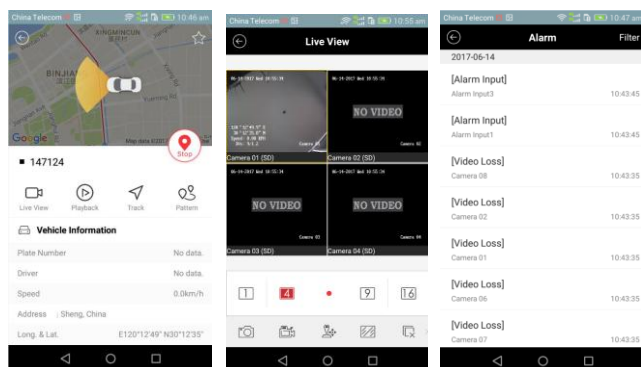
3.2 Control Client PC software Operations

GPS tracking, GPS pattern playback, Two Way Audio intercom, alarm notification, video live view / playback functions are supported on Control Client software



3.3 Mobile APP operations

The software iVMS-5260M could be downloaded from IOS store and Google APP store.



4. Version V1.1.3 updates

4.1 G4 (TVR) Telematics Video Recorder supported

- Scan QR code to Download G4 TVR APP and parameter configurations



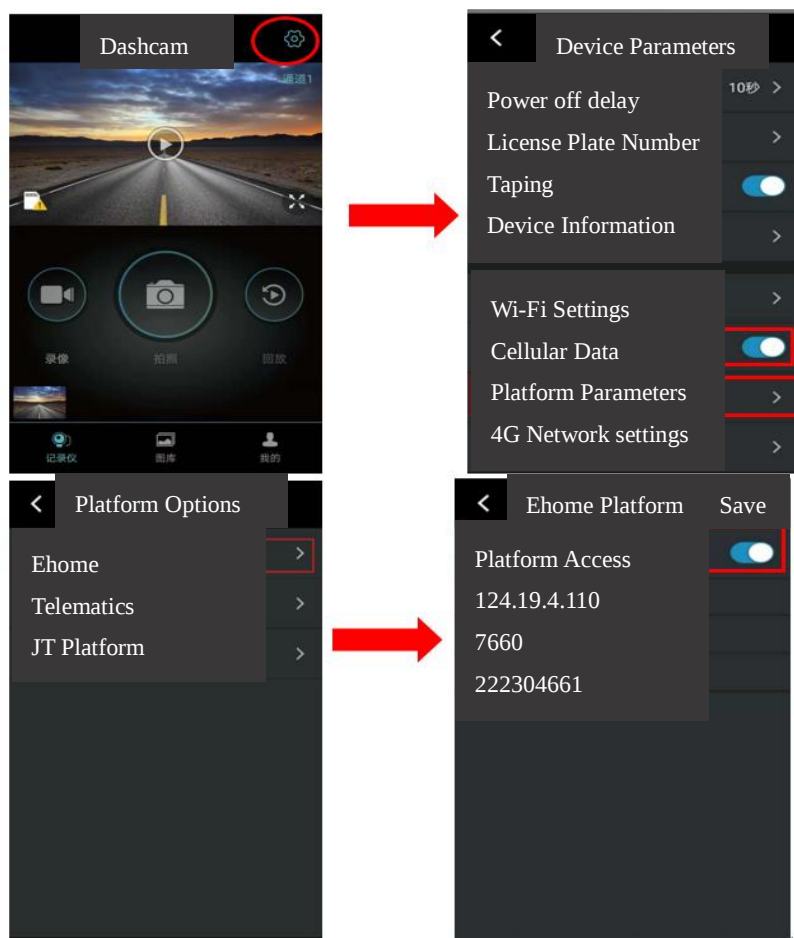
android



ios

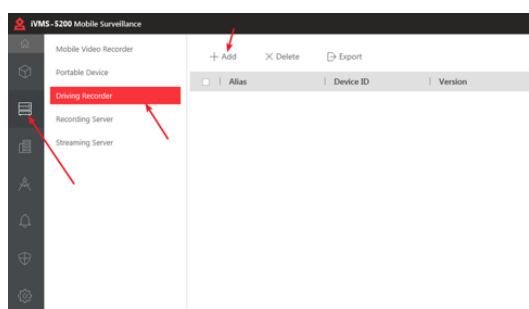
Connect DC12V power into the device, Yellow wire is ACC, Ignition signal. Connect the DBA (Driving behavior analysis camera ( to TVI1(DBA), Power up the device, Press the WIFI button on G4 ( TVR, switch on the WIFI hotspot.

On Mobile phone, Connect with the WIFI named as“HIKVISION-G4-XXXX”, then open the Dashcam APP, click the setting button on Right top corner, enable Ehome and setup platform IP.

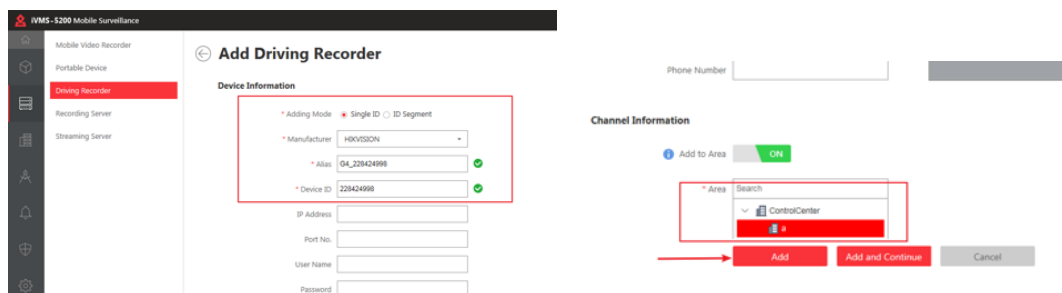


- Adding G4 TVR into IVMS-5200 Mobile Platform

Login to web client, Enter Physical View, choose DrivingRecorder tab, Then click “Add”



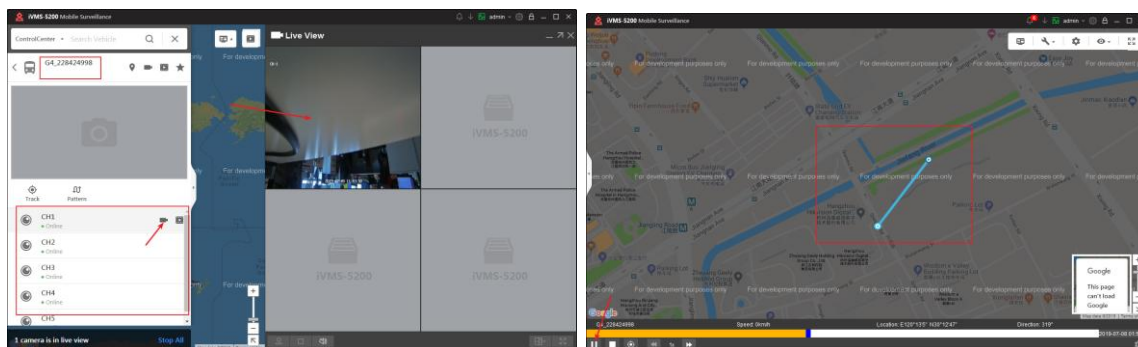
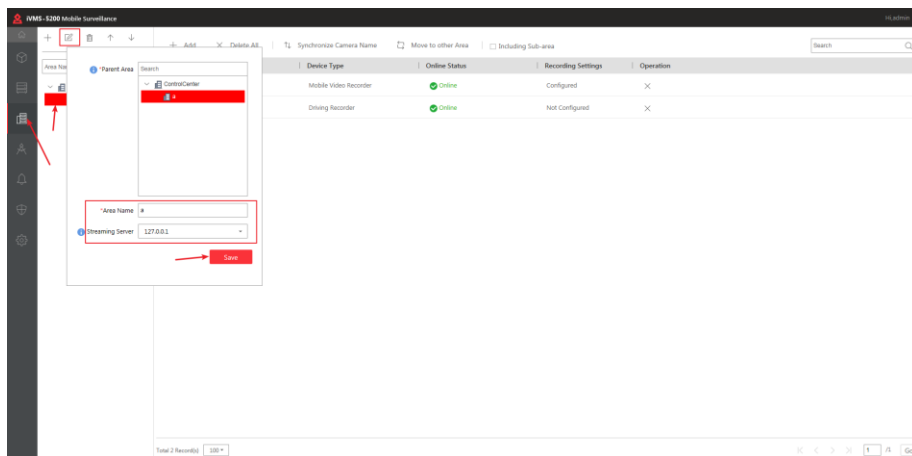
Enter device information and choose a logical area to add the device in.



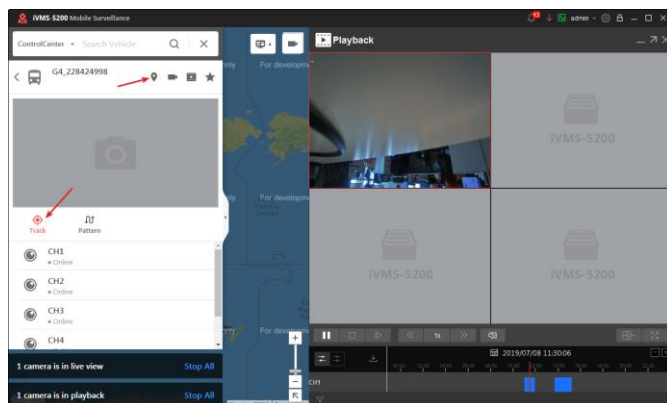
- Control Client functions for G4 Dashcam: Live view、Playback、GPS Tracking、Trace playback,

Alarm notification

**It is required to assign a Stream Media Server for each Logical View*



**G4 is restricted for one channel playback only because of bandwidth limitation*

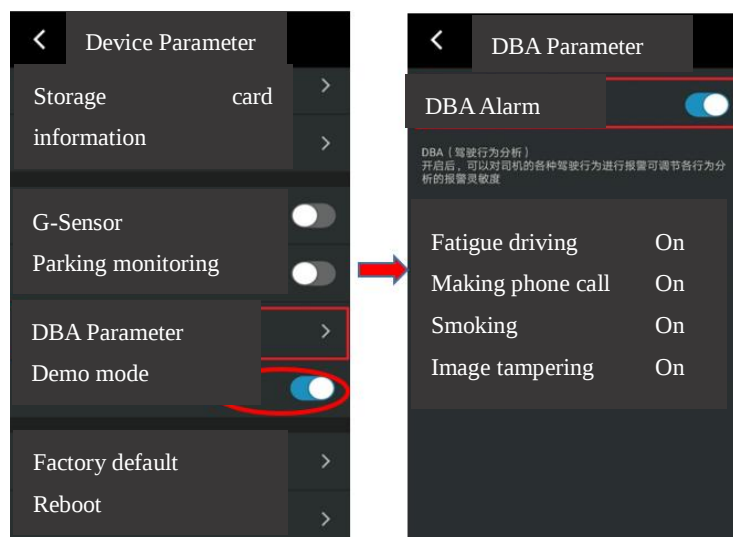


4.2 G4 TVR Driving Behavior alarms and G-sensor Crash alarm

- G4 Dashcam Mobile APP settings

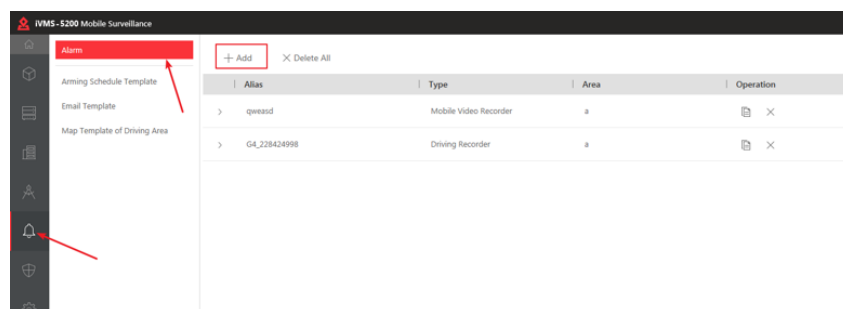
Connect to G4 TVR, Enable DBA analysis

**When doing static testing, please enable demo mode. The real DBA analysis only switched on when driving speed over certain threshold (15km/h by default).*

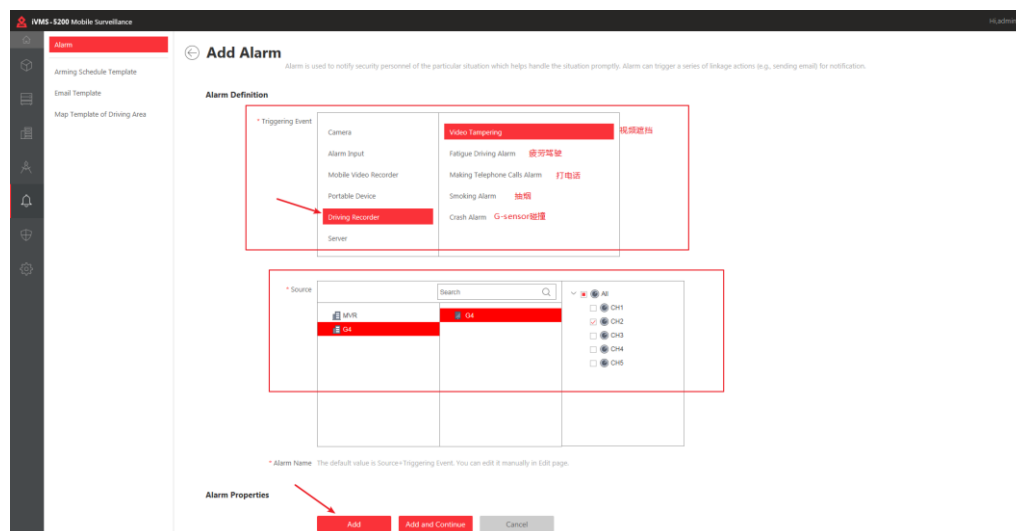


- Platform settings for G4 TVR Alarms

Login to IVMS-5200 Mobile web client, enter Alarm page



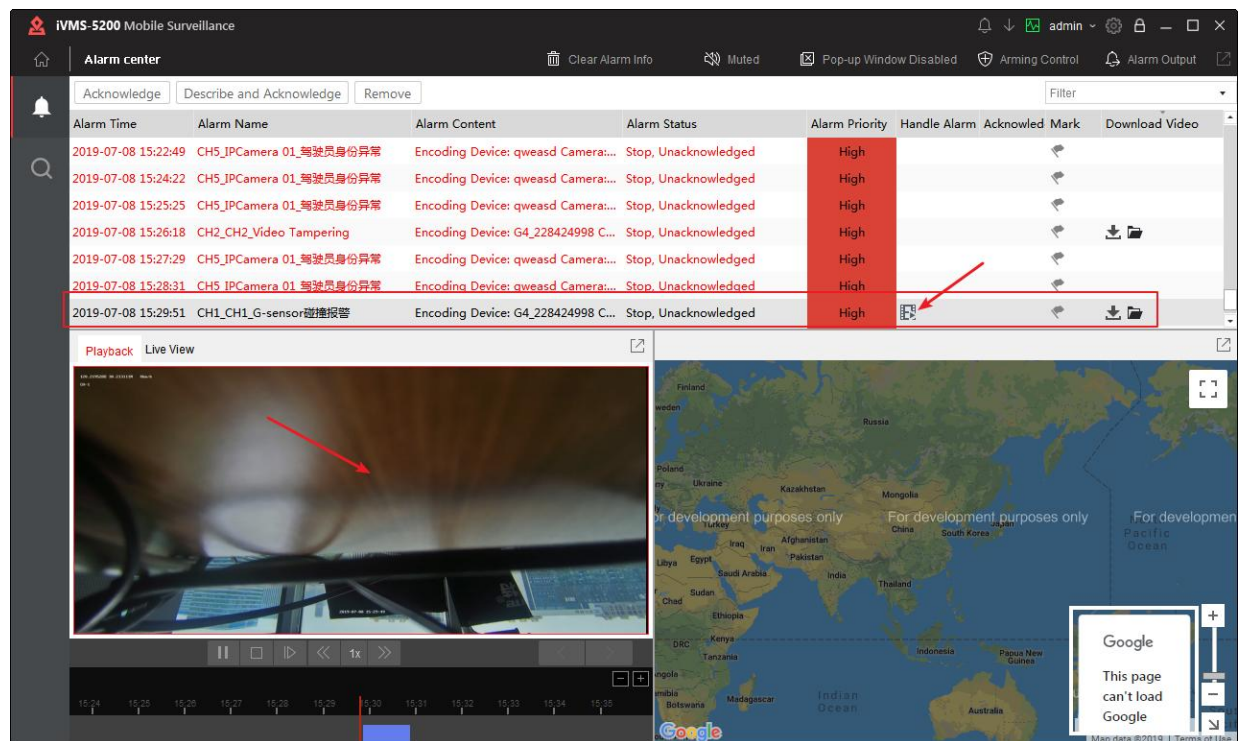
Choose Driving Recorder, Select the alarm types, and linkage channels



- Viewing G4 TVR real-time alarms on Control Client

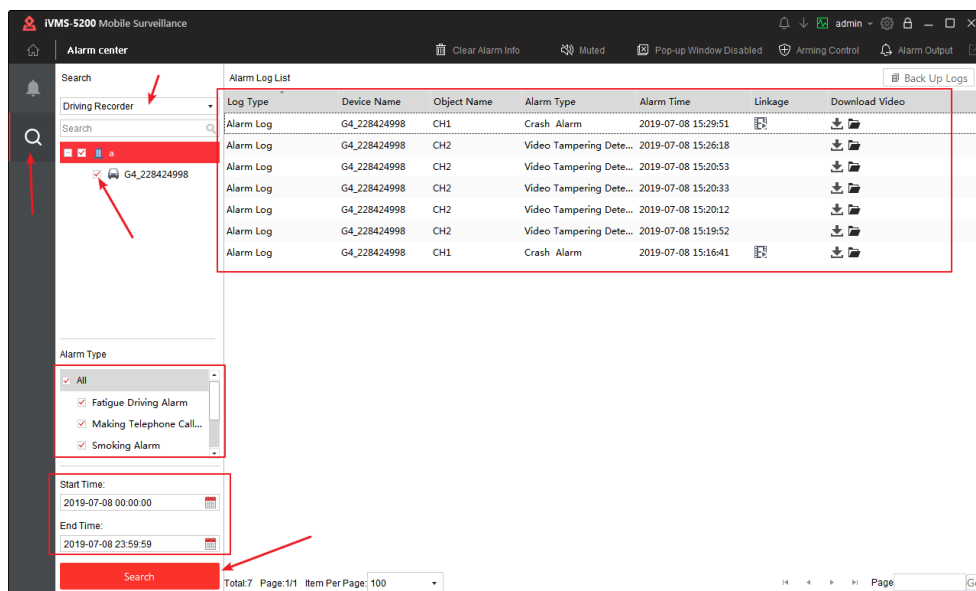
Trigger the configured alarms, then on Control Client, you will receive alarms from G4 TVR

For crash alarm, click on playback button on “Handle Alarm” area, then start video playback, GPS location is also showing on the map.



- Control Client search for history alarms

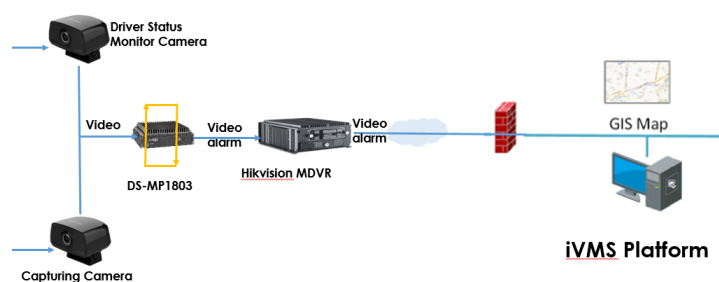
In Control Client alarm Center, under search tab, select the Alarm category, select device and detailed alarm type. Set the alarm period then click search to export the result. Under Linkage tab, you can playback event linked videos, you can manually download video if it has not been downloaded before. Click folder button to open the file storage location



4.3 MP1803 Intelligent Terminal Supported

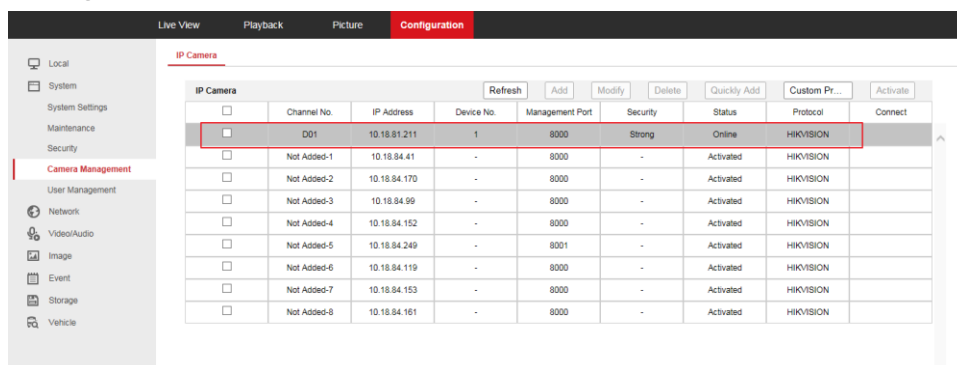
- MP1803 Intelligent Terminal Introduction

The Intelligent Analyser DS-MP1803 can be used to detect driver behaviours such as Using Mobile phone, Smoking, Fatigue Driving and Distraction. It is also being able to count flow. Facial recognition is also available by customisation. The system is based on PERCLOS algorithm – Perception of Eye closure. System structure is as below:



- MP1803 device settings

IPC supports up to 3 IPC, IPC 1 is used as Driving behavior analysis. IPC 2 and IPC 3 can be used as people counting camera. Now add one camera into MP1803:



Under Driving Behaviors page, set the alarm you want to trigger

Driving Behaviors IPC Position Calibration

Channel No. IP Camera1

☐ Distraction Reminding Detection
Alarm Time(s) 10

☒ Fatigue Driving Detection
Alarm Time(s) 5

☐ On-the-Phone Detection
Alarm Time(s) 3

Confidence Interval 9

☐ Smoking Detection
Alarm Time(s) 2

Confidence Interval 8

☐ Seat Belt Detection
Alarm Time(s) 10

☐ Yawning Detection
Alarm Time(s) 1

☐ Driver Exception Detection
Alarm Time(s) 4

☐ Stop Detections when Driving in Low-Speed
Value of Low-Speed 20

☐ Voice Alarm

Advanced

Distraction Reminding (Looki... 35

Distraction Reminding (Looki... 30

Scaling Value of Upper and L... 7

Squinting Alarm Trigger Thre... 50

Closing Eyes Alarm Trigger T... 20

On-the-Phone Alarm Trigger... 90

Smoking Alarm Trigger Thres... 50

Continuous Alarm Filter Time... 10 Min(s)

Default

In MVR web client, under Smart Terminal Access page, enable Smart Terminal and configure the device information properly.

Live View **Playback** **Picture** **Configuration**

Start Position Settings G-Sensor Sensor-In Storage For Calamity **Smart Terminal Access**

Smart Terminal Access

Enable ☒

Server Address 10.16.81.222

Server Port 8000

User Name admin

Password *****

Confirm *****

Connect Status Connection succeeded

Save

- Add pStor as recording Server

pStor can be used as picture storage server. If no alarm picture storage server, then when receives alarm from MP1803, it cannot display alarm pictures.

IVMS-1200 Mobile Surveillance

Mobile Video Recorder
Portable Device
Driving Recorder
Recording Server
Streaming Server

Add Recording Server

Basic Information

* Alias pstor ✓

* User Name admin ✓

* Password ***** ✓
Strong

* Server Type ☐ CVR ☒ PCNVR

* Network Location ☒ LAN IP Address ☐ WAN IP Address

* IP Address 10.19.84.23 ✓

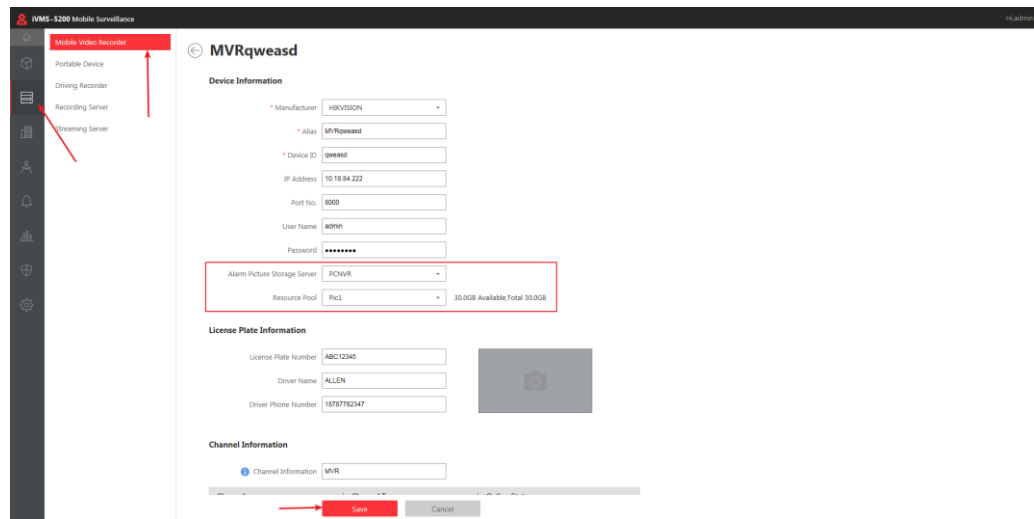
* Control Port 8021

* Network Port 8080

* Enable WAN Access ☐ OFF

Add **Cancel**

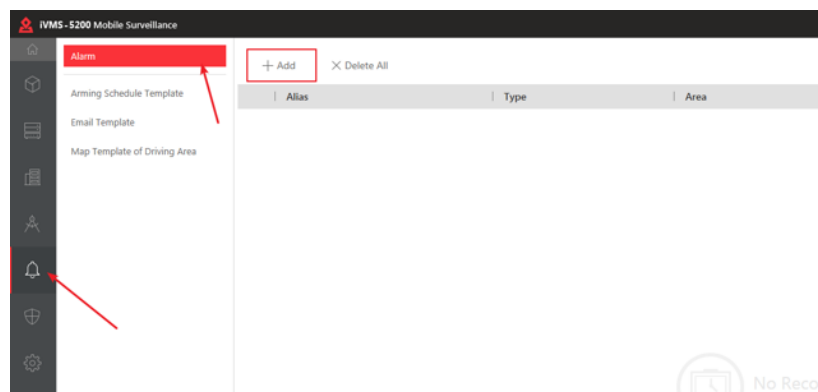
After adding pStor into platform, assign the PCNVR as Alarm Picture Storage Server, and select resource pool.



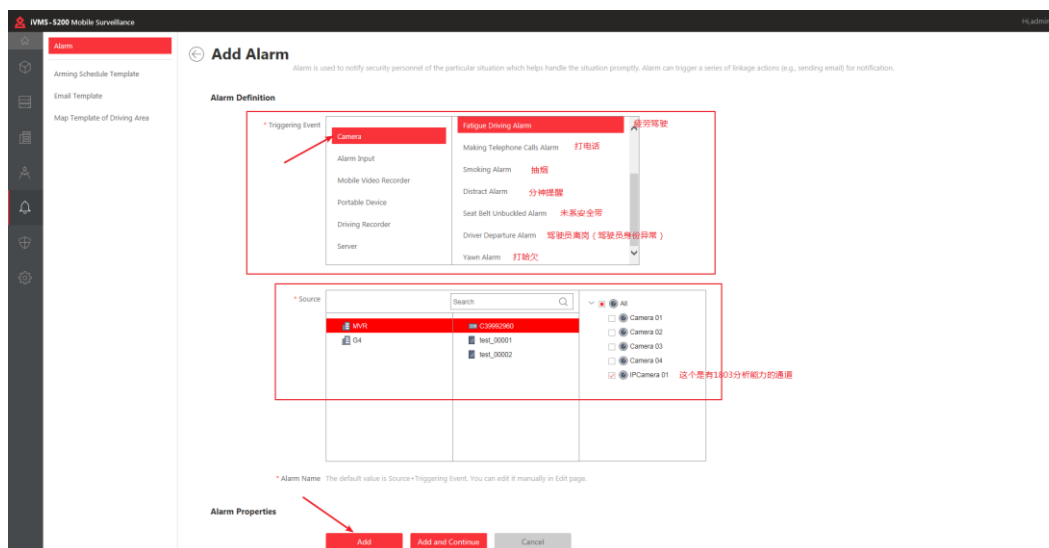
4.4 MP1803 Driving exception alarms

- Create alarms on Platform web client

Login to platform web client, under Alarm tab, click add to create driving exception alarms

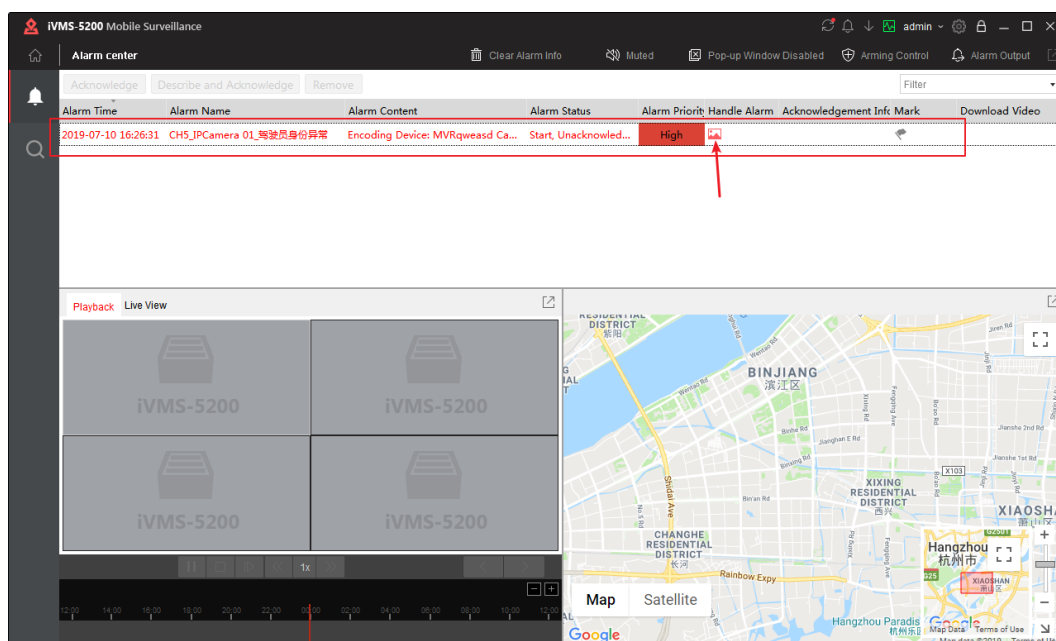


Choose the channel with MP1803 Driving Analysis capacity



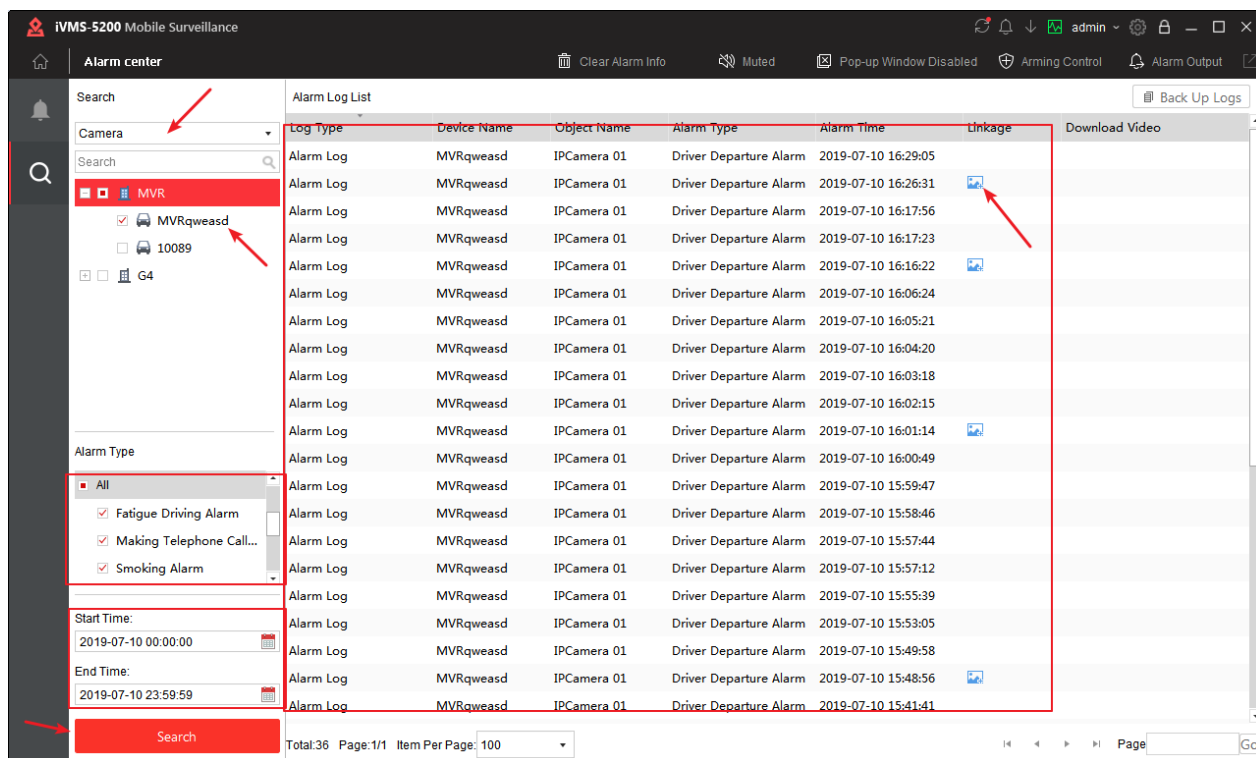
- Receiving Driving Exception alarms on Control client

After trigger MP1803 alarm, under Handle Alarm area, you can click to show alarm picture



- Control Client search for history alarms

In Control Client alarm Center, under search tab, select the Alarm category, select device and detailed alarm type. Set the alarm period then click search to export the result. Under Linkage tab, you can playback event linked videos, you can manually download video if it has not been downloaded before. Click folder button to open the file storage location

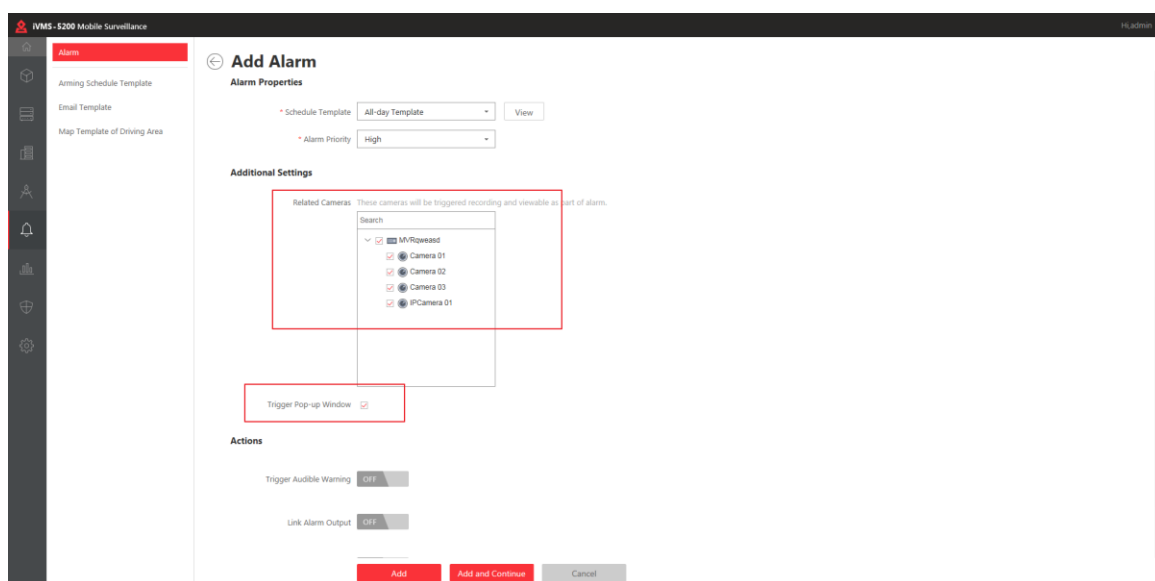


4.5 Event Video Automatic Download

- Configure alarm related cameras

When creating alarms on web client, Trigger Pop-up Window must be selected, Then when event triggered the linked video can be downloaded automatically. Alarm videos can be searched from history alarm list.

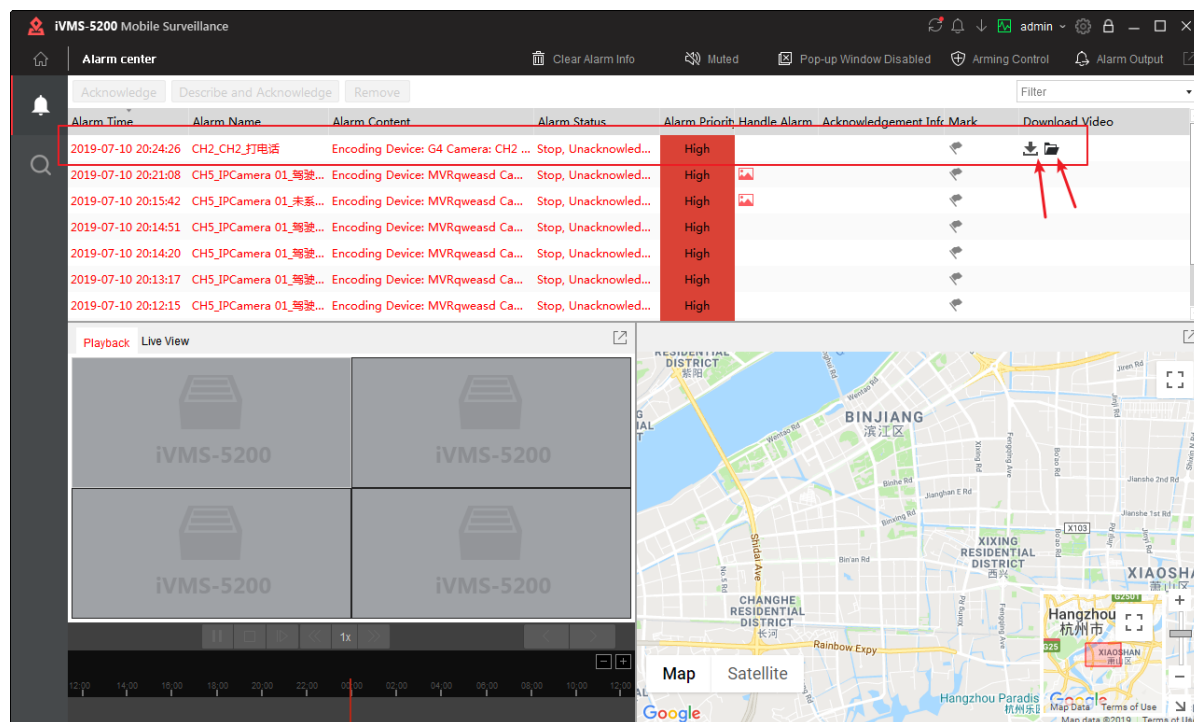
**Only if the channel being configured with recording schedule can be selected as related camera*



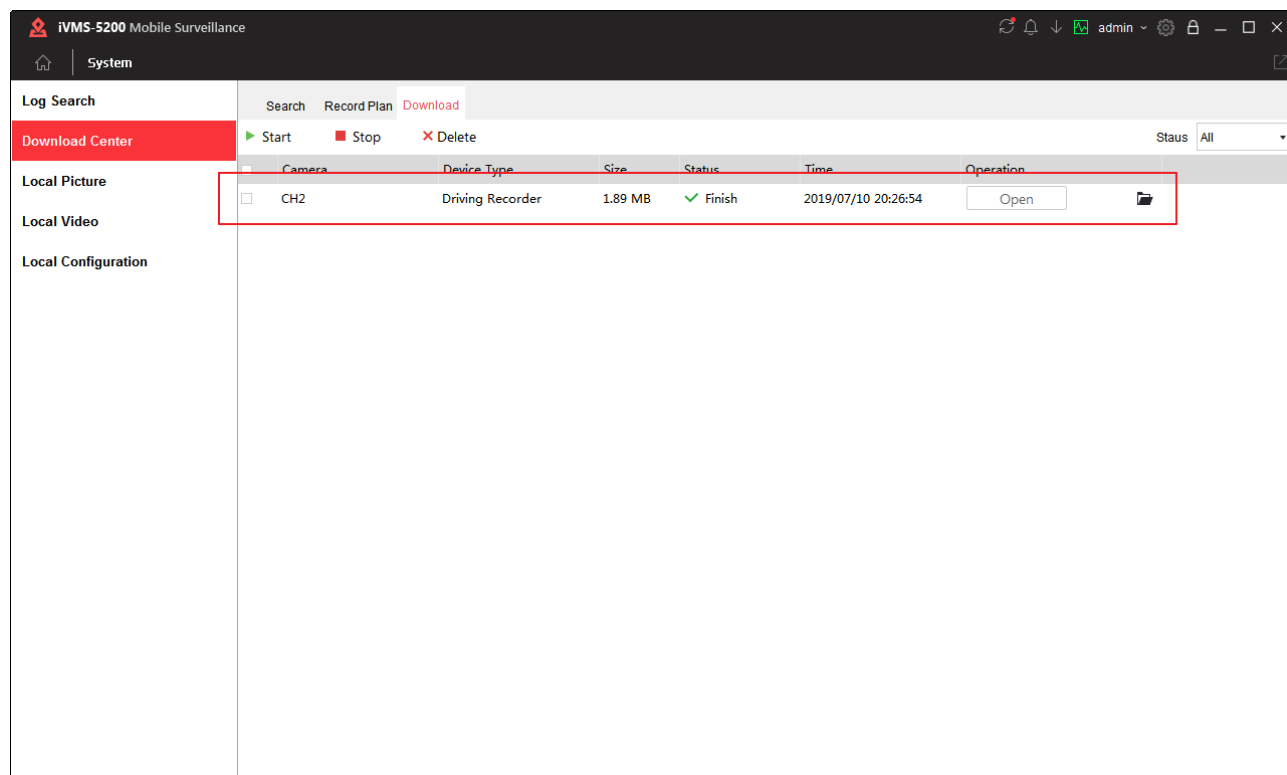
- Control Client real-time alarm automatic download

After creating alarm in Web Client and selecting “Trigger Pop-up Window”, Control Client will automatically download event video after receiving alarms. Under “Download Video” area, you can

manually re-download the video or opening file location.

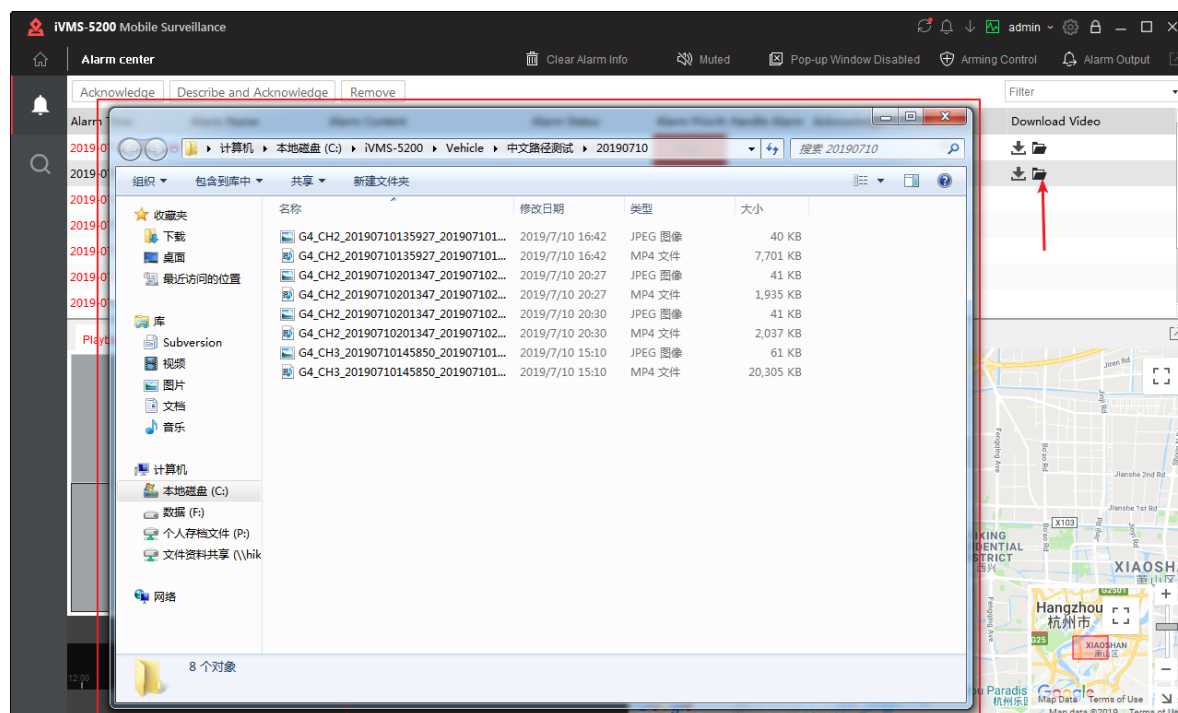


After triggering alarm, download center will show event video downloading status



- Open Event recording file saving location

Click the folder button under “Download Video” Column, windows will open the file saving folder and alarm videos and pictures will display in the folder

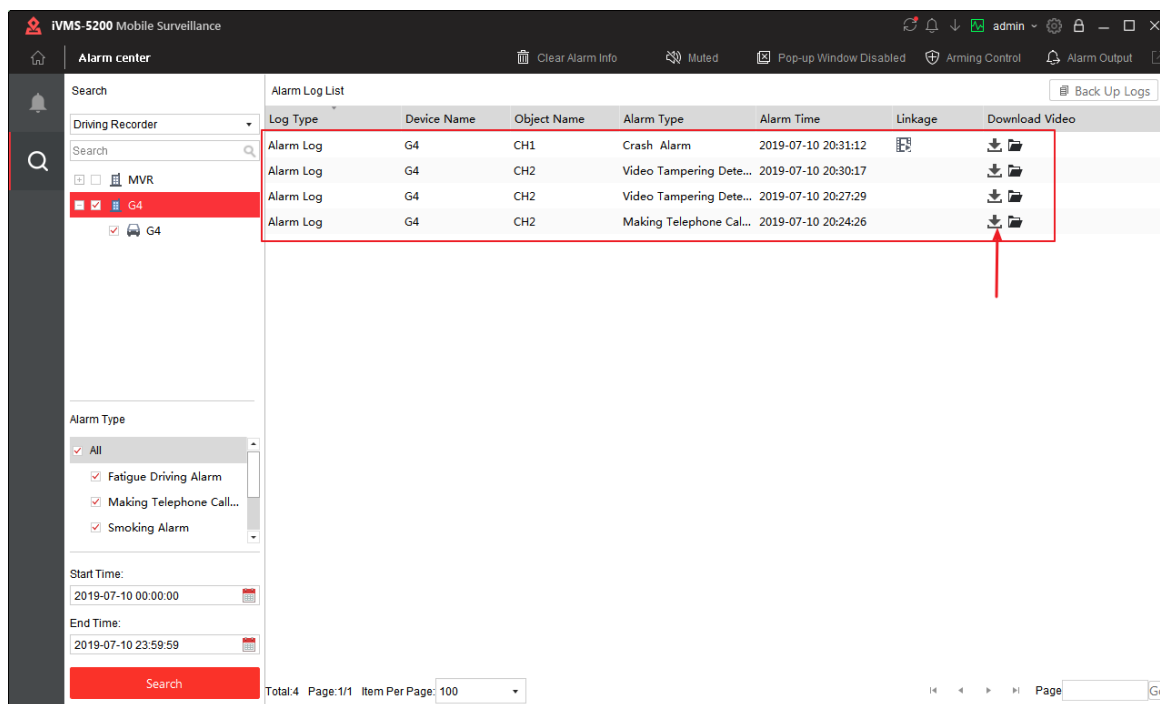


If the video did not successfully download, there will be a notification shows no video found. You can manually click download button to re-download the event video.

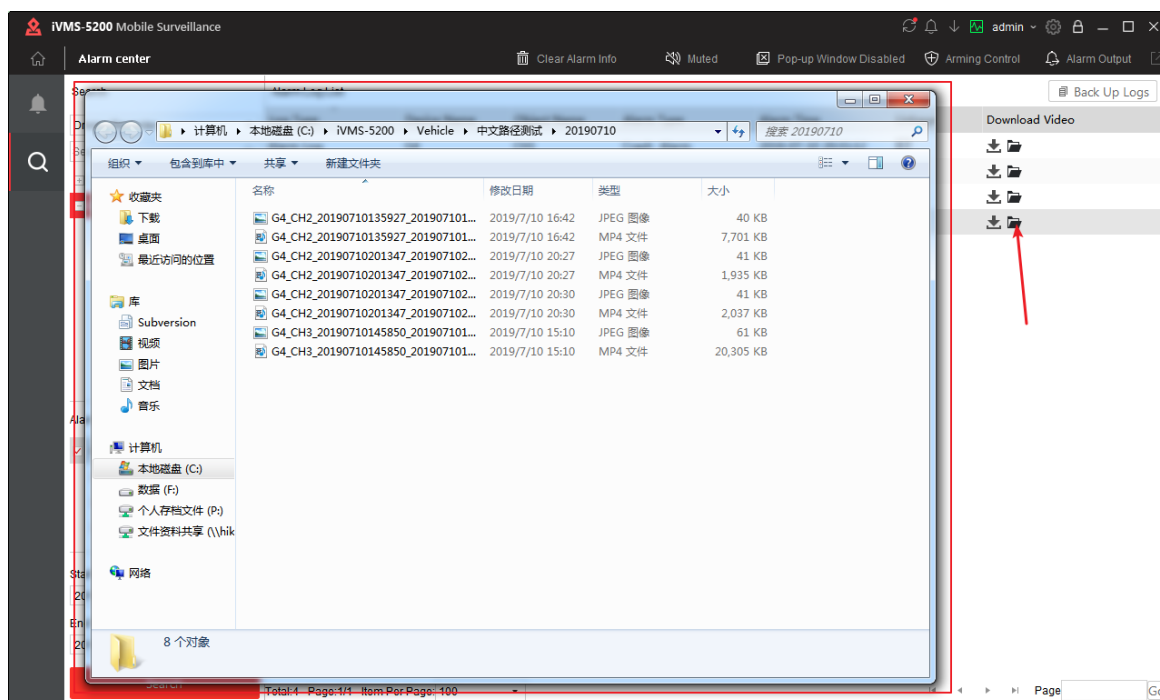
4.6 Search Alarm History for Event Videos

- Control Client search for history alarms

In Control Client alarm Center, under search tab, select the Alarm category, select device and detailed alarm type. Set the alarm period then click search to export the result. Under Linkage tab, you can playback event linked videos, you can manually download video if it has not been downloaded before.



- Click folder button to open the file storage location



If the video did not successfully download, there will be a notification shows no video found. You can manually click download button to re-download the event video.

4.7 Control Client video backup via Wi-Fi

- Adding Record Plan under Control Client – Download Center

Select Mobile device, backup channels, download time, then click add so that the device will automatically backup recording files to the control client PC.

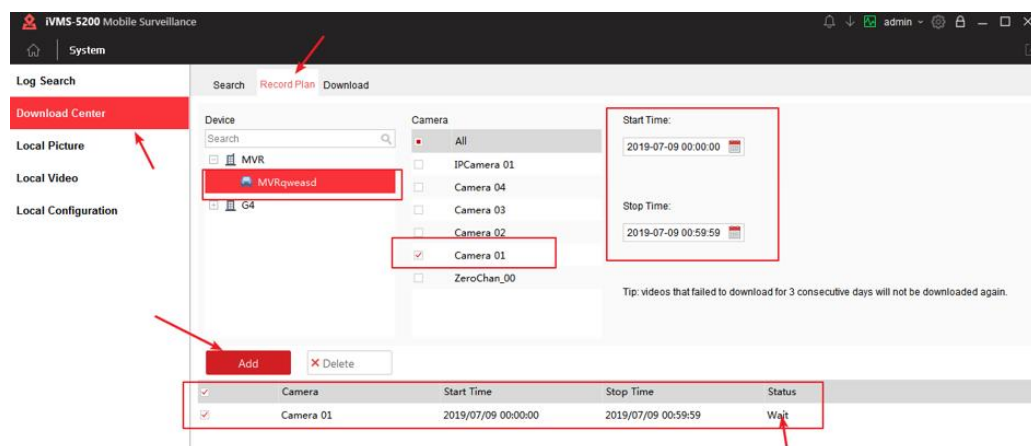
**After adding Record Plan, status will change to Wait, after 1 minute the task will start*

If device offline, after few minutes the status will change to **Search Failed*

If no video in pre-defined period, status will change to **Searching*

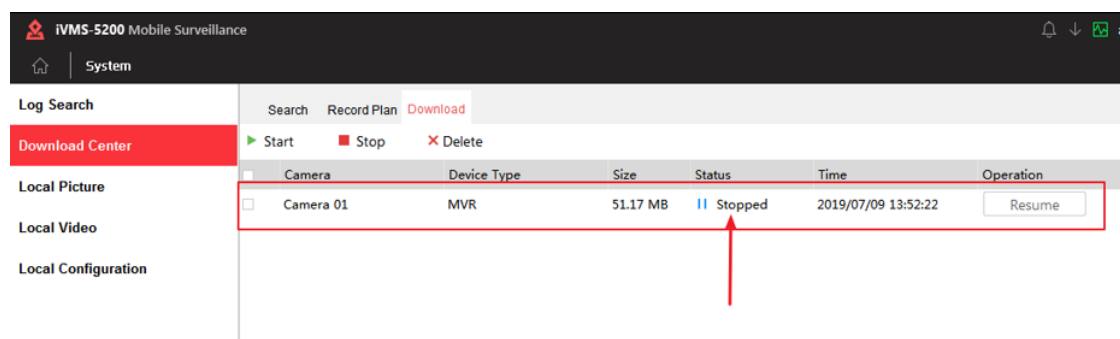
If videos are detected, then status will be changed to **executed, download task appears in download center*

**If control client is stopped before finish, downloading task is paused and will continue after control client login again*



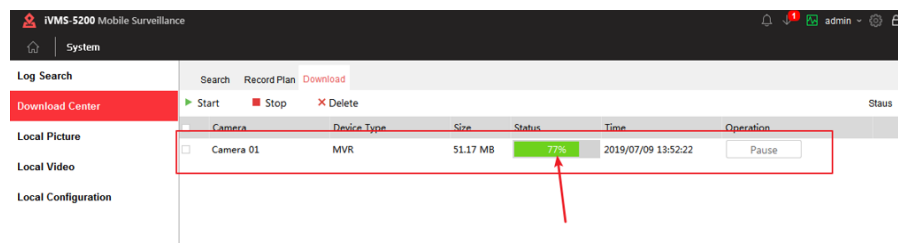
- Do not start Record Plan task in 4G connection mode

When the device under 4G connection mode, if videos are successfully detected, status will be changed to Stopped. Only if the device connected via Wi-Fi then start downloading automatically.



Wi-Fi download device must be configured with static IP address. If not then download tasks will be executed under both 4G and Wi-Fi mode.

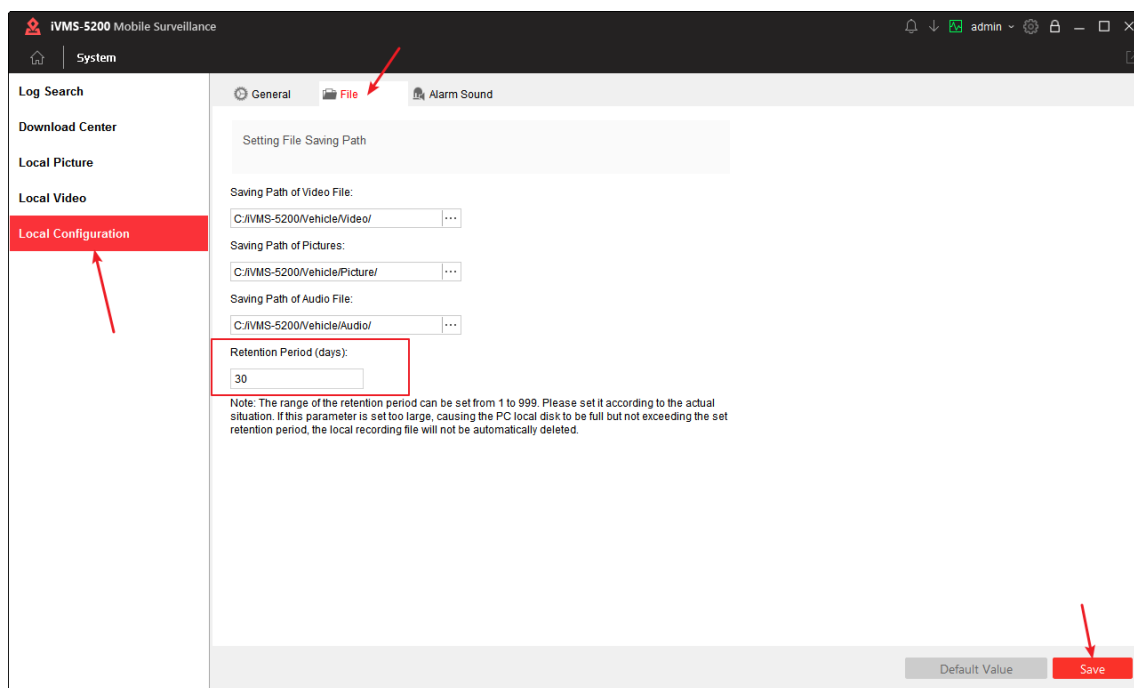
**Control Client must be able to ping the Wi-Fi IP address, when device connected to Wi-Fi, Control Client then detects the device and able to download using local SDK transmission protocol.*



4.8 Video Storage Retention Period

- Configure local storage Retention Period in Control Client

Control Client – System – Local Configuration, retention period is set to 30 days by default. It can be changed to 1-999



- Automatically deletion of local video files

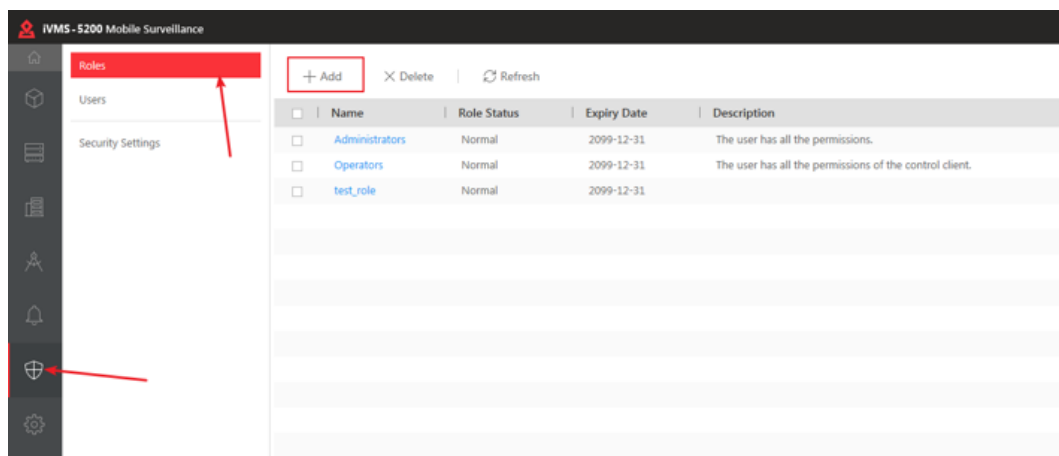
If the Control client software opens 24 hours then it search for expired data on 00:00 every day, After reboot, it also searches for expired files immediately.

**Control Client will not delete stored files if they are not expired. Please set the retention period properly.*

4.9 Updates of User Permission Settings

- Adding new Role

Web Client – Security - Roles



Fill in the Role Name, and select proper user rights

Add Role

Basic Information

* Role Name: ✓

Copy from:

Expiry Date:

Description:

Permission Settings

* Permission: ☐ Configuration and Control ☒ Resource

Select Resources: ☒ Mobile Video Recorder

Select Permission: ☒ Live View ☐ Manual Recording ☐ Remote Playback ☐ Download Remote Record File(s) ☐ Two-way Audio ☐ Capture ☐ Search Log ☐ Remote Configuration ☐ Broadcast ☐ Alarm Output Control ☐ History Playback

Add **Add and Continue** **Cancel**

- Adding new User

Web Client – Security - Users

Users

+ Add **×** Delete **⚙** Import Domain User **⏸** Force Logout **⌂** Live View Duration Reminding **↻** Refresh

☐	Name	User Type	Role	Login Status	Expiry Date	User Status	Live View Duration Reminding
☐	admin	Administrator	Administrators	Online	2099-12-31	Normal	No Limit

Assign a role to this user. Default password is 12345

**The new user need to login to Web Client first to change the password, before it allowed to login to Control Client*

Add User

Basic Information

* User Name: ✓

* Password:

* Expiry Date:

User Status: ☒ Normal ☐ Freeze

Description:

Permission

* PTZ Control Permission:

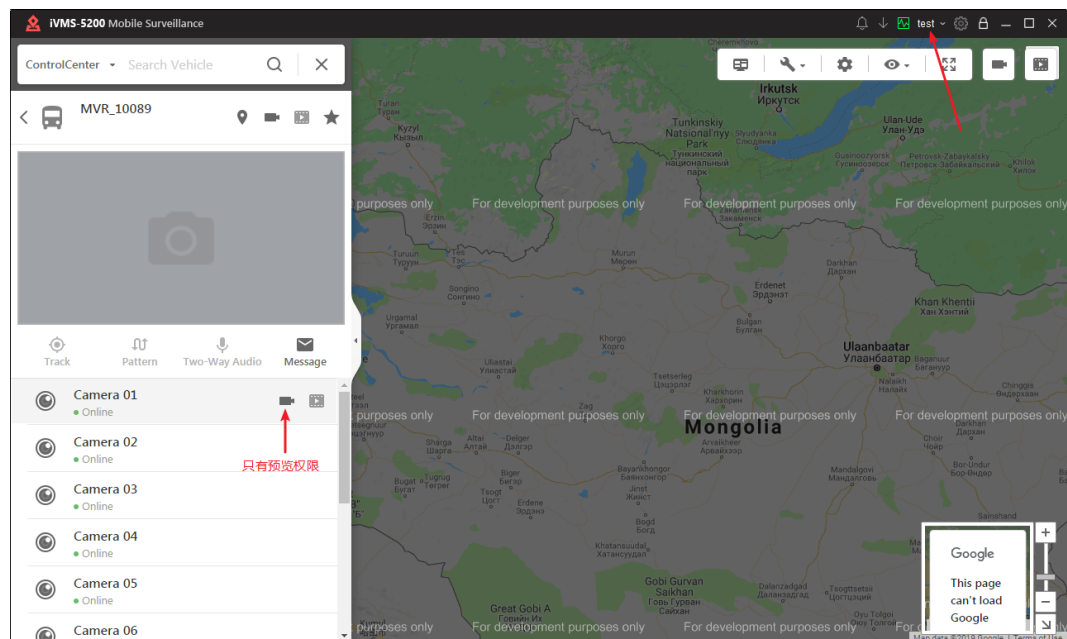
* Live View Duration Reminding:

* Assign Role: ☒ Administrators ☐ Operators ☒ test_role

Add **Add and Continue** **Cancel**

- Hide non-related devices on client software

You can only access the devices with pre-defined permissions, devices not assigned to this user are not showing on the device list.



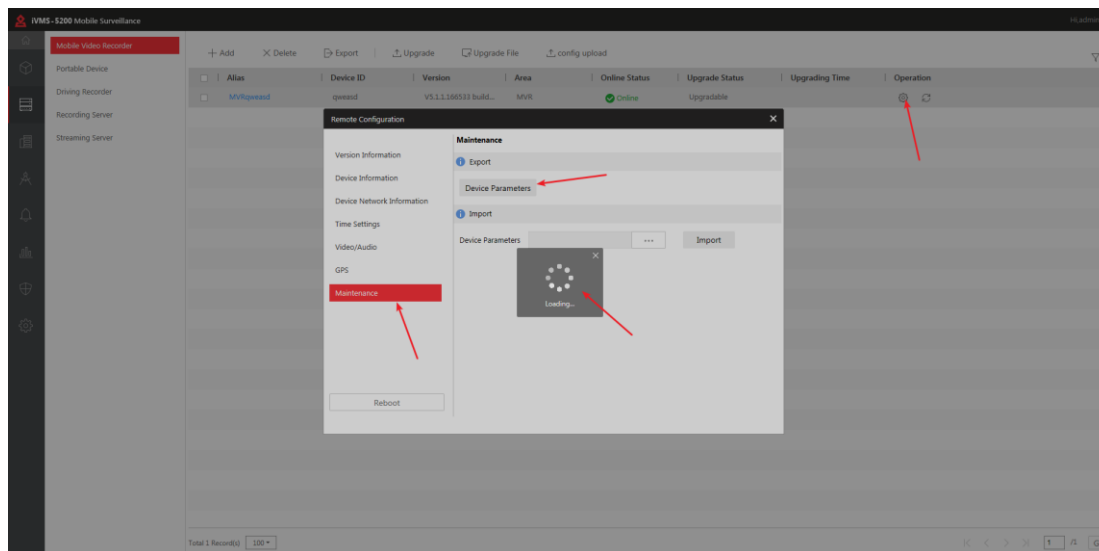
4.10 Remote config file export and import

- Update Device firmware to customized version.

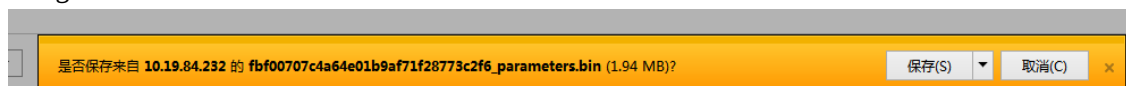
Mobile DVR please update to V5.1.1.166533 build190701, DS-MP5504, DS-M5504HM-T are supported.

- Export Device Parameter

Login to Web Client – Physical View, Click Setting button under operation column, then select Maintenance, select “Device Parameters” to export config file. This step might take up to 5 minutes, please wait with patient.

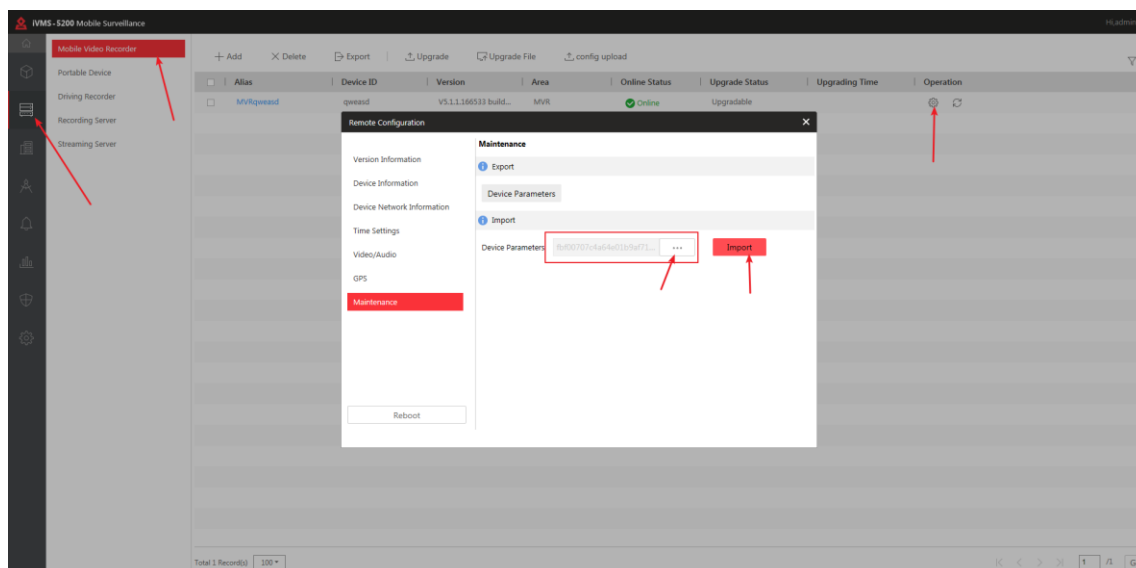


After export, there will be an pop-up notification on the bottom of page, click save or save as to download config file into local folder.



- Device Config file import

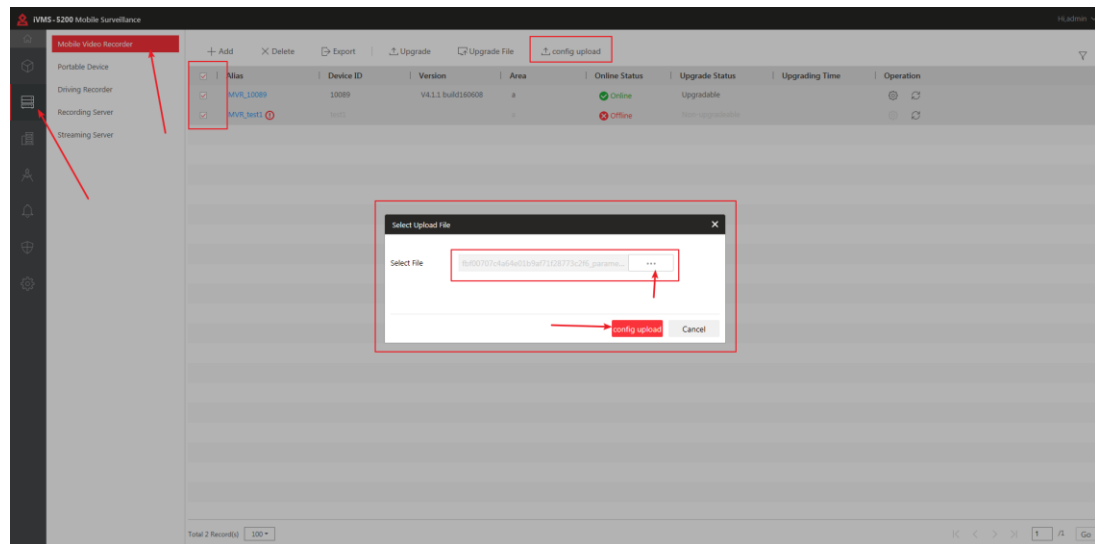
Login to Web Client – Physical View, Click Setting button under operation column, then select Maintenance, select the config file and click “Import”. This step might take up to 5 minutes, please wait with patient.



- Device Config file import in batch

Login to Web Client – Physical View – Mobile Video Recorder – Config upload

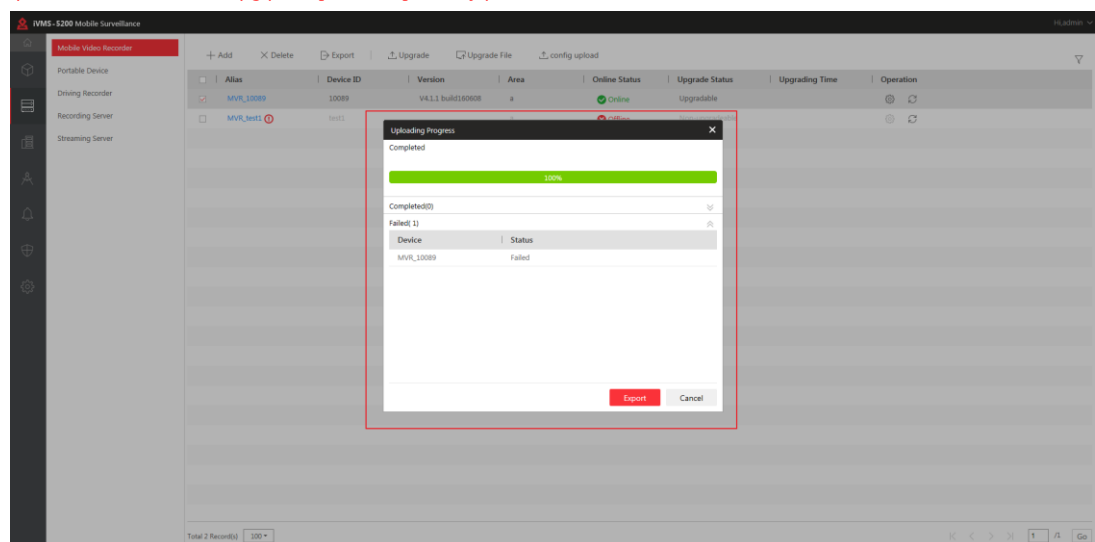
**The selected devices must be all online, otherwise upload task will be failed*



After import the config file, there will be a pop-up window showing upload status. Click “Export” to export the result.

**The import process takes long time, please wait with patient*

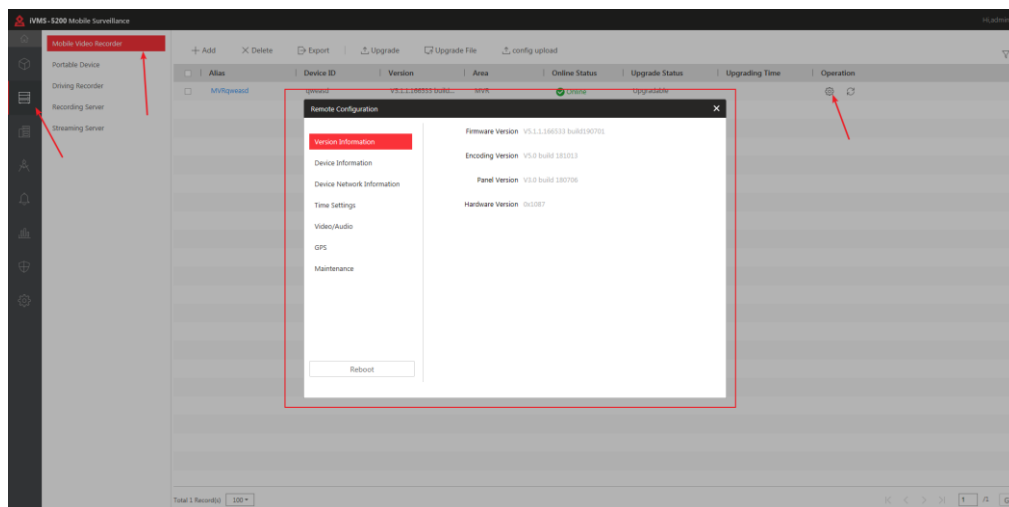
**If network is unstable, Config file export & import may fail*



4.11 Remote Device Parameter Configurations

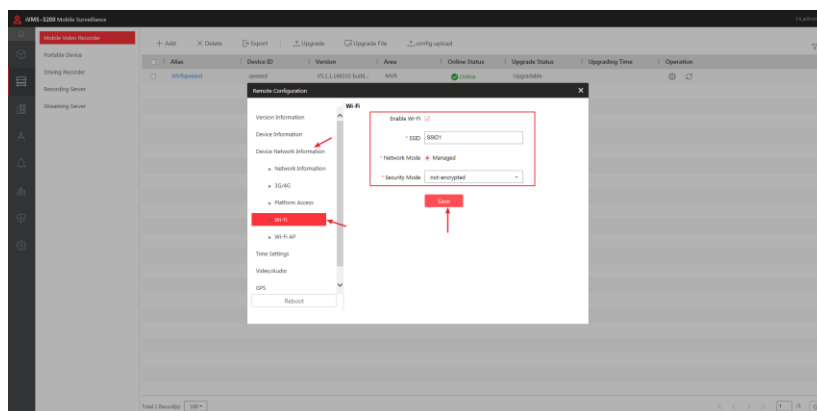
- Remote configuration page

Login to Web Client – Physical View, Click Setting button under operation column, remote configurations page will be showing

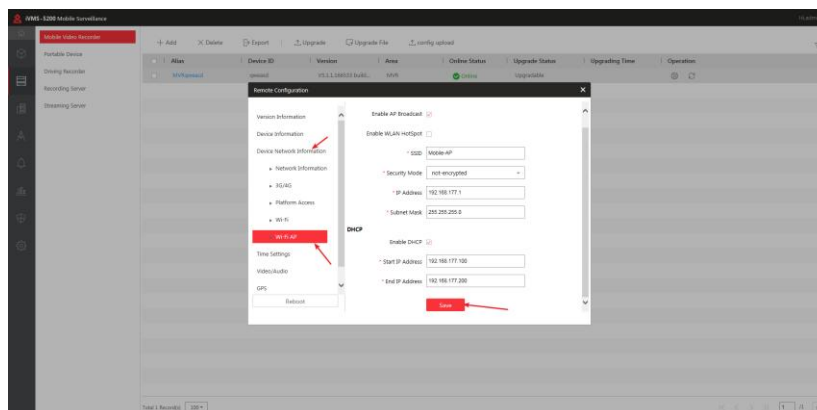


- Wi-Fi and Wi-Fi AP remote configurations

Expand the Device Network Information tab, Select Wi-Fi then configure Wi-Fi parameters and click “save”. Device need to reboot to take effect.

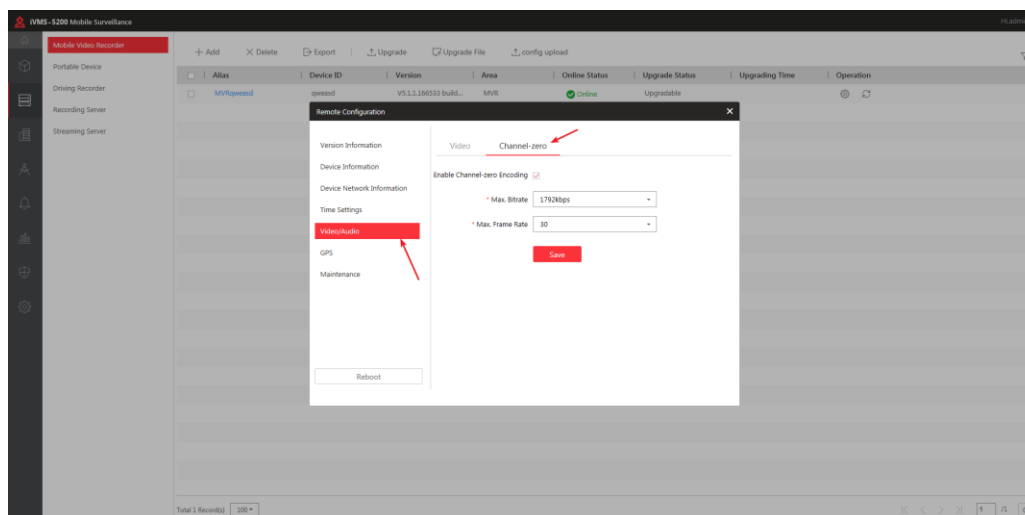
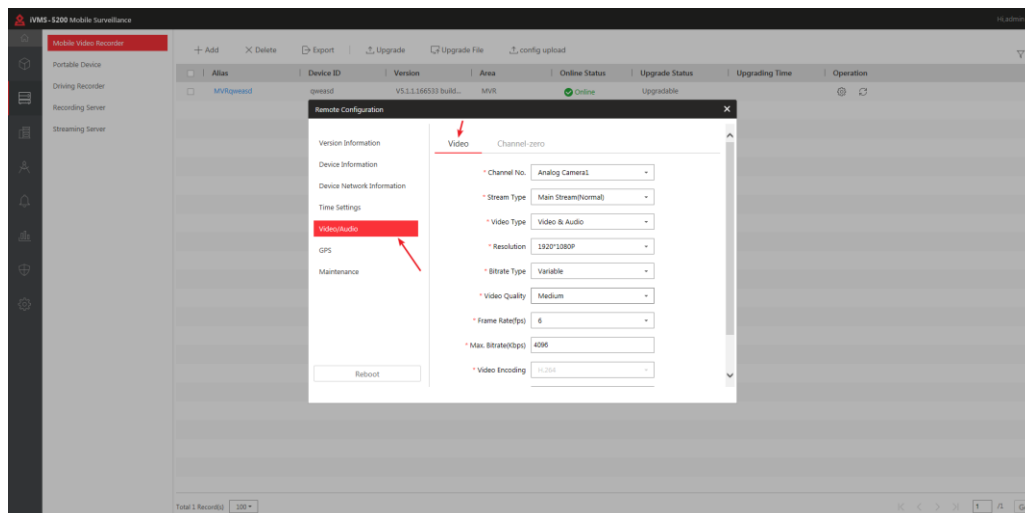


Expand the Device Network Information tab, Select Wi-Fi AP then configure Wi-Fi AP parameters and click “save”. Device need to reboot to take effect.



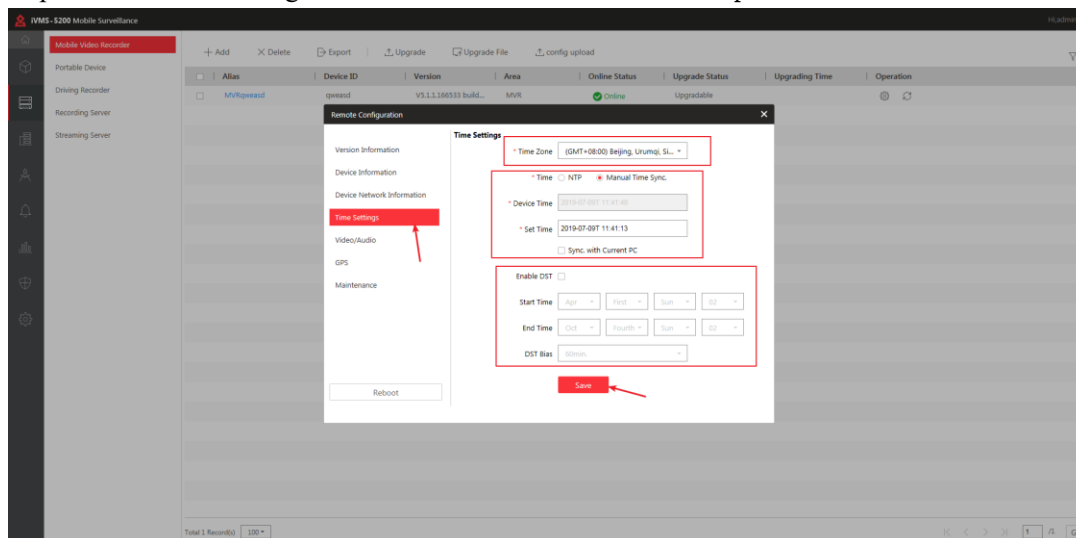
- Remote encoding parameter settings

Expand the “Video/Audio” tab, Edit encoding parameters.



- Remote time settings (DST, NTP, Time Zone)

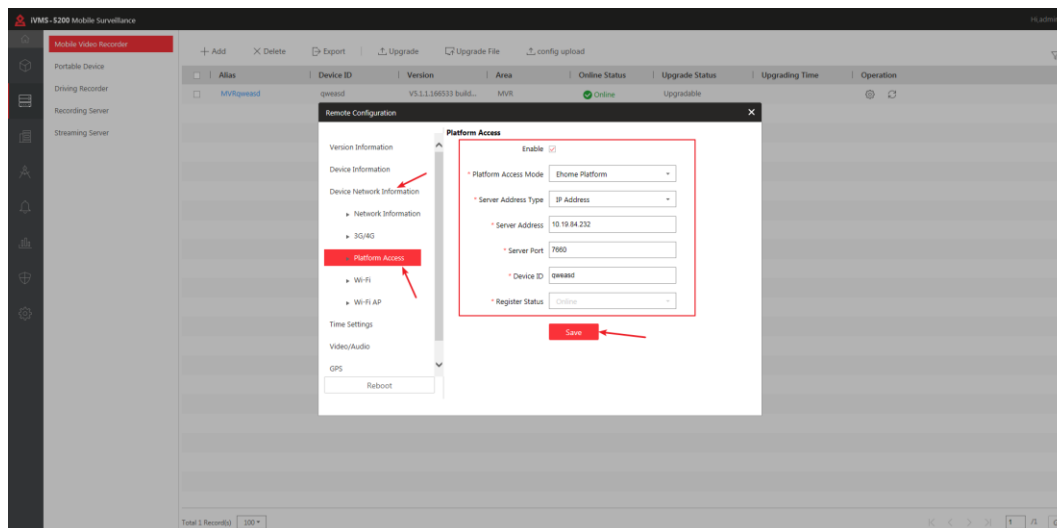
Expand the “Time Setting” tab, Edit DST, NTP and Time Zone parameters.



- Remote Platform Access settings

Expand the “Device Network Information” tab, select Platform Access and switch on / off the platform connection, change server address, port and Device ID.

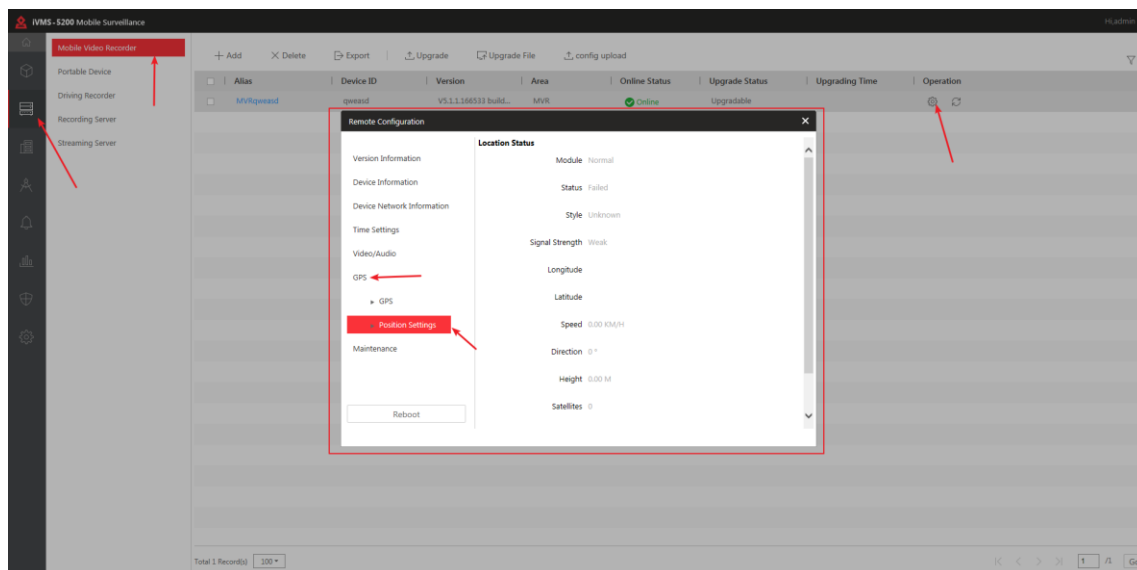
**The multiple parameter changes may takes long time, please wait with patient*



4.12 GPS status and 4G status display

- Device GPS status display

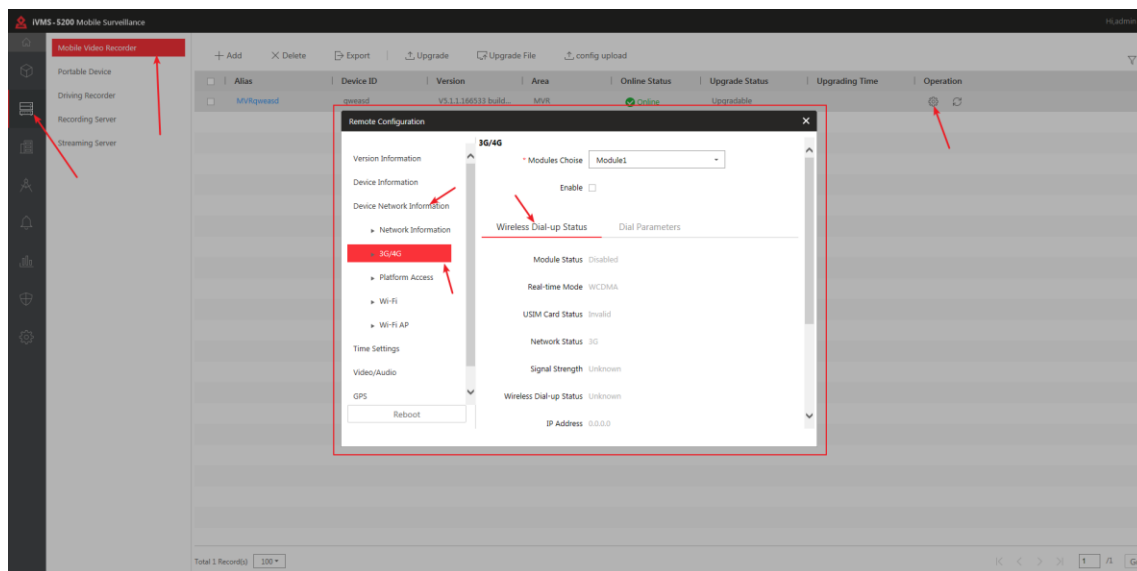
Expand the “GPS” tab, display location status in real-time.



Click Refresh button to update the status manually

- Display 4G connection status

Expand the “Device Network Information” tab, select 3G/4G to view the dialing status.



Click Refresh button to update the status manually