



DAHUA XVR-X RECORDER QUICK INSTALL GUIDE

Please read this document before installation





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SECURITY OVERVIEW

Out of the box

In an effort to ensure maximum security protection across Dahua systems, changes have been made to the accounts and passwords of Dahua recorders.

These changes includes the removal of the 888888 and default accounts, leaving just an admin account by default. The changes also include stricter requirements for passwords including the requirement that the admin password must be changed.

At COP UK every DVR & NVR is fully tested, updated and configured before shipping. For this reason the out of the box password has already been changed and some other security settings pre-configured.

Resetting Passwords

Previously when an administrator password was forgotten on a Dahua recorder, it was possible to call the COP UK technical support team to retrieve an override code which would allow access to the recorder menu.

This is no longer possible with the new security changes, there are now only two methods to reset account passwords (both shown in detail in this guide).

For this reason it is highly recommended to follow the processes listed in this guide to ensure it is possible to reset an account password in the event of a password being forgotten. Failure to follow these processes will result in COP UK being unable to assist in resetting account passwords without the unit being returned, which may include additional charges.

Out of the box settings

As explained previously, COP UK pre-configure some basic settings before each shipment. Shown below are the preprogrammed password, unlock pattern and security questions.

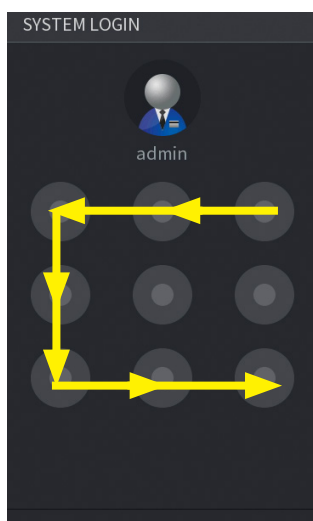
Cop Login

Username: admin

Password: Passw0rd!

Unlock Pattern

The unlock pattern can be used instead of entering a password to login. The pattern is preconfigured to a "C" shape. Simply left click the mouse and drag across the circular points to draw a "C", as shown in the image below.



Security Answers

In the event that the admin password is forgotten, the forgot password button (padlock icon on login box) can be selected to go through the reset wizard. There are two methods to reset the admin password, email & security answers. Only the security questions are preconfigured by Cop, email is not preconfigured.

It is highly recommended that an email address is configured for resetting the password, this is shown in detail on pages 5 & 7

Pre-Configured Security Questions & Answers

Q1: What is your favourite childrens book?

A1: changeme

Q2: What was the first name of your first boss?

A2: changeme

Q3: What is the name of your favourite fruit?

A3: changeme

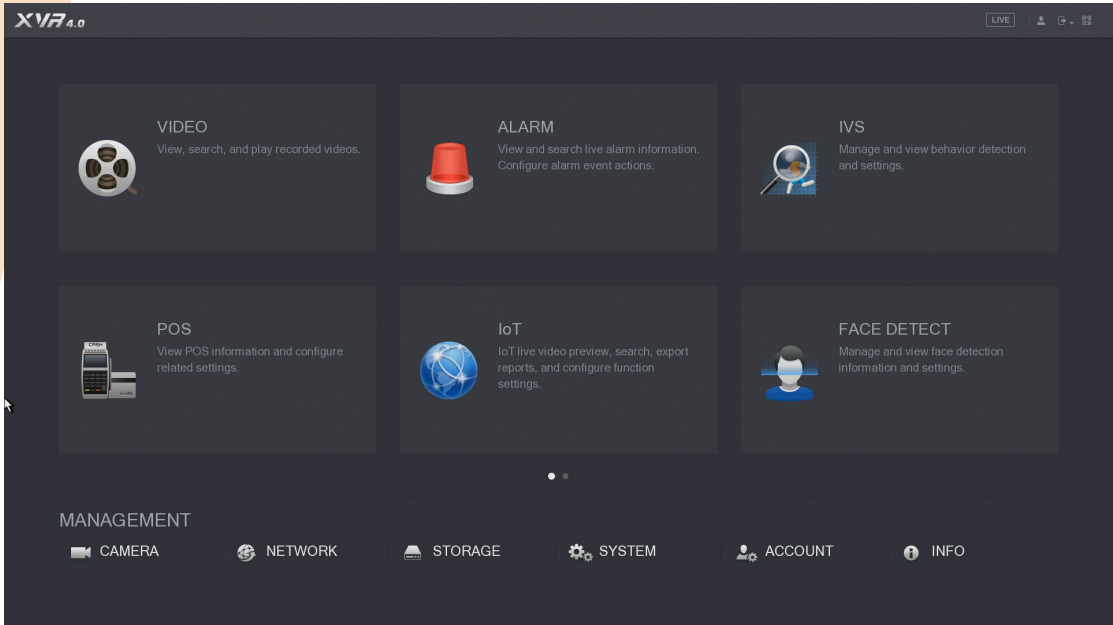
A screenshot of a 'Reset Password' form. At the top, it says 'Reset Password'. Below that is a 'Reset Type' dropdown menu with 'Security Questions' selected. There are three questions listed, each with a dropdown menu for the question and a text input field for the answer. The questions are: 'Question 1: What is your favorite children's book?', 'Question 2: What was the first name of your first boss?', and 'Question 3: What is the name of your favorite fruit?'. The answers are currently empty.

MODIFY ACCOUNT SETTINGS

To change account settings such as password, security question and to register an email address, follow the steps below.

Password and Email address

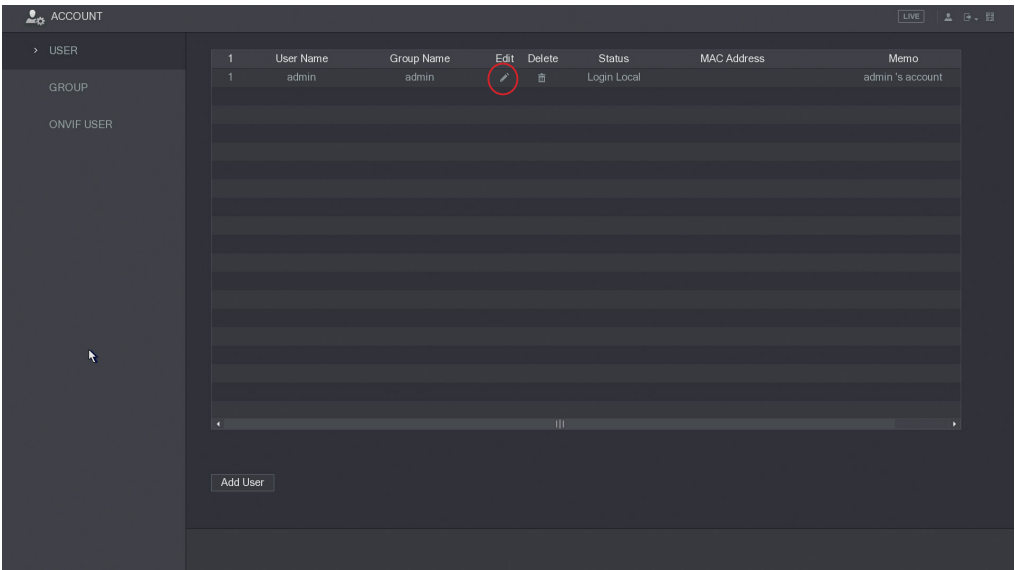
Login to the recorder menu using the current username and password or pattern.



From the main menu go to **Account**

Click the edit button (pencil icon).

To add an additional account, click the **Add User** button and enter the account details. For security purposes only the admin account has the option for a reset email address and security question specifically relate to the admin account.



The account settings will be displayed as the image below shows. Here the password can be modified and an email address registered for the account.

Add User

User Name

Password

Confirm Password

Memo

User MAC

Group

admin

Period

Setting

Authority

System

Playback

Monitor

☒ All

☒ ACCOUNT

☒ STORAGE

☒ SECURITY

☒ SYSTEM

☒ EVENT

☒ BACKUP

☒ SYSTEM INFO

☒ NETWORK

☒ DEVICE MAINTENANCE

☒ MANUAL CONTROL

☒ CAMERA

OK

Back

Security Questions

To modify the security questions select the **Security Question** tab from the main account page.

Choose which questions to use and enter the answers accordingly.

Security Questions

Successfully set. Please delete it first if you want to reset security question ag...

Question 1

What is your favorite children's book?

Answer

Question 2

What was the first name of your first boss?

Answer

Question 3

What is the name of your favorite fruit?

Answer

Setting

Delete

DEVICE INITIALISATION

In the event of a factory reset the Device Initialisation wizard will be shown, this wizard goes through a step by step process to set the device password, unlock pattern, security questions, email address and basic configuration.

Changing the device password is a compulsory step that cannot be skipped, it is also highly recommended to fill in all the steps within the wizard and make notes of all the information entered.

Step 1

The first step is to enter a new password for the admin account. Passwords must be between 8 & 32 digits and include two of the following uppercase letters, numbers or symbols.

After entering the password the bars coloured indicator bar will show either Red, Orange or Green. Red & Orange indicate a weak password whereas Green indicates a strong password. The password entered must be considered strong before proceeding to the next step.

Prompt Question is where a password reminder can be entered to make remembering the password easier.

After entering a strong password click **Next** to advance to the next step.

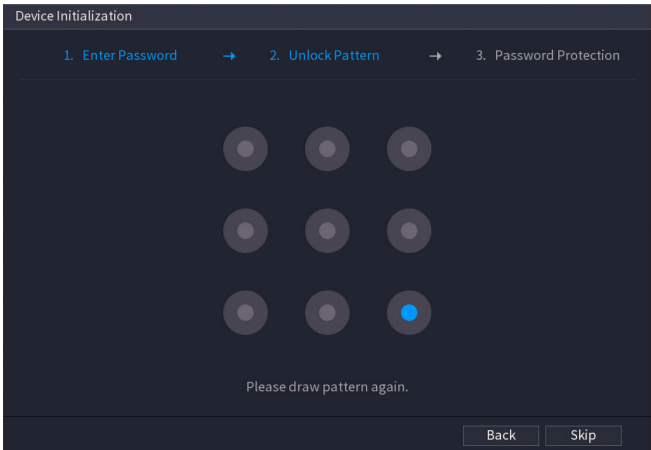
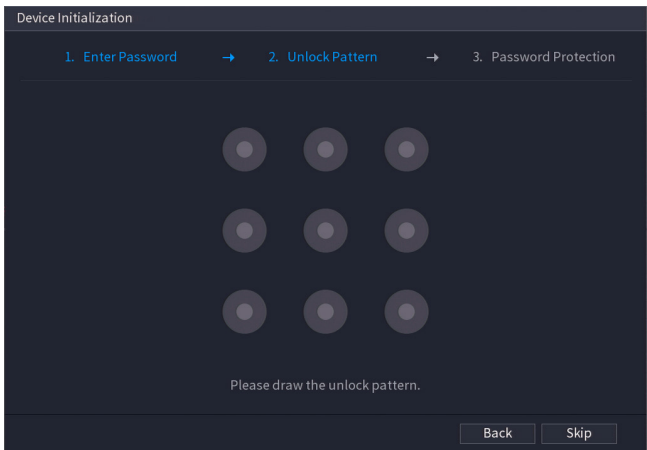
The screenshot shows a dark-themed 'Device Initialization' window. At the top, a progress bar indicates three steps: '1. Enter Password' (highlighted in blue), '2. Unlock Pattern', and '3. Password Protection', connected by right-pointing arrows. Below the progress bar, the 'User' field is pre-filled with 'admin'. The 'Password' field is an empty input box, followed by a visual strength indicator consisting of three horizontal bars. The 'Confirm Password' field is another empty input box. The 'Prompt Question' field is also empty. To the right of these fields, a text instruction reads: 'Use a password that has 8 to 32 characters, it can be a combination of letter(s), number(s) and symbol(s) with at least two kinds of them.(please do not use special symbols like ' " ; : &)'. At the bottom right corner, there is a 'Next' button.

Step 2

Step 2 allows an unlock pattern to be configured for quick logging in of the system. Step 2 can be skipped if an unlock pattern is not required.

Use the left mouse button to left click and draw a pattern.

Once drawn you will be prompted to draw the pattern again to confirm.



Step 3

Step 3 allows an email address to be specified and for security questions to be configured. Both of these options are used when resetting the device password. Although this step can be skipped, it is **highly** recommended to complete this step incase of the password being forgotten.

In the event of this step not being completed and the password is forgotten, the unit would have to be returned to Cop to be reset which may incur charges.

Enter a valid email address that a reset code can be sent to in the event of resetting the device password or uncheck the email box to skip.

Select and enter an answer for questions 1 to 3 or uncheck the Security Question box to skip.

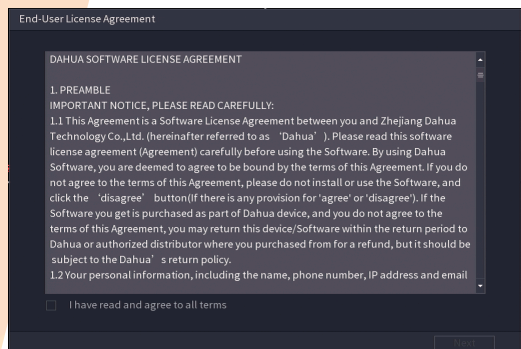
Click **Save** to continue

A screenshot of the 'Device Initialization' window during Step 3: 'Password Protection'. The window has a dark background. At the top, a progress bar shows '1. Enter Password' followed by an arrow to '2. Unlock Pattern', which is followed by an arrow to '3. Password Protection', which is currently selected. Below the progress bar, there are three sections: 'Email Address' with a checkbox and a text input field, 'Security Questions' with a checkbox, and three numbered questions with dropdown menus and text input fields. The questions are: 'Question 1: What is your favorite children's book?', 'Question 2: What was the first name of your first boss?', and 'Question 3: What is the name of your favorite fruit?'. At the bottom right, there is a 'Save' button.

The initialisation process will now go through some basic configuration steps as shown below.

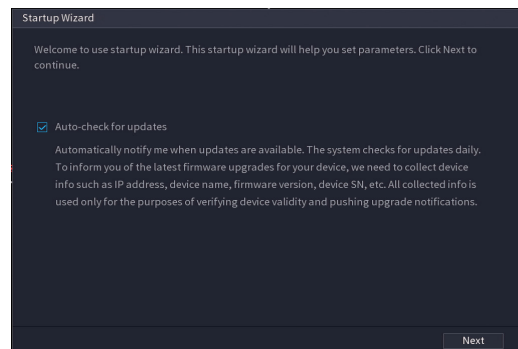
Terms and Conditions

Scroll down to read all the terms and conditions, place a check in the box to accept the terms



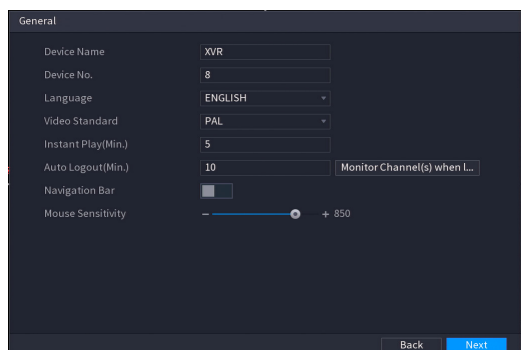
Auto Check for Updates

Dahua recorders can periodically check for new firmware versions when a internet connection is available.



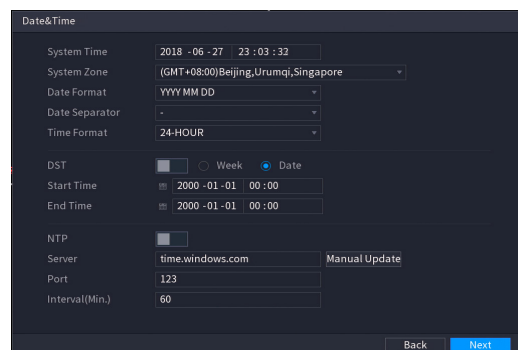
General Settings

General settings include Device Name, Auto Logout, Mouse Sensitivity and more.



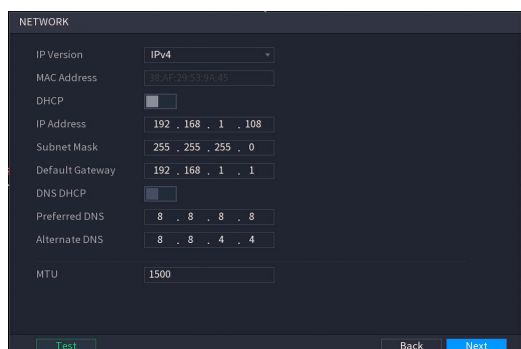
Date & Time

Date & Time settings include manual time set, DST and NTP settings



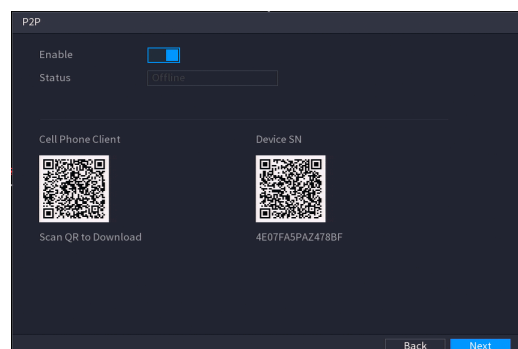
TCP/IP

TCP/IP settings include IP Address, Subnet Mask, Gateway and DNS Servers.



P2P

P2P is used as a quick method to connect to the system remotely. More information can be found on page 14.



Encode

Encode settings are used to set the quality of recorded & remote view

The screenshot shows the 'Encode' settings menu. It is divided into two main sections: 'Main Stream' and 'Sub Stream'. Each section contains a list of settings including Channel, Smart Codec, Type, Compression, Resolution, Frame Rate(FPS), Bit Rate Type, Quality, I Frame Interval, and Bit Rate(Kb/S). The 'Main Stream' settings are currently set to Channel 1, General, H.265, 1280x720(720P), 25, CBR, 4, 1 S, and 1024. The 'Sub Stream' settings are set to Sub Stream1, H.265, 352x288(CIF), 15, CBR, 4, 1 S, and 320. At the bottom of each section is a 'More Setting' button. The bottom of the menu has 'Default', 'Copy', 'Back', and 'Next' buttons.

Snapshot

Snapshot settings include resolution & image quality settings

The screenshot shows the 'SNAPSHOT' settings menu. It includes a 'Manual Snap' dropdown set to '1 /Time'. Below this are settings for Channel, Mode, Image Size, Image Quality, and Interval. The current settings are Channel 1, General, 352x288(CIF), 4, and 1 Second. At the bottom are 'Default', 'Copy', 'Back', and 'Next' buttons.

Basic

Basic settings include HDD Overwrite, Pack Model and auto delete old files

The screenshot shows the 'BASIC' settings menu. It includes settings for HDD Full (Overwrite), Pack Mode (Time Length 60 Min.), and Auto-Delete Old (Never). At the bottom are 'Back' and 'Next' buttons.

Schedule

This is the schedule for recording, more information can be found on page 11.

The screenshot shows the 'Record' schedule menu. It includes a 'Channel' dropdown set to '1', 'Pre-record' set to '4 Sec.', and 'Redundancy' set to '1'. Below this is a legend for recording types: General (green), MD (yellow), Alarm (red), MD&Alarm (purple), Intel (blue), and POS (purple). The main part of the menu is a grid showing the recording schedule for each day of the week (Sunday through Saturday) across a 24-hour period. At the bottom are 'Default', 'Copy', 'Back', and 'Next' buttons.

Snapshot Schedule

This is the schedule for snapshot recording.

The screenshot shows the 'Snapshot' schedule menu. It includes a 'Channel' dropdown set to '1' and a legend for snapshot types: General (green), MD (yellow), Alarm (red), MD&Alarm (purple), Intel (blue), and POS (purple). The main part of the menu is a grid showing the snapshot recording schedule for each day of the week (Sunday through Saturday) across a 24-hour period. At the bottom are 'Default', 'Copy', 'Back', and 'Finished' buttons.

PASSWORD RESET

In the event that the device password has been lost or forgotten, there are two methods that can be used to reset the password; email or security questions.

Security Questions

To start the password reset process select the  icon on the login window.

From the **Reset Type** dropdown box select the **Security Question** option.

Enter the answer for each question presented and click next to proceed to the next step.

Reset Password

Reset Type

Security Questions

Question 1

What is your favorite children's book?

Answer

Question 2

What was the first name of your first boss?

Answer

Question 3

What is the name of your favorite fruit?

Answer

Next

Cancel

If the answers entered for each question are correct, it will now be possible to enter a new password for the device.

Reset Password

Reset password of (admin)

New Password

Use a password that has 8 to 32 characters, it can be a combination of letter(s), number(s) and symbol(s) with at least two kinds of them.(please do not use special symbols like ' " ; : &)

Confirm Password

Save

Cancel

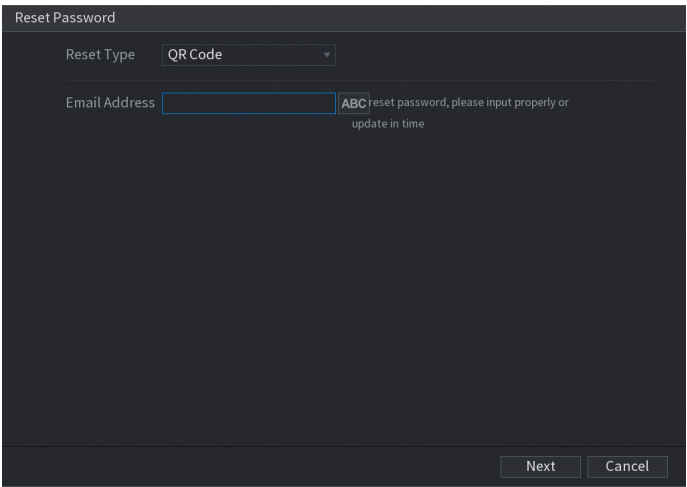
Email

If the answers to the security questions are not known or have not been configured, it is possible to reset the password via email. Resetting the password via email relies on the fact the unit has been configured for internet access via P2P.

To start the password reset process select the  icon on the login window.

From the **Reset Type** dropdown box select the **email** option.

Depending on whether an email address has been set previously, one of two screens will appear.

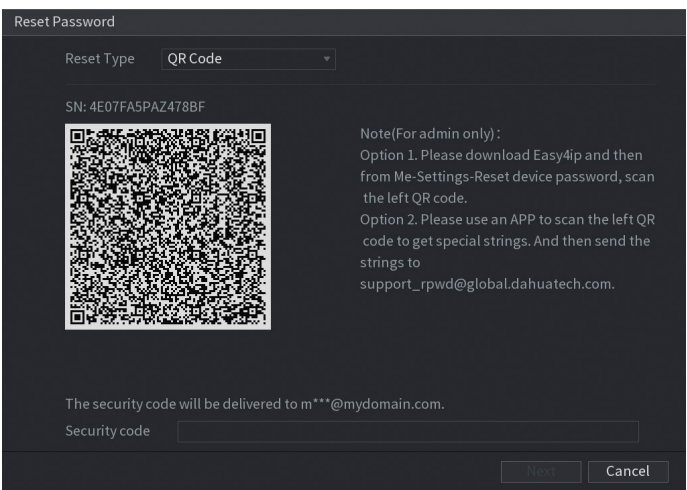


The screenshot shows a 'Reset Password' window with a dark background. At the top, 'Reset Type' is set to 'QR Code'. Below it, the 'Email Address' field is empty, and a red error message reads: 'ABC reset password, please input properly or update in time'. At the bottom right, there are 'Next' and 'Cancel' buttons.

If an email address has not be configured previously, the above screen will appear. Enter a valid email address to proceed the next step.

As there is no way the device can verify who is entering the email address at this point, it is **highly** recommended an email address is entered during initial installation.

With an email address configured, the window below will be displayed.



The screenshot shows a 'Reset Password' window with a dark background. 'Reset Type' is 'QR Code'. It displays a serial number 'SN: 4E07FA5PAZ478BF' and a QR code. To the right of the QR code, a note for administrators provides two options for password reset. Below the QR code, it states 'The security code will be delivered to m***@mydomain.com.' and has a 'Security code' input field. 'Next' and 'Cancel' buttons are at the bottom right.

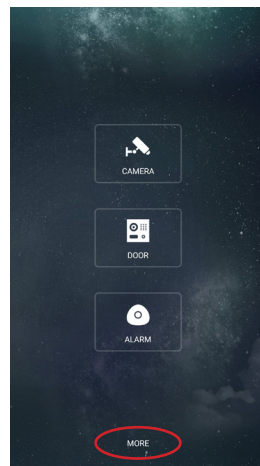
To proceed through the password reset process, the DMSS app must be installed on a mobile device. This can be downloaded from both the iOS (Apple Store) and Android (Google Play) app stores.

With DMSS installed follow the steps below

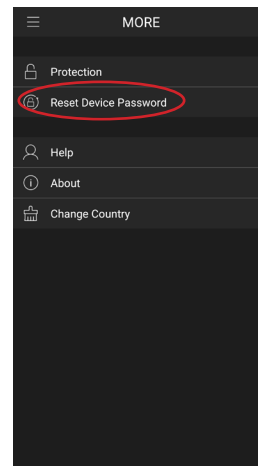
1. Open the DMSS app



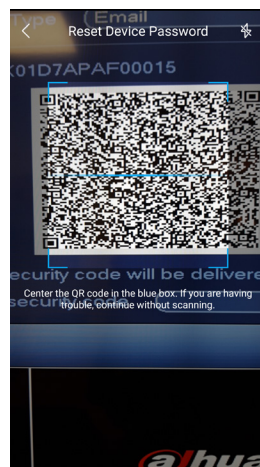
2. Select More



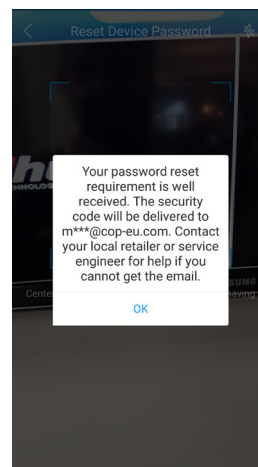
3. Select Reset Device Password



4. Scan the QR code



5. Success



Once completing the steps show on the previous page, an email will be sent to the registered email address on the recorder. Open the email to find the reset code, you may need to check your junk email if the email has not been received after a few minutes.

Enter the reset code in the **Input Security Code** box shown on the recorder menu and click **Next**.


It will now be possible to enter a new password for the device.

Reset Password

Reset Type

QR Code

SN: 4E07FA5PAZ478BF



Note(For admin only):

Option 1. Please download Easy4ip and then from Me-Settings-Reset device password, scan the left QR code.

Option 2. Please use an APP to scan the left QR code to get special strings. And then send the strings to support_rpwd@global.dahuatech.com.

The security code will be delivered to m***@mydomain.com.

Security code

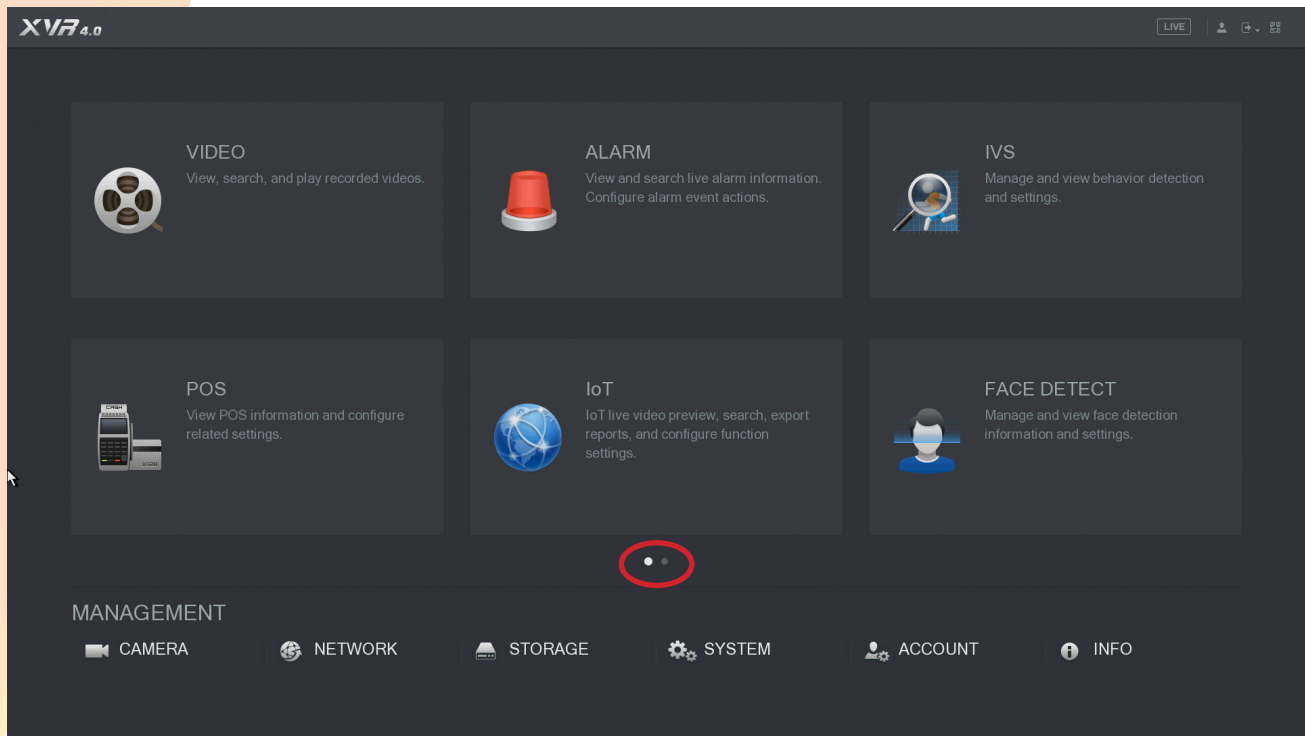
Next

Cancel

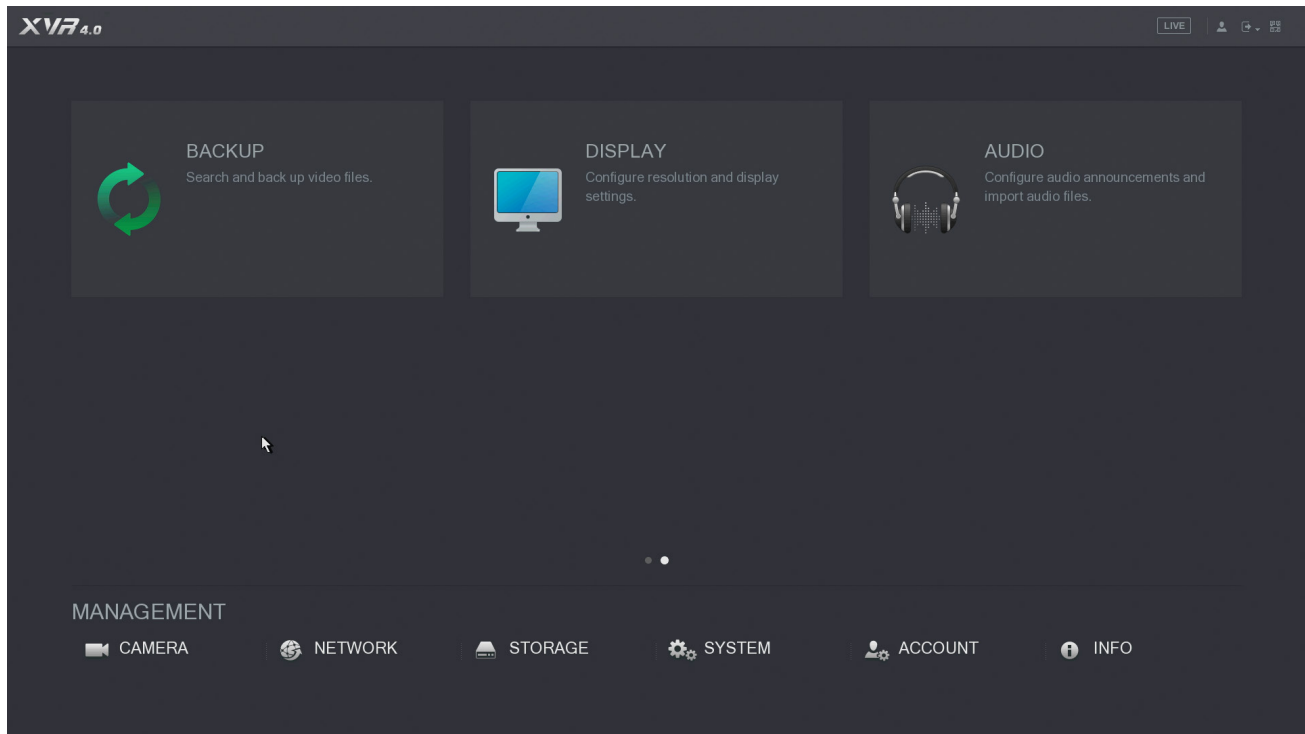
NVR/DVR MAIN MENU

The main menu is split into two pages, click the two dots to toggle between pages.

Page 1



Page 2

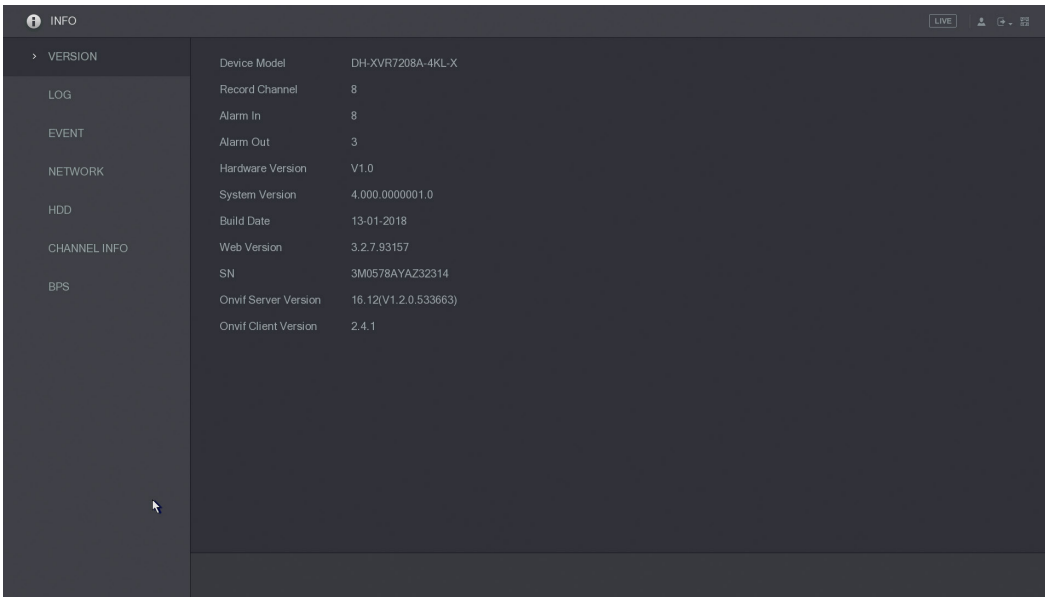


DEFAULT SETTINGS

Listed below are the out of the box settings for some of the options within the system.

HDMI/VGA Resolution	1280 x 720
Language	English
Admin Account Password	Passw0rd!
HDD Overwrite	On
Auto Logout	10 Minutes
IP Address	192.168.1.108
HTTP Port	80
TCP Port	37777
Record Schedule	Continuous Record (24/7)

NVR/DVR Firmware Version



NVR/DVR firmware is often updated to introduce better optimisation and add new features. To check the firmware currently installed on the system go to **Menu > nfo > Version**

The latest firmware can be downloaded from the COPUK website www.cop-eu.com

To update the firmware on a recorder, go to **Menu > System > Upgrade** with a USB containing the new firmware inserted into the recorder.

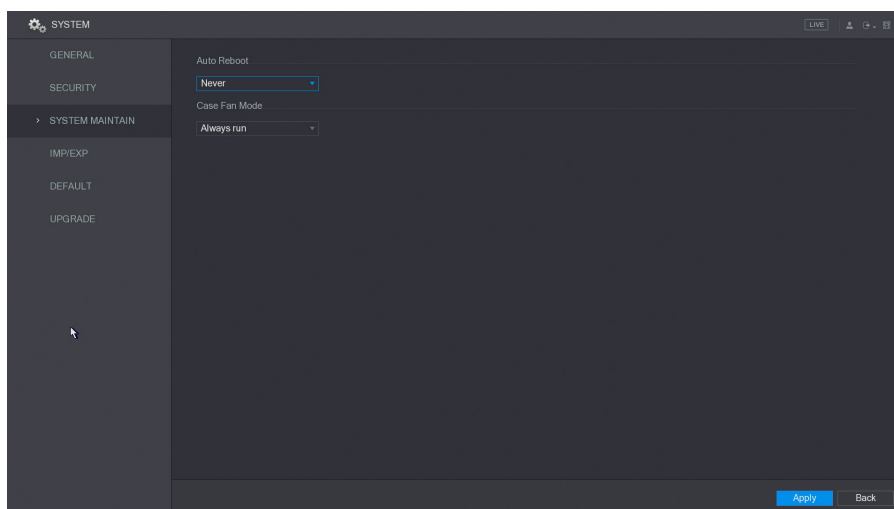
Full update instructions can be found on the COPUK website at <https://www.cop-eu.com/upgrading-firmware>

SYSTEM MAINTAIN FEATURE

Menu > System > System Maintain

System maintain is a feature designed to automatically reboot the system at a scheduled date and time. By default auto maintain is set to disabled. To adjust the auto maintain settings follow the steps below:

1. Go to Menu > System > System Maintain

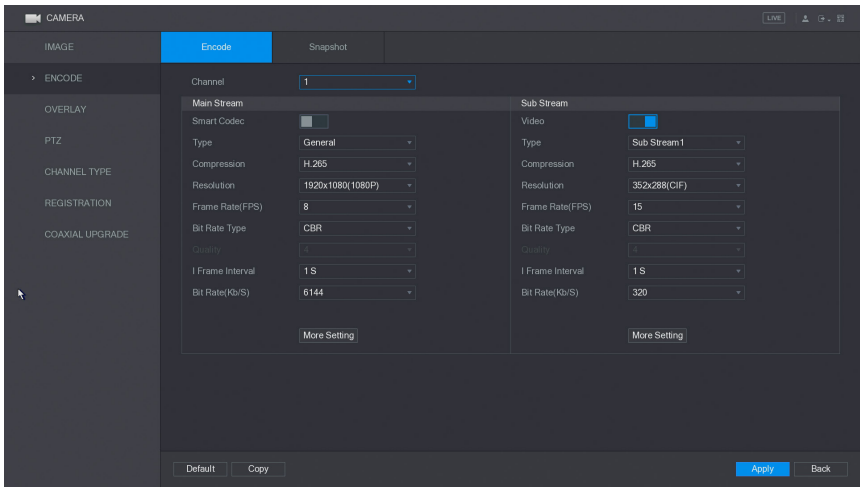


2. Adjust the preferred day and time by selecting a specified day from the dropdown box and inputting the preferred hour into the time field. There is also the option for **"Never"** in the day dropdown box, this will disable the auto maintain feature.
3. Click **Apply** to apply the setting and **OK** to save it.

RECORD AND QUALITY SETTINGS

Menu > Camera > Encode

Camera record settings are located in the encode menu. These settings dictate to record parameters for each channel.



Main Stream	This is the left hand column and is set to record by default. This is usually the HD Stream
Extra Stream	This is a secondary stream which is not set to record by default. The extra stream is usually a much lower quality stream, it is often used for remote viewing when internet bandwidth is an issue
Channel	Select the specific channel to view or modify
Code Stream Type	The type of record, options are Regular, Motion Detection and Alarm.
Compression	The type of compression used for the recording such as H.264 or H.265
Resolution	This is the total image size in pixels. The higher the resolution the clearer the image.
Frame Rate (FPS)	How many images (frames) are recorded each second. 25 is real time recording.
Bit Rate Type	CBR - Constant Bit Rate keeps the bit rate (the size of the video) at a constant level regardless of how many changes are taking place in the image. VBR - Variable Bit Rate adjusts depending on the amount of changes occurring in the image. High amounts of changes (movement, light changes etc) increase the bit rate. Low amounts of changes keep the bit rate at a lower level.
Bit Rate (Kb/s)	This is the target bit rate given in Kbps. The bit rate determines the file size of the video stream. The bit rate should be adjusted based on Resolution and FPS. A high Resolution and FPS will require a higher bit rate, a lower Resolution and FPS will require a lower bit rate.
Audio / Video	The tick boxes along the bottom of the page represent enabling and disabling video or audio. The single tick box under mainstream enables or disables main stream audio. The two tick boxes on the right enable or disable video and audio for the extra stream (Left box is audio, Right box is video)

Click **Copy** to apply the same settings to specific, or all camera channels.

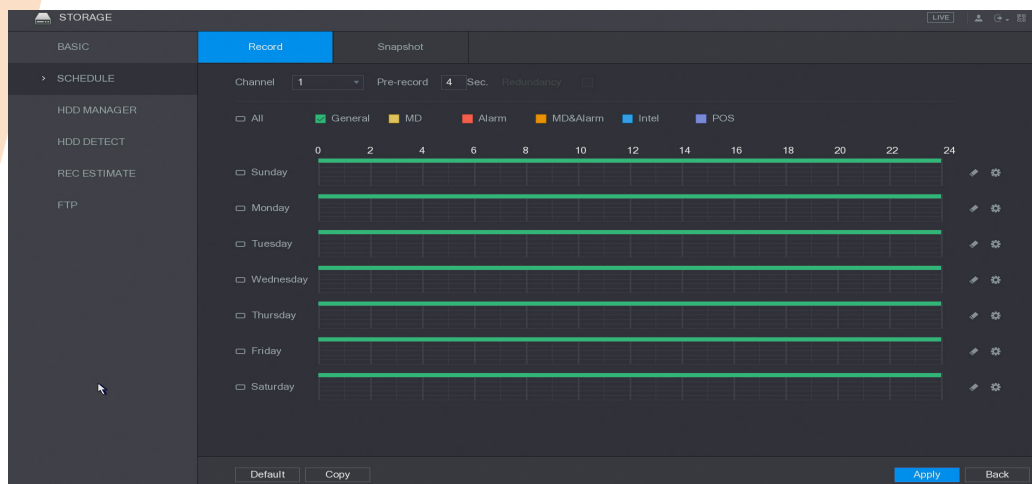
Click **OK** to save the setting.


RECORD SCHEDULE SETTINGS

Menu > Storage > Schedule

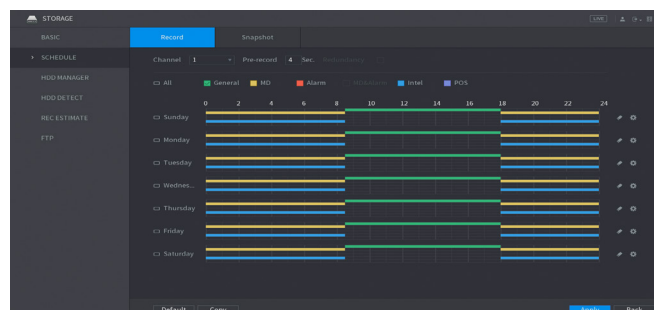
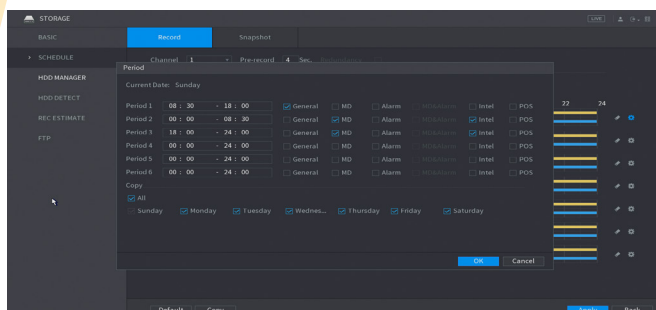
The Record Schedule controls when the unit stores video to the HDD's, it also determines the recording type. I.e. Regular, Motion Detection, Alarm & IVS recording.

By default all Dahua DVRs are set to record 24/7 regular (continuous) record, motion and alarm recording are disabled.



To edit the schedule click on the  symbol to display the schedule edit page. Once editing is complete, click **OK** to apply the settings.

The images below show an example of the record schedule set to record continuously between the hours of 08:30 and 18:00, with motion & IVS recording between the hours of 18:00 and 08:30 seven days a week.



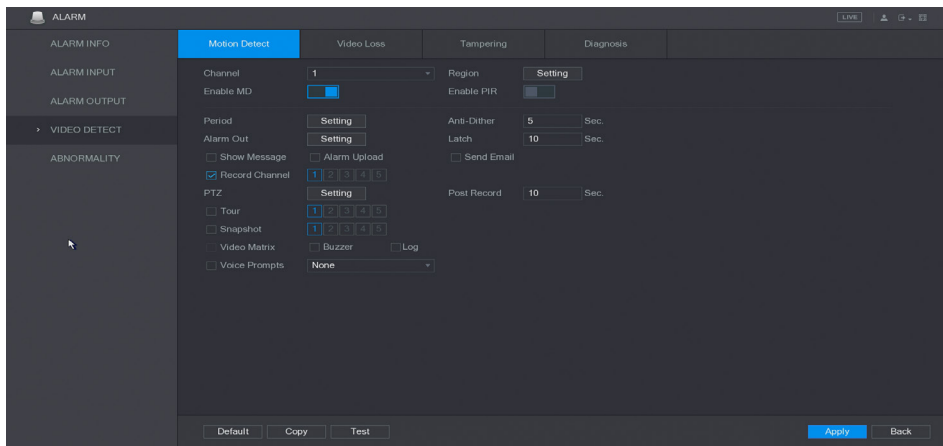
Click **Copy** to apply the schedule settings to specific, or all camera channels.
Click **OK** to save the setting.

MOTION DETECTION SETTINGS

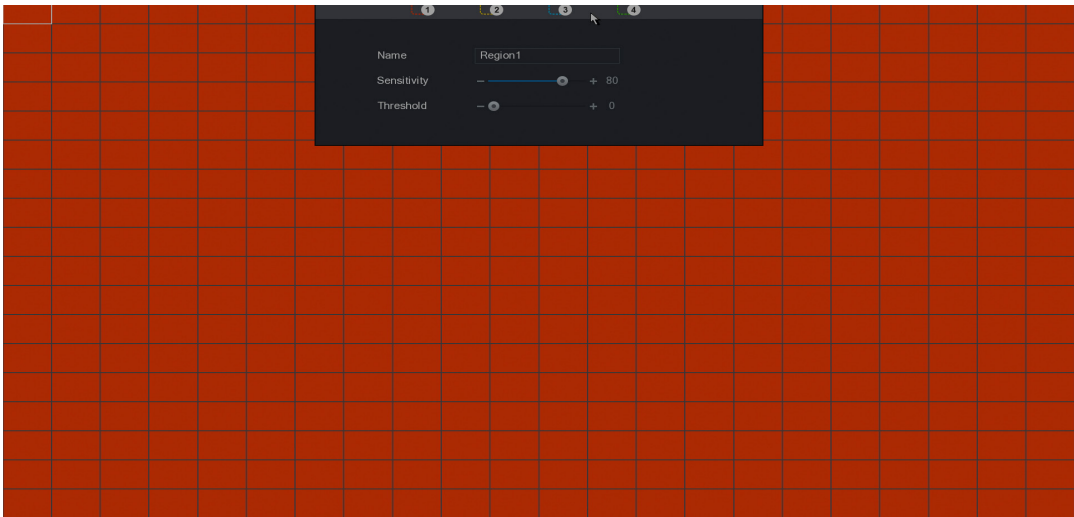
Menu > Alarm > Video Detect > Motion Detect

Motion Detection can be configured to detect movement on specific camera channels. This can then create an event record file and perform various functions including sending an email, sounding the buzzer or triggering a relay output.

Due to enviromental factors it is advisable to pay particular attention to the region and sensitivity settings for external cameras.



To enable motion detection select the **Enable** box.
To customise the detection area and sensitivity click **Set** next to Region.



Use the left mouse button to add and remove areas of the grid. Click the region numbers to modify the individual regions.

Motion Detection sensitivity is controlled by two settings, Sensitivity and Threshold.

Sensitivity The amount of movement required to register that movement is being detected
Threshold How much movement is required before creating a motion event

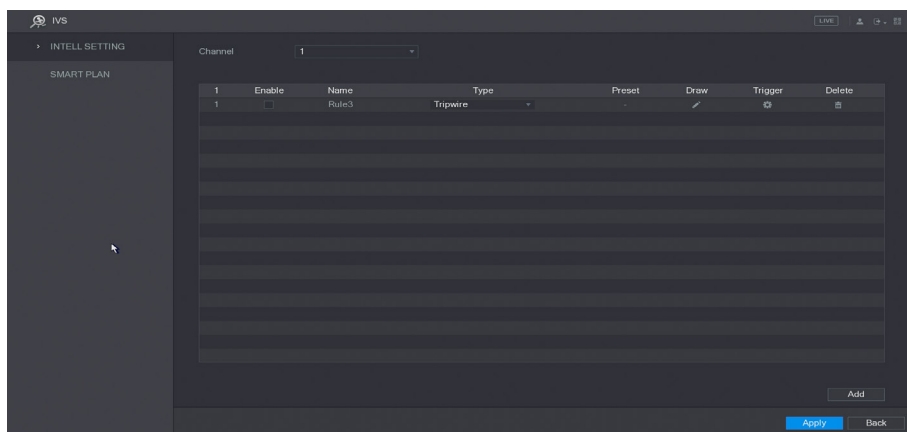
Once the region has been configured click the right mouse button to return to the motion detection setup page.

There are many options and actions that can be configured to work with motion detection, see the list below for an overview of each option.

Period	Set the times and days of the week that motion detection is active. Default setting is 24/7
Anti-Dither	Set the delay time in seconds that must pass after movement has stopped to end the event
Alarm Out	Select which relay outputs to trigger when a motion event occurs. (Units with Relay outputs only)
Latch	How long in seconds that the relay output should trigger for
Show Message	Show on screen message when motion events occur
Alarm Upload	Used in conjunction with Smart PSS or the Alarm Centre function. Upload a motion event alert to Smart PSS or Sentinel
Send Email	Send an email notification when a motion event occurs. Email must be configured correctly in Menu > Network > Email
Record Channel	Select which channels record when motion detection is triggered
PTZ	Move PTZ camera to preset when a motion event occurs
Tour	Display the camera channel fullscreen when a motion event occurs
Snapshot	Take a snapshot when a motion event occurs
Log	Create an entry in the system log when a motion event occurs
Voice Prompts	Play audio clip using NVR/DVR audio output, audio clips need to be added to the system in Menu > General > Voice Prompt
Buzzer	Sound the NVR/DVR internal buzzer when a motion event occurs

IVS SETUP

The X range of Dahua XVRs support intelligent events such as Tripwire, Intrusion and Abandoned/Missing Object. IVS rules allow more flexibility over event notifications with a reduced amount of false alarms when compared to motion detection.



Click **Add** to add a new rule to the IVS list, multiple rules can be configured.

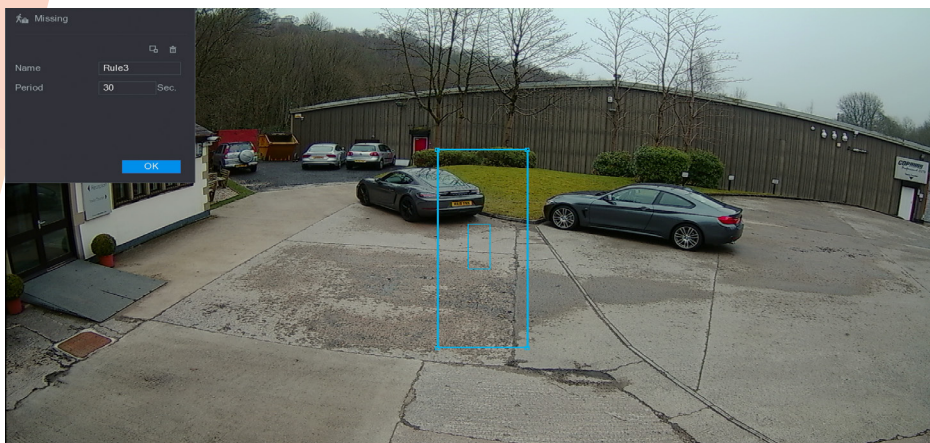
From the list of available rules select the type required, such as Tripwire or Intrusion. The rest of these instructions will be based on Tripwire. However, configuring Intrusion follows the same method.


Once the type of rule has been chosen, click the **Draw** icon to create the rule



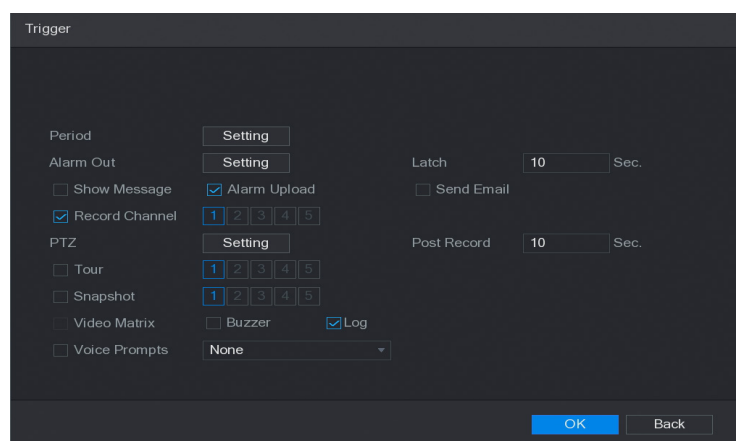
Rules can be created using the left mouse button to draw Tripwire or Intrusion lines on the image in the area of interest. In the top left window, the direction of travel can also be selected. Once the rule is configured, click **Ok**


Important: For optimum performance IVS rules must be created in areas that are not cluttered by objects or vastly contrasting colours. It is also recommended that rules are created in the main focal point of the image, this allows the camera time to analyse objects/targets before reaching the detection line(s).

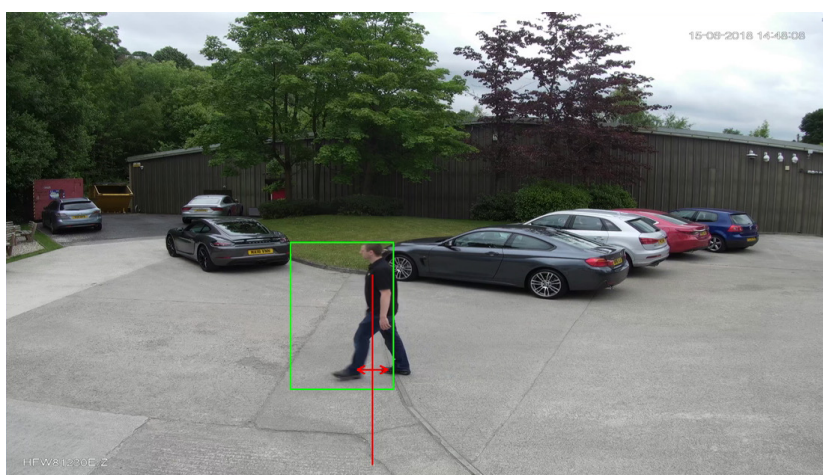


Click the  to adjust the target filter. The target filter sets the size of objects that will trigger the IVS rule and the size of objects that will be ignored.

The small box in the centre sets the smallest object size that will trigger the rule, the larger box sets the maximum size that will trigger the rule. By default the max size filter is at its maximum size (around the edge of the camera view). Once the target filter has been set, click **Ok**



Select the  icon to enter the Trigger menu. Choose which actions to perform when the IVS rule is triggered by selecting the various options such as Record Channel, Buzzer etc. Once done click **Ok** followed by **Apply** & **Ok** on the next menu screen.

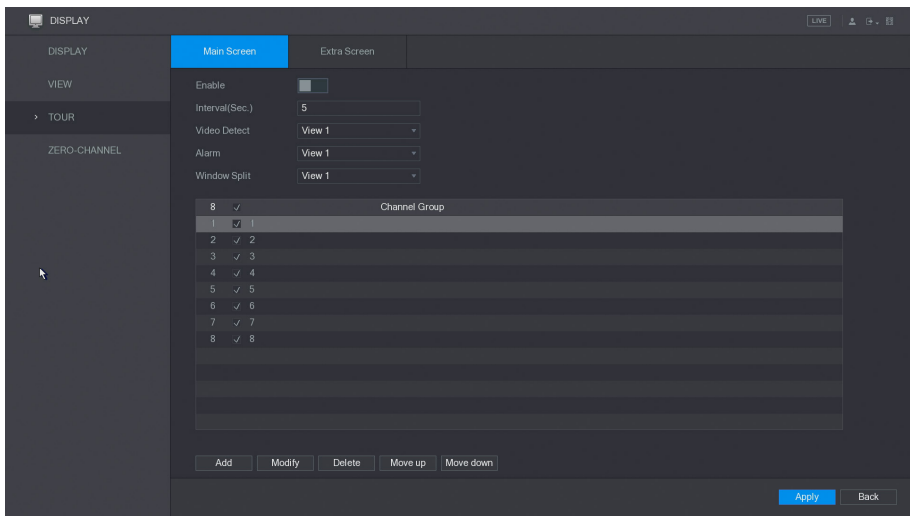


Once the IVS programming has been finished and saved, objects passing through the IVS rule that fit the target filter profile, will trigger and event. This is indicated by the IVS rule flashing red and the configured triggers taking place.

TOUR SETTINGS

Menu > Page 2 > Display > Tour

The tour function is used to sequence through different camera views at specific intervals. To configure a tour follow the steps below.



Go to Menu > System > Display > Tour

- Video Detect**

This is the view type used when setting the system to change the camera view on motion events.
- Alarm**

This is the view type used when setting the system to change the camera view on alarm events.
- Enable Tour**

Enable or Disable the tour.
- Interval**

Sets the interval between changing the camera view (when multiple views are selected) in seconds.
- Window Split**

Select the type of view to edit or enable/disable a view.

When editing views in the system, select the view from the window split dropdown box. The ticked boxes represent whether the cameras are enabled or disabled in the tour. Enabling multiple cameras/views will automatically enable sequencing.

To delete a camera/view select it and click the delete button. To add a camera/view click the add button, it is then possible to create a custom view by selecting specific cameras.

Fullscreen on Event

To set the system to show specific cameras fullscreen on event, go to Menu > Event and select the type of event. Enable the option for **Tour** and select the cameras to show when the event is triggered.

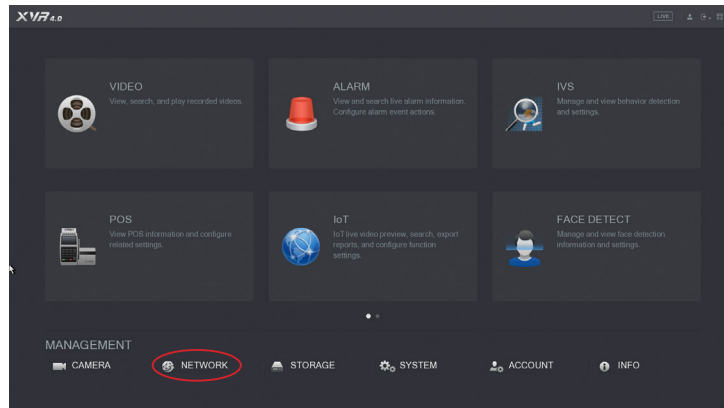
To return the system to a multiscreen view after an event, enable a single view in Menu > System > Display > Tour.

SMARTPHONE SETUP VIA P2P

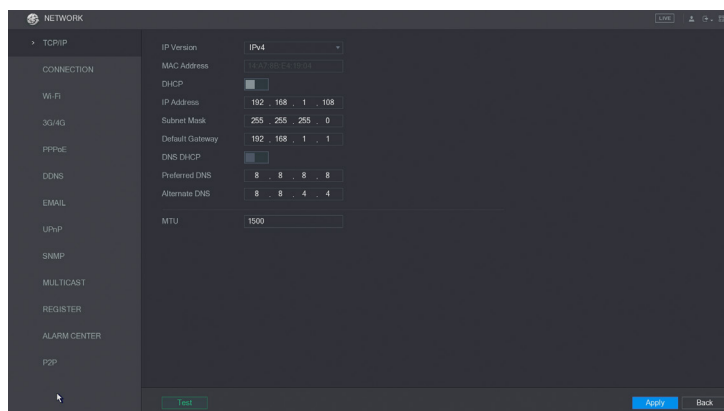
All Dahua DVRs can be viewed remotely using the P2P function.

NVR/DVR Setup

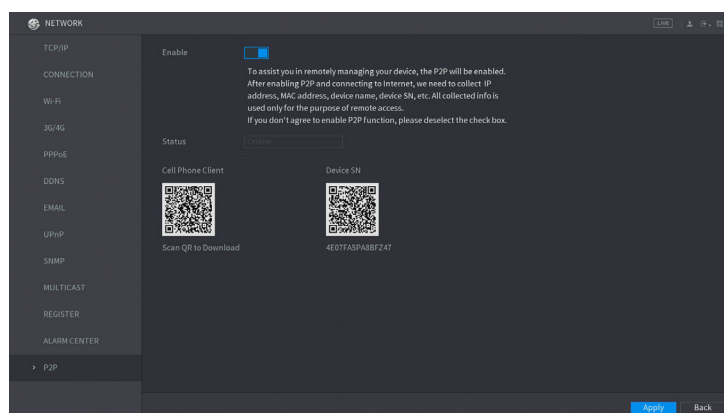
1. Connect NVR/DVR to network via Ethernet cable
2. Go to > Network > TCP/IP



3. Enable DHCP and apply



4. Enter menu > Network > P2P
5. Enable P2P option and **Apply**
6. The Status box should now report Connect Success or Online



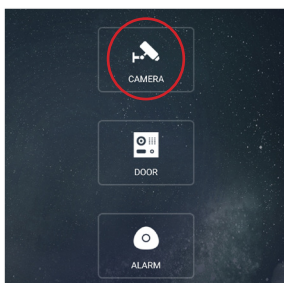
APP SETUP

Currently P2P is only supported for iOS and Android devices.

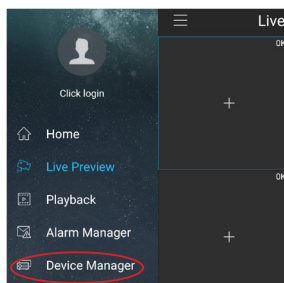
Download the mobile application to your mobile device by scanning the QR codes below or by searching for the app in your relative app store.

Connect using the app

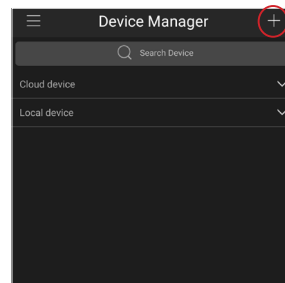
1. Open DMSS app and select Camera



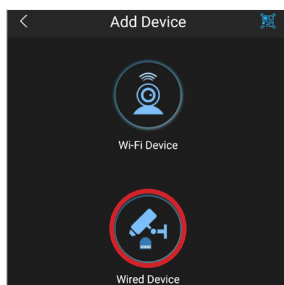
2. Click Menu (Top left) > Device Manager



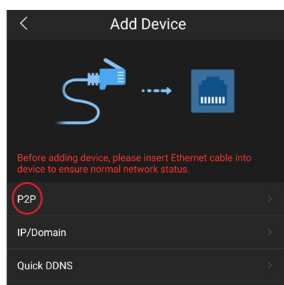
3. Click + symbol



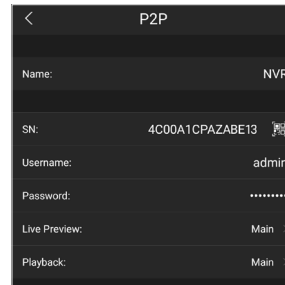
4. Select Wired Device



5. Select P2P



5. Input a name (this is for your reference only)
Press QR button

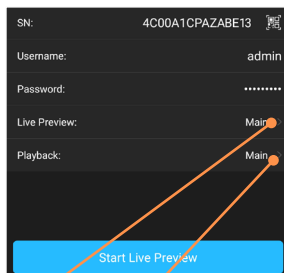


6. Scan screen



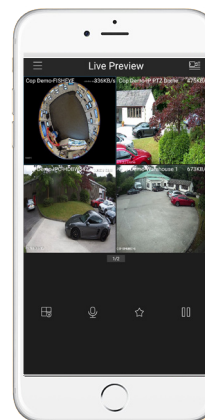
Select which stream is used for live viewing, Main or Extra.

7. Click start live



Select which stream is used for Playback, Main or Extra. As Extra stream recording is disabled by default, it is recommended to select Main.

8. View cameras



Note: P2P can also be used to view the NVR/DVR remotely via Smart PSS software.

