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# User Manual

## IPmotion



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# 1. Preface

**IPmotion** is a powerful mobile application designed for connecting a mobile device to specific IP Cameras, NVRs, H-NVRs and Video Servers. It supports push video (motion notification), for IP Cameras using an SD Card.

**IPmotion** is able to provide live view from IP devices and playback videos from SD card / HDD installed in such devices.

## 2. Features

- Live Video
- Split screen view
- Live View Snapshot
- Two way audio
- PTZ control
- Preset points setting
- Digital zoom for non PTZ-cameras
- Push video
- Video Playback from SD card, Micro SD card and HDD

## 3. Installation

Before the Installation make sure your Android mobile can connect to the internet

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via WIFI or ISP (3G, 4G).

**Note: After installing you must grant IPmotion full permissions.**

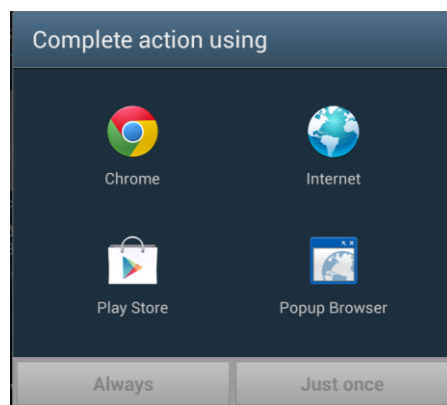
#### A. Installation via QR code

1. Scan the following QR code with your Android Phone..

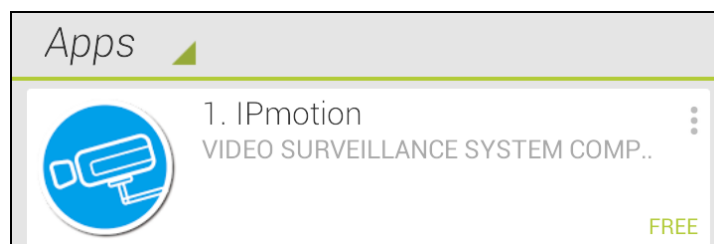


**NOTE:** You need a QR code scanner installed on your phone first.

2. After scanning the code. The phone might ask you for selecting one of the following options (depending on the phone configuration):

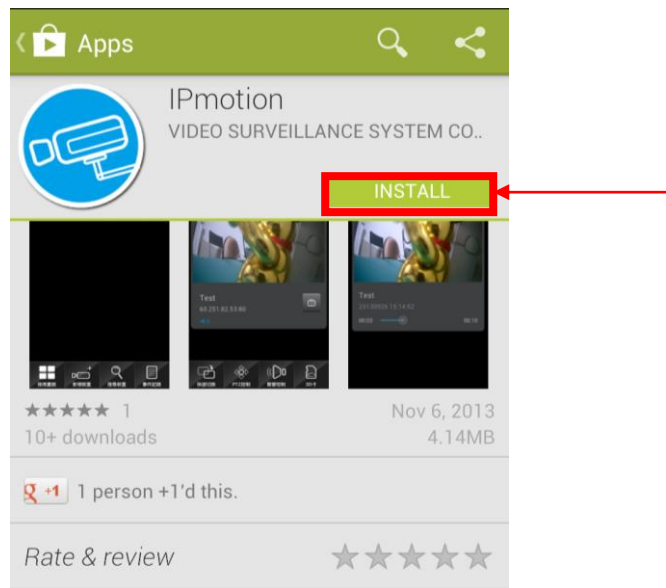


3. Select Play Store and press on Always or Just Once depending on your preference.



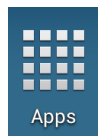
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4. Press on Install for start the installation.

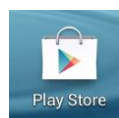


5. Press on the icon to run the APP.

## B. Installation via Play Store



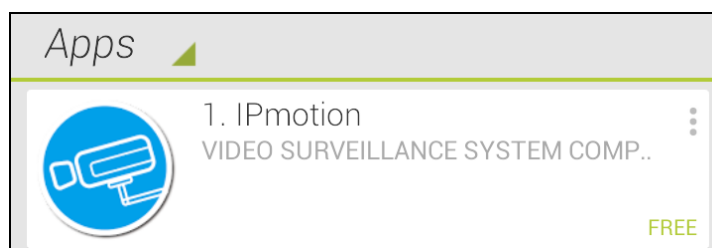
1. On the main press the Apps button for displaying all the apps installed.



2. Find the Play Store icon and press it.

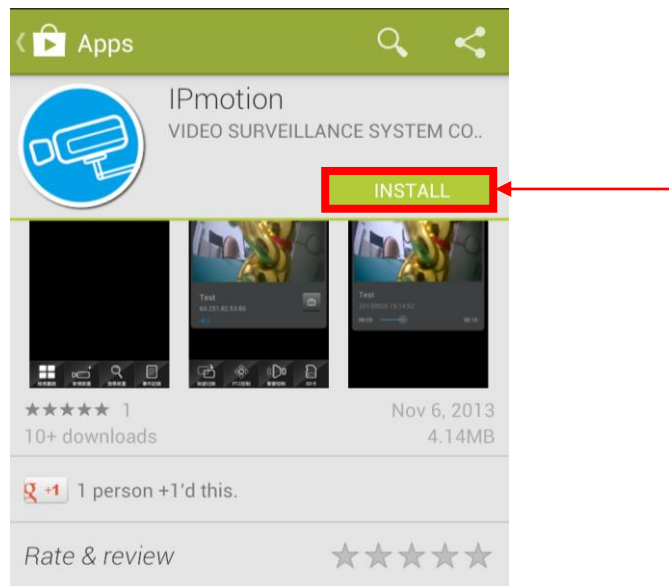


3. On **Play Store**, press the button and type-in **IPmotion** for start the searching.



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4. Press on **Install** for start the installation.



**IPmotion** can be found within all the phone applications after completing the installation.




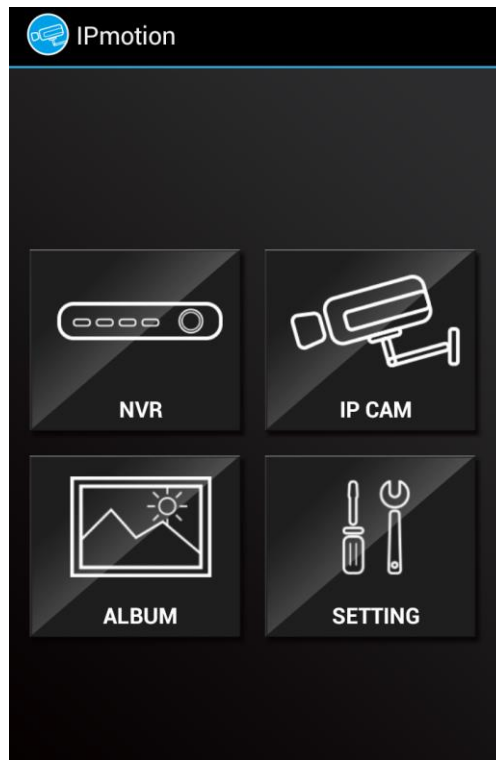
5. Press on the  icon to run the APP.

## 4. GUI Description

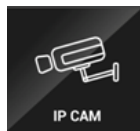
### 4.1 Home



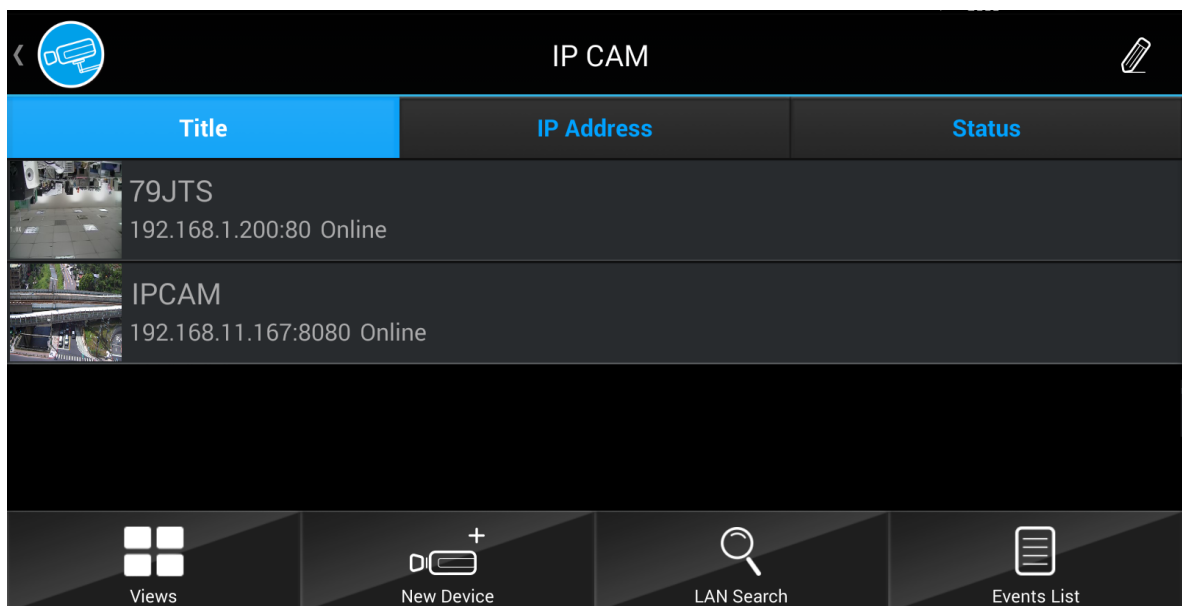
Press on  icon to open the APP. **IPmotion** home page displays four main sections:



## 4.2 IP CAM



By pressing the  button on the **Home page** the following page is open:



Title	IP Address	Status
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Sort the IP Cameras by Title, IP Address and Status.



Go back to previous page.



Edit / Delete button.



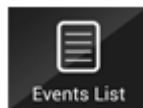
Switch between List View / 4 Split Screens / 9 Split Screen / 16 Split Screen split view mode.



Add a new IP Camera.

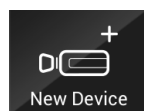


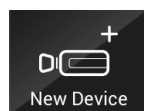
Search for a IP Camera within the LAN.



Display the Events List.

## 4.2.1 Adding a new IP Camera



Press on the  button. It will open the following interface.

Type-in the information needed for connecting the IP camera:

Back

Status	Online
Title	Camera
IP Address	118.163.124.13
Port	8116
Account	admin
Password	*****
Push Video	<input type="checkbox"/> OFF
Resolution	High Medium

---

**Status:** The connection status of the network device.

**Title:** The name for the IP Camera to be displayed on the APP.

**IP Address:** The IP address or DNS of the IP Camera

**Port:** The port used for connecting to the IP Camera.

**Account:** The account name for login into the IP Camera. **Note: The account must have an “Administration” level in order to support full functions.**

**Password:** The password associated with the account name.

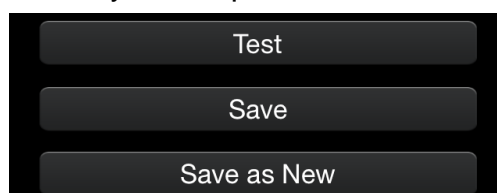
**Push Video:** Press on the button for enabling push video notification. **Refer to Section 5.1 for more details.**

**Resolution:** Select between High / Medium resolution for Live View.

**Notes on resolution:**

- The resolution can be modified after adding the IP Camera.
- The higher resolution between Stream 1 and Stream 2 will be taken as “High” Resolution.
- The lower resolution between Stream 1 and Stream 2 will be taken as “Medium” Resolution.

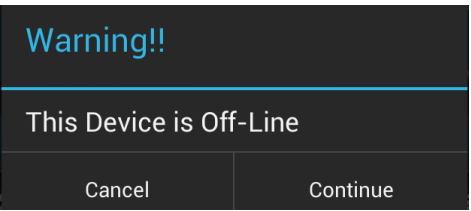
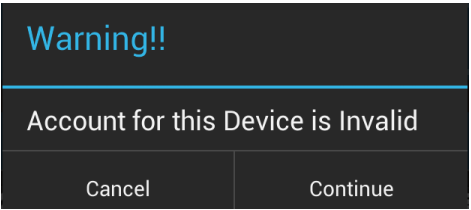
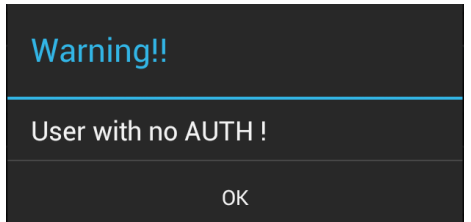
After typing all the information you can press one of the following options:



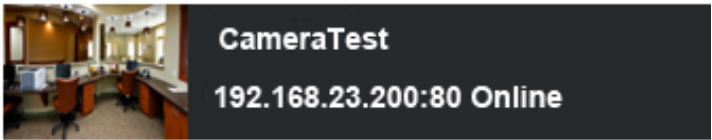
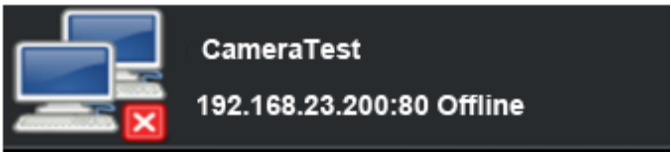
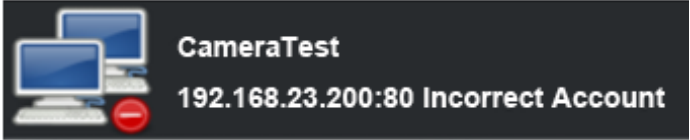
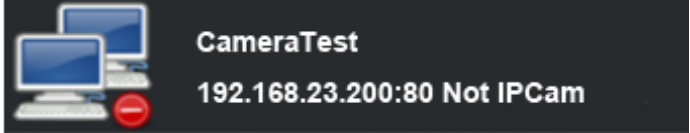
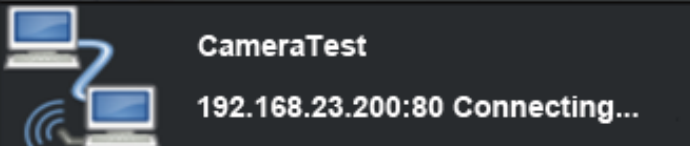
**Test:** Only works if the camera status is **Online**, a snapshot button will be displayed on the current Live View.

**Save:** Saves the camera and lists it into the IP Camera list.

Case	Message
<b>Information incomplete</b> (All fields require an input)	A screenshot of an error message dialog box. It has a dark background with a blue header that says 'Error!!'. Below the header, the text 'Please complete input fields!!!' is displayed. At the bottom, there is an 'OK' button.

<p><b>The IP Camera is off-line</b> (By pressing on Confirm the IP Camera will be added displaying an off-line state)</p>	
<p><b>Invalid account name or password</b></p>	
<p><b>User with no Authority</b> (Displayed when the account typed-in has no "Administrator" level. The device will be added with limited functions.)</p>	

**Save as New:** The same as **Saves**. Useful when the user needs to include two cameras with similar information, in this way there is no need to type-in all the information. If there is no any error message the Camera will be added into the IP Camera list. On the interface the IP Camera will display of the following states:

<p><b>On-line</b> (Displays snapshot from current Live View)</p>	
<p><b>Off-Line</b> (Connection loss)</p>	
<p><b>Incorrect Account</b> (Incorrect account name or password)</p>	
<p><b>Not IP CAM</b> (The device added is not an IP Camera)</p>	
<p><b>Connecting</b> (The APP tries to re-connect the IP Camera after a login error or a connection loss.)</p>	

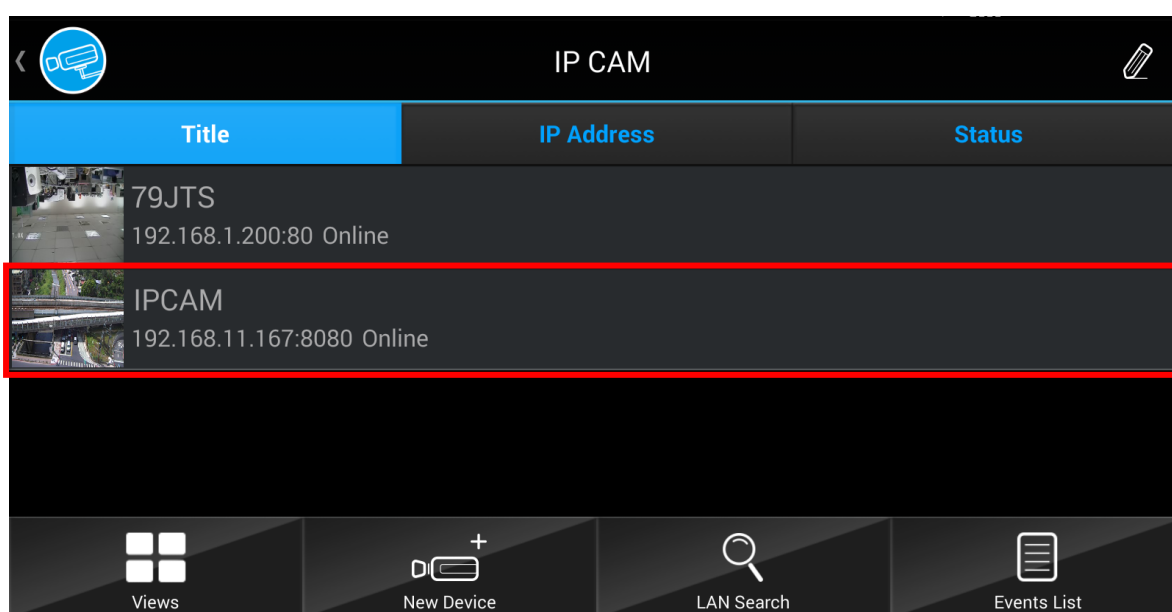
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**NOTE:** Pressing the IP Camera on the IP Camera list will refresh its state

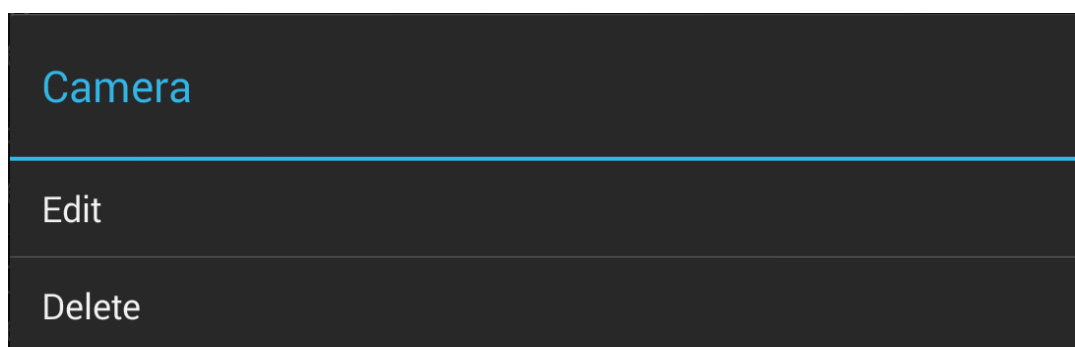
## 4.2.2 Edit / Delete IP Camera

The IP Camera information can be edited or deleted. Edit / Delete can be performed in 3 ways.

### 1. Long-pressing on the IP Cam list



In the IP Camera list, press on the specific IP Camera and do not let go until the following window pops up:



By pressing on **Delete** the IP Camera will be deleted from the list.

By pressing on **Edit**, you can view the Camera info and be able to change its information.





: Pressing on the button to delete the IP Camera from the list.



: Pressing on the button to display the IP Camera info for modifying its information.

After changing the IP Camera you can press one of the following options: (Please refer to section 4.2.1)

### 3. Live View (Not present on H-NVR / NVR side)



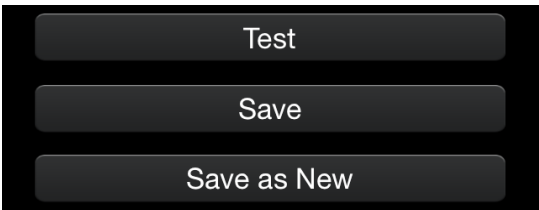
Press on the buttons located at the right-top corner of the screen.

The following window will pop up.

Press on **Edit** to edit the IP Camera settings.

After completing the IP Camera settings, you can press one of the following

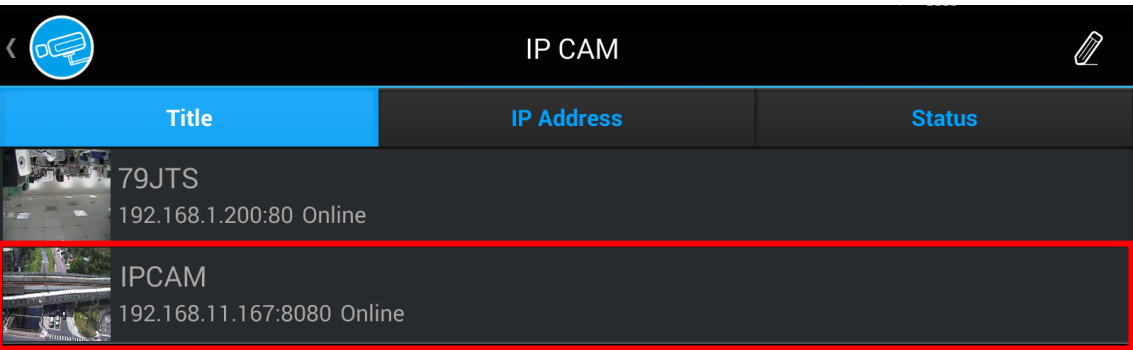
options: (Please refer to section 4.2.1)



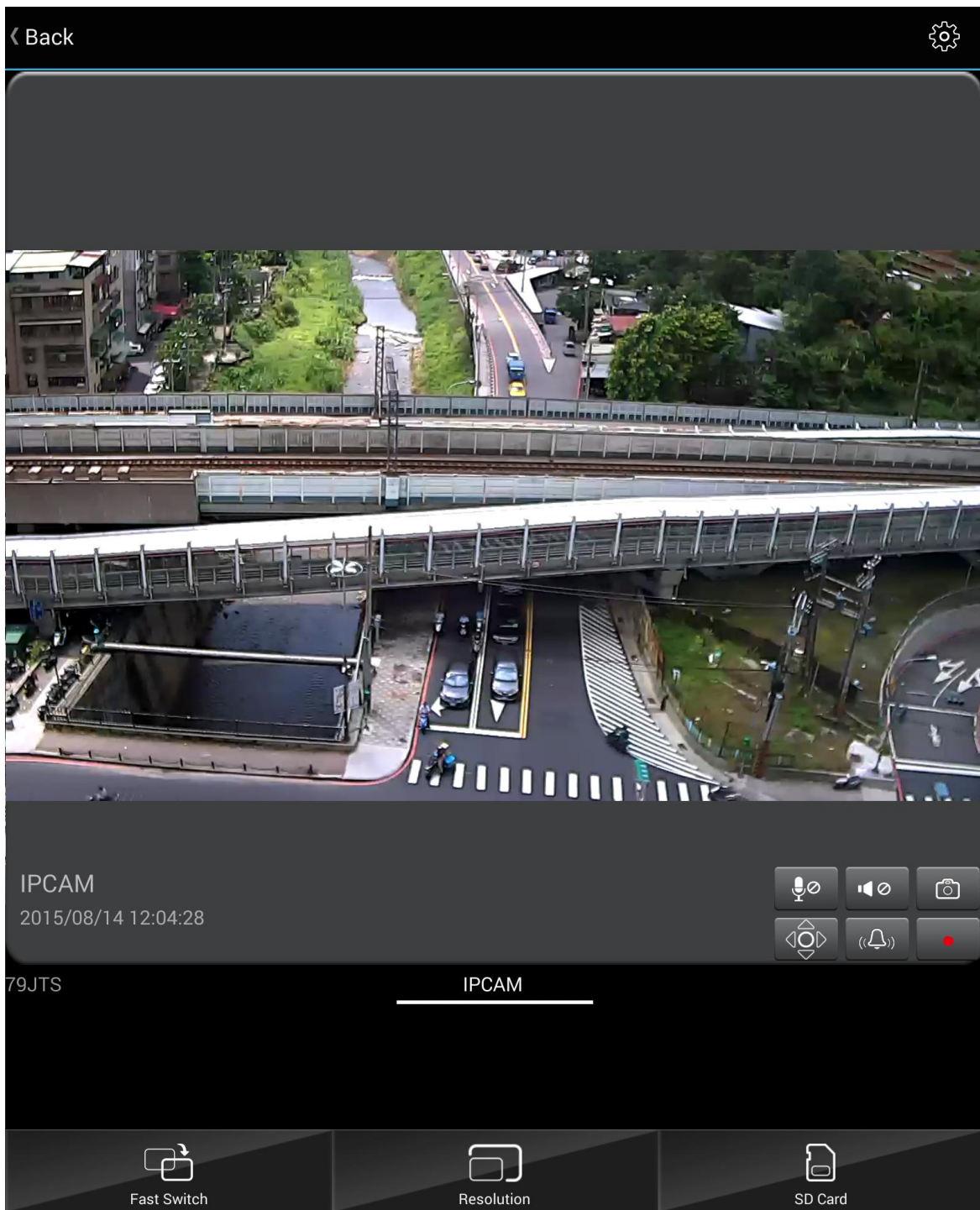
Press on **Auto Play**, the live views of each camera will automatically take turns switching to one another in time. Press **Stop** to quit this mode.

### 4.2.3 IP CAM Live View

Click on the IP Camera display icon on the list for entering the Live View Page.



- < Back** : Go back to previous page. : Settings
- : Enable / Disable Chatting options from IP Camera.
- : Enable / Disable audio from IP Camera. Please refer to section 5.9
- : Take a snapshot. : Change the relay state: ON / OFF
- : Enable / Disable PTZ controls (on PTZ Cameras only)
- : Recording a short video with the SD card installed in the IP Camera.



Switch the IP Camera Live view for another one on the IP Cam list



Change the resolution of the Live View: Medium / High

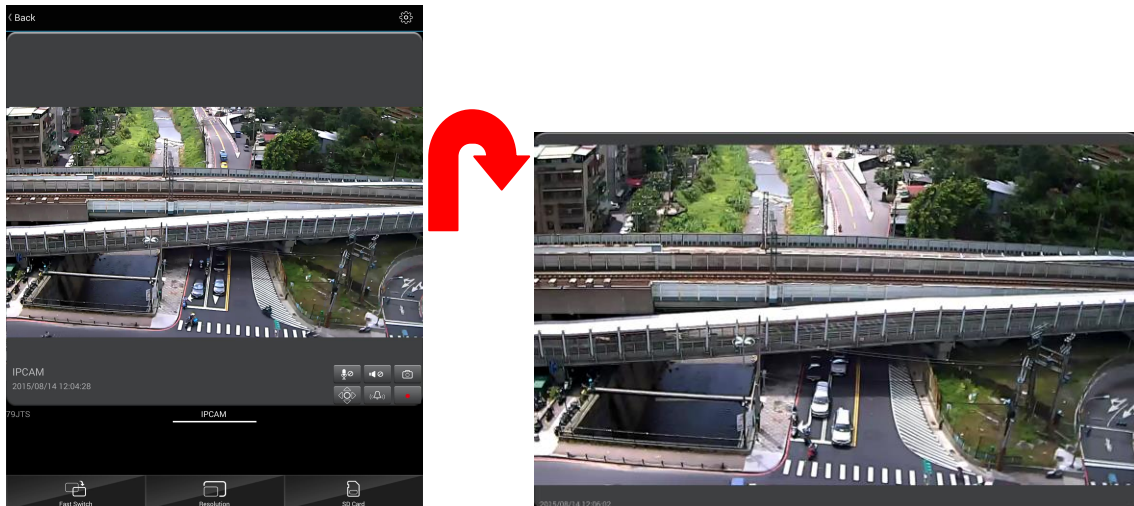


Display the files inside the SD card.

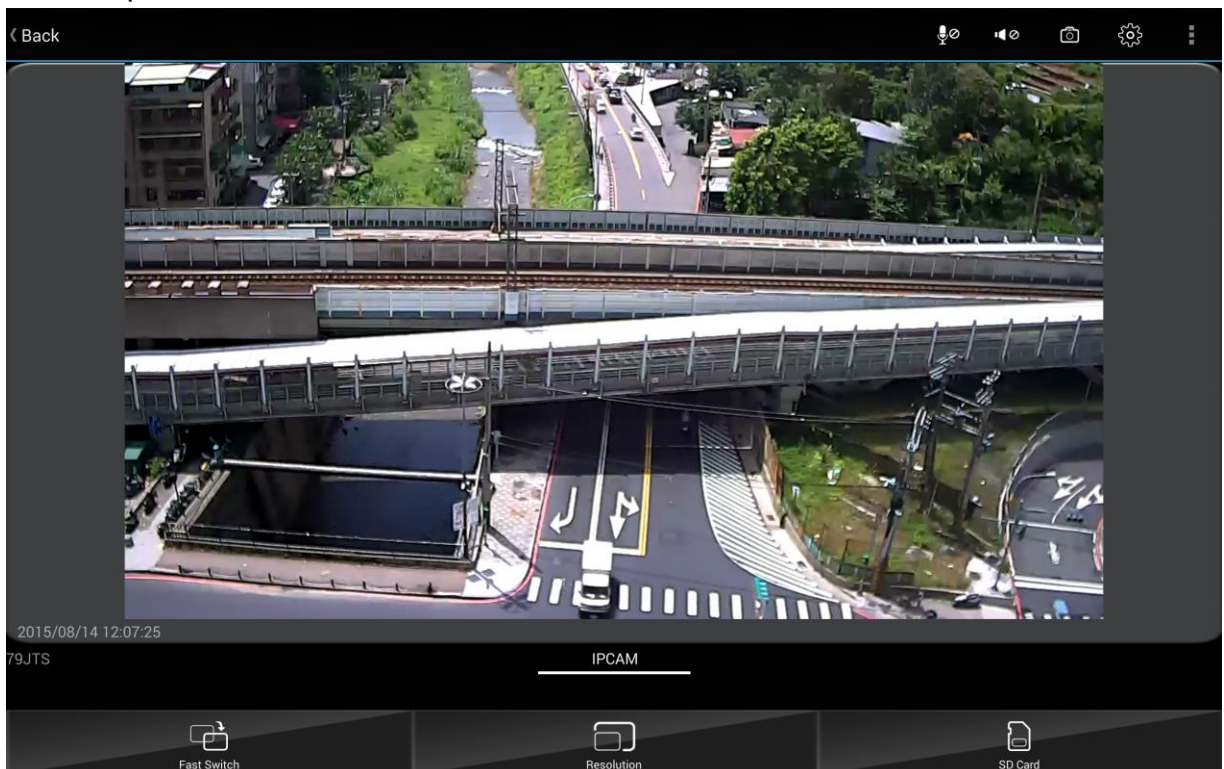
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## 4.2.4 Live view Landscape mode

When your mobile phone screen is flipped around, so will the display image of the live view mode.



However, due to the ratio size of your mobile phone, the live view may look like it is on full screen. When this happens, gently touch the mobile phone screen once to enter Landscape mode.




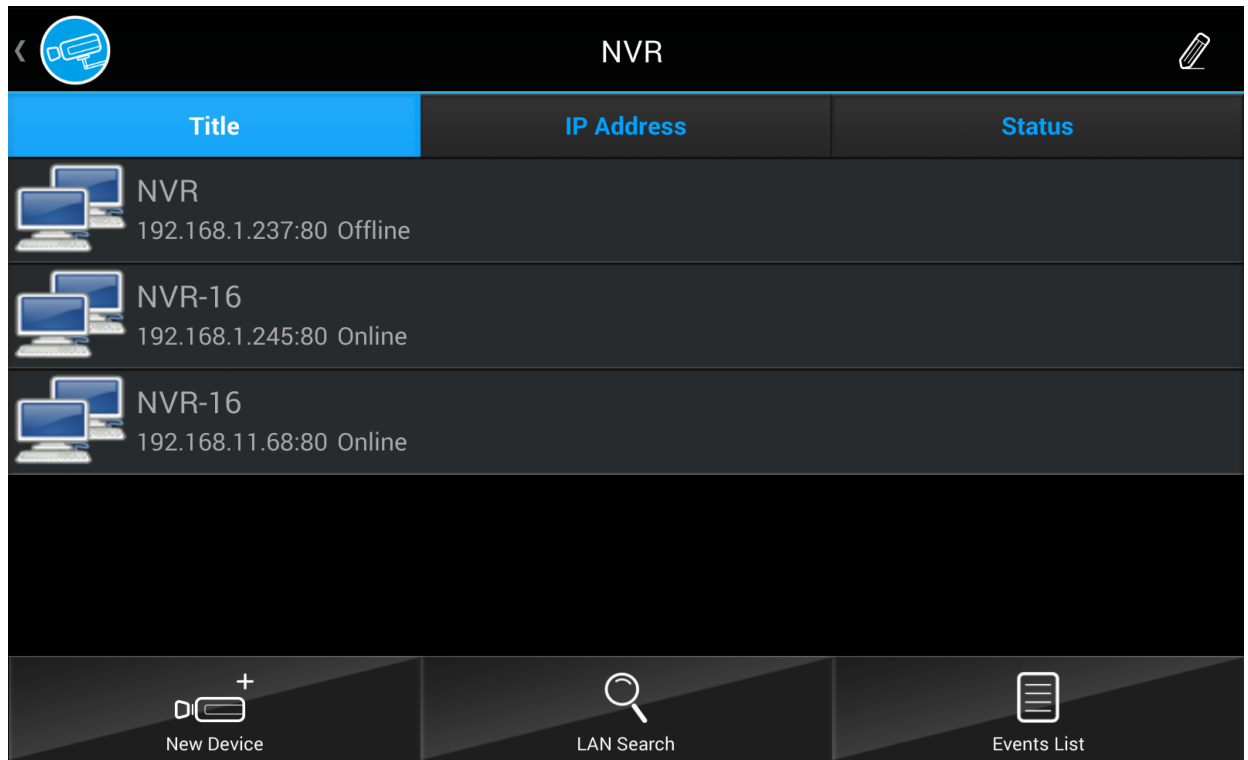
All the function buttons may be re-positioned on top of the Landscape mode screen.





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## 4.3 Hybrid NVR / NVR



By pressing the  button on the Home page the following page will open:



Title	IP Address	Status
Click to sort the H-NVR / NVR by Title, IP and Status from top to bottom orders.		
HOME	Go back to previous page.	
	Edit / Delete button.	
 New Device	Add a new NVR / Hybrid NVR.	
 LAN Search	Search for a NVR / Hybrid NVR in the LAN.	
 Events List	Display the Events List.	

P.S.: For operating DVRs, please use IPMotionLite

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## 4.3.1 Adding a New H-NVR / NVR




Similar to the IP CAM operation. **Please refer to section 4.2.1**

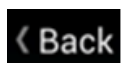
## 4.3.2 Edit / Delete

Similar to the IP CAM operation. **Please refer to section 4.2.2**

## 4.3.3 H-NVR / NVR Split Screen

Press on any of the H-NVR / NVR on the list for opening the Split Screen Page.

NVR		
Title	IP Address	Status
 NVR	192.168.1.237:80	Offline
 NVR-16	192.168.1.245:80	Online
 NVR-16	192.168.11.68:80	Online



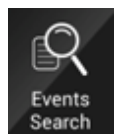
Go back to previous page



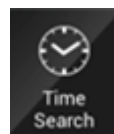
Auto Play



Switch between List View / (4, 9, 16) Split Screens view mode

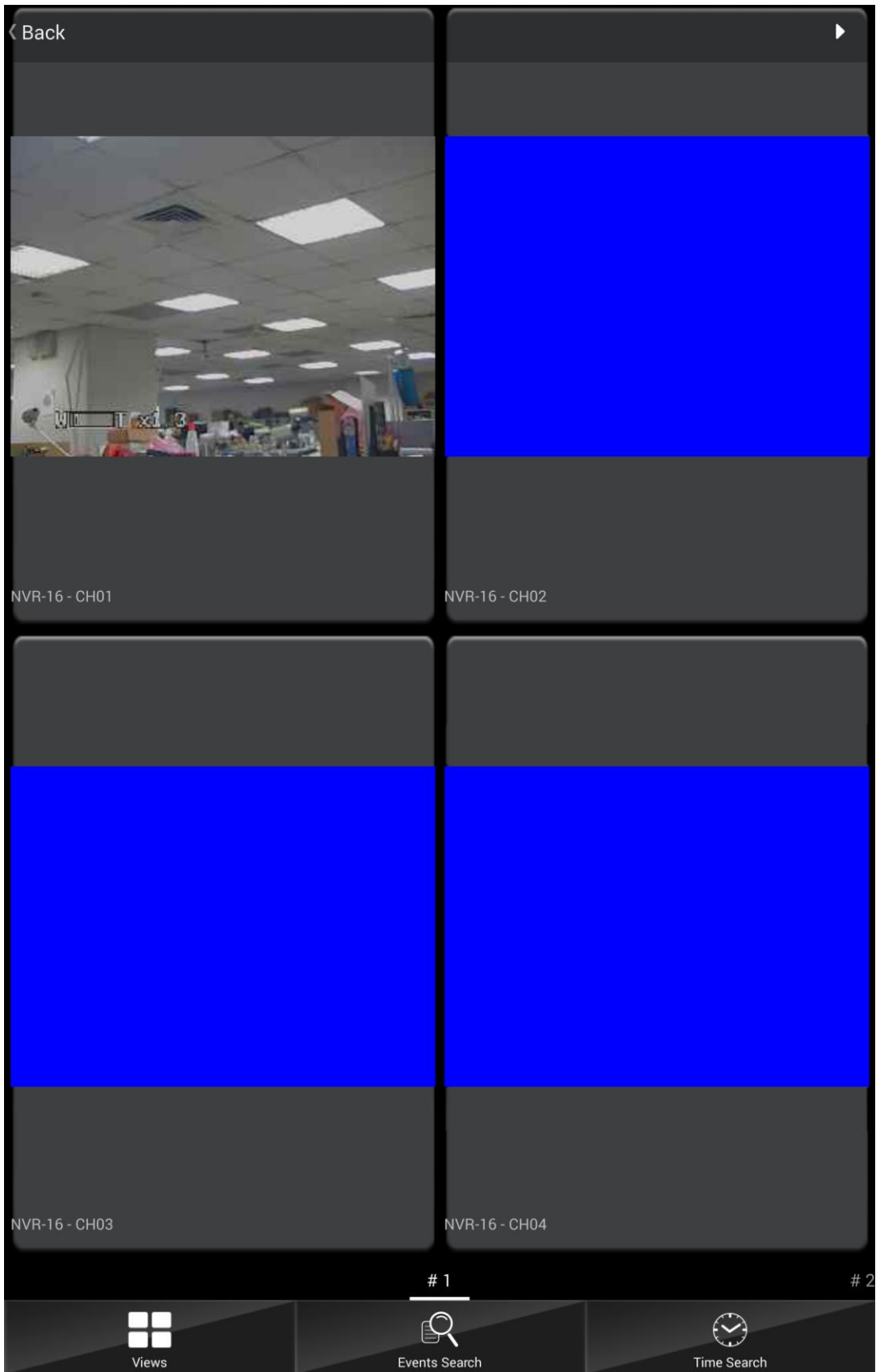


Open the Events Search page



Open the Time Search page

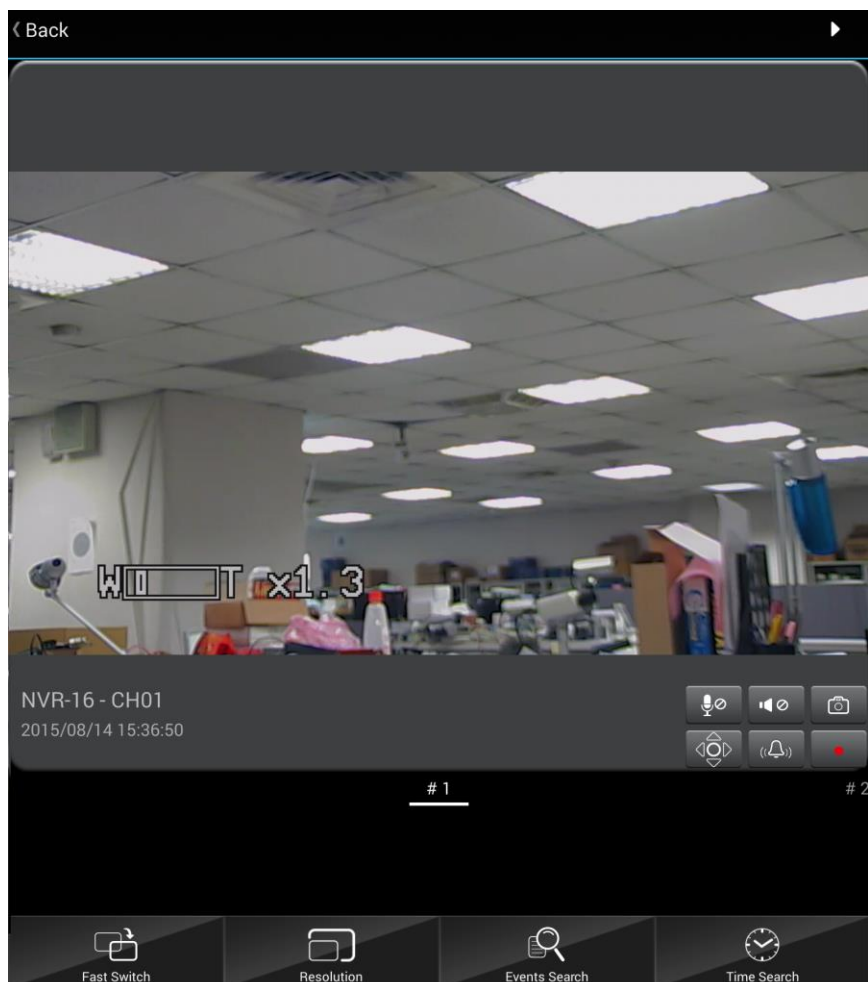
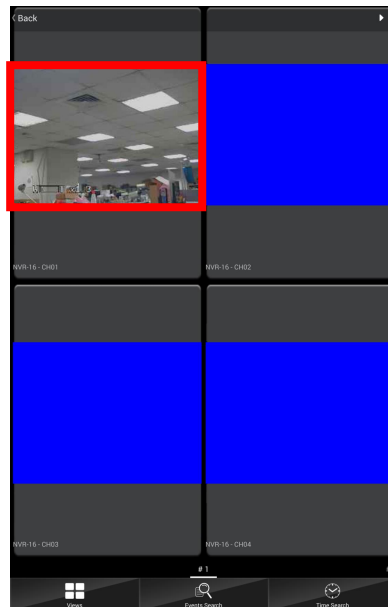
Please refer to the live view interface below.

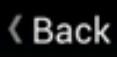











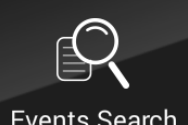



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## 4.3.4 H-NVR / NVR Single Channel View

Press on any of the H-NVR / NVR channels for opening the Single channel view page.



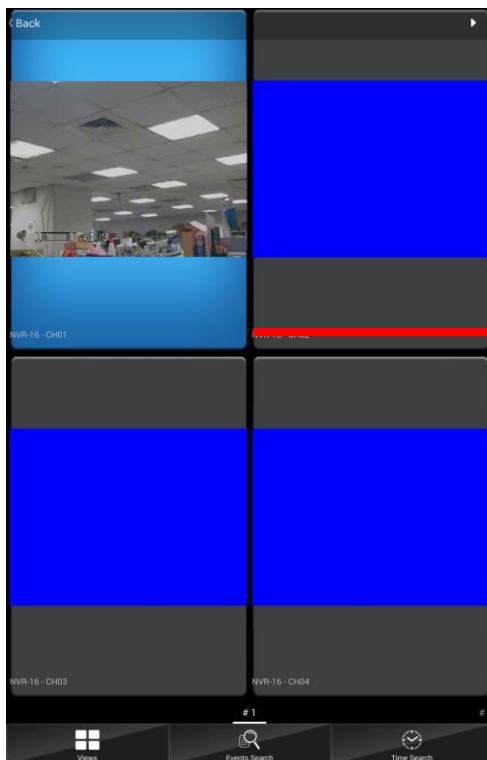
	Go back to previous page
	Auto play
 	Enable / Disable chatting & audio from IP Camera (Two way audio).
 	
	Enable / Disable PTZ controls (on PTZ Cameras only)
	Take a snapshot
	Change the relay state: ON / OFF
	Emergency recording: Records a short video into the SD card installed on the IP Camera.
 Fast Switch	Switch the Live view for another one on the IP Cam list
 Resolution	Change the resolution of the Live View: Medium / High
 Events Search	Open the Events Search page
 Time Search	Open the Time Search page

### 4.3.5 Live view Landscape mode

Similar to the IP CAM side. **Please refer to section 4.2.4**

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## 4.3.6 Fast Edit (NVR Only)



Touch and hold on anywhere besides the thumbnail preview image to edit your NVR settings.

If the thumbnail image is touched instead, you will only enter the live view mode.

A screenshot of the 'NVR fast edit' screen. It shows fields for Title (CH01), IP Address (192.168.200.23), Port (80), Account (admin), and Password (\*\*\*\*\*). There are 'Save' and 'Disable' buttons at the bottom.

# 5. Operations

## 5.1 Push Video

Push Video is a function triggered when the IP camera / H-NVR / NVR detects motion. The IP device will send notification together with the video event.

### BEFORE USING PUSH VIDEO:

- Make sure the IP camera has access to the Internet.
- Make sure the mobile device has access to the Internet.

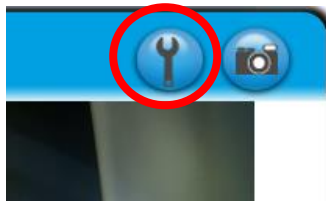
- 
- Make sure the SD / Micro SD card is properly installed in the IP camera. For H-NVR / NVR, make sure the HDD is properly installed.

**NOTE:** With the NVR device, if a HDD has been installed, there is no need to install a SD card in the IP Camera device.

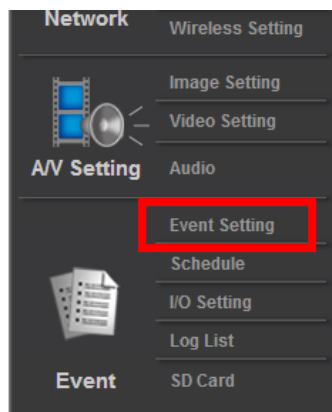
- Complete recording and event settings on the IP Camera and/or H-NVR / NVR device.

#### Setting up the IP Camera:

1. Open your browser and type-in the IP address of the IP camera.
2. Click on the **administration page** button located at the right-top corner.



3. On **administration page** click on **Event Setting**.



4. Set the area motion and tick on **Save to SD Card**. Also, set the interval time for detecting motion events. It is recommended to set **60 seconds**.

Area Setting:

Sensitivity:

Area 1: ☐ E-mail ☐ FTP ☐ Out1 ☐ Save to SD card ☐ Samba

Area 2: ☐ E-mail ☐ FTP ☐ Out1 ☐ Save to SD card ☐ Samba

Area 3: ☐ E-mail ☐ FTP ☐ Out1 ☐ Save to SD card ☐ Samba

Subject: IP Camera Warning!


Interval: 10 sec a period of time between every two motions detected.

☐ Based on the [schedule](#)

5. **Record Time Setting:** Set the video length for the video which will be same as the video received by the push video notification. Click on **APPLY** to save.

Record Time Setting

Pre Alarm: 5 sec Post Alarm: 5 sec

6. Press on  to enter the setting page where you can turn on the **Push Video** button when adding or editing an IP camera.

Push Video ☐ ON

Resolution ☐ High ☐ Medium

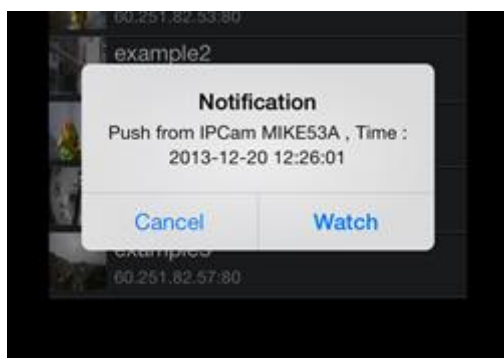
After adding / changing the IP Camera info, press **Save** to apply the changes.

Save

Setting up the H-NVR / NVR: Please refer to the H-NVR / NVR manual.  
Your phone will receive notifications when the IP device detects a motion.

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### While using IPmotion



### While performing another activity



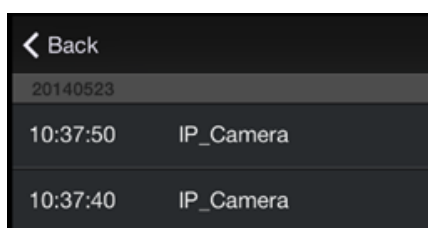
The APP can display up to **1, 5 or 10** notifications, depending on your settings.

If you received the notification while using IPmotion, please press on **“Watch”**, to see more details about the notifications.

If you received the notification while performing another action, please open the notification bar and press on any “Push Video” event to see more details about the notifications.

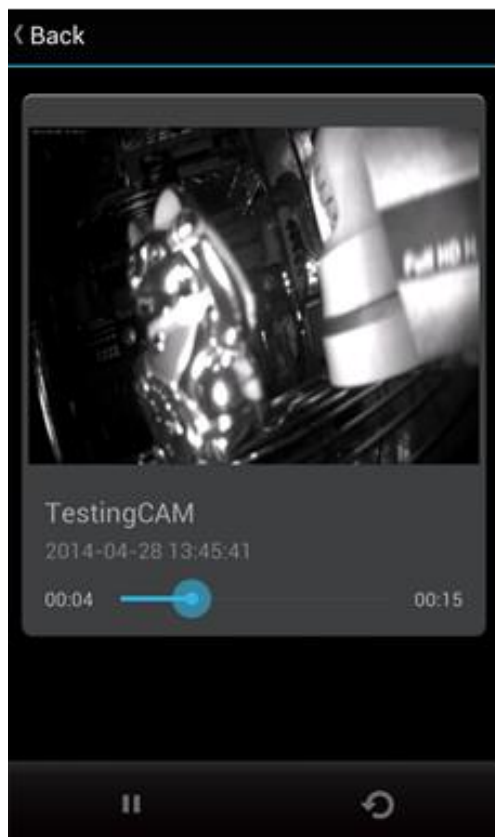
The notifications message structure is as the following:

- Push Video from IP Camera: Displays the Camera Name (**name set on the machine, not the name set on IPmotion**) and time when events occur.
- Push Video from H-NVR / NVR: Displays the H-NVR / NVR Name (**name set on the machine, not the name set on IPmotion**), channel number and the time when events occur.



Then, press on any notification to see a list of the recent events registered on the APP, classified by date and time.

Press on any of the recent events to playback the video related with the event.



< Back

Go back to the previous page.



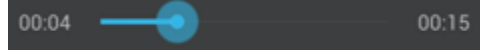
Play the video




Pause the video



Replay the video



Scroll bar for forward / backward the video

Press  for going to Edit page where you can turn off push video notifications by again pressing on the **Push Video** button.



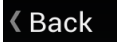

---

## 5.2 LAN Search



Press on  button to search IP devices connected to the LAN network.

< Back		↻	
S30		192.168.23.1:80	
7ACT		192.168.22.51:80	
1WCD		192.168.23.15:80	
79CT		192.168.23.62:80	
79CT		192.168.23.64:80	
IP_Camera		192.168.23.133:80	

Press  button to return to main screen. Press  button to search again in the LAN network. Pressing on any of the IP Devices will open the edit interface for adding them.

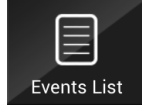
< Back	
Status	Online
Title	Camera
IP Address	118.163.124.13
Port	8116
Account	admin
Password	.....
Push Video	<input type="checkbox"/> OFF
Resolution	High Medium
Test	
Save	
Save as New	

**NOTE:** For the **Search LAN** function the phone must be connect to **WiFi**. The function will not work under 3G or 4G.

---

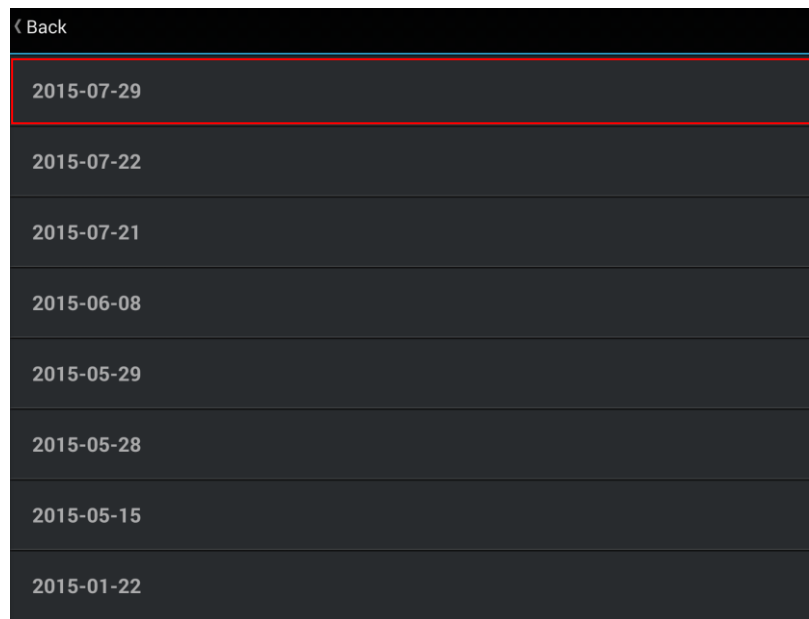
---

## 5.3 Events List



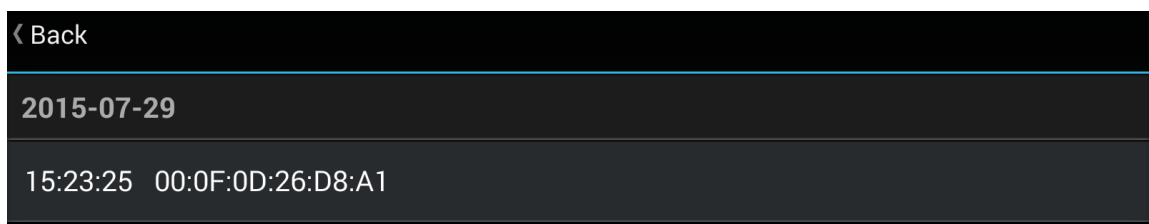
Press on the  button for displaying the events list.

Press on  or the button of the phone device to return to previous screen.

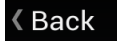


Back
2015-07-29
2015-07-22
2015-07-21
2015-06-08
2015-05-29
2015-05-28
2015-05-15
2015-01-22

Press on the specific date to display the event occurred on that specific date.



Back
2015-07-29
15:23:25 00:0F:0D:26:D8:A1


Press back with the phone or press on the  button to go back to previous screen. Press on any event to playback the video related with the event.

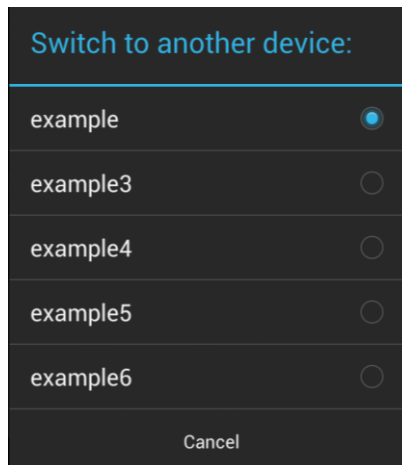
**NOTE:** The APP will store the history of all the events occurred after the installation, but it doesn't mean that all the videos can be found. If the video was already deleted from the SD card it will display an **Invalid Video** error, meaning the video is not stored anymore in the SD card / HDD.

---

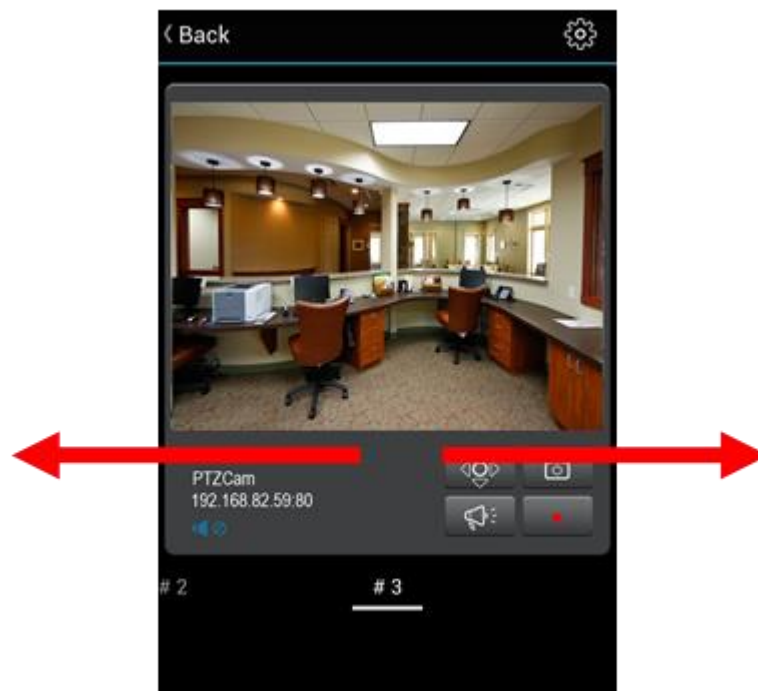
## 5.4 Fast Switch View



On Live View press on the  button to switch the IP Camera Live view for another one on the IP Cam list.



You can also change the view by sweeping with your finger to left-right of the bottom side of the view.



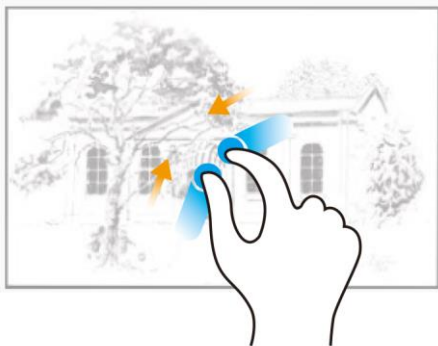
---

## 5.5 Zoom Control

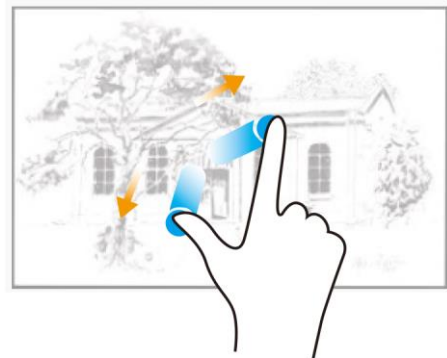
### a. Digital Zoom

- Digital Zoom can be performed in all camera types. Pinch open / pinch close for zoom in / out the live view.

Pinch open

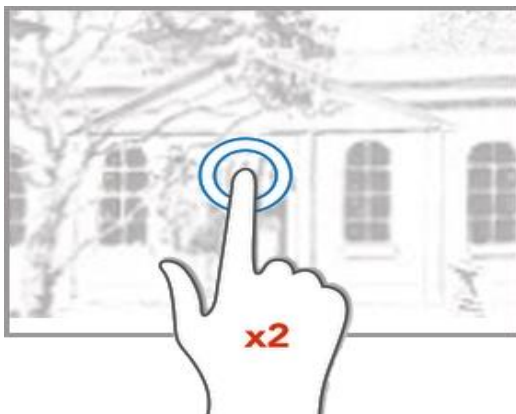


Pinch close

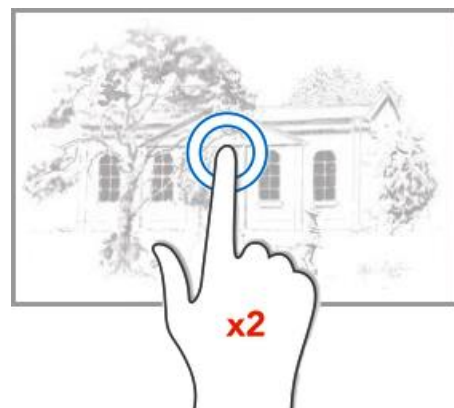


- Zoom In / Out can be performed by double tapping in the image.

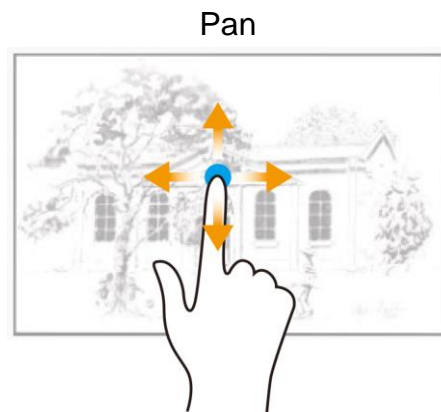
Zoom In




Zoom Out

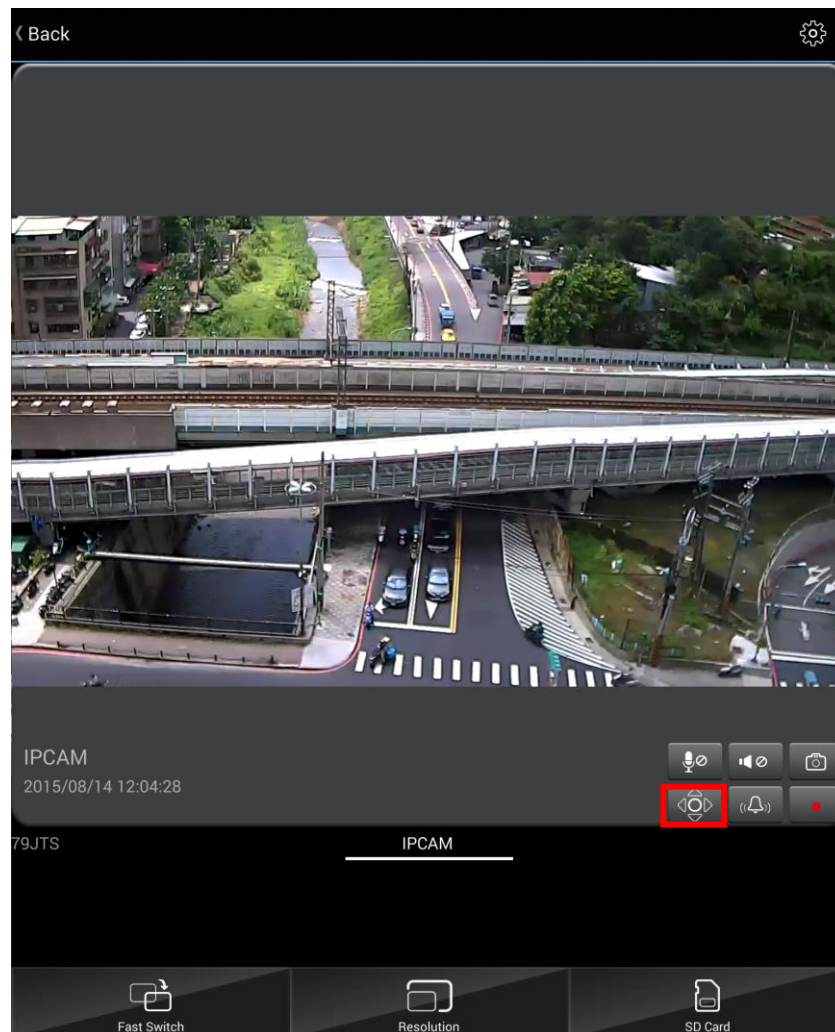


- During Zoom the image can be **panned** in four directions.




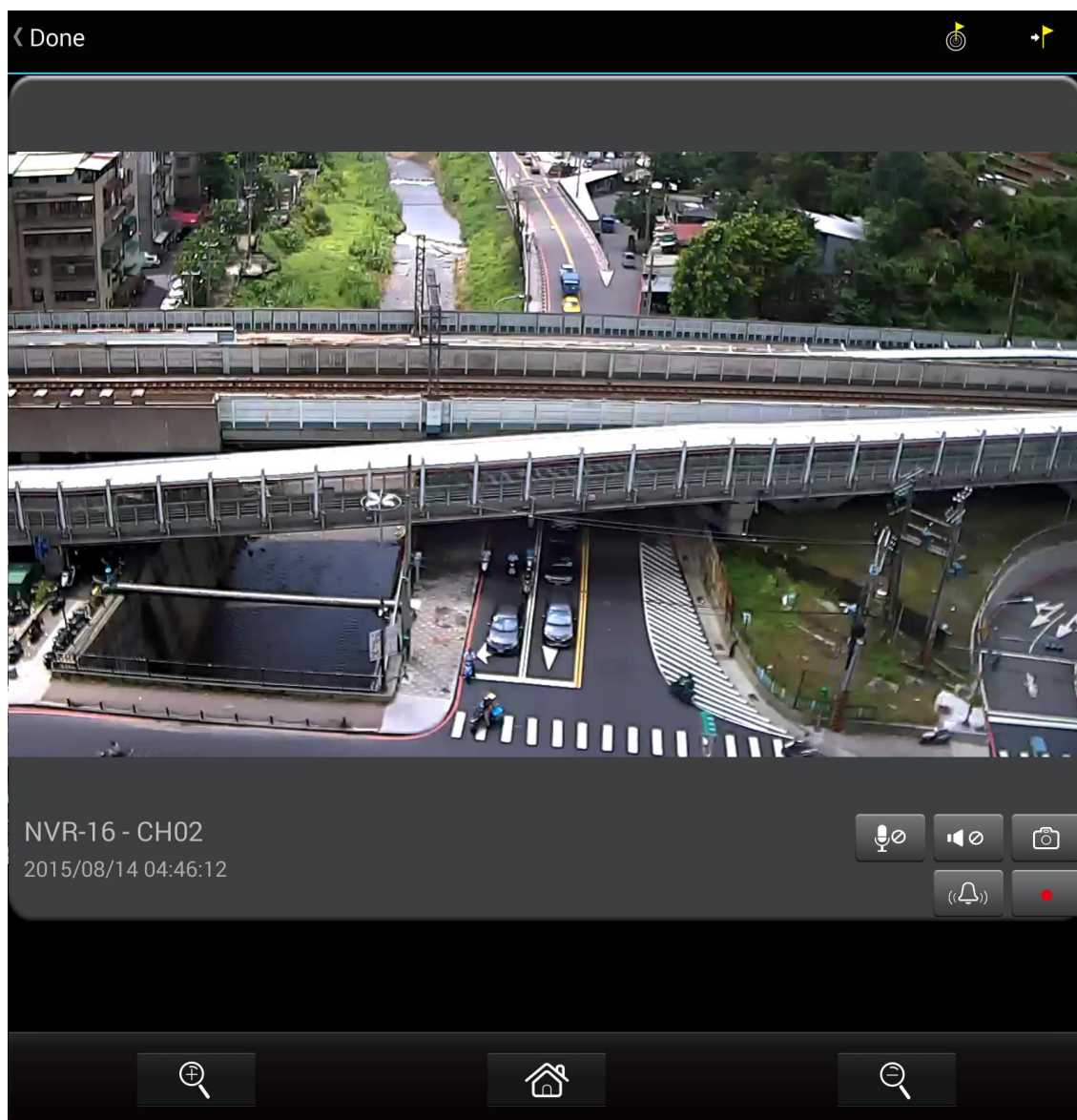
## b. PTZ control

If the IP camera supports PTZ control, the  button will be displayed in the bottom of the live view.



---

After pressing on the  button the live view page will change as the following:



: Preset up to 10 PTZ points.



: Load up to 10 PTZ points.



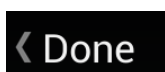
and



: Zoom In / Out. It can also be performed by double tapping in the image.



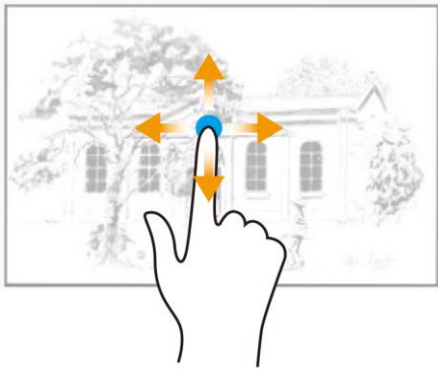
: Reset the PTZ camera into its default position.





: Close the PTZ control.

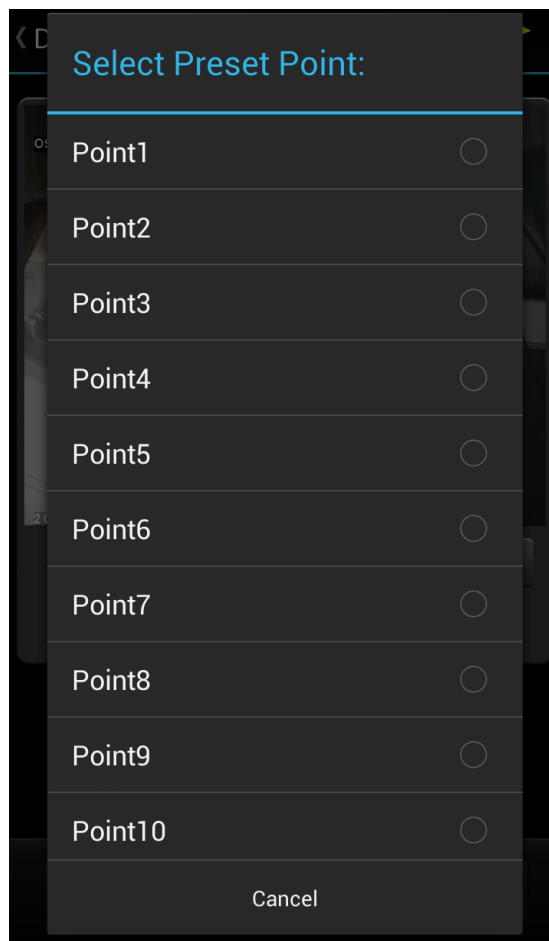
---

The PTZ movement is performed by **flicking** on the image.



### c. Set / Load Preset Points

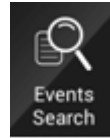
When pressing the  and  buttons the following list will be displayed on the page.

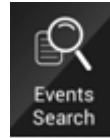


You can Save / Load the first 10 preset points of the PTZ camera. After selecting the point the list will be closed.

---

## 5.6 Events Search



On the H-NVR / NVR Live View you can press on  for opening the following interface for searching events.

A screenshot of the 'Events Search' interface. It has a dark background. At the top left is a '< Back' button. Below it are four search criteria: 'Start' with the value '2014-05-05 12:13', 'End' with '2014-05-06 12:13', 'Type' with a dropdown menu showing 'All', and 'Channel' with a dropdown menu showing 'All'. At the bottom is a large button with a magnifying glass icon.

Start: Select the search start point (**Date and Time**).

End: Select the search end point (**Date and Time**).

Type: Select between different event types.

Channel: Select the Channel name where the events will be searched.

**Note:** On single Live View there is no need to select the channel name. The search will be made in the current Live View.

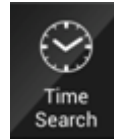


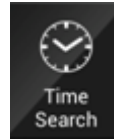
Press on  for start the searching.

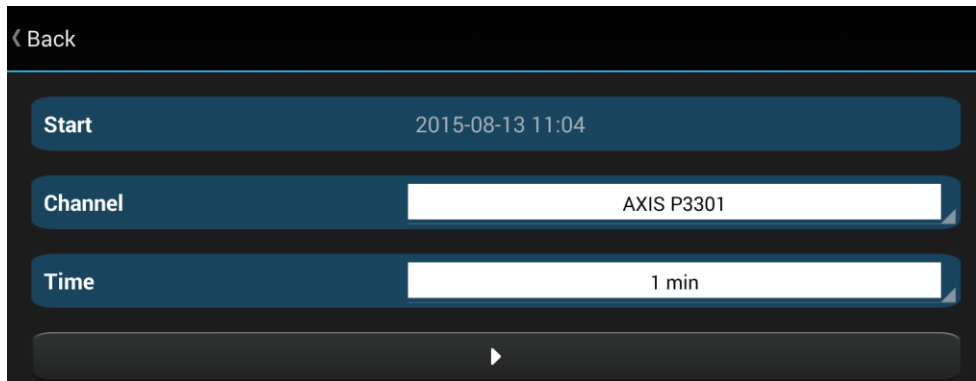
**Note:** After finding the video the user can perform playback, but not all the events type has a video linked to it, this is related to the machine FW specs.

---

## 5.7 Time Search



On the H-NVR / NVR Live View you can press on  for opening the following interface for playback from a specific time point.



The screenshot shows a dark-themed interface for time search. At the top left is a '< Back' button. Below it are three input fields: 'Start' with the value '2015-08-13 11:04', 'Channel' with the value 'AXIS P3301', and 'Time' with the value '1 min'. At the bottom is a large play button icon.

Start: Select the search start point (**Date and Time**).


Channel: Select the Channel name where the events will be searched.

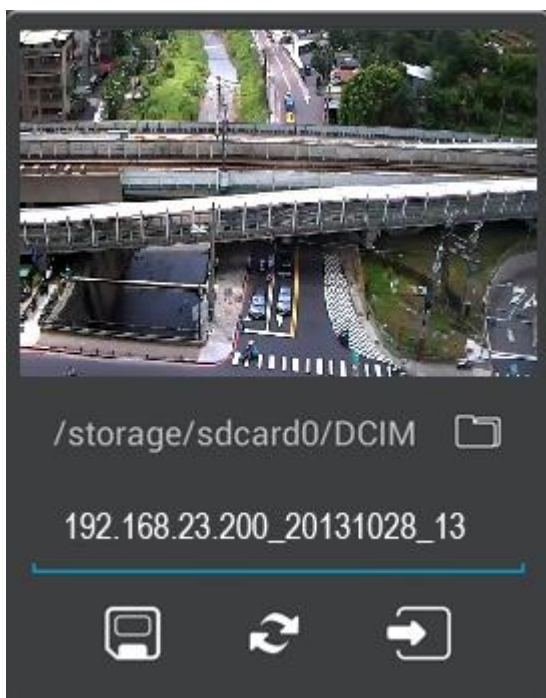
Time: Select how many times the playback image is displayed.

**Note:** On single Live View there is no need to select the channel name. The search will be made in the current Live View.

## 5.8 Snapshot



You can take a snapshot by pressing the  button on Live View and PTZ / Digital Zoom control mode. The following interface will pop out showing the snapshot taken.



Select the path where the snapshot will be stored.



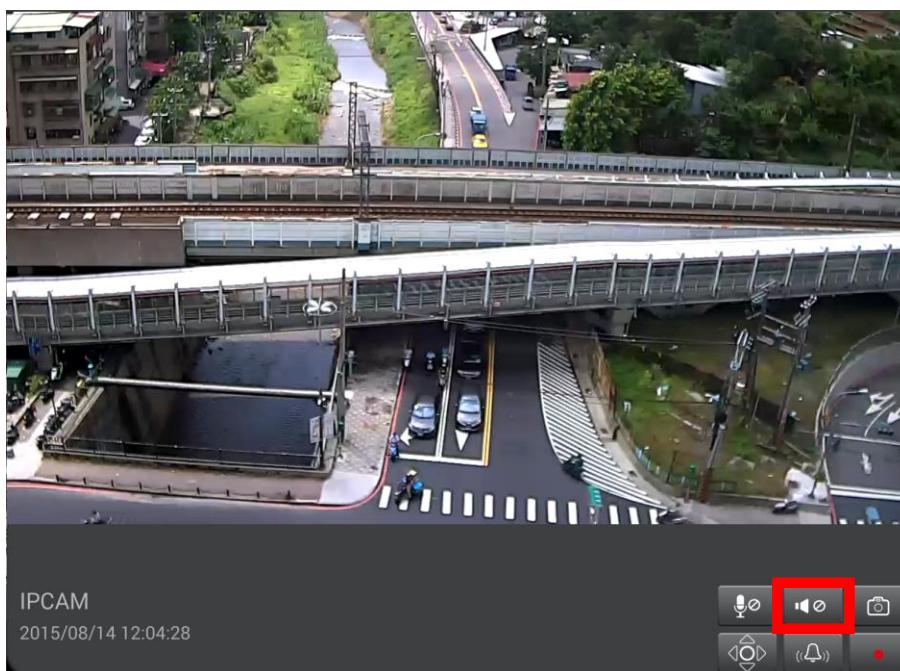
Refresh the snapshot.



Exit and close the window.

## 5.9 Open / Close two way audio

On Live View mode you can open / close audio from IP Camera / NVR / H-NVR.



The states of the audio/chat are displayed below the live image.



Audio off



Audio on



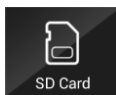
Microphone off

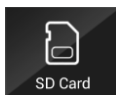


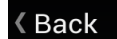
Microphone On

**Note:** A microphone must be also turned on and connected to the IP Camera to fully enable the two way audio function.

## 5.10 SD card reading



Press on  button to read the SD card data inside the IP Camera.

Press  button or operate the phone to return to main screen. Press on a specific date to read the content.

< Back
2013-10-25
2013-10-24
2013-10-22
2013-10-21
2013-10-16
2013-10-11

< Back

20131028

07:50:32

H.264 Video

07:50:42

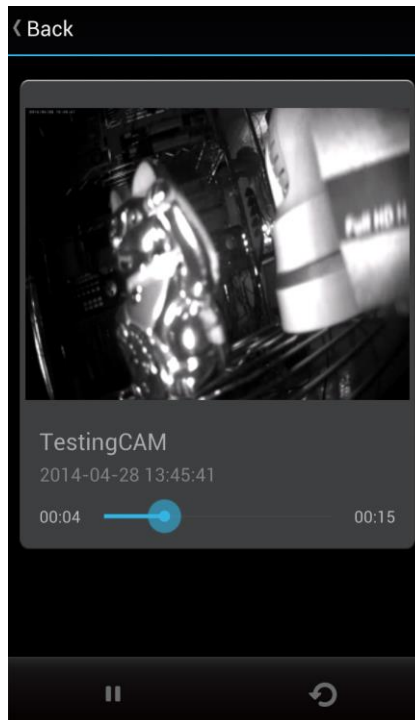
H.264 Video

07:50:53

H.264 Video

07:51:03

H.264 Video



Press on the **< Back** button or operate the phone to return to previous screen.  
Press on any H.264 to watch the video.

## 5.11 Auto Play



On Live View mode, press on the button located at the right-top corner of the screen for starting **Auto Play** function

By pressing on **Auto Play** the Live View mode will start switching according with the **Auto Play** settings on the **Settings** section. The available values are: **10 seconds, 15 seconds, 30 seconds, 60 seconds.**



For stopping the **Auto Play** function, press on the button.

---

## 5.12 Easy Link (Optional)

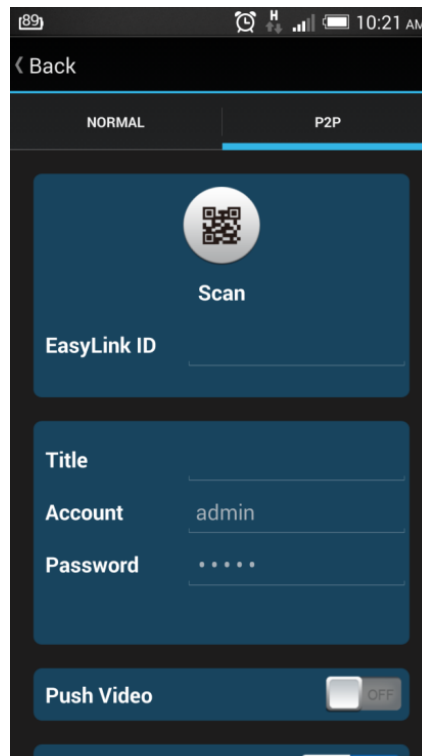


The image shows a software window titled "EasyLink". Inside, there is a label "EasyLink ID:" followed by a text box containing the alphanumeric string "FRPU8N6WV9FCTG6GUHZ1". Below this, there is a label "QR Code:" followed by a square QR code. In the bottom right corner of the window, there is an "Apply" button.

Install **IPMotion EasyLink App** on your mobile phone to access **EasyLink** operations which allow users to watch IP Camera live view on their mobile phones.

Once the installation is done, either enter the **EasyLink ID** from the IP camera web browser, or simply scan the **QR Code** to log in to your IP camera through **IPMotion EasyLink App** and watch the live view.

### Android Version



The image shows a screenshot of the "EasyLink" app on an Android phone. At the top, there's a status bar with icons for signal, battery, and time (10:21 AM). Below the status bar is a navigation bar with a "Back" button. The main interface has two tabs: "NORMAL" and "P2P", with "P2P" being the active tab. Under the "P2P" tab, there is a "Scan" button with a QR code icon. Below the "Scan" button is an "EasyLink ID" input field. Further down, there are fields for "Title", "Account" (with the value "admin"), and "Password" (with masked characters "\*\*\*\*\*"). At the bottom, there is a "Push Video" toggle switch, which is currently set to "OFF".

Note: Your smartphone must be equipped with a camera and featured with a QR code scanner application.