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# User Manual

## IPmotion



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# Content

<b>1. PREFACE .....</b>	<b>3</b>
<b>2. FEATURES .....</b>	<b>3</b>
<b>3. INSTALLATION.....</b>	<b>3</b>
<b>4. GUI DESCRIPTION.....</b>	<b>5</b>
<b>4.1 HOME .....</b>	<b>5</b>
<b>4.2 IP CAM .....</b>	<b>6</b>
<i>4.2.1 Adding a new IP Camera .....</i>	<i>7</i>
<i>4.2.2 Edit / Delete IP Camera.....</i>	<i>10</i>
<i>4.2.3 IP CAM Live View.....</i>	<i>11</i>
<i>4.2.4 Live view Landscape mode .....</i>	<i>13</i>
<b>4.3 HYBRID NVR / NVR.....</b>	<b>14</b>
<i>4.3.1 Adding a New H-NVR / NVR.....</i>	<i>14</i>
<i>4.3.2 Edit / Delete .....</i>	<i>14</i>
<i>4.3.3 H-NVR / NVR Split Screen .....</i>	<i>15</i>
<i>4.3.4 H-NVR / NVR Single Channel View .....</i>	<i>16</i>
<i>4.3.5 Live view Landscape mode .....</i>	<i>17</i>
<i>4.3.6 Fast Edit (NVR Only).....</i>	<i>17</i>
<b>5. OPERATIONS.....</b>	<b>17</b>
<b>5.1 PUSH VIDEO.....</b>	<b>17</b>
<b>5.2 LAN SEARCH.....</b>	<b>22</b>
<b>5.3 EVENTS LIST .....</b>	<b>23</b>
<b>5.4 FAST SWITCH VIEW .....</b>	<b>24</b>
<b>5.5 ZOOM CONTROL.....</b>	<b>25</b>
<b>5.6 EVENTS SEARCH .....</b>	<b>28</b>
<b>5.7 TIME SEARCH.....</b>	<b>29</b>
<b>5.8 SNAPSHOT .....</b>	<b>30</b>
<b>5.9 OPEN / CLOSE TWO WAY AUDIO .....</b>	<b>30</b>
<b>5.10 SD CARD READING .....</b>	<b>31</b>
<b>5.11 AUTO PLAY.....</b>	<b>32</b>
<b>5.12 EASY LINK (OPTIONAL) .....</b>	<b>33</b>

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

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

#### **A. Installation via QR code**


1. Scan the following QR code with your iPhone.




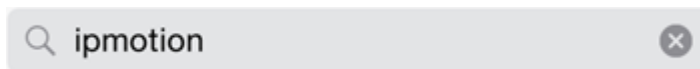
**NOTE:** You need a QR code scanner installed on your phone first.

2. After scanning the code. The phone will open the APP store, displaying the **IPmotion** general information. **Please go to point 7.**

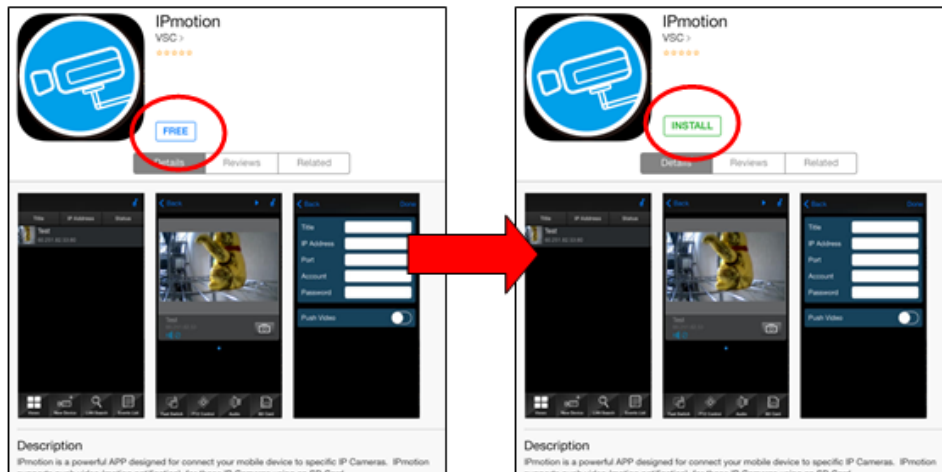
#### **B. Installation via APP Store**


3. Press  icon on your phone desktop to open APP store interface.

4. Press  icon to access **search bar** and key-in **IPmotion** to locate the software.



5. When the APP general is displayed press on **Free** and then **Install** to start the installation.

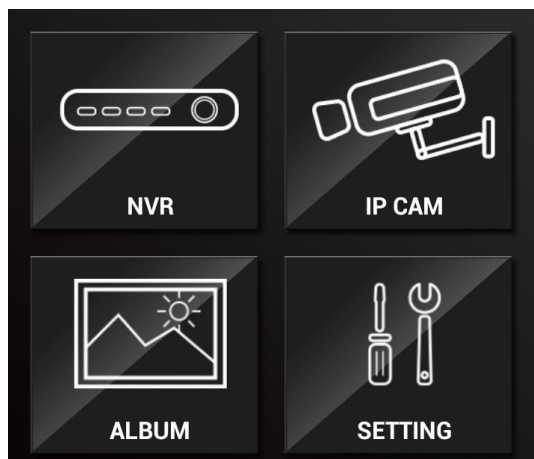


6. After completing the installation, the **IPmotion** icon  can be found on your phone desktop. Press on the icon for opening the APP.

## 4. GUI Description

### 4.1 Home

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

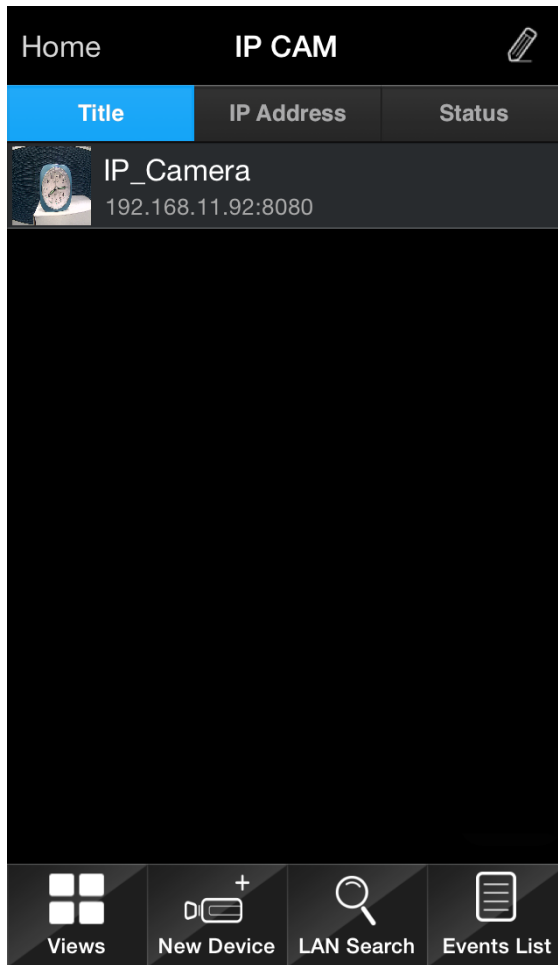


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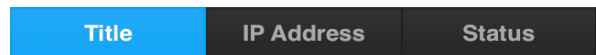
## 4.2 IP CAM



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



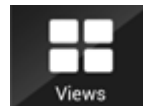
Go back to previous page.



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



Edit / Delete button.



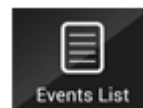
Switch between List View / 4 Split Screens / 9 Split Screen / 16 Split Screen split view mode.



Add a new IP Camera.



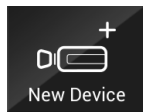
Search for a IP Camera within the LAN.

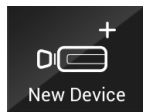


Display the Events List.

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## 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:

A screenshot of a mobile application interface for adding a new IP camera. At the top left is a '< Back' button. Below it are five input fields: 'Title' with 'IP\_Camera', 'IP Address' with '192.168.11.92', 'Port' with '8080', 'Account' with 'admin', and 'Password' with five dots. Below these fields is a 'Push Video' toggle switch, which is currently turned off. At the bottom is a 'Resolution' section with two buttons: 'Medium' (selected) and 'High'.

**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.**

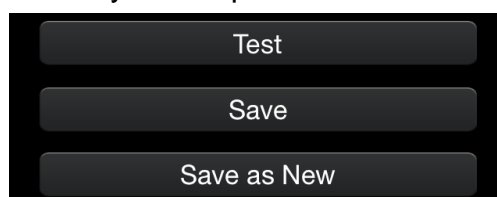
**Resolution:** Select between High / Medium resolution for Live View.

**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
Information incomplete (All fields require an input)	<div>Username/password is incorrect</div> <div>Confirm</div>
The IP Camera is off-line	<div>This device is offline. Would you like to save it anyway?</div> <div>CancelConfirm</div> <p>By pressing on <b>Confirm</b> the IP Camera will be added displaying an off-line state</p>
Invalid account name or password	<div>Error Please Complete Input Fields</div> <div>OK</div>
	<div>You do not have admin authority !</div> <div>CancelConfirm</div> <p>Displayed when the account typed-in has no "Administrator" level. The device will be added with limited functions.</p>

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**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:

<b>On-line</b>	 <div>CameraTest 192.168.23.200:80 Online</div> <p>Displays snapshot from current Live View</p>
<b>Off-Line</b>	 <div>CameraTest 192.168.23.200:80 Offline</div> <p>Connection loss</p>
<b>Incorrect Account</b>	 <div>CameraTest 192.168.23.200:80 Incorrect Account</div> <p>Incorrect account name or password</p>
<b>Not IP CAM</b>	 <div>CameraTest 192.168.23.200:80 Not IPCam</div> <p>The device added is not an IP Camera</p>
<b>Connecting</b>	 <div>CameraTest 192.168.23.200:80 Connecting...</div> <p>The APP tries to re-connect the IP Camera after a login error or a connection loss.</p>


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

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## 4.2.2 Edit / Delete IP Camera

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

### 1. Pressing on Edit / Delete button

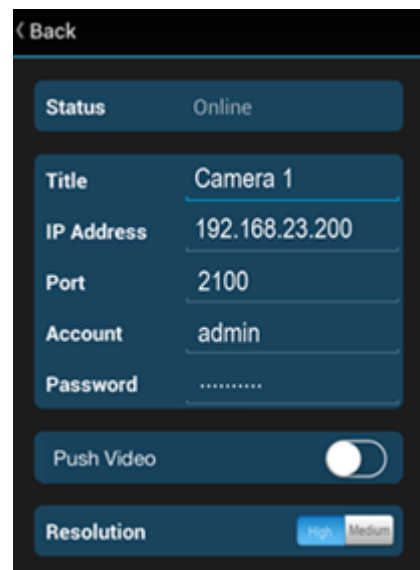
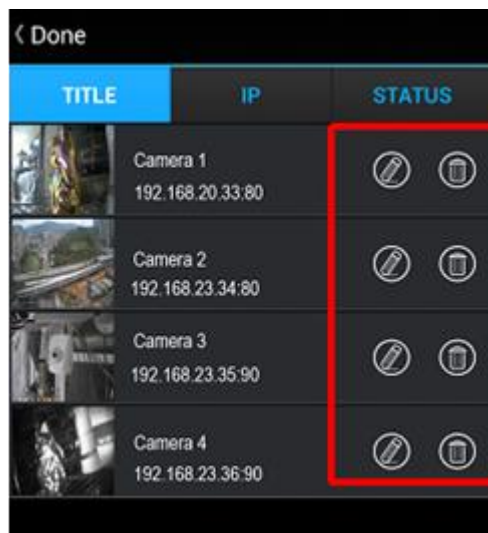
Press on the  button for enabling the edit / delete mode.



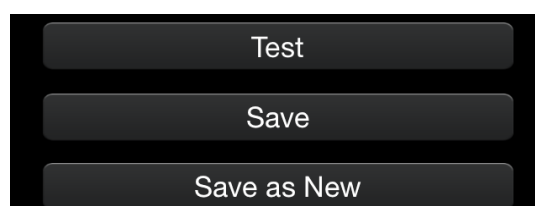
: Pressing on the button to delete the IP Camera from the list.



: 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)



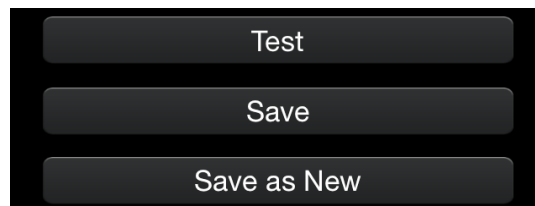
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## 2. Live View (Not present on H-NVR / NVR side)



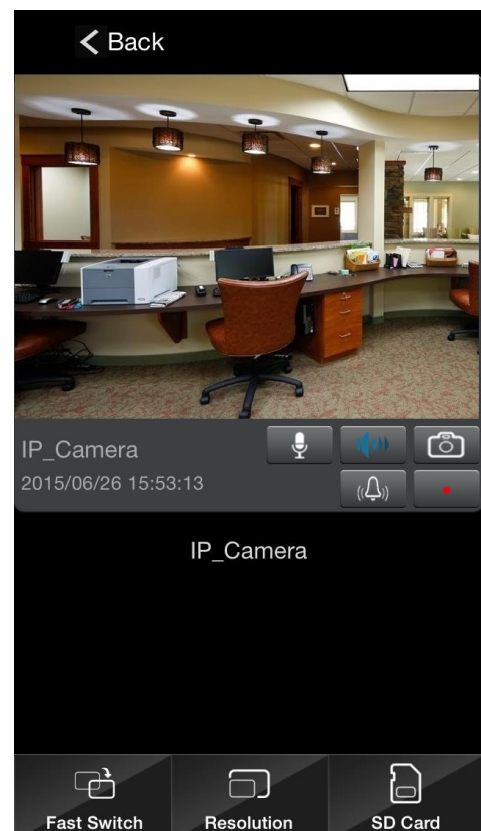
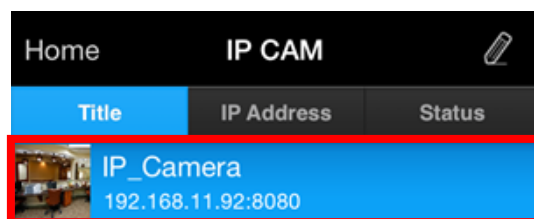
Press on the  buttons located at the right-top corner of the screen for being able to change the IP camera information.


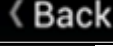











After changing the IP Camera you can press one of the following options: (**Please refer to section 4.2.1**)



### 4.2.3 IP CAM Live View

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

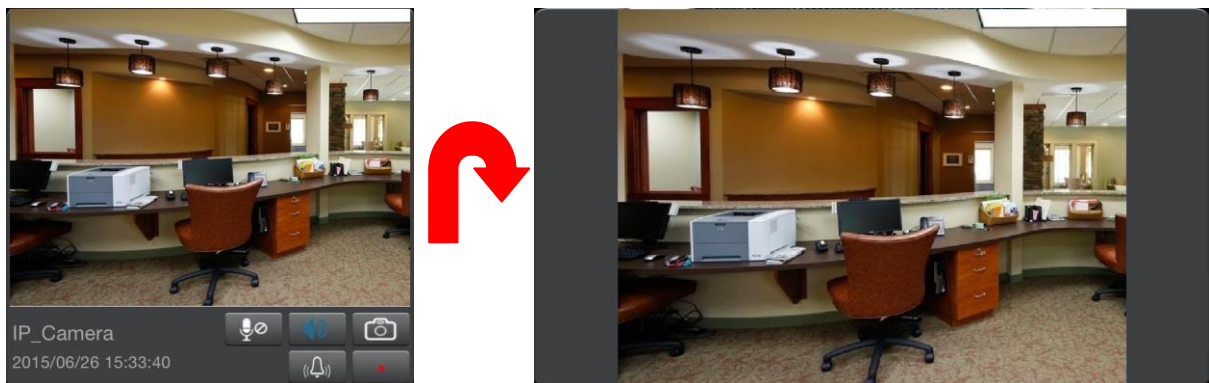


		Go back to previous page
		Auto Play
		Edit
		Enable / Disable Chatting options from IP Camera.
		Enable / Disable audio options from IP Camera. Please refer to section 5.9
		Take a snapshot
		Enable / Disable PTZ controls (on PTZ Cameras only)
		Change the relay state: ON / OFF
		Emergency recording: Records a short video into the SD card installed on 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.	

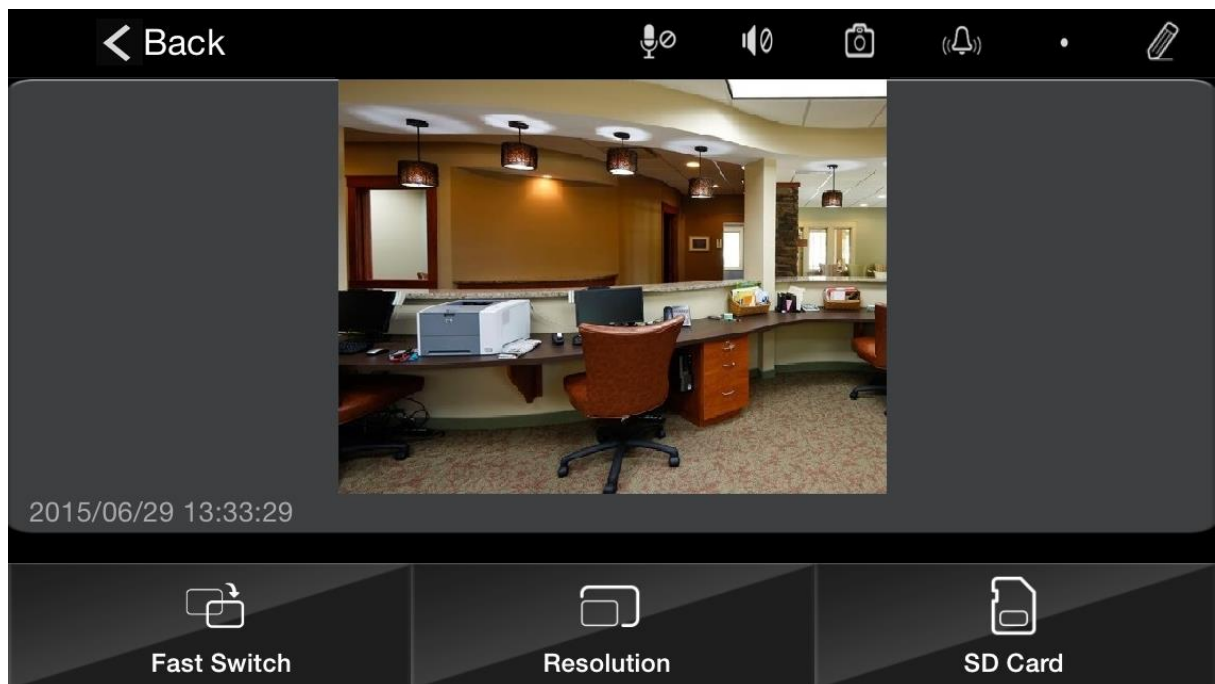
---

## 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.




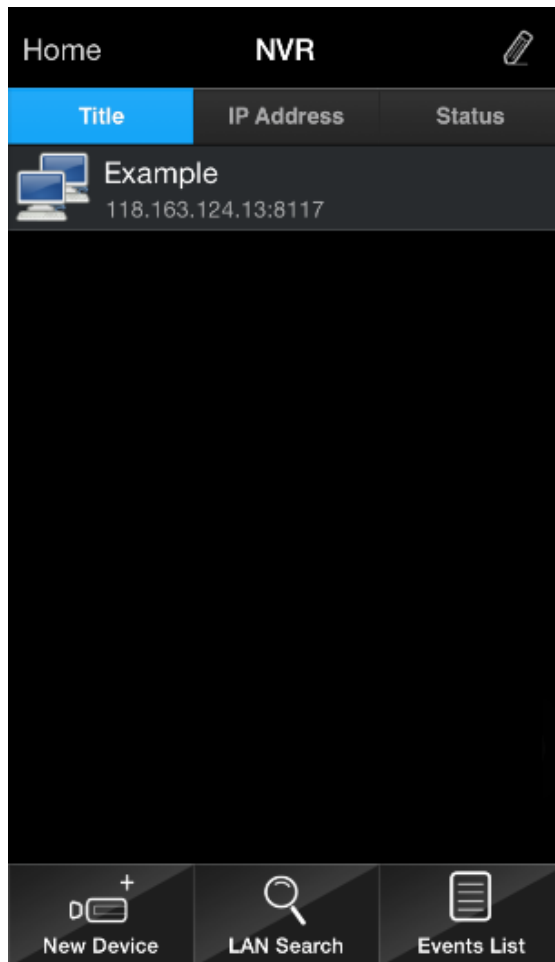
All the function buttons may be re-positioned on top of the Landscape mode screen.





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## 4.3 Hybrid NVR / NVR



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



Title	IP Address	Status
Sort the H-NVR / NVR by Title, IP and Status		
HOME	Go back to previous page.	
	Edit / Delete button.	
	Add a new NVR / Hybrid NVR.	
	Search for a NVR / Hybrid NVR in the LAN.	
	Display the Events List.	

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

### 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

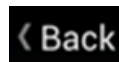
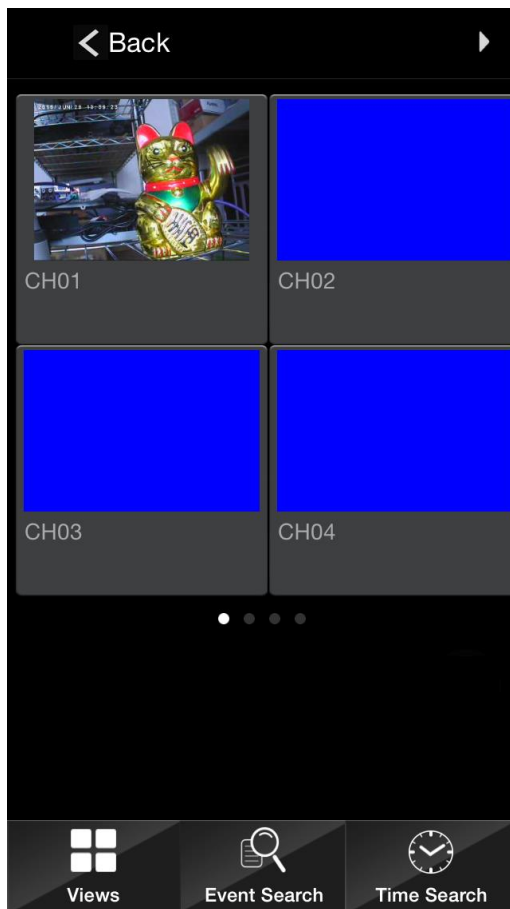
Similar to the IP CAM operation. [Please refer to section 4.2.2](#)

---

## 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.

Home NVR 		
Title	IP Address	Status
 Example	118.163.124.13:8117	
 IP	192.168.11.92:8080	
 P	118.163.124.13:8116	



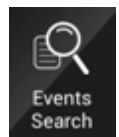
Go back to previous page



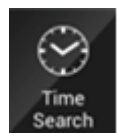
Auto Play



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



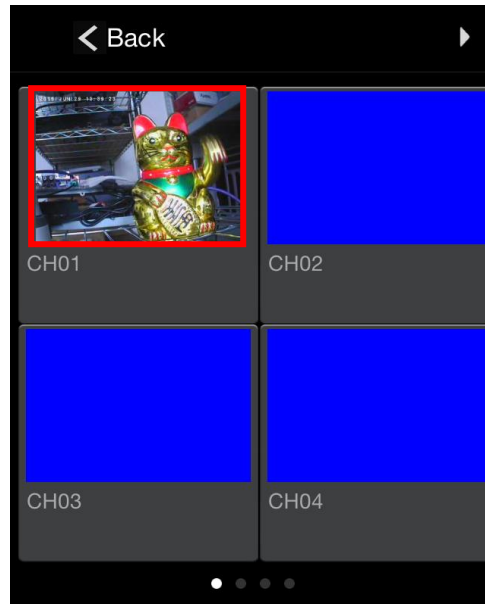
Open the Events Search page



Open the Time Search page

## 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.



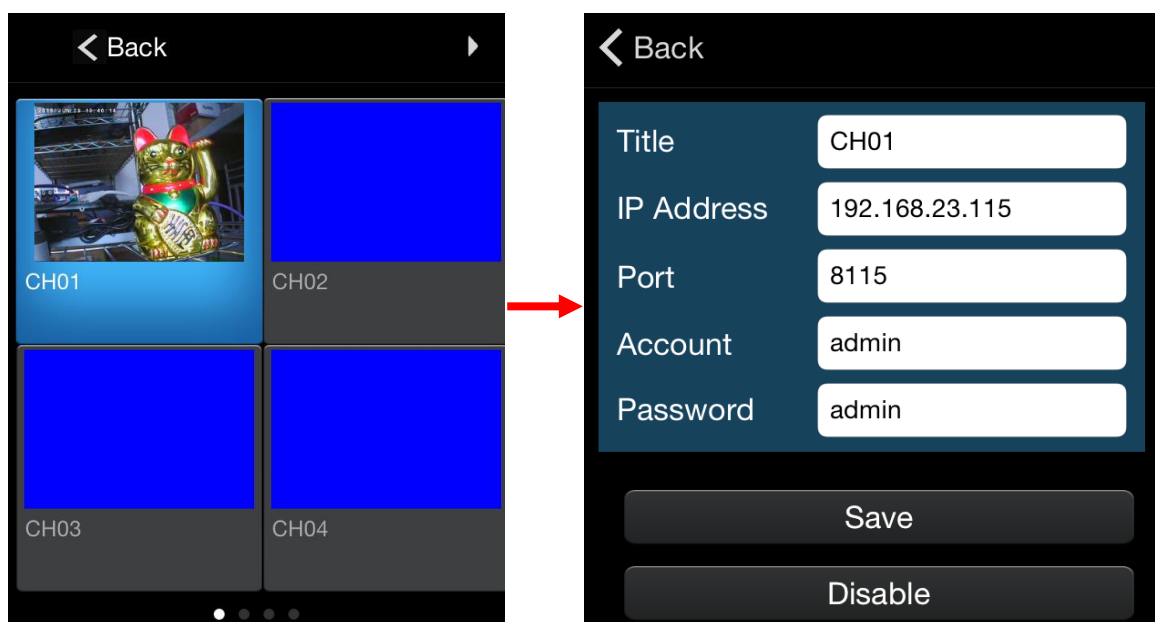
		Go back to previous page
		Auto play
		Enable / Disable chatting & audio from IP Camera (Two way audio).
		Enable / Disable PTZ controls (on PTZ Cameras only)
		Take a snapshot
		Change the relay state: ON / OFF
		Emergency recording: Records a short video into the SD card installed on the IP Camera.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

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## 4.3.5 Live view Landscape mode

Similar to the IP CAM side. [Please refer to section 4.2.4](#)

## 4.3.6 Fast Edit (NVR Only)



Touch 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.

# 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.

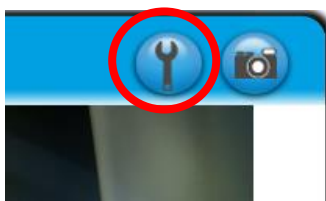
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### BEFORE USING PUSH VIDEO:

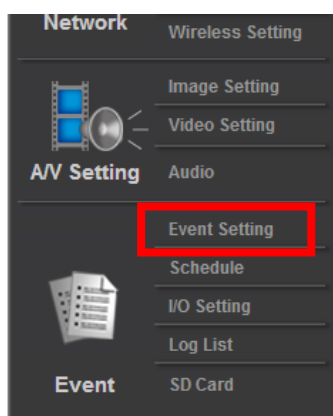
- Make sure the IP camera has access to the Internet.
- Make sure the mobile device has access to the Internet.
- Make sure the SD / Micro SD card is properly installed in the IP camera. For H-NVR / NVR, make sure the HDD is properly installed. **NOTE:** With the NVR device, if a HDD has been installed, 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: **Area 1** **Area 2** **Area 3**

Sensitivity: 10(High) 5 5

☒ **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

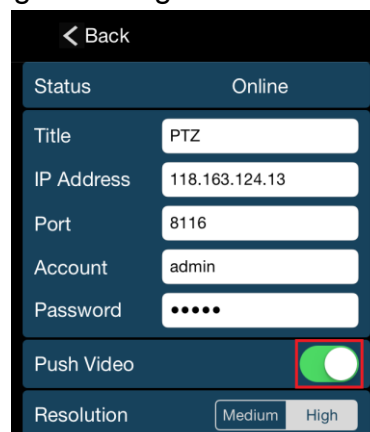
5. **Record Time Setting:** Set the video length for the video which will be same as the video received by the push video notification. Click on **APPLY** to save.



**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.



< Back

Status Online

Title PTZ

IP Address 118.163.124.13

Port 8116

Account admin

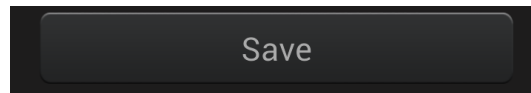
Password .....

Push Video ☒

Resolution Medium High

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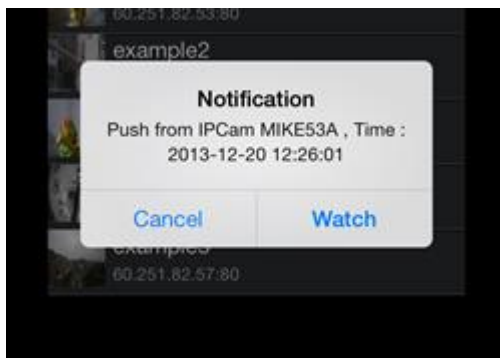
After adding / changing the IP Camera info, press **Save** to apply the changes.



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.

**While using IPmotion**



**While performing another activity**



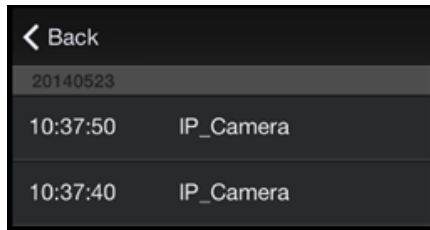
The APP can display up to **1, 5 or 10** notifications, depending on your settings.

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.

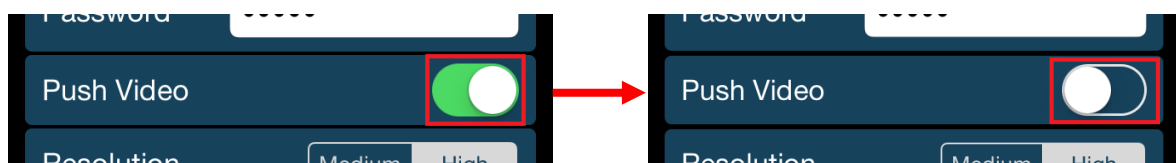


Then, press on any notification to see a list of the recent events registered on the APP, classified by date and time.

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

	<table border="1"> <tr> <td></td> <td>Go back to the previous page.</td> </tr> <tr> <td></td> <td>Play the video</td> </tr> <tr> <td></td> <td>Pause the video</td> </tr> <tr> <td></td> <td>Replay the video</td> </tr> </table>		Go back to the previous page.		Play the video		Pause the video		Replay the video
	Go back to the previous page.								
	Play the video								
	Pause the video								
	Replay the video								
	<p>Scroll bar for forward / backward the video</p>								

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



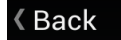
---

## 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 on  button to return to main screen.

Press  button to search again in the LAN network.

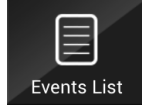
Pressing on any of the IP Devices will open the edit interface for adding them.

< Back	
Status	Online
Title	Camera 1
IP Address	192.168.23.200
Port	2100
Account	admin
Password	.....
Push Video	<input type="checkbox"/>
Resolution	High Medium

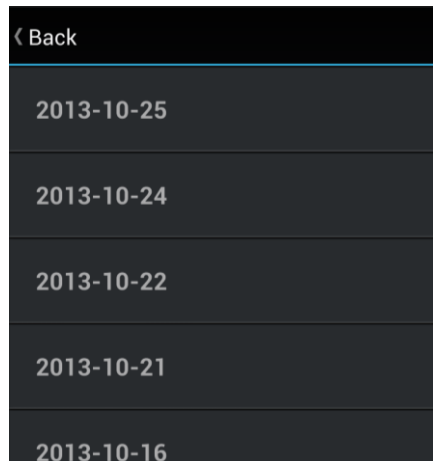
**NOTE:** For the **Search LAN** function the phone must be connect to **WiFi**. The function will not work under 3G or 4G.

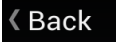
---

## 5.3 Events List

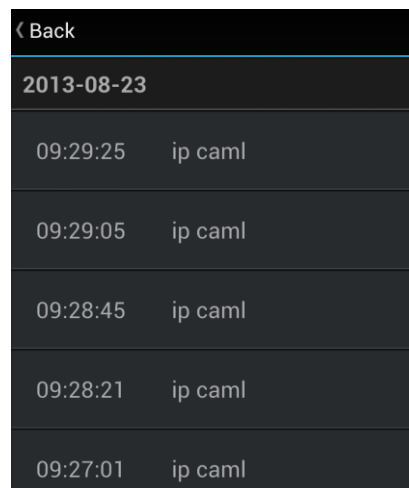


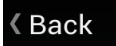
Press on the  button for displaying the events list.



Press back with the phone or press on the  button to go back to the previous screen.

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



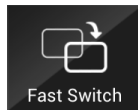
Press back with the phone or press on the  button to go back to previous screen.

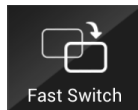
Press on any event to playback the video related with the event.

---

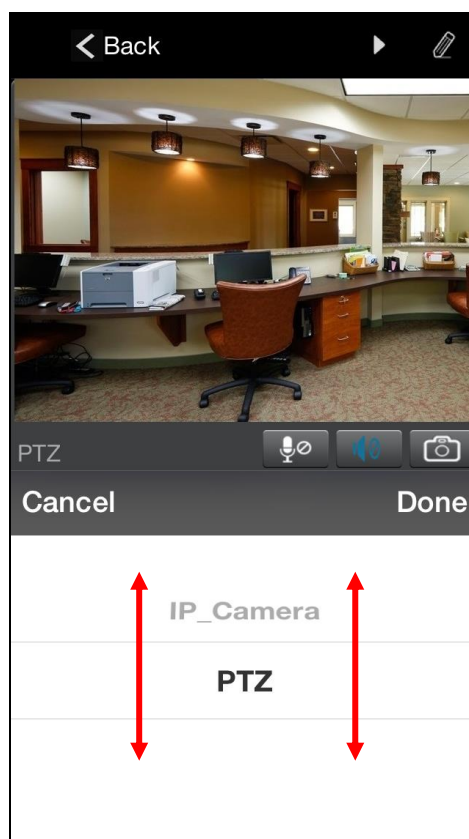
**NOTE:** The APP will store the history of all the events occurred after the installation, but it doesn't mean that all the videos can be found. If the video was already deleted from the SD card it will display an **Invalid Video** error, meaning the video is not stored anymore in the SD card / HDD.

## 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 up and down of the bottom side of the view. Touch Down to enter the specific screen or Cancel to exit.



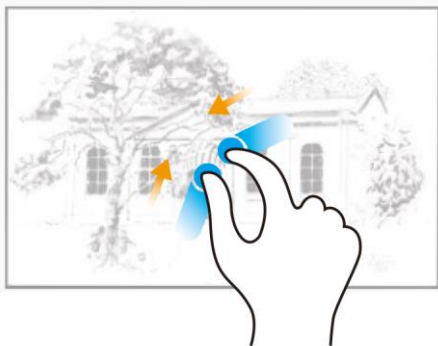
---

## 5.5 Zoom Control

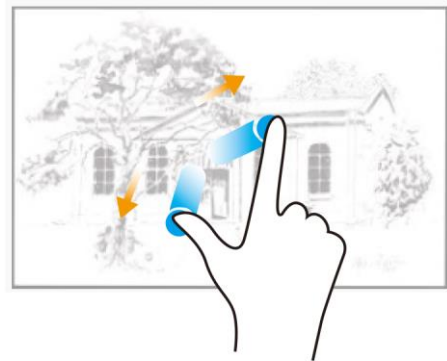
### a. Digital Zoom

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

Pinch open

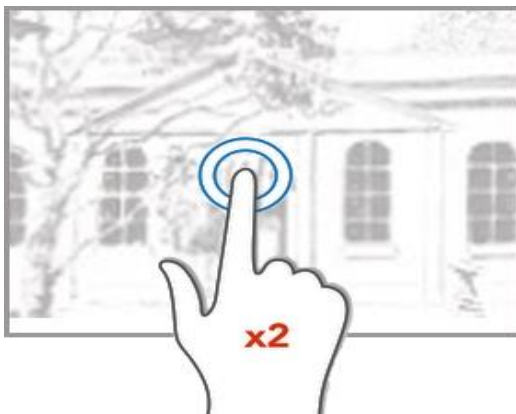


Pinch close

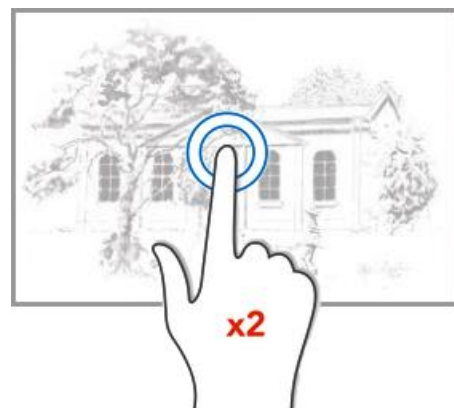


- Zoom In / Out can be performed by double tapping in the image.

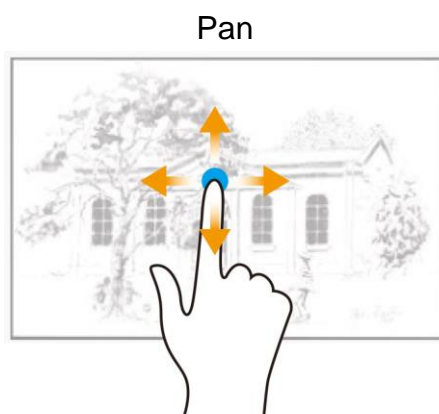
Zoom In




Zoom Out

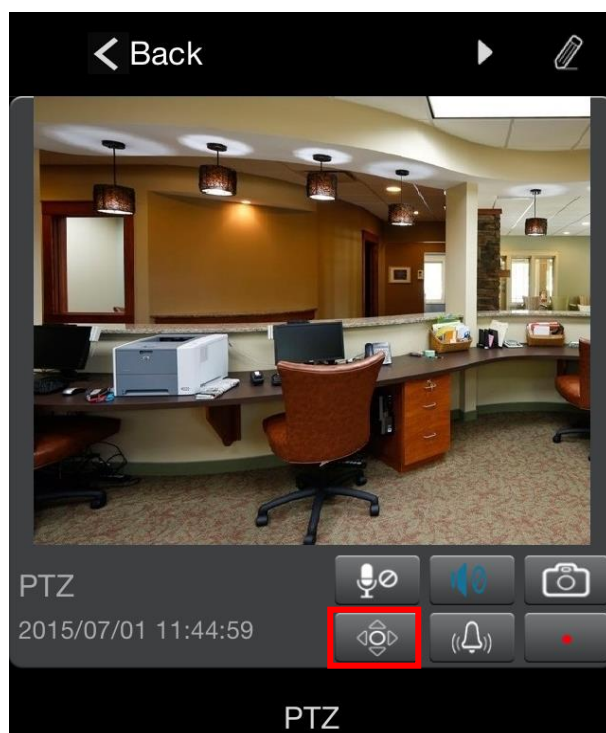



- 
- During Zoom the image can be **panned** in four directions.



#### b. PTZ control

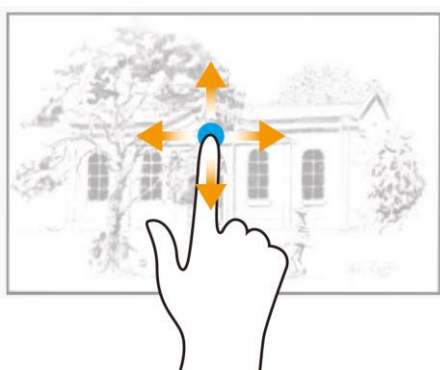
If the IP camera supports PTZ control, the  button will be displayed in the bottom of the live view.



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



<p>Cancel</p>  <p>PTZ</p> <p>2015/07/01 15:14:21</p> <p>PTZ</p> <p>Navigation icons: Zoom Out, Home, Zoom In</p>		<p>Cancel</p> <p>Close the PTZ control.</p> <p> Preset PTZ point. Up to 10 points.</p> <p> Load PTZ point. Up to 10 points.</p> <p>  Enable / Disable chatting &amp; audio from IP Camera (Two-way audio).</p> <p> </p> <p> Take a snapshot.</p> <p> Change the relay state: ON / OFF</p> <p> Emergency recording: Records a short video into the SD card installed on the IP Camera.</p> <p> Zoom In / Out. Or double tap on the</p> <p> image to perform.</p> <p> Reset the PTZ camera into its default position.</p>
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The PTZ movement is performed by **flicking** on the image.



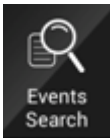
---

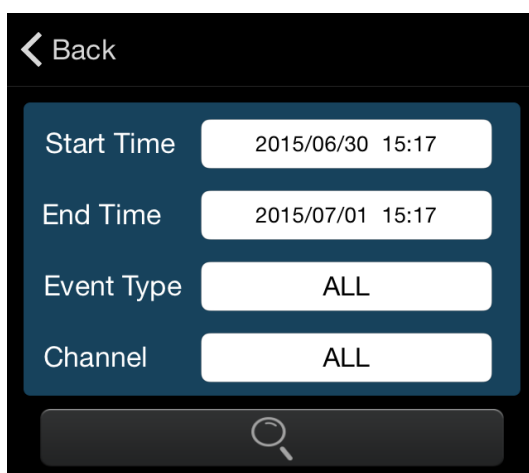
### c. Set / Load preset point

Use the  button for setting a preset point and the  button for loading a preset point.

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.



The screenshot shows a mobile application interface for searching events. It features a dark blue header with a white back arrow and the text 'Back'. Below the header is a light blue form with four rows: 'Start Time' with a date and time picker showing '2015/06/30 15:17', 'End Time' with a date and time picker showing '2015/07/01 15:17', 'Event Type' with a dropdown menu showing 'ALL', and 'Channel' with a dropdown menu showing 'ALL'. At the bottom of the form is a dark blue button with a white magnifying glass icon.

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

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

Event Type: Select between different event types.

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

---

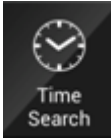
---

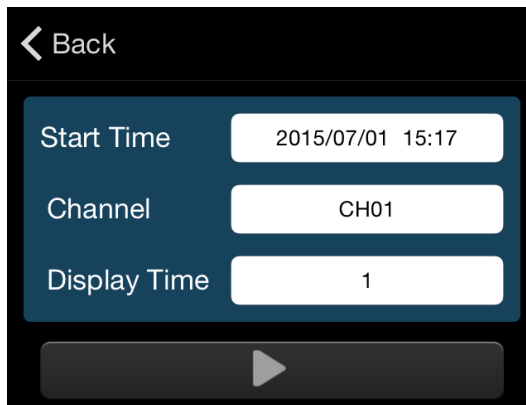
**Note:** On single Live View there is no need to select the channel name. The search will be made in the current Live View.

Press on  for start the searching.

**Note:** After finding the video the user can perform playback, but not all videos have a video link to them; this is related to the device Firmware 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 'Time Search' interface. At the top left is a back arrow and the word 'Back'. Below this is a dark blue header bar. Under the header bar are three input fields: 'Start Time' with the value '2015/07/01 15:17', 'Channel' with the value 'CH01', and 'Display Time' with the value '1'. At the bottom of the interface is a large grey button with a white play icon.

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


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

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

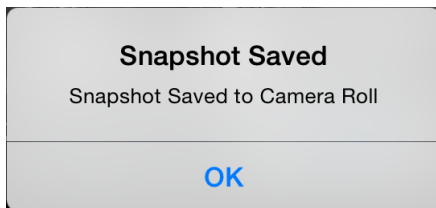
**Note:** On single Live View there is no need to select the channel name. The search will be made in the current Live View.

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## 5.8 Snapshot

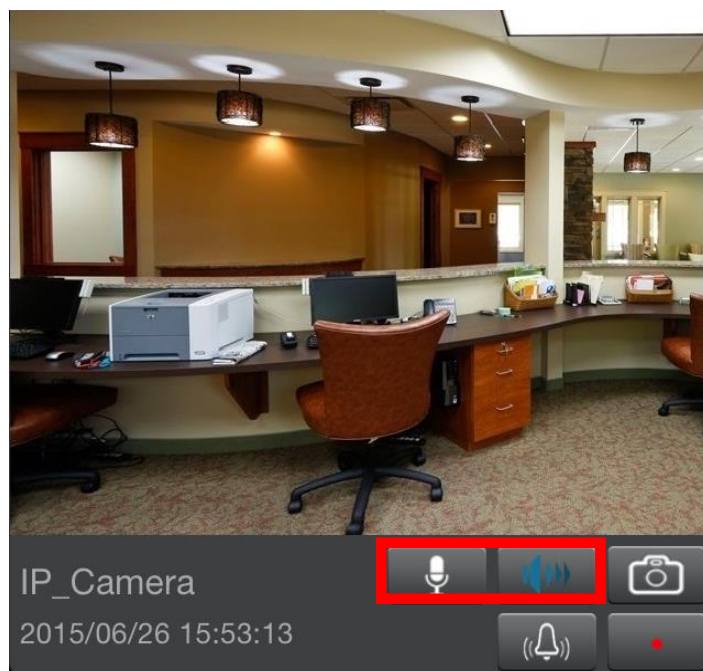
Press  button on Live View on PTZ / Digital Zoom control mode to take a snapshot.

The following message will pop out informing where the snapshot can be located.



## 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



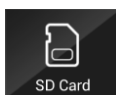
Microphone off

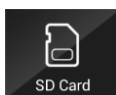


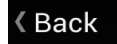
Microphone On

**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

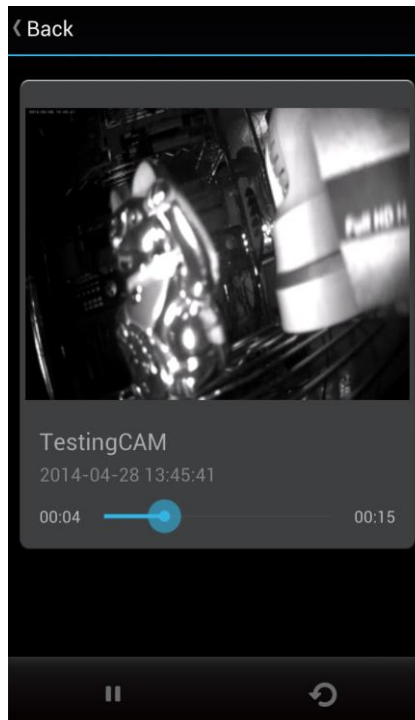


Press on  button to read the SD card data inside the IP Camera.

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.

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## 5.12 Easy Link (Optional)

A screenshot of a web interface titled "EasyLink". It contains a label "EasyLink ID:" followed by a text input field containing the alphanumeric string "FRPU8N6WV9FCTG6GUHZ1". Below this is a label "QR Code:" followed by a square QR code. In the bottom right corner, there is a button labeled "Apply".

EasyLink

EasyLink ID: FRPU8N6WV9FCTG6GUHZ1

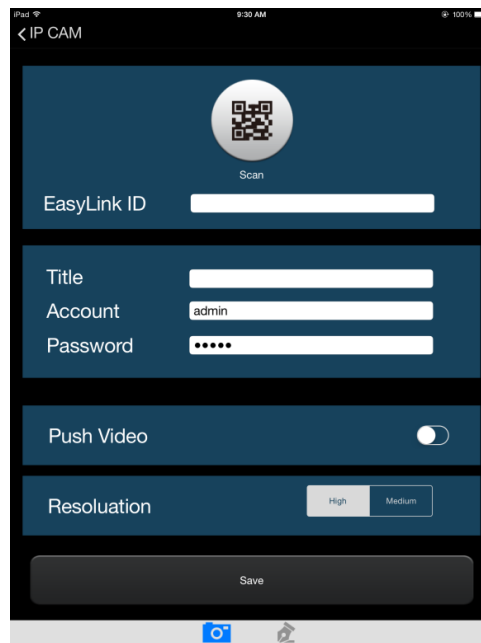
QR Code:

Apply

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.

### IOS Version

A screenshot of the IPMotion EasyLink App interface on an iPhone. The screen has a dark blue background. At the top, there's a status bar showing "iPad", signal strength, "9:30 AM", and "100%". Below the status bar is a header with a back arrow and "IP CAM". The main content area includes a QR code scanner with a "Scan" button, an "EasyLink ID" text input field, a "Title" text input field, an "Account" text input field with "admin" entered, a "Password" text input field with masked characters, a "Push Video" toggle switch, and a "Resolution" section with "High" and "Medium" buttons. At the bottom is a large "Save" button. The bottom dock shows the "Safari" app icon.

IP CAM

Scan

EasyLink ID

Title

Account admin

Password

Push Video

Resolution High Medium

Save

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