mCamView2 for iPhone and Android User Manual





Table of Contents

1. Introduction	3
2. Install and Startup mCamView2	4
 mCamView2 main screen 3.1. mCamView2 User Interface First use 3.2. mCamView2 User Interface with added cameras 	4 5 5
4. View the live video	7
5. Manage your IP Cameras using mCamView2	8
5.1. Add a new camera	8
5.1.1. Smart Wi-Fi Setup	
5.1.2. Local Search	12
5.1.3. Manual Input	14
5.1.4. Scan QR Code	
5.2. Delete a camera	15
6. Information	17
7. Camera settings	
7.1. Configuration screen	20
7.2. Alarm notification	21
7.3. Stream settings	21
7.4. Video settings	
7.4.1. Video	
7.4.2. Night Mode Control	
7.5.1 Information	
7.5.2 Network	
7.5.3. Schedule	
7.5.4. Admin	
8. Scheduling	
8.1. Add a Scheduling	
8.2. Delete a Schedule	
8.3. Configure a Schedule	50
9. Local Plavback	
9.1. Access to your video recordings	
9.2. View the video	53
9.3. Video conversion screen	53
9.4. Delete a video recording	54
10. External Playback	56
10.1. MicroSD-Card Playback	57
10.2. Dropbox Playback	59
10.2.1. Dropbox account configuration	
11.4.2. View your video recordings on your Dropbox accounts	
10.3. NAS Playback	
10.4. HIME-Lapse FlayDack	
10.J. EVEIII IIISIUI Y	

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1. Introduction

The mCamView2 App is the application that allows you to manage and monitor your IP Camera from anywhere, no matters where you are.

mCamView2, with its intuitive design, will let you have the best usage and user experience of your IP camera, you will be able to easily configure and use all the innovative features provided by your camera.

You can set up your IP Camera by simply inputting the unique ID and password associated to your camera. Setting up a new IP camera is just as simple as adding a new phone number to your mobile device.

MCamView2 enable you to record manually or automatically (whenever an event is triggered) what is happening in your house and store it into a microSD-card, on your Dropbox account or even into your NAS device. You will be able to playback these moments anytime you like.

With the Time-Lapse Playback function, you will be able to capture the passage of time by viewing screenshots taken by the camera periodically in a Time-Lapse Video.

No need to check your mobile device all the time, you will be notified anytime something abnormal happens in your house. mCamView2 allows you to configure and schedule email and push notifications in the case of abnormal events detection occurring in your house.

Features

IP Camera Setup

- Setup your IP Camera super easily
- Connect to your IP camera by ID and password
- Connect to your IP camera by QR Code

Video Playback

- Local Playback
- Watch your MicroSD-card recording
- Watch your recording stored on your Dropbox
- Watch your recording stored on your NAS
- Watch your Time-lapse video

IP Camera Control

- IP Camera rotation control (Pan/Tilt)
- Video recording (local, Cloud, microSD-card, NAS)
- > Talk to people around your IP Camera
- Remotely lock/unlock your IP Camera









Email and Push notification

- > Email and Push notification when an event is triggered
- Notification scheduling

2. Install and Startup mCamView2

Search the mCamView2 application

Two methods

On the Play Store

Search "mCamView2" on the Apple Store for iPhone devices or on the Play Store for Android devices.

OR

Scanning QR Code

You might also download mCamView2 by scanning the following QR Code that will redirect you to the mCamView2 Download page

Install the mCamView2 application

Once you found mCamView2 App, tap the "install" button on the Apple Store/Play Store mCamView2 page and the installation of mCamView2 will start on your iPhone/Android mobile.

Startup mCamView2

mCamView2 User Manual

After the installation is completed and the mCamView2 icon has been created on your iPhone/Android device desktop, tap the icon to launch mCamView2.

3. mCamView2 main screen

mCamView2 has two different main screen:

- > The main screen on the first use.
- > The main screen once cameras have been added to the application.



The first one is described at the section 3.1, the second one is detailed at the section 3.2.

3.1. mCamView2 User Interface First use

When starting mCamView2 for the first time on your mobile device, no camera will be added to the App.

The only thing you can do from this screen is setup your first IP Camera.

Tap the 🖶 icon in order to add a new camera.



Figure 1 = Main screen (first use)

3.2. mCamView2 User Interface with added cameras

Once at least one camera has been added to mCamView2, you will see the follow layout.



Figure 2 : Main screen (with added cameras)

Play video : Tap the selected camera icon to view the video.

Add a new camera : Tap the + icon to set up a new camera by one of the 4 Setup methods available.

Delete a camera : Tap the button to delete a camera previously setup in the App.

Camera icons : Camera icons display the cameras added in mCamView2, swipe your finger on the right or on the left to select other cameras. Tap on cameras icons to have access to their features and settings.

Information : Get information about the mobile device you are using and about the version of the mCamView2 installed on your mobile.

Privacy mode : Set your IP Camera into privacy mode. In this mode the live video and recording access will be disabled. If for some reasons, you want to prevent users from accessing your IP Camera, set the Privacy mode on.

4. View the live video

From the main screen of the App, tap on the selected camera icon to access to the live video.



Figure 3 : Main Screen (access to the Live Video)



Figure 4 : Live video

Internet Speed : Indicates how fast is your Internet connection

Take a screenshot : You can take a screenshot of what you are viewing anytime you like

Enable recording : Record what you are viewing in your device memory.

Trigger the alarm : Trigger the alarm of the camera.

Enable speaker/microphone : Turn on/off the speaker and the microphone of the camera to communicate with people around your camera. It works like a walkie-talkie, you have to select either you want to talk or listen.

5. Manage your IP Cameras using mCamView2

5.1. Add a new camera

Add a new IP Camera

Once the App is launched, on the main screen of the App, tap the icon to add a new camera.

If you launch mCamView2 for the first time, no camera will be added on the

application. In that case tap the big icon on the middle of the screen to start to add your first IP Camera.

If you have already added and configured one or more camera on your device,

tap on the 🖶 button located on the right corner of the App.





Figure 6 : Main screen (first use) mCamView2 User Manual

Figure 5 : Main screen

2. Pick a Setup Method

Choose the Setup method you want to use to Setup your IP Camera. In the case of a local setup in your home/work network, we recommend you to choose the Smart Wi-Fi Setup. You will only need to scan the QR Code generated by mCamView2 containing your Wi-Fi information with your IP Camera and that's it.

Smart Wi-Fi Setup : That is the method we recommend for a local Setup, you only have to scan the QR code generated by mCamView2 with your IP camera. The QR code contains your Wi-Fi information.

Local Search : Search the IP Cameras connected to your local network and input your camera ID and password.

Manual Input : Enter the ID and the password of your IP Camera (the IP Camera and the router don't have to be connected to the same network, it can be done from anywhere).

Scan QR Code : Scan the QR Code provided on your ID/Password card with mCamView2. This QR code contains your camera ID and password information to setup your IP Camera

17:34	💯 🗇 奈 📶 Chunghwa 4G 🗩 50	5%
<	Add a camera	
Manual Input	>	
Local search	>	
Smart WiFi Setup	\rangle	
Scan QR code	\rangle	

Figure 7 : Choose a Setup method

5.1.1. Smart Wi-Fi Setup

This screen informs you about the Smart Wi-Fi Setup procedure, once you finish to read it. Press the "right arrow" button located on the right of "Smart Wi-Fi Setup"



Figure 8 : Smart Wi-Fi Setup procedure explanation

1. Enter the Wi-Fi password of your Network

Enter the Wi-Fi password of your local network (the one your mobile is connected to), mCamView2 will generate a QR code containing your Wi-Fi information.

Enter WiFi passv	vord
(Please make sure yo the 2.4GHz WiFi netw	ou are connected to vork)
SSID : Starvedia_5G	
•••••	
Show password	
ОК	Cancel

Figure 9 : Enter the password of your local Network

2. Scan the QR code

Press the WPS button located on your IP Camera, the three LEDs on your camera will flash successively.

Place your mobile device 10~30 cm away front of your camera so the QR Code generated by mCamView2 can be scanned by your camera.

Keep your device this way until you hear a sound notification indicating that your IP Camera and your mobile have been paired successfully, the red LED will remain on and the blue LED will be blinking.



Figure 10 : Scan the QR Code

3. Name your camera

Enter the name your IP Camera on the pop-up window. The ID and the password of your camera are displayed.

Camera found	
Name	
My IP Cam	
ID: 006176156 Password: ipcam82	
ОК	Cancel

Figure 11 : Name your camera

7. Access your IP Camera from anywhere

Access your IP Camera by tapping its icon on the main screen. The icon of your IP Camera can be customized in the settings.

You can now monitor you house, your office or your parents' house from anywhere in the world.



Figure 12 : Access your IP Camera from anywhere

5.1.2. Local Search

1. Connect your mobile device and your IP Camera to the same Wi-Fi AP

This setup method should be used if your mobile device and your IP Camera are connected to the same Network.

Ensure your IP Camera and your mobile device are connected to the same Wi-Fi access point.

2. Find your IP Camera

Once you tapped « Local Search », the App will display the ID of the IP cameras connected to your Wi-Fi router.

Check on your ID/Password card the ID of your camera and tap on it. The ID of your camera should also be found on the label on your camera.





Figure 14 : Label on the back on the camera

Figure 13 : ID/Password card



Figure 15 : List of connected IP Cameras

3. Input the ID/Password of your IP Camera

Once you selected your IP Camera in the list of connected IP Cameras, you will be asked to input the name, the ID and the password of your IP Camera. These information can be found on the ID/Password card *cf. Figure 13*.



Figure 16 : Input ID and Password

5.1.3. Manual Input

This method should be used if you want to add a new camera remotely from the place where your camera is located.

By using the manual input setup method, you can add and configure your camera from anywhere without the need to be connected on the same network during the configuration process.

The only thing you need is inputting the ID and the password of your IP Camera.

Input your IP Camera ID and Password

Once you've selected the Manual Input method, you will be asked to enter the name, the ID and the password of your IP Camera.

The name is completely up to you, the ID and the password can be found on the ID/Password card *cf. figure 13.*

15:05	Ę.	∭r	Chunghwa 4	G 🗩 50%
<	Manual II	nput		Done
Name				
ID				
Password				
Dynamic icc	n update			
Save admin	account			

Figure 17 : Manual Input - Input information



5.1.4. Scan QR Code

This method allows you to locally or remotely setup your IP Camera. It means that your camera can be connected to the same network as your mobile device or being connected to any other networks.

This method works likewise the manual input method with your camera ID and password. The only difference is the ID/Password information is contained into the QR code.

Select the Scan QR Code method by tapping on it on the setup methods list, scan the QR code provided on the ID/Password card and that's it.



Figure 18 : QR Code on the Label on the ID/Password card

Once the App scanned the QR Code, the camera will be added to mCamView2.

5.2. Delete a camera

1. Tap on the delete button

If you need to delete one of your IP Camera, you should go to the main screen and press the button.



Figure 19 : Delete an IP Camera

2. Choose the camera you want to delete

A small "x" icon will appear on the top of your IP Cameras icons, swipe with your finger to choose the camera you want to delete and tap on the "x" icon to proceed with the camera removal.



Figure 20 : Tap on the "x" icon

3. Confirm the removal

A window will pop up to ask for your confirmation to delete your IP Camera, press "OK". The camera is now deleted.



Figure 21 : Removal confirmation

6. Information

The information screen provide information about mCamView2 and about the mobile device you are using.

This screen is accessible by tapping on the information icon \underbrace{i} on the main screen.



Figure 22 : Access to the information screen

The information screen display the following information:

Version

This is the version of the App

Disk available

This field displays the available space on your mobile device, you should make sure you have enough space on your device memory to record on your mobile device.

Recording Usage

Recording usage let you know the amount of memory you have used to store your local recordings

AVI Usage

It represents the video data converted into AVI files to be downloaded from a

computer. The App uses its own proprietary format to record videos however you can convert your recordings into AVI videos.

Download

You need to turn on the download toggle button in order to activate the AVI videos downloading from the Internet. Once the Download button is turned on, you download URL will displayed and you will be able to download your converted videos at this URL.

URL

Your AVI videos can be downloaded at this URL. Use your Web browser to go to this URL and download your AVI videos.

Manage AVI file

This screen displays the list of the recordings that have been converted into AVI videos. These are the videos that are downloadable from the URL displayed on the "URL" field.



Figure 23 : Information screen



Figure 24 : Converted videos downloadable from your Web browser

7. Camera settings

The Camera settings screen allows you to configure your IP Camera according to your needs. You can customize basic information such as the name of your IP Camera, its icon, to very specific settings such as alarm, stream, video and camera settings.

Camera settings are accessible by tapping on the icon of your camera on the main screen. Once this done, tap once again on the icon located on the right of the App.



Figure 26 : Main screen

Figure 25 : Main configuration screen

7.1. Configuration screen

The configuration screen allows you to configure the name and the password of your IP Camera and several more advanced settings. Your IP Camera icon is also customizable.

Fixed icon Your camera icon will be a picture of your choice

Live icon Your camera icon will be a screenshot taken from the live video

Here are the customizable settings in the configuration screen

- Alarm notification
- Stream settings
- Video settings
- Camera settings



Figure 27 : Configuration screen

7.2. Alarm notification

With mCamView2 on your mobile device, you will be notified anytime and anywhere whenever something abnormal is occurring inside of your house or your shop.

This page allows you to configure the sensitivity of the motion and audio detector of your IP Camera.

Tap on the "bell" next to the motion and sound detection field to enable the associated alarm notification. When the alarm is activated, its icon color will be set to blue.

The sensitivity is the value for which the detector will trigger and send a notification to your mobile devices.

If you select a high sensitivity, it will only take a small motion or audio detection to have the detector to trigger. For a low sensitivity, you will only be notified when a higher (louder or more obvious) event has been detected.

Selecting a low digit $(1 \sim 3)$ will set a high sensitivity, selecting a high digit $(8 \sim 10)$ will set a low sensitivity.



Figure 29 : Alarm notification (motion and sound disabled)



Figure 28 : Alarm notification (motion and sound enabled)

7.3. Stream settings

In this section, you will be able to define your IP Camera stream settings.

```
Enable 3GPP
Enabling 3GPP is necessary to have access to the following stream settings
```

Bandwidth

This is the Internet bandwidth of your network environment, it will define the speed of your connection. A higher value will generate higher video quality. However if your Internet connection cannot provide more bandwidth than the specified value, the video quality might degrade. In order to avoid this, input an Internet bandwidth value lower than your Internet bandwidth.

Auto

It refers to the resolution of the video.

If Auto is enabled, the video resolution will be adapted according to the Internet speed.

If Auto is disabled, you will choose the resolution you want to use. In that case, the resolution will not change no matter if your Internet speed gets fast or slow.



Figure 30 : Stream Settings (Resolution Auto)



Figure 31 : Stream Settings (Manual Resolution)

7.4. Video settings

The Video setting page allows customizing both the video settings and configuring the night mode control of your camera.



Figure 32 : Video setting screen

7.4.1. Video

This screen is dedicated to the video configuration of your camera, it allows you to change the brightness, the image quality and more.

Video color

You can choose whether you want the video to be in color or in black and white.

Brightness

You can define the brightness of the image on a scale from 1 to 10. A brightness of 1 will generate a dark image, a brightness of 10 generate a bright image.

Sharpness

You can define the sharpness of the image on a scale from 1 to 10. A Sharpness of 1 will generate a blurry image while a sharpness of 10 will generate a very clear and sharp image.

Low-light sensitivity

You can define the low-light sensitivity of your camera to have the best image according to your needs under low light situations.

The low-light sensitivity can be set normal, high or very high.

When the low light sensitivity is set to high, you will have a better video clearance under low light situation, but the clearness of moving objects won't be very high under low light environment.

Under very dark environments, setting to "very high" will get a better video clearance. The default value of this setting is "high".

Environment

For better video display quality, you can modify this setting when taking indoor or outdoor videos.

The default setting is "Outdoor video". In most cases, it is also satisfying for indoor usage.

Under some special cases, there could be some strip lines on the video display when the IP camera is taking indoor videos. In this situation, change the setting to "Indoor video" will solve the problem. The strip lines on the screen could also be due to the wrong frequency of the video signal, choose either 50hz or 60hz to solve the problem.

Also, be aware that in "Indoor video" setting, the video display of an outdoor scenery is very vague. For indoor usage, if there is strong sun light into the room, select the "Indoor+Sunlight" choice.

Image quality

You can define the image quality taken by your IP Camera from normal to the highest.

Time display on video

Choose whether you want to have the time displayed on the video or not.

Video flip

Enable the video flip if the camera is hung upside down on a wall or on the ceiling of your house.



Figure 33 : Video Setting

7.4.2. Night Mode Control

The IP Cam is able to work both in day-time and night-time.

In this night mode control setting screen, you can specify when the camera will switch to the night mode.

There are three ways to control the night mode (IR LED):

Auto

The IP cam will automatically turn to the night mode when the night falls or when the environment is becoming dark. There is a light sensor on the IP CAM in charge of light detection.

Schedule

The IP CAM can also be scheduled to turn on the night mode during a time range of each day.

Manual

The IP Cam can be manually forced to night mode (IR LED on) or day mode(IR LED off).

In order to get better video color display during both day-time and night-time, the IP

Camera features one single lens equipped with an Infrared cut-off filter which senses the luminosity of the room and switch to day or nigh mode for a high video color quality compared to most of IP camera on the market.



Figure 34 : Night mode control

7.5. Camera settings

Camera settings allows you to configure everything related to the camera configuration including viewing the information of the camera, configuration the Network of the camera (wired and wireless connection), define the scheduling and administrate your IP Camera.



Figure 35 : Camera setting screen

7.5.1. Information

The information screen let you see information about your IP Camera such as the firmware version, the Network type, the IP address and more.

14:10	夕 🗇 奈 📶 Chunghwa 4G 🗩 67%
<	Information
Model index	201
Firmware version	v040102
Registration	Not Registered
Network type	Wired (DHCP)
IP address	192.168.1.104
Connected users	0
NAS recording	Not Recording
SD card recording	not Recording
Mac Address	00:1B:C7:00:00:FE

Figure 36 : Information screen

Model index

It indicate the ID of the camera model, each camera of the same model have the same ID

Firmware version

It indicates the version of the firmware installed in your IP Camera.

Registration

It indicates whether your IP Camera is registered into Starvedia's server

Network type

It indicates the type of connection you're using

IP address

It indicates the IP address of your IP Camera

Connected users

It indicates the number of users connected to your IP Camera

NAS recording

It indicates the status of the NAS recording, either "recording" or "not recording"

SD Card recording

It indicates the status of the SD card recording, either "recording" or "not

recording"

Mac Address It indicates the MAC address of your IP Camera.

WiFi Mac address It indicates the Wi-Fi Mac address

7.5.2. Network

The Network section allows you to configure the Network of your IP Camera. Once you tap on "Network", three subsections will appear:

- Wired network
- Wi-Fi network
- Advanced



Figure 37 : Network subsections

7.5.2.1. Wired Network

Wired Network allows you to configure the Ethernet connection between your IP Camera and your router/NAT.

If your router/NAT is equipped with a DHCP server then we recommend you to choose the DHCP option. You will not have to configure any network settings to make it work, the DHCP function will do it automatically for you.

If your router/NAT is not equipped with a DHCP server, you should choose the Static option and enter the proper network settings to make the connection work.



Figure 38 : Wired Network (DHCP configuration)

Figure 39 : Wired Network (Static configuration)

7.5.2.2. Wi-Fi network

You can use a wireless connection to connect the IP CAM to your network. If your network environment has a 802.11 n router or access point (AP) running, you can check the "Wi-Fi" button to turn on the Wi-Fi.

Once the Wi-Fi enabled, the list of the access points will be displayed. Choose the AP you want to connect to.

In order to establish the connection, your mobile device and your IP Camera should be connected to the same Wi-Fi access point.

Once you tap on your Wi-Fi access point, a window will pop up and you will be asked to enter the Wi-Fi password.

As is the case of the wired connection, you can choose to use the DHCP function of your router/NAT or doing it manually by choosing "static" by tap on the arrow on the right of the selected access point.

15:46	⁄ 🗑 奈 📶 Chunghwa 4G 🔵 40%
< V	ViFi network
WiFi JL_WIFI	
TP-LINK_MYDESI	< 🖓 🖓 🔒
william_2.4	∂ -₩)
RD-Online	a •₩)
JL_WIFI	- (∥•
Starvedia_2.4G	∂ -₩)
Ding_Test	∂ -₩)
Т8	a -₩)
Cradle	₽ -₩)
chris2.4g	⊕ -₩)
13_test	🔒 -W)
Tenda309	â
Other	>

Figure 40 : Wi-Fi Access Points

7.5.2.3. Advanced

In some special situation, your network environment only provides a PPPoE connection (ADSL service), there is no NAT/router available.

You will need to set the PPPoE settings in the "Advanced" page.

Only the PPPoE username and password are needed to establish a PPPoE connection.

The Wired Network and Wi-Fi Network described at *7.5.2.1* and *7.5.2.2* can work together with a PPPoE connection.

However the PPPoE has higher priority, so if the PPPoE is in use, the IP CAM will use PPPoE to connect to the Internet.

The default setting is "Off".



Figure 41 : PPPoE settings

7.5.3. Schedule

Schedule allows you to configure the settings regarding the video recording on microSD Card/NAS, the

notifications sent to your mobile devices and the speaker alarm.

To have access to it, tap on "Schedule", three subsections will appear:

- Email alarm
- Speaker alarm
- NAS/Cloud
- SD Card
- Time-Lapse Recording



Figure 42 : Schedule subsections

7.5.3.1. Email alarm

The IP Camera provides the Email notification function, you can configure the email notification feature on this screen. The IP Camera will send an email with a jpeg picture attached in the email.

First, you need to enable the Email trigger and the send mail toggle button. You will be asked to choose the sensitivity of the motion.

Motion sensitivity - there are 10 possible choices in this field.

The image is compared periodically to the image recorded few instants earlier. The sensitivity is defined by the percentage of the difference between these two images.

"High" stands for high sensitivity, the motion detection is triggered by a very small movement in the video image.

If "High" is selected and the difference between the current image and the one recorded few instant earlier is higher than 1%, the motion detection will be triggered.

Be aware that the real size of an object could be large or small, the detection is only based on the relative size of an object.

A small pencil moving near the IP Camera could probably be detected, but a moving car located far away from the IP Camera could not be detected.

"Low" stands for low sensitivity, the motion detection is triggered by a very large movement.

If "Low " is selected and the difference between the current image and the one recorded few instant earlier is higher than 10%, the motion detection will be triggered.

For a "Median" sensitivity, the motion detection will be triggered for a 3% difference between the two images.

You can also choose the recipients you want the App to send the Mail notification too. You can send notifications up to 3 mail addresses.



Figure 43 : Email alarm setting screen



In order to have the email notification service working properly, configuring a SMTP server is required.

Tap "SMTP settings" to display the SMTP server settings screen.

A default SMTP server is provided, so you do not need to use a specific SMTP server. However you could also specify your own SMTP server (SSL security is not supported).

SMTP server

This is the SMTP server that will be used to send the email notification. This server is irrelevant to the "Email recipient" address.

These are two different things.

SMTP username/password

This is the username and password to log into the SMTP server to send the email notification.

The SMTP server is only used for sending email notifications to the "Email recipients".

The "Email recipients" can be on another email server or any reachable email address. The username and password fields can be left empty if no authentication is needed for the SMTP server.



Figure 44 : SMTP setting screen



7.5.3.2. Speaker alarm

The IP Camera provides a speaker alarm function, a sound or a motion detection could trigger the speaker alarm. The duration of the alarm is also configurable. The related settings are explained below:

Speaker alarm trigger

Select the trigger mode of the speaker alarm

- A. *Motion* if the motion trigger is selected, the speaker alarm will be activated when a motion is detected. The detection sensitivity is set in the "Email alarm" subsection.
- B. *Schedule* if schedule is selected, the speaker alarm is scheduled according the settings configured in the Schedule section.
- C. *Disable* disable the speaker alarm.

Alarm loop times

This is the number of the loop times of the speaker alarm.

Alarm Test

Push this button if you want to test the alarm.



Figure 45 : Speaker Alarm configuration screen

7.5.3.3. SD Card

The IP camera provides the recording of the video files into a standard Micro SD-Card. Since the recording is directly done into the Micro SD-Card, there is no network packets loss problem when recording to remote device through the Internet.

Notice : The resolution and frame rate of the recorded video are the same as the ones set for the video settings.

Recording

If "Always Recording" is selected, the system will immediately start to record into the microSD-Card and keep recording. If the "Schedule Recording" is selected, the system will do the microSD-Card recording according to the "scheduling" in *section 8*. "Disable Recording" will disable the microSD-Card recording.

SD card full

When recording into the microSD-Card, the system will check the free disk space of the Micro SD-Card. If the disk space is full (no free disk space), the system will do "Circular recording" (overwrite the oldest recorded files in the microSD-Card) or "Stop recording" as selected.

SD-Card status

The status of Micro SD-Card either "inserted" or "removed".



Figure 46 : SD card setting screen

7.5.3.4. NAS/Cloud

The IP Camera allows users to record the video files into a standard NAS (Network Access Storage) device. The IP camera connects to the NAS device using the standard LMX_NS/CIFS/SSN protocols that are the same as the Microsoft Windows network neighborhood protocols. This makes the IP camera able to store easily the video files into all the standard NAS devices on the market. Since there are a lot of different kind of NAS devices, including prices and scales, users can decide which is best for their needs and being sure that the IP Camara will be compatible with any of the NAS devices they own. By using this function, the standard NAS device is becoming a NVR (Network Video Recorder) device.

You will also be able to store your video recording into your Dropbox account. You can use your Dropbox account to store video files and remotely playback the recorded video files on your mobile devices or computers.



These two functionalities cannot be enabled at the same time, you need to choose either you want to save and store your video recording on your NAS or into your Dropbox account.

7.5.3.4.1. NAS settings

Recording

The IP Camera features two recording modes:

- Schedule recording
- Always recording

If the "Schedule recording" is selected, the system will do the NAS recording according to the "scheduling" in section 8.

If the "Always Recording" is selected, the system will start to record to the NAS storage device immediately and keep recording.

When doing the NAS recording, the system will check the free disk space of the NAS device. If the free disk space is less than the specified number, the system will do a "Circular recording" (overwrite the oldest recorded files of the IP camera in the NAS device) or "Stop recording" as specified. If the "keep recorded video for xx days" is selected, the system will do circular recording and overwrite the recorded video files older than specified period of time.

NAS IP Address

The IP camera can connect to the NAS device by using the "NAS IP address". If the NAS device uses a fixed IP address (either in the local area network or in the public internet), the IP camera can connect to the NAS by the "NAS IP address".
Shared folder name

The "Shared folder name" is the folder of the NAS device under which the video files of the IP camera will be stored.

NAS access

The "NAS access account" and "NAS access password" are the username and password to log into the specified "Shared folder name" of the NAS device.

In the Microsoft Windows environment, you can access to the NAS device by entering the URL address $\underline{\"NAS}$ name"\"shared folder name" or $\underline{\"NAS}$ IP address"\"shared folder name" in the windows Internet Explorer, and then input the "NAS access account" and "NAS access password" into the prompted login window. The video files are recorded under the subfolder

IPCamRecordFiles/Recording/ID-ID, where ID is the ID of the IP camera. All the recorded files are named this way "hhmmss.crf", where "hh" stand for the hour, "mm" for the minute and "ss" for the second of the recording video starting time. The files are segmented every five minutes.

The video recordings stored into your NAS devices can be played from the NAS Playback functionality detailed in the section 10.



Figure 47 : NAS configuration screen

7.5.3.4.2. Dropbox settings

Note for Android devices

For Android devices, the Dropbox App should be installed on your device to have the Dropbox recording working properly.

Record Status

The first step in the Dropbox recording configuration is connect your camera to your Dropbox account. Tap the Login button to enter your Dropbox information and link your camera to your Dropbox account.

13:48 🖉 🗇	ໂ⊿ຟI Chunghwa 4	G 🗩 69%
< Nas/Clou	d	Update
Nas Dr	ophox	
Record status	Not Log	iged in
Log In		
Recording		
By recording days	By disk	space
Keep recorded video for	7 💌	Day

Figure 48 : Connect your camera to your Dropbox account

Recording

The IP Camera features two recording modes:

- Schedule recording
- Always recording

If the "Schedule recording" is selected, the system will do the Dropbox recording according to the "scheduling" in section 8.

If the "Always Recording" is selected, the system will start to record your Dropbox account storage immediately and keep recording.

When doing the Dropbox recording, the system will check the free disk space of your Dropbox acount. If the free disk space is less than the specified number, the system will do a "Circular recording" (overwrite the oldest recorded files of the IP camera in the NAS device) or "Stop recording" as specified. If the "keep recorded video for xx days" is selected, the system will do circular recording and overwrite the recorded video files older than specified period of time.

By recording days

When recording with this setting, the video recording will be kept for the specified number of days. After the specified time period, the video recordings will be deleted and replaced by new recordings.

By disk space

When recording into your Dropbox acount, the system will check the free available space of the user cloud service. If the free available space is less than the specified value, the system will do "Circular recording" (overwrite the oldest recorded files in the cloud) or "Stop recording" as selected. If the "keep recorded video for xx days" is selected, the system will do circular recording and overwrite the recorded video files older than specified period of time.

Notice : The IP camera can only do either NAS recording or Dropbox recording at the time. NAS recording and Dropbox recording cannot be enabled at the same time. You need to choose either the NAS or the Dropbox recording functionality.

< Nas/C	Cloud		
Nas	Dro	obox	
Record status		Login s	SUCCESS
Log	Out		
Recording			
By recording days	(By dis	sk space
Keep recorded video fc	or	7 🛞	Day

Figure 49 : Dropbox recording setting screen

7.5.3.5. Time-Lapse recording

With the Time-Lapse recording function, things that happened during days or even years in real time can be played back over just a few minutes. The camera will take frames periodically according to the time interval and the frame rate you specify and will produce a time-lapse video.

This function can be applied to many situations. You can easily capture beautiful footages of subtle events such as a flower blooming, an incubation process or to record a construction process.

Tap "Time-Lapse recording" from the "Sensor & Record" section to have access to its configuration screen. Here are the following settings you can configure on this screen : **Start the Time-Lapse recording** This toggle button will enable to Time-Lapse recording functionality and will take frames periodically and store them into the microSD card. You need to have a microSD card inserted in your camera.

The interval of Time-Lapse

This interval defines the time interval between each pictures that the camera will take.

The frame rate of the playback video

The frame rate is expressed in frames per second (FPS) and defines the number of frames displayed in one second. A higher value of FPS will produce a fast video. The FPS can be set from 10 fps to 30 fps.

What frame rate should I use? Generally, 10 FPS is suitable for Time Lapse video. 10 FPS: The video plays 10 frames per second, so the video will not look as fast as 30 FPS. 30 FPS: The video plays 30 frames per second, so the video will look faster.

Notice : The time interval and the frame rate of the playback video settings both have an influence on the duration of the real life recording.

If you set a higher time interval and frame rate, the Time-Lapse function will record for a longer period of time.



Figure 50 : Time-Lapse recording settings screen

The choice of the time interval and the frame rate will determine the length of the real life recording. The time duration of the Time-Lapse Playback video is 3 mins. No matter the duration of the real life recording (hours, days, months or even years), you will be able to playback the time-lapse video of it in just 3 mins.

The duration of the real life recording can be calculated using this formula:

Real Life recording = Time Interval x Frame Rate x Time-Lapse Playback duration

Example: For an Interval Time of 2 seconds and a frame rate of 10 fps, the real life recording during will be calculated this way :

Real Life recording = 2 x 10 x 180 (3 mins = 180s) Real Life recording = 3600 seconds = 1h

You can use the following correlation table to help you to choose the right time interval and the frame rate values.

Interval (s)	Real life recording duration for 10 fps (h)	Real life recording duration for 20 fps (h)	Real life recording duration for 30 fps (h)
2	1	2	3
5	2,5	5	7,5
10	5	10	15

20	10	20	30 (1.25 day)
30	15	30 (1.25 day)	45 (1.88 day)
45	22,5	45 (1.88 day)	67,5 (2.9 days)
60 (1 min)	30 (1.25 day)	60 (2.5 days)	90 (3.75 days)
120 (2 mins)	60 (2.5 days)	120 (5 days)	180 (7.5 days)
300 (5 mins)	150 (6.25 days)	300 (12.5 days)	450 (18.75 days)
600 (10 mins)	300 (12.5 days)	600 (25 days)	900 (37.5 days)
1200 (20 mins)	600 (25 days)	1200 (50 days)	1800 (75 days)
1800 (30 mins)	900 (37.5 days)	1800 (75 days)	2700 (112.5 days)
3600 (1h)	1800 (75 days)	3600 (150 days)	5400 (225 days)
21600 (6h)	10800 (450 days)	21600 (900 days)	32400 (1350 days)
43200 (12h)	21600 (900 days)	43200 (1800 days)	64800 (2700 days)
86400 (24h)	43200 (1800 days)	86400 (3600 days)	129600 (5400 days)

7.5.4. Admin

In this final section of the configuration webpage, you can configure the admin login information, the way LEDs will display information and the date and time.

This section also allows you to manage the upgrade of your IP Camera firmware and also allow you to reboot the camera.

To have access to it, tap on "Schedule", three subsections will appear:

- Email alarm
- Speaker alarm
- SD Card

7.5.4.1. Login

On this screen, you can modify the administrator login account. This account is used to log into the IP Cam and configure it according to your needs.

The default login username is "admin" without password. If the login username or password has been forgotten, you can reset the IP CAM to the factory default settings, for more information about this procedure please refer to the user manual of your IP Camera.

Be sure to understand that this account is different from the video play password in the "Video settings" screen, this account is exclusively used for configuring the IP Cam.

14:38	🌿 😇 🛜 📶 Chunghwa 4G 🔳	60%
	Camera settings	
	Information	
\vee	Network	
	Schedule	
^	Admin	
	Login	
	LED control	
	Date/Time	>
	Upgrade	>
	Reboot	>

Figure 51 : Admin subsections



Figure 52 : Login setting screen

7.5.4.2. LED control

The IP CAM provides the LEDs Display Control function, you can enable or disable the led display/indication on the front panel of your IP cam. The related settings are explained below:

Always turn on

Select this to enable the status and Ethernet LED display.

Always turn off

Select this to disable the status and Ethernet LED display.

Turn off after connected to network

Select this to have the LEDs displaying only when a connection problem occurs. When the connection is working properly, the LEDs will be turned off.



Figure 53 : LED Control setting screen

7.5.4.3. Date/Time

The IP CAM can synchronize the date/time with the universal time server (for example stdtime.gov.tw) through NTP protocol. The date/time of the IP Camera will be adjusted with the time server whenever the camera is connected to the Internet.

You can choose a different TimeZone than the one of your location.

For some TimeZone areas, the "Daylight Saving Time" could be enabled or disabled. When the "Daylight Saving Time" is enabled, the start and stop time of the Daylight Saving Time can be edited.

The camera has an internal real time clock that can maintain the date/time even when the camera is not connected to Internet.



Figure 54 : Date/Time setting screen

7.5.4.4. Upgrade

When new firmwares will be released from the supplier of your IP CAM, you can upgrade the firmware on this page.

Enter the correct information about the FTP server, username/password account and the firmware filename from your supplier, and then do the upgrade. During the upgrade procedure, do not power off the IP CAM. After the upgrade procedure is finished, the system will restart automatically.

14:18	定 🗇 奈 📶 Chung	hwa 4G 🗩 65%
<	Upgrade	Update
FTP Server		
Username		
Password		
Firmware name		

Figure 55 : Upgrade setting screen

7.5.4.5. Reboot

You can restart the IP CAM manually on this screen. All the connected video viewing users will be disconnected.



Figure 56 : Reboot screen

8. Scheduling

The IP camera provides a scheduling function for email notifications, speaker alarms and SD card recordings triggered by motion and audio detection with the individual parameters set in the "Schedule" section of the "camera settings" page, *cf. 7.5.3.*

Twelve schedules are available. There is no conflict check for the scheduling, it implies that the scheduling time could be overlapped, and the IP camera will do all the scheduled events during the overlapped time period.

For the scheduling of the Email, the "Schedule" option must be enabled in the "Email alarm" settings, cf. 7.5.3.1.

To access the scheduling setting screen, tap on your Home icon on the main screen and then tap on the 📋 icon on the next screen.



Figure 57 : Access the scheduling setting screen

Once you have tapped the scheduling icon, the list of the configured scheduling will appear on the screen.

If no scheduling has been configured, the list will be empty. You can configure up to twelve schedules

You can configure up to twelve schedules.



Figure 58 : List of schedules

8.1. Add a Scheduling

To add a schedule, tap on the icon, and configure the following settings.

Time Period

For the scheduling period, can choose between "Always", "Every week", "Every day" or "Fixed time":

- For "Every week", you can choose weekdays of the week and set the time duration of each day.
- For "Every day", you can set the time duration of every day for the scheduling.
- For "Fixed time", you can set the starting date/time and the end date/time of the scheduling period.

Time Period Setting

If you have chosen "Every week", "Every day" or "Fixed Time" in the previous setting, you can define the time interval during which the schedule will be active. Choose the starting and the ending time.

Email Alarm

For each schedule, if Email Alarm has been enabled in the camera settings (cf. 7.5.3.1) and the "Motion triggered" and/or "Temperature" is enabled, the IP camera will trigger the email sending in the scheduled time period when the video motion is detected.

Speaker Alarm

For each schedule, if Speaker alarm has been enabled in the camera settings (cf. 7.5.3.2) and the "Motion triggered", the IP camera will trigger the speaker alarm in the scheduled time period when the video motion is detected.

SD-Card Record

For each scheduling, if SD-Card Record has been enabled in the camera settings (cf. 7.5.3.2), either "Continuous" or "Motion triggered" can be enabled.

- "Continuous" implies that the IP camera will record the video into the microSD-Card during the whole scheduled period.
- "Motion triggered" implies that the IP camera will record the video into the SD-Card for 30 seconds during the scheduled period each time a motion is detected. There is a five seconds pre-recording of the triggered recording so you will never miss any critical moment.

Tap update on the top of the screen to save the settings.

●●●○○ 台湾大哥大 令 11:25 AM	61% 🛄 🗲
< Schedule 1	
Schedule Name	Schedule 1
Time Period	Everyday
Time Period Setting	
Email Alarm	
Speaker Alarm	
SD Card	

Figure 59 : Add a schedule

8.2. Delete a Schedule

To delete a schedule, tap on the cicon located next to the schedule's name. A window will pop up to ask for your confirmation, tap "Ok" to proceed.



Figure 60 : Schedule removal confirmation

8.3. Configure a Schedule

You can modify a schedule's settings by tapping the 🗱 icon next to it. You can modify settings you set during the schedule adding process.

61% 🛄 🗲
Schedule 1
Everyday

Figure 61 : Schedule configuration screen

9. Local Playback

mCamView2 allows you to record what you are viewing in the play live video and watch your recording from the local playback function. The recordings are stored on your mobile device.

9.1. Access to your video recordings

To access the local Playback function, tap on your Home icon on the main screen and then tap on icon on the next screen.

You once you tapped on the Playback icon, a calendar view will be displayed and the days during which you recorded the video will be highlighted.



Figure 62 : Calendar View of the Local Playback

In the screenshot above, the 17th and 21st March 2016 are highlighted. It means that at least one recording has been made that day.

By tapping on highlighted dates, you will be able to view the recordings.



Figure 63 : List of local recording

9.2. View the video

To view your video recordings, tap one of their icon on the list (cf. Figure 63 : List of local recording). You will be able to see your recordings.

●●●○○ 台湾:	大哥大 🗢	9:57 AM	*	7% 💽 🗲
Stop	29/0	3/2016	Tue ²⁰	16/03/29 09:51:15
2016/04/1	4 01:00	:03	2	
	1			
	7			-
-	-			
00:0	3 💻	0		-00:09

Figure 64 : View the recording

9.3. Video conversion screen

To have access to the video conversion screen, tap on the export icon on the right of the video recordings icons (cf. Figure 63 : List of local recording). This screen will allow you to select the video portion you want to convert into an AVI video. The AVI video will be able to be downloaded from your Web browser, refer to 6. Information for more detailed about this procedure.



Figure 65 : Video conversion screen

9.4. Delete a video recording

Tap on the 😑 icon

You can delete any of your video recordings from the recordings list screen. Tap on the cicon on the right upper corner of the screen.



Figure 66 : Tap on the 🔽 icon

Tap "Delete" to delete the recording

Tap on the "Delete" red button to proceed the recording removal.



Figure 67 : Delete a video recording

Confirm the removal

Tap "OK" to confirm the video recording removal.



Figure 68 : Confirm the video recording removal

10. External Playback

mCamView2 features the Playback function, you can play your recordings stored on your Dropbox, on your microSD card or hosted on your NAS.

The Playback also features the Time-Lapse recording function that allows you to capture the passage of time by displaying frames taken by the camera periodically in a Time-Lapse video.

Things that happened during days or even years in real time can be played back over just a few minutes.

Access to the Playback function

To access to the Playback function, tap \bigcirc to list the recorded videos. Several types of Playback are available:

"**Local**" refers the recorded videos on your mobile device. "**SD card**" refers to the recorded videos on your cameras SD card.

"**NAS**" refers for the recorded videos on NAS disks connected to your cameras. "**Dropbox**" refers to the recorded videos stored in your Dropbox account.

"**Time-Lapse Recording**" refers to your time-lapse videos stored in your microSD card.

"**Event history**" refers to the history of the events occurred in your house. You will be able to select your video recordings by tapping the date of the recordings.



Figure 69 : Access to the External Playback function

10.1. MicroSD-Card Playback

1. Tap on the "SD Card" icon

To view your recorded videos stored in the memory of your microSD card, tap on the "SD Card" icon located on the Playback function list.



Figure 70 : Seelct the SD Card menu

2. Pick the date of your recording

The dates for which recording videos have been made will be highlighted in yellow. Tap on any of these dates to have access their corresponding recordings. For instance in the screenshot below, we can see that there is at least one recording that has been made the 18th and 25th April.



Figure 71 : Select the date of your recordings

4. Tap on the recording you want to view

A list of video recording will be displayed on the screen, tap on the one to you want to view.



Figure 72 : Select a recording

5. Playback screen layout

Once you have chosen the recorded video you want to view, you will be able to see the video on the following screen.

This screen allows you to playback your recorded videos and take screenshots of your recordings.



Figure 73 : Playback view

10.2. Dropbox Playback

Tap on the "SD Card" icon

To view your recorded videos stored in the memory of your microSD card, tap on the "SD Card" icon located on the Playback function list.



Figure 74 : Select the Dropbox Playback

In order to playback the video files stored on Dropbox, mCamView2 need to connect to your Dropbox account.

10.2.1. Dropbox account configuration

10.2.1.1. First use of the Dropbox Playback service

On your first time using the Dropbox Playback service or when you add a new Dropbox account, the following dialog box will pop up on the screen.

Dropbox Cancel Image: Complex state Image: Complex state ipcam_s would like access to its own folder, Apps > ipcam_s, inside your Dropbox. Image: Complex state
ipcam_s would like access to its own folder, Apps - ipcam_s, inside your Dropbox.
Apps · ipcam_s , inside your Dropbox.
Sign in to Dropbox to link with ipcam_s
Email
Password
Sign in and Link
New to Dropbox? Get the App!

Figure 75 : Log into your Dropbox account

Enter your Dropbox login information

In order to connect mCamView2 to your Dropbox account, enter your email address and your password used for your Dropbox registration and tap "Sign in and Link". If you don't have any Dropbox account, you can create one on the Dropbox website. Once you have entered your right login information, your Dropbox account will be added to the Dropbox account list on the right of the screen.

10.2.1.2. Add a new Dropbox account

Tap on the 🕂 icon

If you want to add a new Dropbox account, tap on the 🙂 icon located on the right upper corner of the screen.



Figure 76 : Tap "+" to add a new Dropbox account

Enter your Dropbox login information

In order to log into your Dropbox account, enter your email address and your password used for your Dropbox registration and tap "Sign in and Link". If you don't have any Dropbox account, you can create one on the Dropbox website. Once you have entered your right login information, your Dropbox account will be added to the Dropbox account list on the right of the screen.

●●○○○ 台湾大哥大 중 11:39 AM	76% 💼 • *			
Dropbox	Cancel			
<pre>ipcam_s would like access to its own folder, Apps - ipcam_s, inside your Dropbox.</pre>				
Sign in to Dropbox to link with ipcam_s				
Email				
Password				
Sign in and Link				
New to Dropbox? Get the App!				

Figure 77 : Log into your Dropbox account

10.2.1.3. Logout a Dropbox account

1. Tap the logout icon

Tap the logout icon located at the right of your Dropbox account name.



Figure 78 : Tap the logout icon

2. Confirm the Dropbox account log out

A dialog box will pop up on the screen and ask you for your confirmation to log out from your Dropbox account. Tap OK if you want to proceed.



Figure 79 : Tap OK to log out

11.4.2. View your video recordings on your Dropbox accounts

1. Tap the "Dropbox" icon

To view your recorded videos stored in the memory of your mobile devices, tap on the name of your Dropbox account on the Dropbox accounts list.



Figure 80 : Select your Dropbox acount

2. Tap on your camera folder

A list of folders will be displayed on the screen. Each folder refers to one of your Dropbox accounts. Tap the folder you want to view your recording from.



Figure 81 : Select the folder corresponding to your camera

3. Pick the date of your recording

The dates for which recording videos have been made will be highlighted in yellow. Tap on any of these dates to have access their corresponding recordings. On the screenshot below, we can see that there is one or several recordings that have been made the 2^{nd} , 3^{rd} and 15^{th} March 2016.

******* <u>20</u>	电大哥大	•	1:54 PN	1	82% 💼 🤉
<			005		
Aug 2016			Sep 2011		
Sun	Mon	Tue	Wed	The	Set
30					
•					
18					
20					
27					
4					

Figure 82 : Pick the date of the recording you want to view

4. Tap on the recording you want to view

A list of video recording will be displayed on the screen, tap the one to you want to view.



Figure 83 : List of the video recordings

5. Playback screen layout

Once you have chosen the recorded video you want to view, you will be able to see the video on the following screen.

This screen allows you to Playback your recorded videos and choose on the time interval the portion of the video you want to watch.



Figure 84 : Playback view

10.3. NAS Playback

1. Tap the "NAS" icon

To view your recorded videos stored in your NAS device, tap the "NAS" icon located on the Playback function list.



Figure 85 : Select the NAS Playback

2. Pick the date of your recording

The dates for which your videos recordings have been made will be highlighted in yellow. Tap on any of these dates to have access their corresponding recordings. On the screenshot below, we can see that there is at least one recording that has been made the 18th and the 25th March 2016.



Figure 86 : Pick the date of the recording you want to view

3. Tap the recording you want to view

A list of time-lapse videos will be displayed on the screen, tap on the one to you want to view.



Figure 87 : Select the recording you want to view

4. Playback screen layout

Once you have chosen the recorded video you want to view, you will be able to see the video on the following screen.

This screen allows you to Playback your recorded videos and choose on the time interval the portion of the video you want to watch.

^{c+}arVedia



Figure 88 : Playback view

10.4. Time-Lapse Playback

1. Tap on the "Time-lapse recording" icon

To view your time-lapse videos stored in the memory of the microSD card, tap the "Time-lapse recording" icon located on the Playback function list.



Figure 89 : Select the Time Lapse Video Playback

mCamView2 User manual

2. Pick the date of your recording

The dates for which the time-lapse videos have been made will be highlighted in yellow. Tap any of these dates to have access their corresponding recordings. For instance n the screenshot below, we can see that there is at least one time-lapse recording that has been made the 18th and the 25th April.



Figure 90 : Select the date of the recording you want to view

3. Tap on the recording you want to view

A list of time-lapse videos will be displayed on the screen, tap the one to you want to view.



Figure 91 : Select the time-lapse recording you want to view

5. Playback screen layout

Once you have chosen the recorded video you want to view, you will be able to see the video on the following screen.

Go back to the previous screen	20160414/005909	
		Tap to take a screenshot

Figure 92 : Playback view
StarVedia

10.5. Event history

Event history provides a list of all the activity your Home. Anything involving your camera or your Z-Wave devices will be recorded and archived.

1. Tap on the "Event History" icon

To have access to the Event History function, tap on the « Event history » icon on the Playback functions list.



Figure 93 : Select the Event history features

3. View the activity history

All the activity of your home is listed on this screen. For each item, the date, the time and information about the activity is displayed on the screen.

StarVedia

●●○○○ 台湾大哥大 令	4:08 PM 10	00% 👝 4
< Ev	ent history	
04/25 16:07	SD playback Stopped	
04/25 16:07	SD playback Started	

Figure 94 : Event history screen

4. Select the events you want to record

Tap the contonic access the Event history settings. On this screen, you can select what kind of events you want to be recorded the Event History list.

StarVedia

大哥大 穼	4:08 PM 10	00% -+	●●●○○○ 台湾大哥大 중 4:09 PM 100%
Ev	ent history		< Event Enable/Disable
16:07	SD playback Stopped		System Log
16:07	SD playback Started		Recording (SD, NAS, Dropbox)
16:07	SD playback Started		Playback (SD, NAS, Dropbox)
16:07	SD playback Started		Camera Event
16:07	SD playback Started		
16:07	SD playback Started		

Figure 92 : Select the events you want to be recorded

04/25

04/25

04/25

04/25

04/25

04/25