StarVedia

mCamViewZ+ for tablets

User Manual

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1. Introduction

The mCamViewZ+ is an innovative smart home App on iPad and Android tablets designed to control Z-Wave cameras and any kind of Z-Wave devices.

mCamViewZ+, 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 tablet.

mCamViewZ+ Z-Wave devices management features will let you get the best of your Z-Wave camera. You will be able to manage and control up to 20 Z-Waves devices, create up to 10 rooms and create up to 20 scenes. You can easily alarm your house when you are out for traveling, remotely monitor your home when you are at the office or create those wonderful scenes when you arrive home or you go to sleep.
The only limit is your imagination.

mCamViewZ+ 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 tablet all the time, you will be notified anytime something abnormal happens in your house. mCamViewZ+ allows you to configure and schedule email and push notifications in the case of an abnormal event detection occurring in your house.

Features

IP Camera Setup

- 4 easy ways to setup your IP Camera
- 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

Z-Wave Controller

- Manage your Z-Wave devices easily
- Remotely control your Z-Wave devices
- Create scenarios with your Z-Wave devices to automate your home
- Create and manage Homes and Rooms for a better control of your house

IP Camera Control

- View all your IP cameras in a Home simultaneously
- IP Camera rotation control (Pan/Tilt)
- Video recording (local, Cloud, microSD-card, NAS)
- Talk to people around your IP Camera

Email and Push notification

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

2. Install and Startup mCamViewZ+

Search the mCamViewZ+ application

Two methods

On the Apple Store
Search “mCamViewZ+” on the Apple Store or Google Play

OR

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

Search the mCamViewZ+ application

Once you found mCamViewZ+ App, tap on the “install” button on the Apple Store or the Google Play mCamViewZ+ page and the installation of mCamViewZ+ will start on your tablet.

Startup mCamViewZ+

After the installation is completed and the mCamViewZ+ icon has been created on your tablet desktop, tap the icon to launch mCamViewZ+.

3. mCamViewZ+ main screen

mCamViewZ+ has two different main screens:

- ➢ The main screen for 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. mCamViewZ+ User Interface First use

When starting mCamViewZ+ for the first time on your tablet, 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.

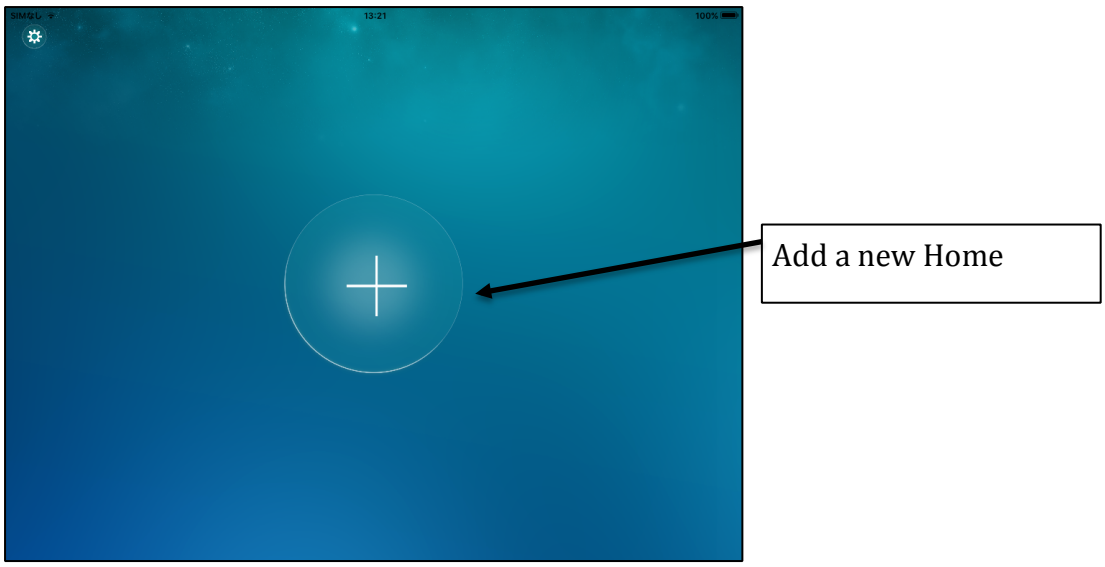


Figure 1 : Main Screen (first use)

3.2. mCamViewZ+ User Interface with added cameras

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

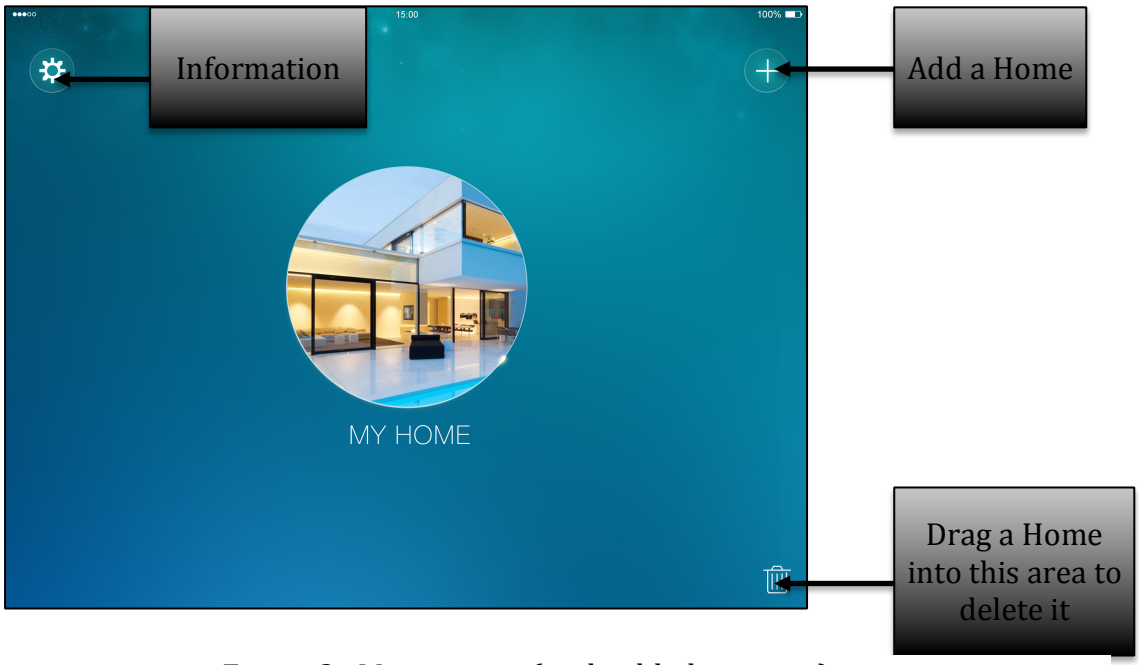


Figure 2 : Main screen (with added cameras)

4. Information

The information screen provide information about mCamViewZ+ and about the tablet you are using.

This screen is accessible by tapping on the information icon on the main screen.

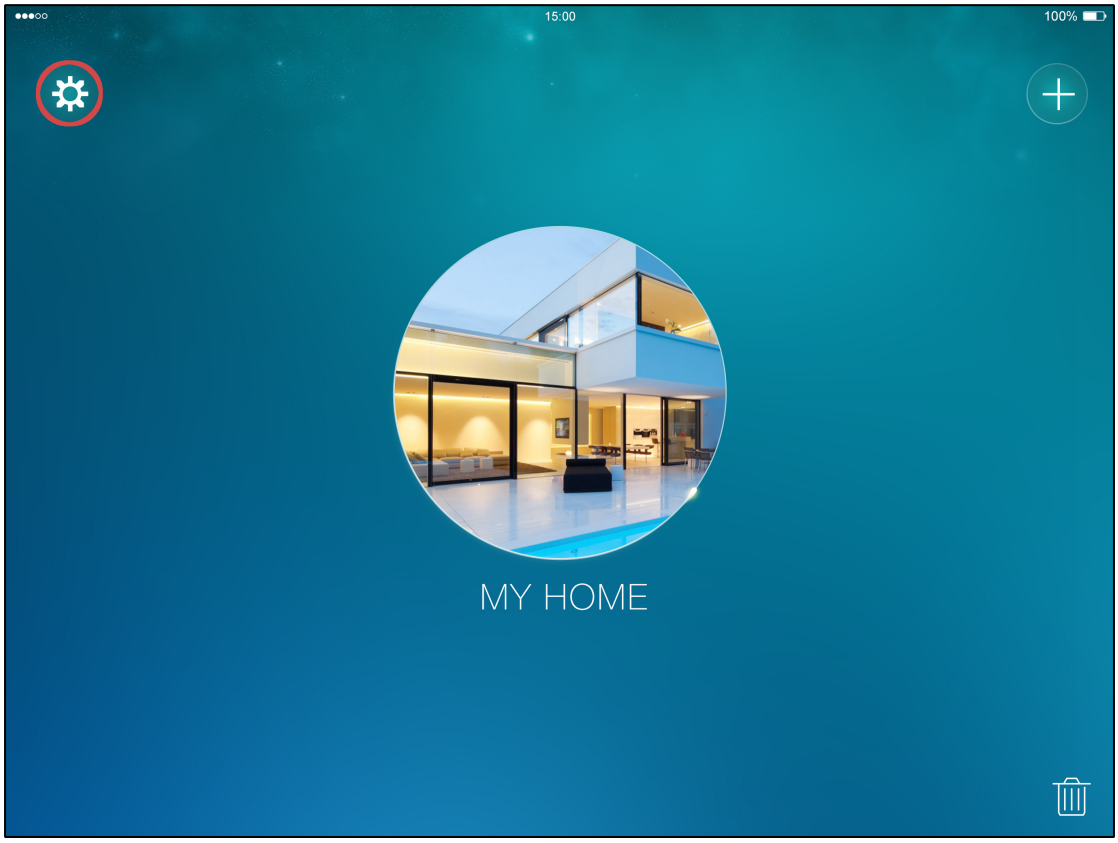


Figure 3 : Access to the information screen

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 tablet, you should make sure you have enough space on your device memory to record on your tablet.

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.

Help
Tap Help to display the Help menu giving you instructions about the usage of the App.

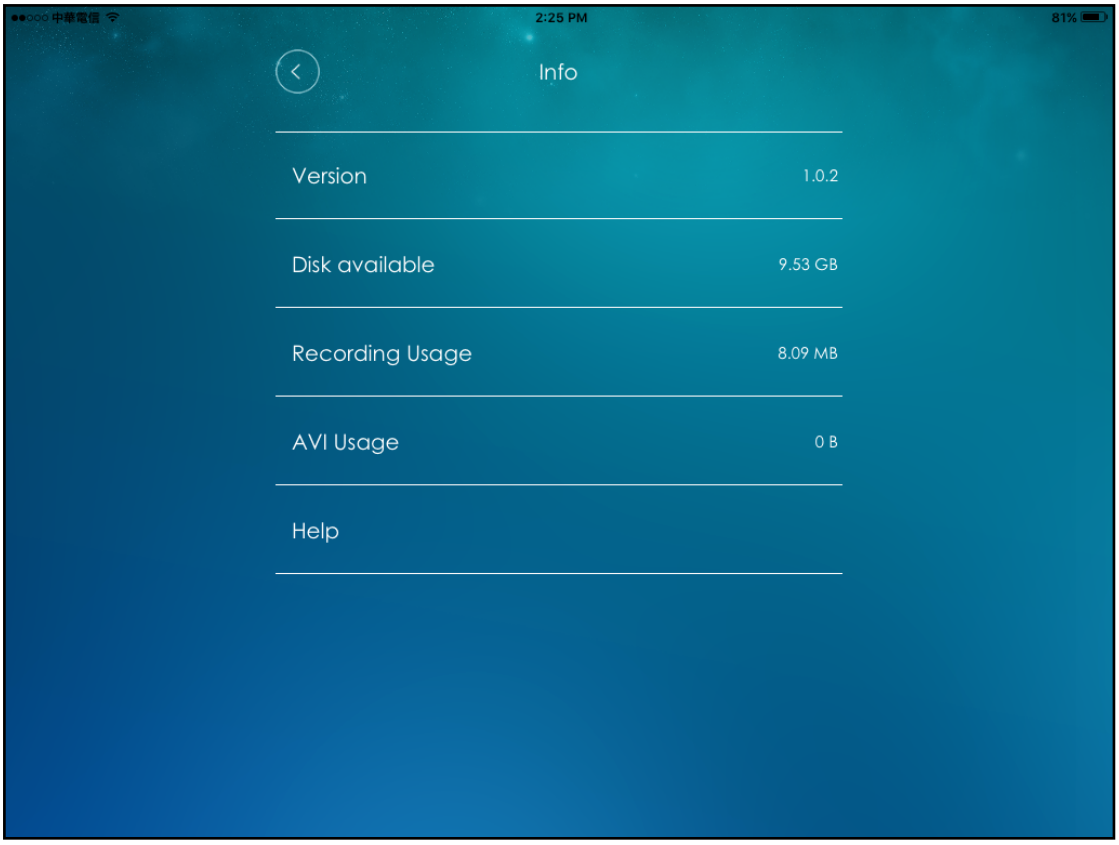


Figure 4 : Information screen

5. Manage your Z-Wave IP Cameras using mCamViewZ+

5.1. Add a new home

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 mCamViewZ+ for the first time, no camera will be added to 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.

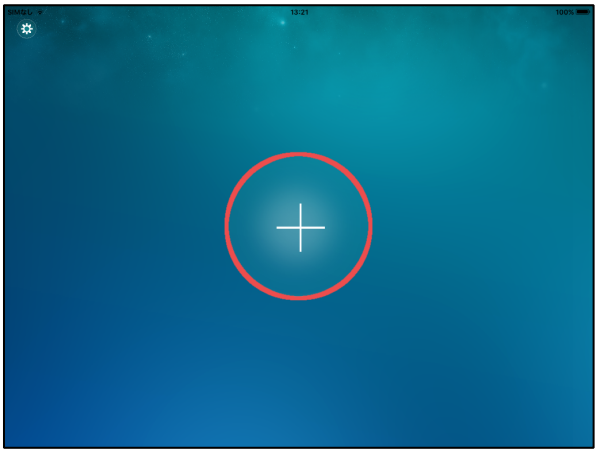


Figure 5 : Add a camera (first use)

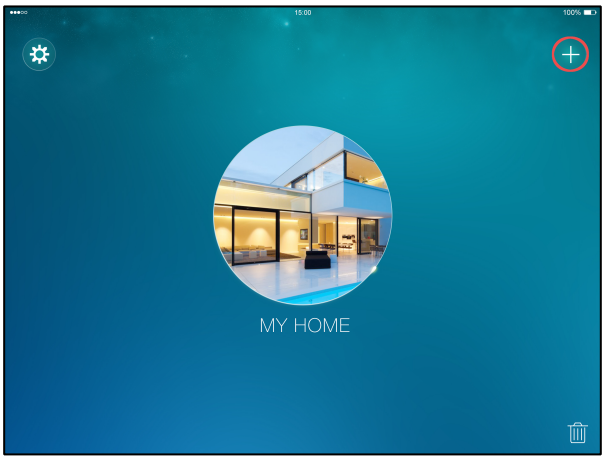


Figure 6 : Add a camera (others cameras already added)

Name your home

You will be asked in input the name of your home and tap on the arrow to go to the next step.

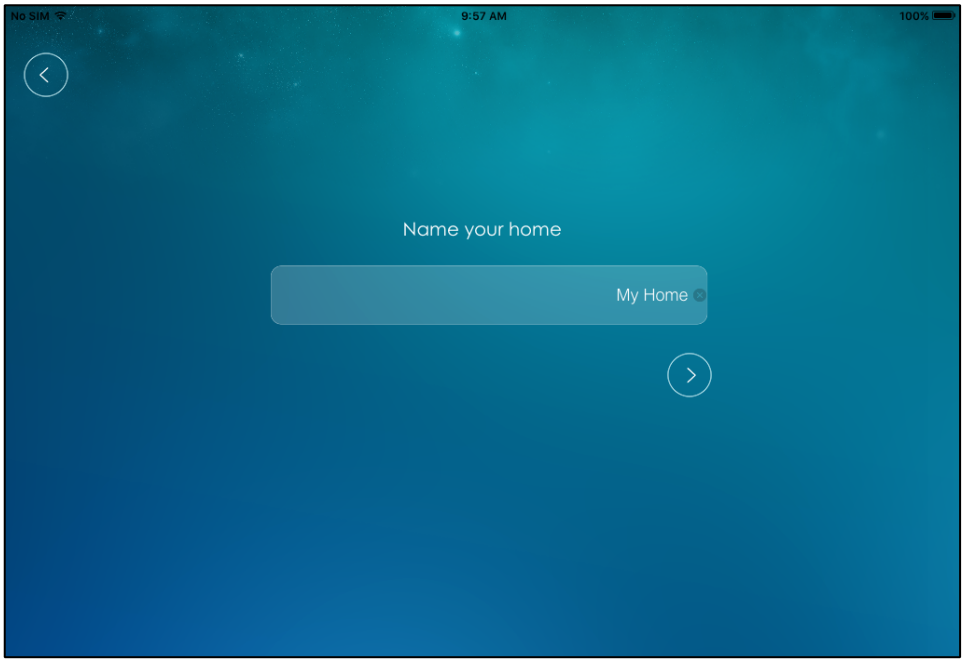


Figure 7 : Name your home

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 mCamViewZ+ 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 mCamViewZ+ 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 mCamViewZ+. This QR code contains your camera ID and password information to setup your IP Camera

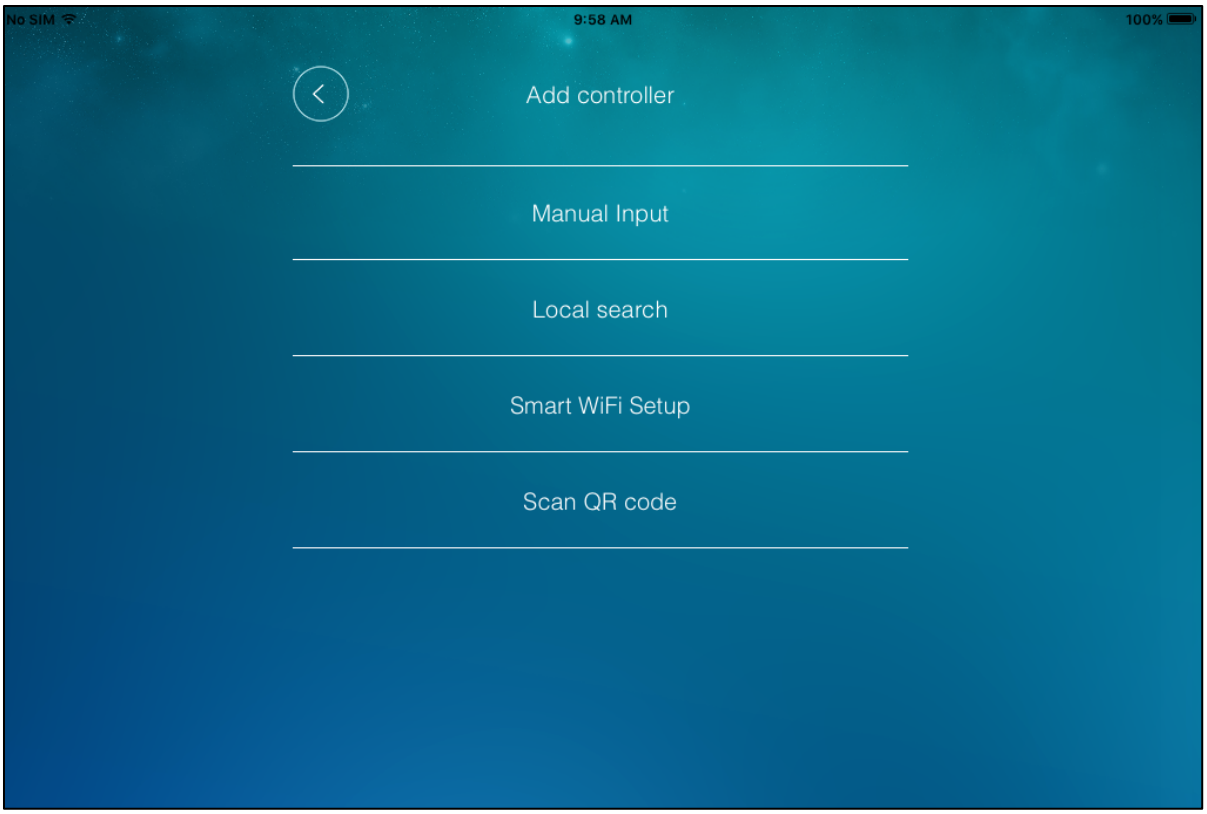


Figure 8 : Choose an setup method

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 at the right of “Smart Wi-Fi Setup”

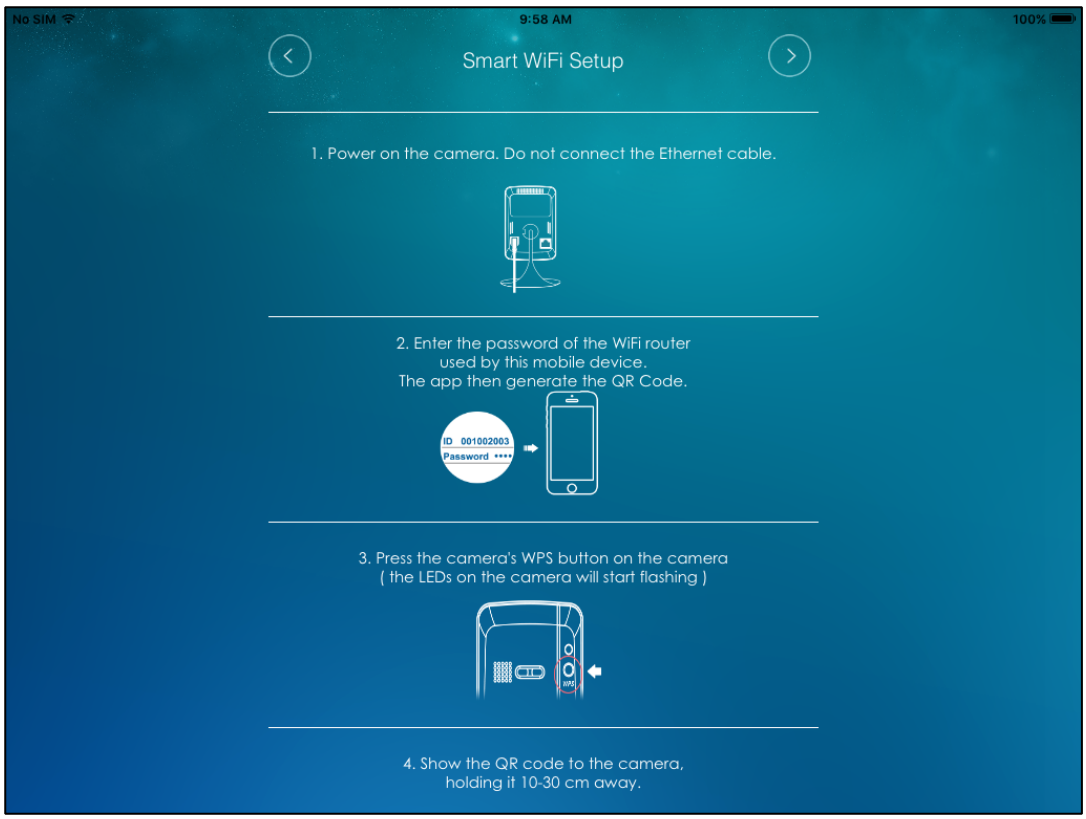


Figure 9 : Smart Wi-Fi Setup instructions

1. Enter the Wi-Fi password of your Network

Enter the Wi-Fi password of your local network (the one your tablet is connected to).

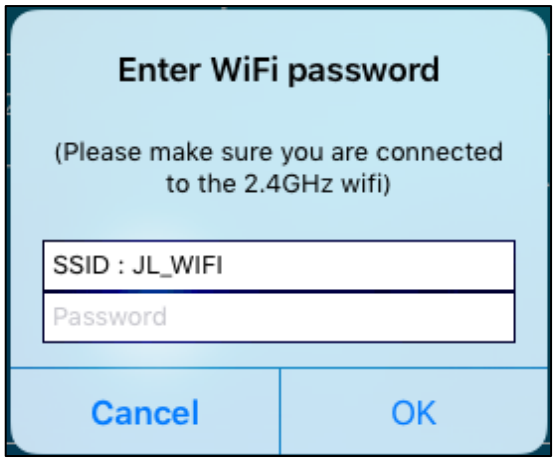


Figure 10 : Input your Wi-Fi password

2. Scan the QR code

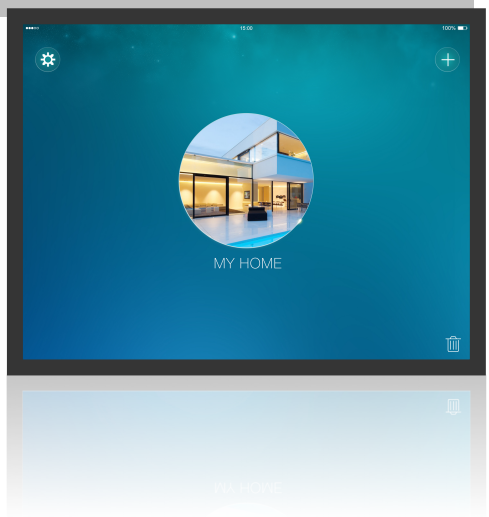
Press the WPS button located on your IP Camera. Place your tablet 10~30 cm away front of your camera so the QR Code can be scanned by the camera.
Keep your tablet this way until you hear a sound notification indicating that your IP Camera and your tablet have been paired successfully.

Figure 11 : Scan the QR code from mCamViewZ+

3. 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.



5.1.2. Local Search

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

This setup method should be used if your tablet and your IP Camera are connected to the same Network.
Ensure your IP Camera and your tablet are connected to the same Wi-Fi access point.

2. Find your IP Camera

Once you tapped on « 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 the label on your camera.

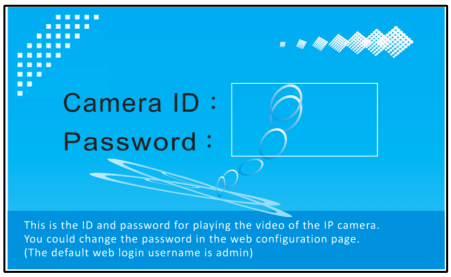


Figure 12 : ID/Password card

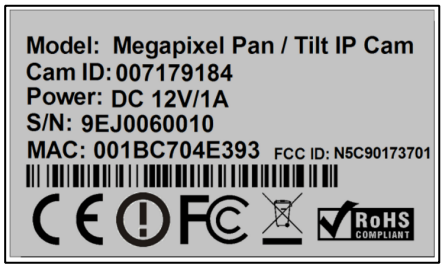


Figure 13 : Label on the bottom/back of the camera

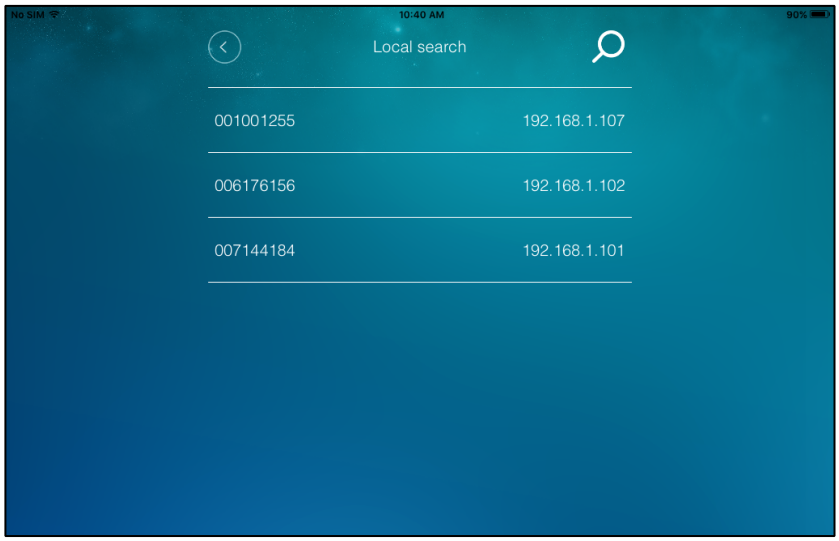


Figure 14 : List of the IP Cameras connected to the same network

3. Input the ID/Password of your IP Camera

Once you selected your IP Camera in the list of connected IP Camera, you will be asked to input the password of you IP Camera.
These information can be find on the ID/Password card *cf. Figure 12*.

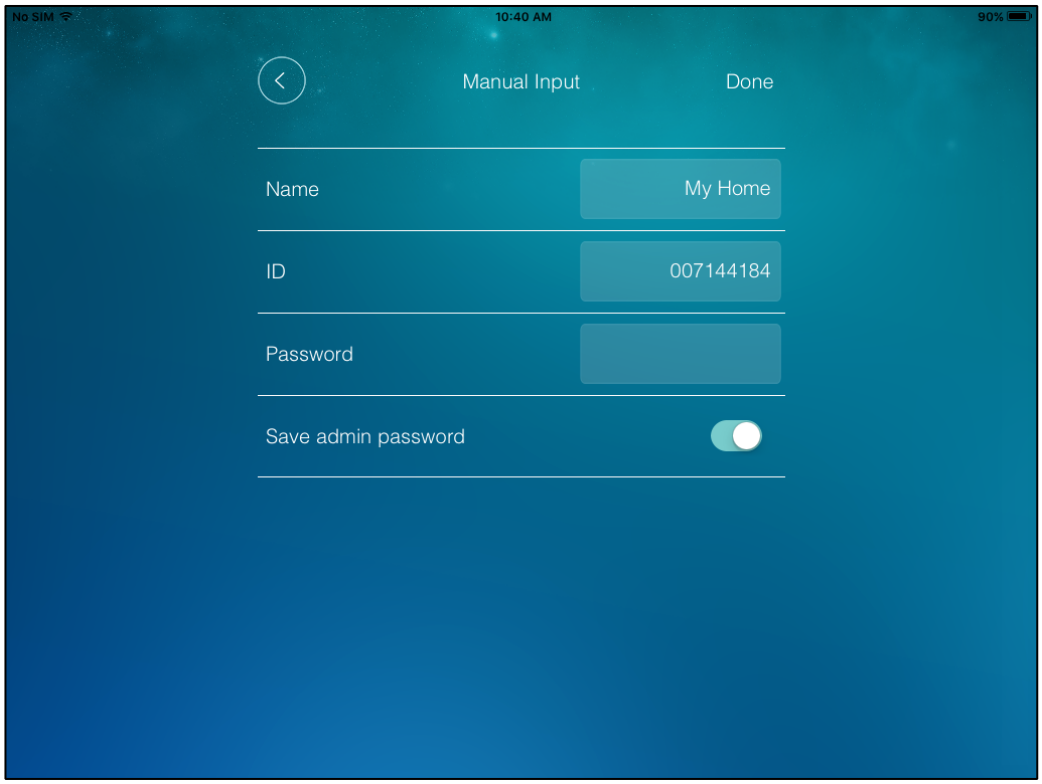


Figure 15 : Input the ID and the password of your IP Camera

5.1.3. Manual Input

This method should be used if you want to add a new camera remotely from the place were 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.
Before starting this setup method, ensure your camera is connected to your network either through the Ethernet cable or wirelessly (Wi-Fi).

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 12.*

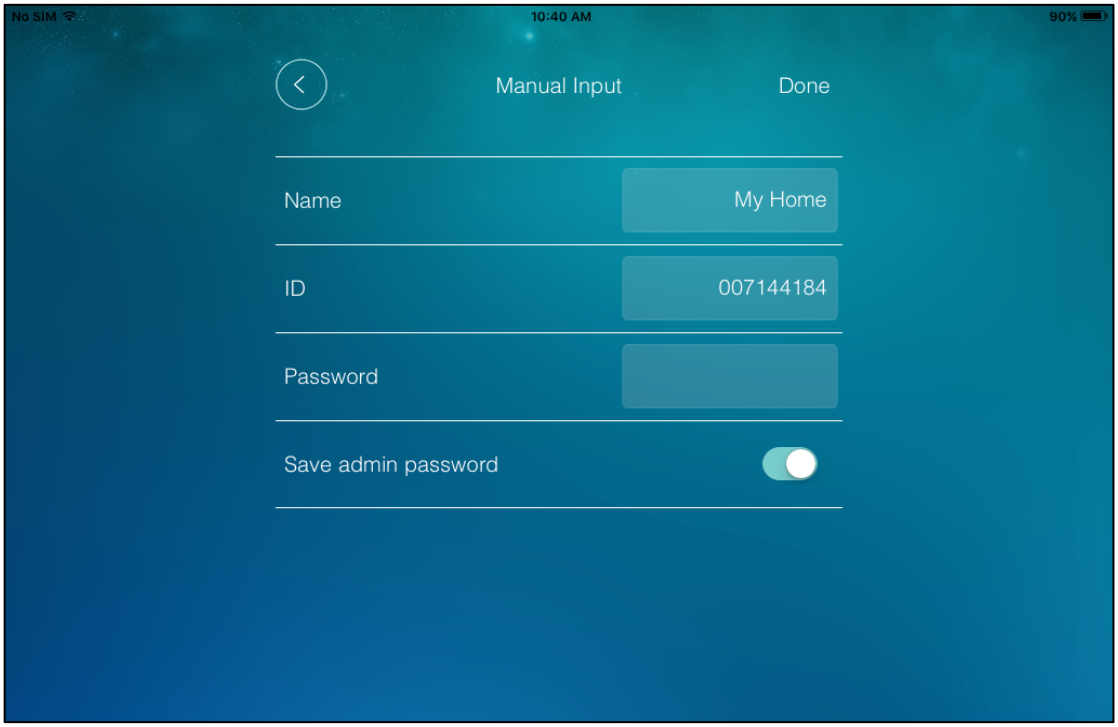


Figure 16 : Manual Input

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 tablet or being connected to any other networks.
This method works likewise the manual input method with the 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 17 : QR code provided on the ID/Password card

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

5.2. Delete a home

1. Drag the home into the trash icon

If you need to delete one of your IP Cameras, you should go to the main screen and drag the home icon into the trash icon .

2. Confirm the home removal

A dialog box pops up asking you for your confirmation. Tap “Ok” if you wish to proceed the home removal.

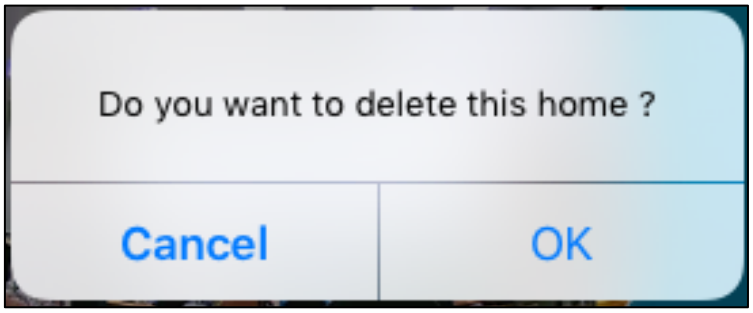


Figure 18 : Delete a Home

5.3. Authentication

For the first time access of the Z-Wave camera, you need to key in the admin Username and Password. Please be noticed that this admin account is not the video display ID/password shown on the ID/password card.

Notice: the default admin Username is admin, Password is empty (leave blank)

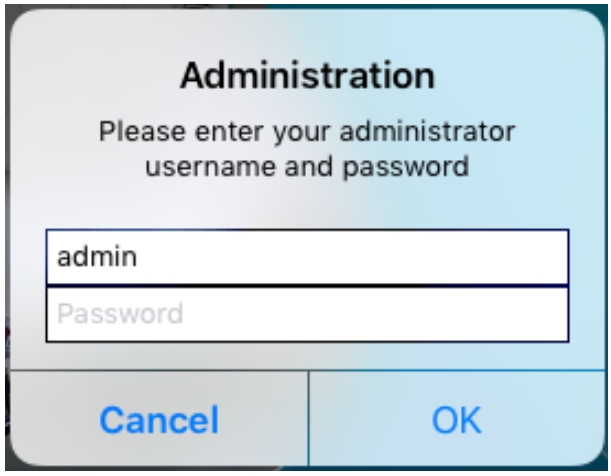


Figure 19 : Input your admin Username/Password

6. Home management interface

The Home management screen allows you to view, configure and control everything related to your Z-Wave camera.
You can configure your camera settings, you can manage and control your Z-Wave devices, you can view your camera live video and your recorded files.

6.1. Access the Home management interface

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

Figure 20 : Tap your camera and access the Home management screen

6.2. Home management layout

Once you have accessed the Home management screen, you should be viewing the following layout.

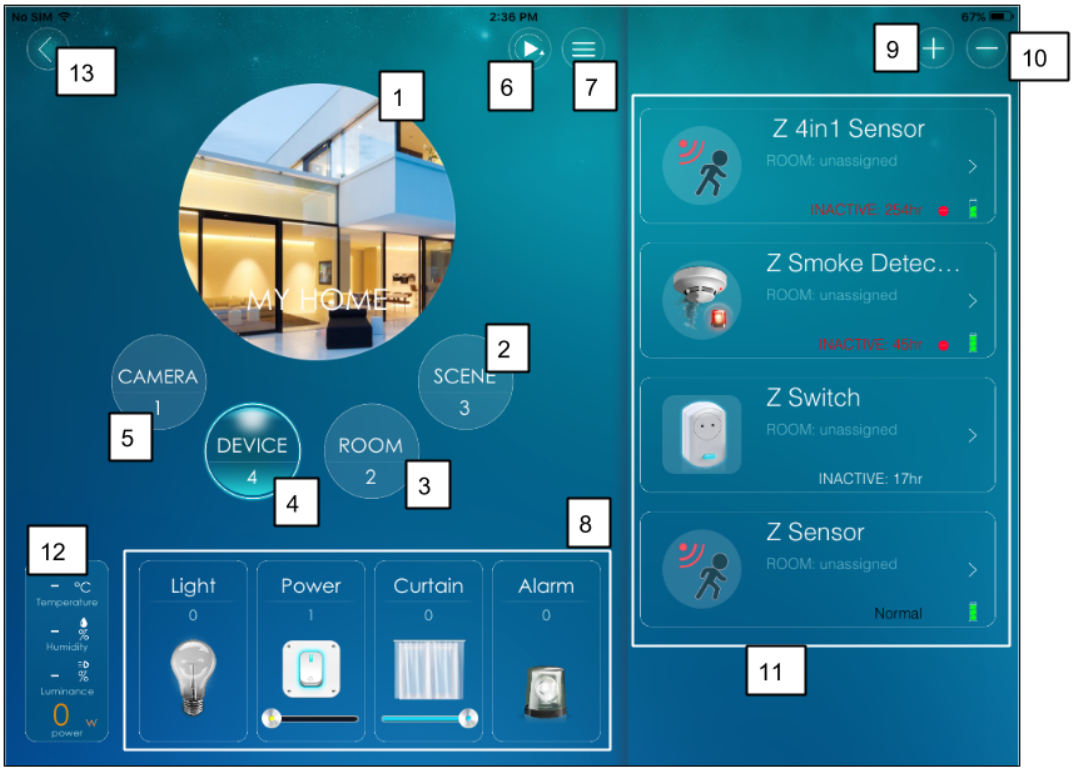


Figure 21 : Tap on your Home to view the video

1: Live view, tap your Home icon to view the video from the camera

2: Scene, tap Scene to access the Scene feature and design programs to automate your Home

3: Room, tap Room to access the Room feature and manage each room of your Home.

4: Device, tap Device to manage your Z-Wave devices, you can add, delete and control your Z-Wave devices.

5: Camera, tap Camera to access the multi-viewing mode and view your cameras connected to your Z-Wave camera at the same time. Up to 4 cameras can be seen simultaneously on the same screen.

6: Playback, tap the Playback icon to have access to your local, SD card, NAS, Dropbox and Time-Lapse recordings. The Playback screen also allow you to view your Home events history.
7: Home settings, tap the Home settings icon to configure your Z-Wave camera settings.

8: Device Quick Access, tap Light, Power, Curtain or Alarm icons to turn on/off all the similar Z-Wave devices in your Home.
Tapping the Light icon will turn on/off all the Z-Wave lights in your home,

tapping the Curtain button will turn on/off all the curtain Z-Wave devices in your home.

9: Add Z-Wave device, tap the « + » icon to add a Z-Wave device into your Home.

10: Remove Z-Wave device, tap the « - » icon to remove a Z-Wave device from your Home.

11: Z-Wave devices manager, this screen allows you to control and manage your Z-Wave devices.

12: Chart recording, tap the chart recording button to display the chart of your Home activity.

13: Go back to the previous screen, tap this icon to go back to the main screen of the App.

6.3. Live video

From the Home management screen, tap your Home icon to have to the live view screen. You will be able to view the live video from your Z-Wave camera.
On the live video screen, you also can manage and control your Z-Wave devices, have access to the device quick access and chart recording features.

Figure 22 : Tap on your Home to view the video

You will be redirected to the main screen of your Home, from there you will be able to view the live video, manage your Z-Wave devices and configure your IP camera settings.

Figure 23 : Live view screen

Live view control

The live view let you control your camera following features

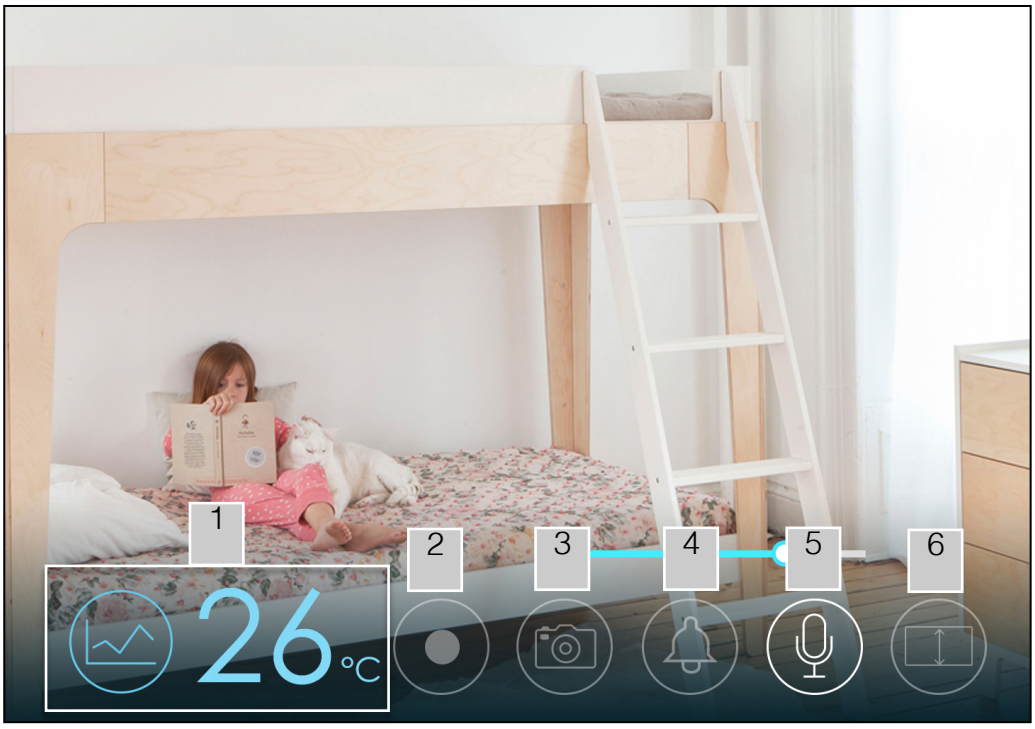


Figure 24 : Live view controls

1. Temperature : Display the current ambient temperature around your camera.
Tap on the chart icon to display the temperature per hour.
(This feature is only available for IP Camera embedding a thermometer)

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

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

4. Trigger the alarm : Trigger the alarm of the camera.

5. 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

6. Display black bands : Tap this icon to display or hide the black bands on the top and the bottom of the screen.

Figure 25 : Temperature chart per hour from the live view

6.3. Chart recordings

This function allow you to view charts of the activity of your Home regarding the temperature, the humidity, the luminance and the power consumption .
These values are acquired from the Z-Waves devices connected to your camera, for more detailed information about the Z-Wave device management with your camera please refer to the section 9.

1. Have access to your Home activity charts

To have access to this feature, tap on the temperature/humidity/luminance/power buttons located on the lower left corner of the screen.
This feature is accessible from the Home Manager screen and the Live View screen.

Figure 26 : Access to the home activity charts

2. View your different Home activity charts

Tap the item you want to view either « temperature », « humidity », « luminance » or « power ». You will be able to view its associated chart per day or per month. You can choose to view the charts per day or per month by tapping on the « Day » /« Month » button.

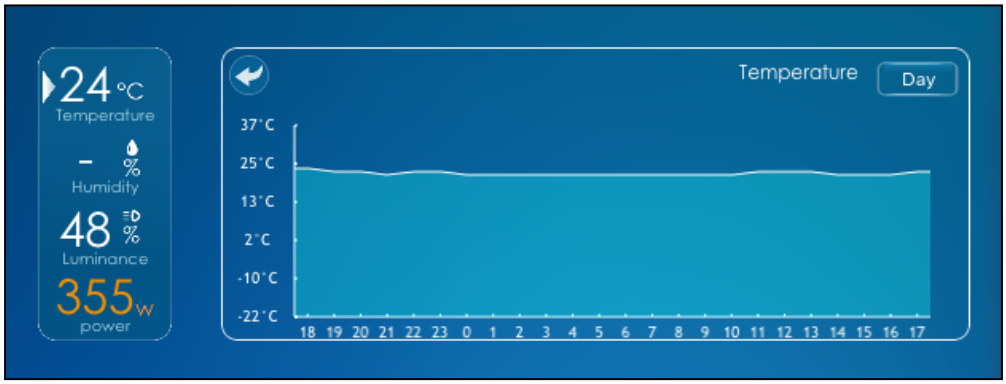


Figure 27 : Temperature chart per month

3. Hide the chart recordings

If you want to hide the chart recordings, tap the « go back » icon located at the right upper corner of the chart.

Figure 28 : Hide the chart recordings

7. Multichannel video

mCamViewZ+ features a multichannel video function allowing you to monitor all the cameras added to an Home simultaneously.
You will have access to all the features provided in the live view mode.

1. Have access to the multi viewing screen

Tap the « Camera » icon from the Home Manager screen.

Figure 29 : Tap the « Camera » icon to access the multi viewing screen

2. Multiviewing layout

Once you access the multichannel video screen, you will view the following layout.

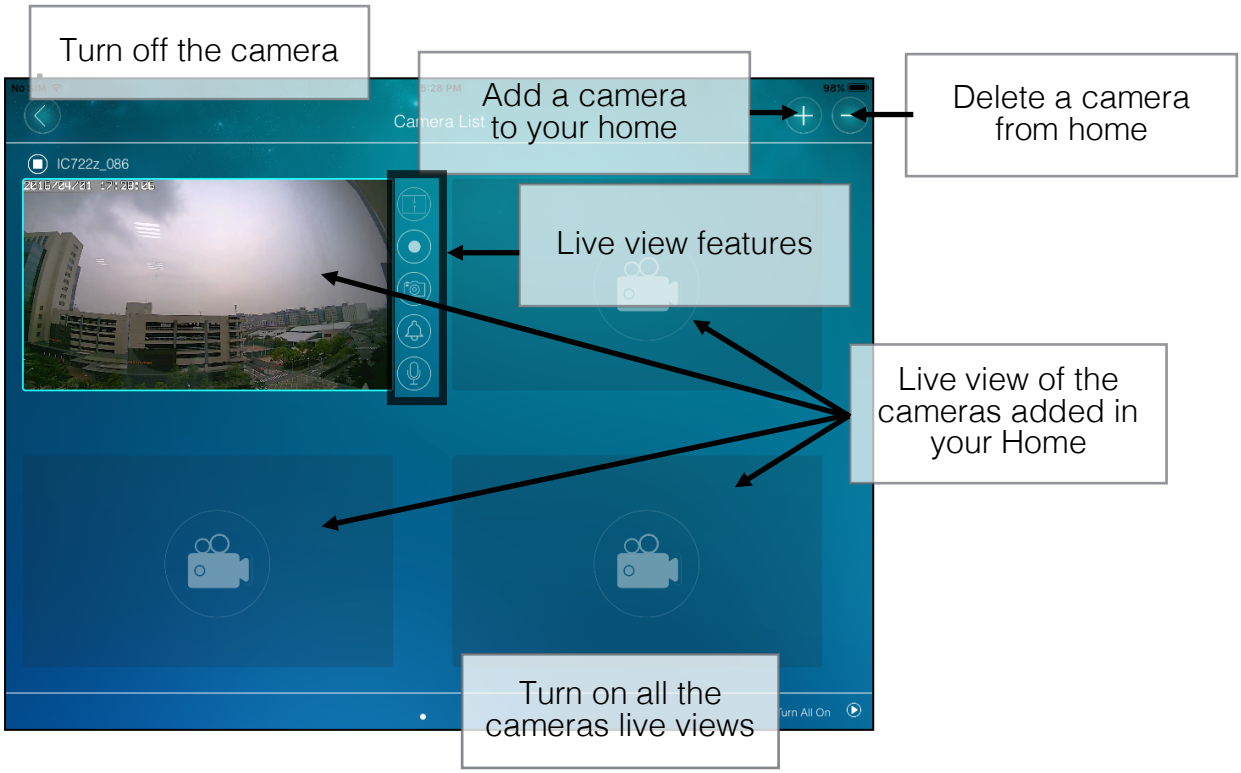


Figure 30 : Multiviewing Screen

8. Home settings

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

The Home settings are accessible by tapping on the icon on your Home main screen, the home settings will be appear on the right part of the screen.

Figure 31 : Access to the Home settings

8.1. Home settings 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

Whenever you modify your Home settings, tap on the “Update” button to save your modification.

8.2. Alarm notification

With mCamViewZ+ on your tablet, you will be notified anytime and anywhere 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 the "bell" icon 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 tablets.
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 visible) event has been detected.
Selecting a low digit (1~3) will set a high sensitivity, selecting a high digit (8~10) will set a low sensitivity.

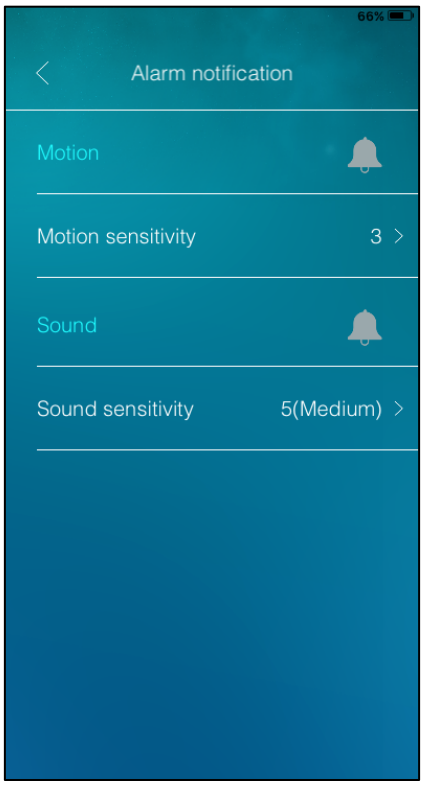


Figure 32 : Alarm notification settings screen (motion and sound detection disabled)

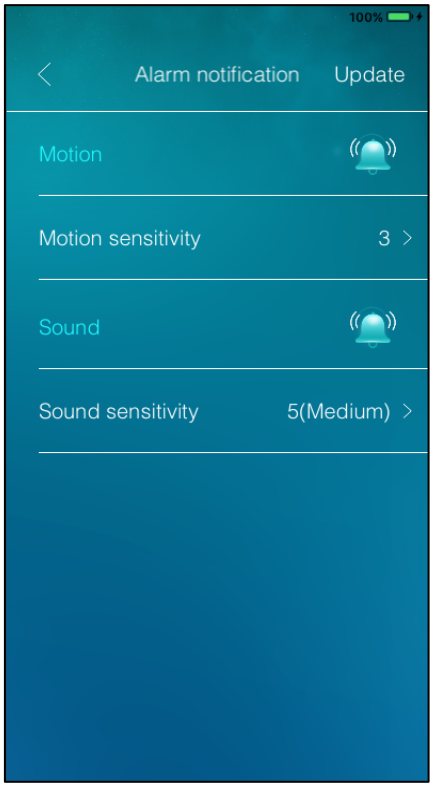


Figure 33 : Alarm notification settings screen (sound and motion detection enabled)

8.3. Stream settings

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

Resolution
You can adjust the resolution of the video. Keep in mind that a higher resolution requires a higher Internet speed. Choose the highest resolution if you have a fast Internet connection.

Frame rate
Select the frame rate of the video. The frame rate defines the number of images per second of the video. The higher is the frame rate, the smoother will be the video.
You can select values from 1 fps to 30 fps.

Microphone
Enable the microphone on the camera if you want to listen the sound around your camera.

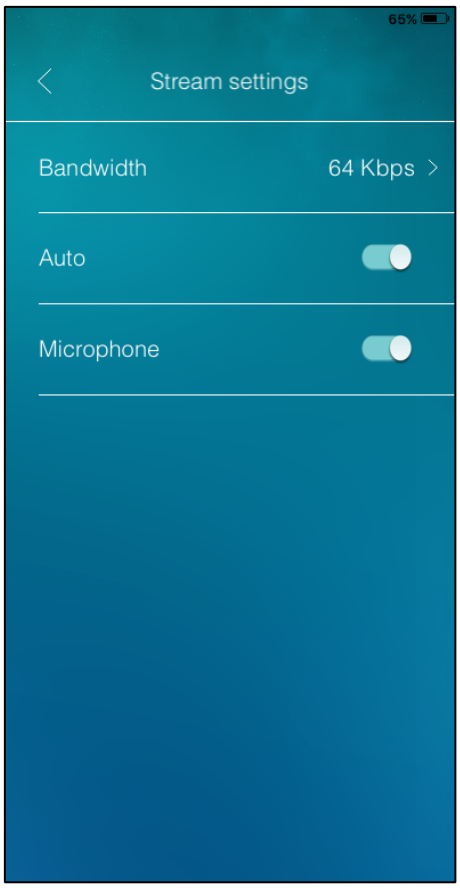


Figure 34 : Stream settings screen (Auto mode)

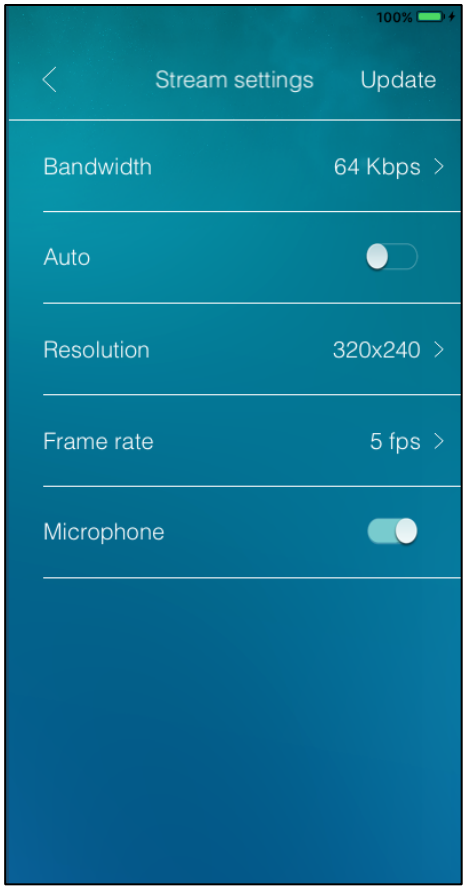


Figure 35 : Stream settings screen (Manual mode)

8.4. Video settings

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

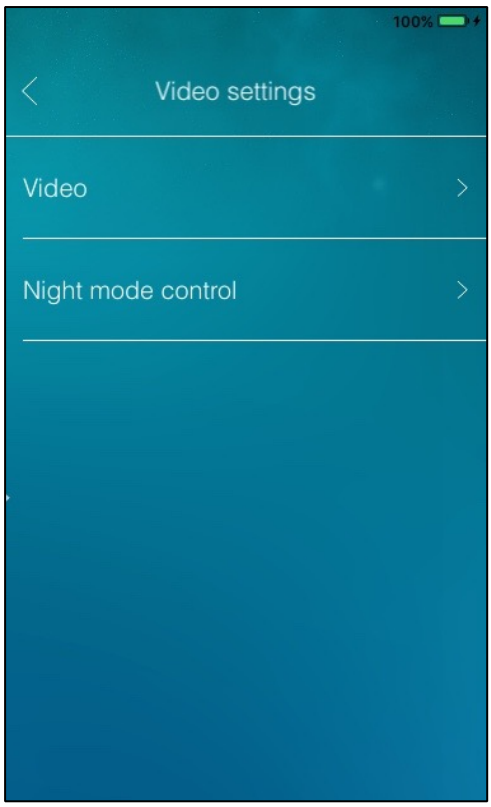


Figure 36 : Video setting screen

8.4.1. 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.

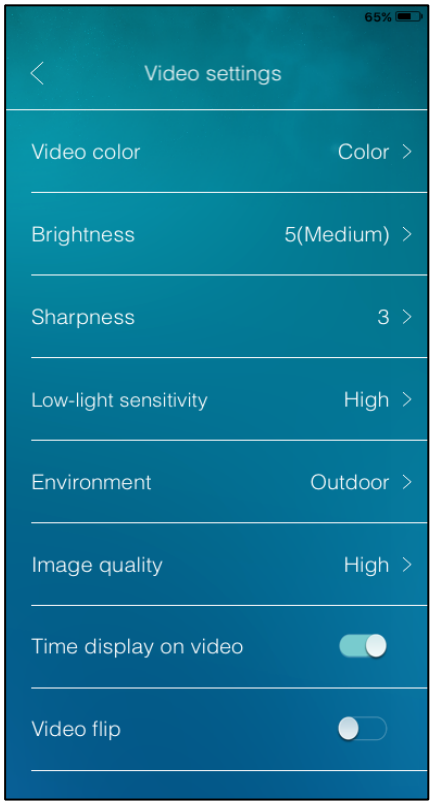


Figure 36 : Video configuration screen

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.

8.4.2. Night Mode Control

The IP Cam is able to work both in day-time and night-time. The IP CAM features an IR LED that allows the camera to see objects in the night-time.
In this night mode control setting screen , you can specify when the IR LED will be on.
There are three ways to control the night mode (IR LED):

Auto
The IP cam will automatically turn on the IR LED 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).

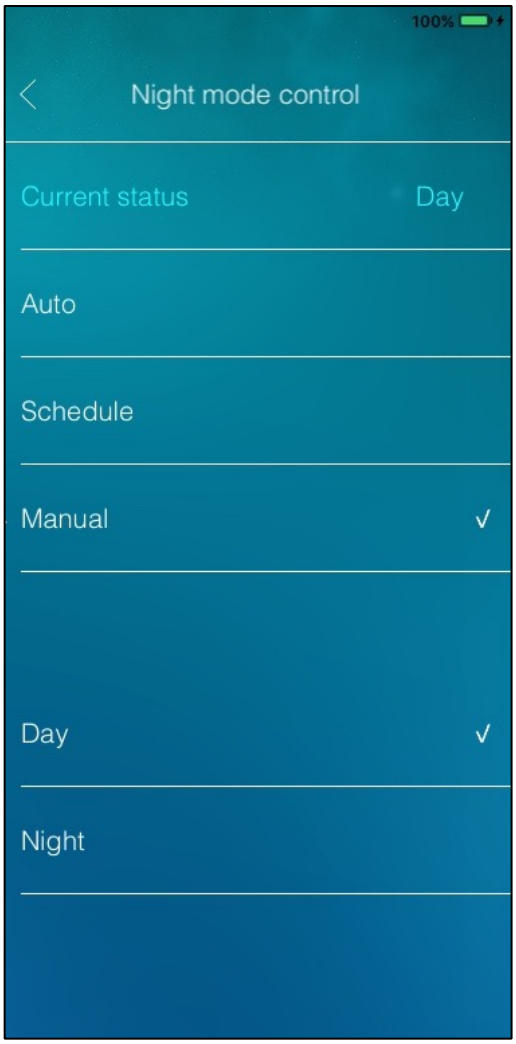


Figure 37 : Night mode control

8.5. Camera settings

Camera settings allows you to configure everything related to the camera including viewing the information of the camera, configuration the Network of the camera (wired and wireless connection), define the sound and motion detection sensitivity used to trigger notification or recordings and administrate your IP Camera.

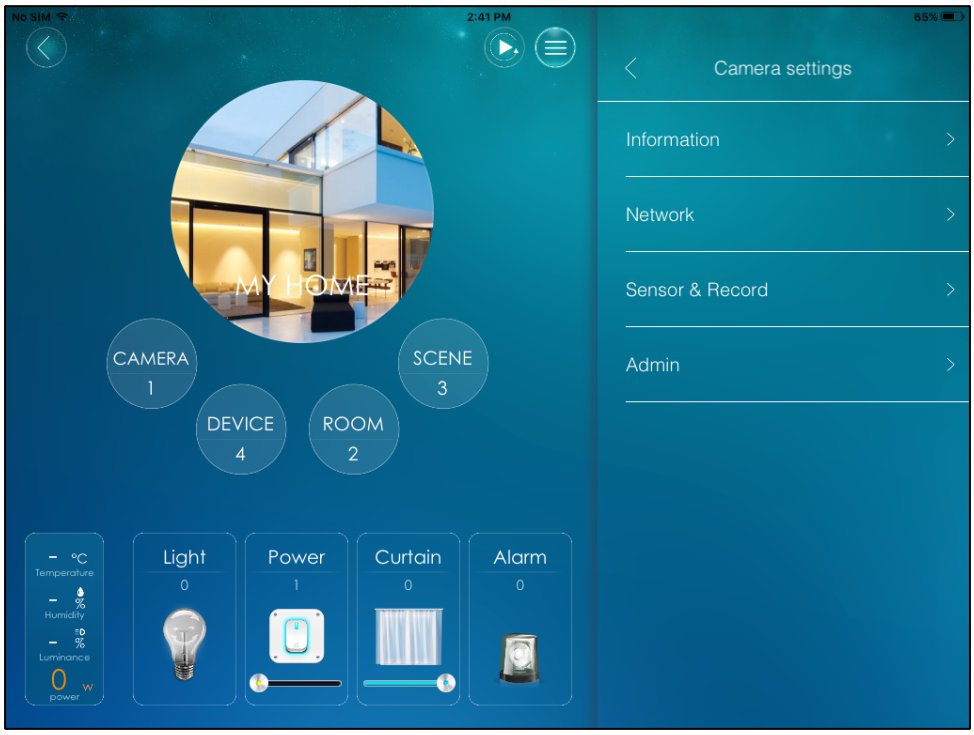


Figure 38 : Camera settings screen

8.5.1. 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.

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

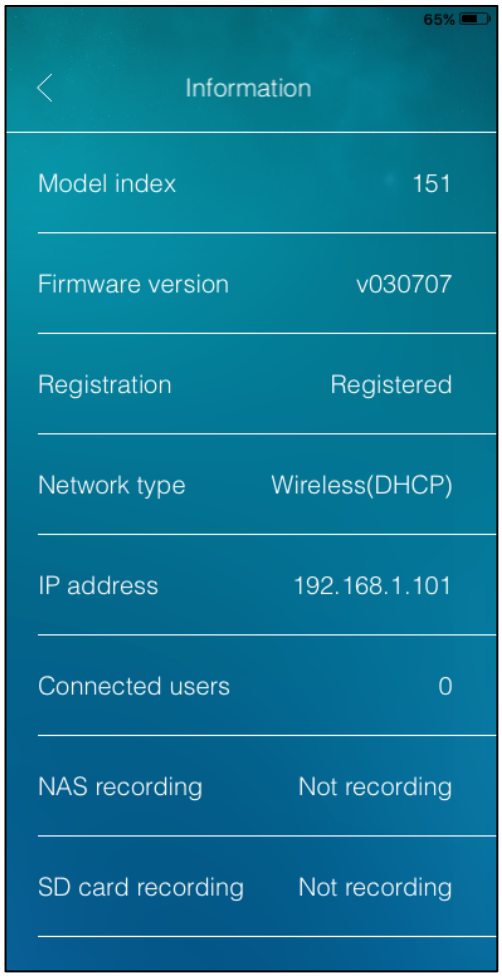
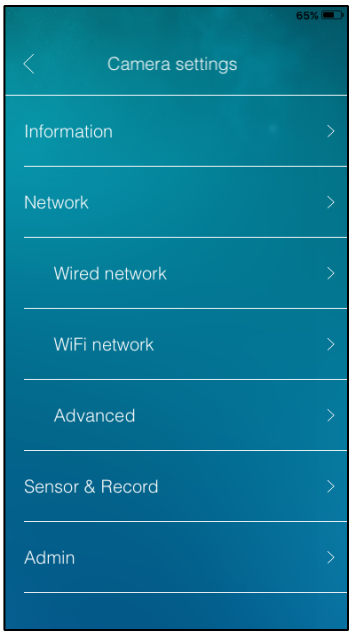


Figure 39 : Information screen

8.5.2. 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

8.5.2.1. 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.

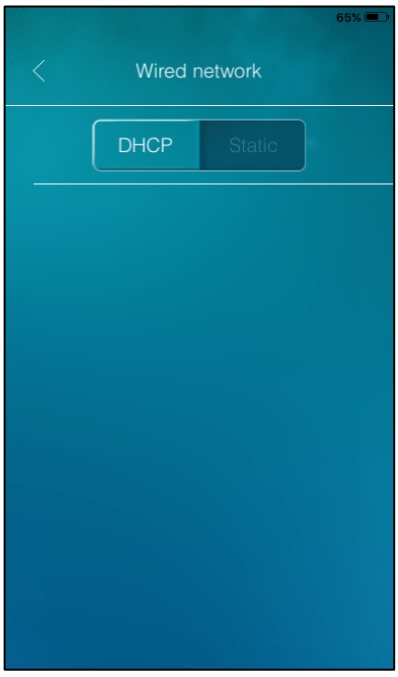


Figure 40 : Wired network

Figure 41 : Wired network settings screen (Static configuration)

8.5.2.2. 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 tablet and your IP Camera should 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.
You can choose to use the DHCP function of your router/NAT or configure it manually by choosing "static" by tap on the arrow on the right of the selected access point.

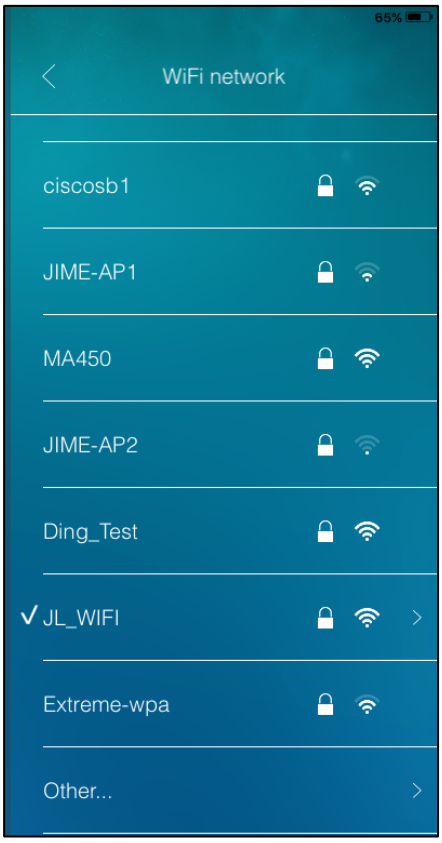


Figure 42 : Wi-Fi access points

8.5.2.3. Advanced

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

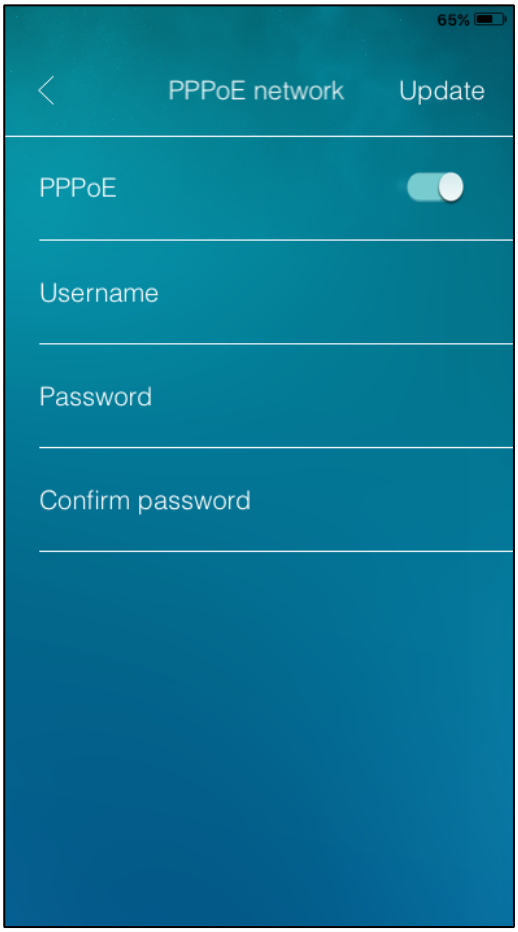


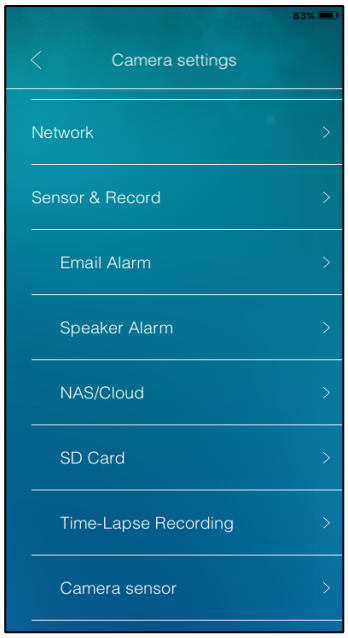
Figure 43 : PPPoE network settings

8.5.3. Sensor & Record

Sensor & Record allows you to configure the settings regarding the video recording on Micro SD Card/NAS, the notifications sent to your tablets and the speaker alarm, the sensitivity of the camera sensor and the Time-Laps Recording configuration.

To have access to it, tap on “Sensor & Record”, six subsections will appear:

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



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 to up to three recipients.

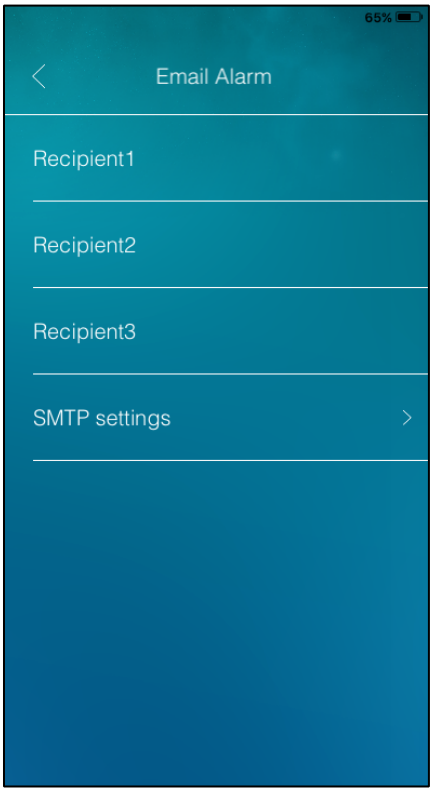


Figure 44 : Email Alarm settings screen

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 the email notification to the “Email recipients”.
The “Email recipients” could be on another email server or any reachable email address. The username and password fields could be left empty if no authentication is needed for the SMTP server.

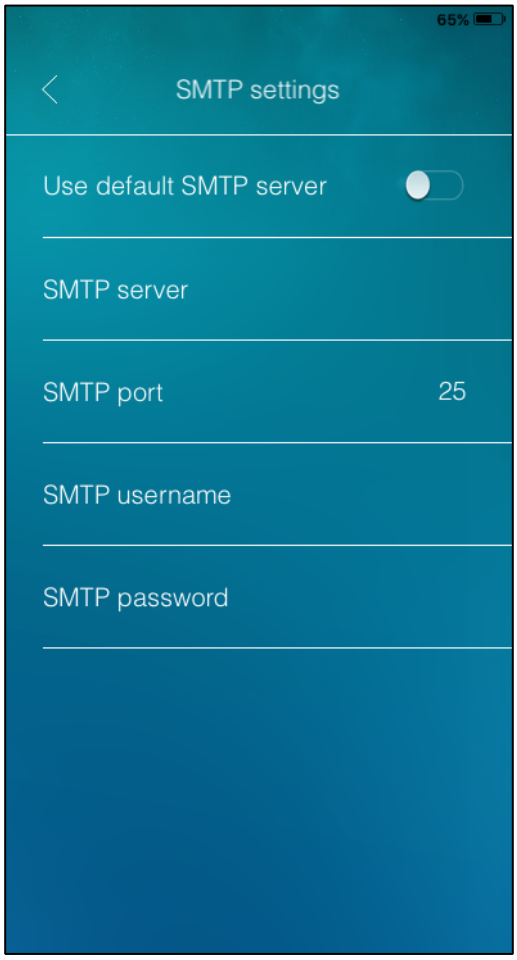


Figure 45 : SMTP settings screen

8.5.3.2. Speaker alarm

The IP Camera provides a speaker alarm function.
The alarm can be used within the Scene function to notify people around your camera.
The duration of the alarm is configurable.

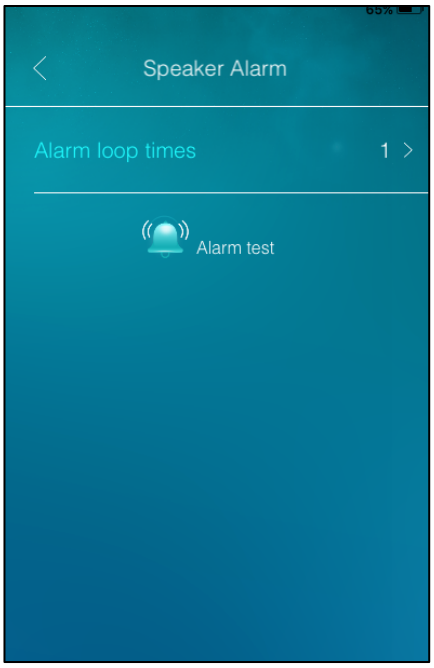


Figure 46 : Speaker Alarm settings screen

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.

8.5.3.3. 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, you can choose the NAS device that suitable for you. Your IP Camara will be compatible with any of your NAS devices.
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 recordings into your Dropbox account.
You can use your Dropbox account to store video files and remotely playback the recorded video files on your tablets or computers.

Dropbox

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

NAS settings

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

By recording days or by disk space
You can select whether you want the NAS device to keep the recording by number of days or until your NAS memory is greater than a value you specify.

By recording days
Specify for how many days your video recordings should be kept on your NAS device. After that time period your video recordings will be erased from your NAS device memory and being replaced by new recordings.

By disk space
The camera will record into your NAS device until your NAS memory is greater than a value you can specify.
When your NAS device memory is lower than the value you specified, you have two options :
- Circular recording : Select this option and your camera will re-write on your previous recordings
- Stop recording : Select this option if you want your camera to stop recording once your NAS device memory is lower than the value you 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 \\"NAS name"\"shared folder name" or \\"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 in five minutes video files.
You can use the Playback function to have access to your NAS video recordings. Cf. section 12.5.

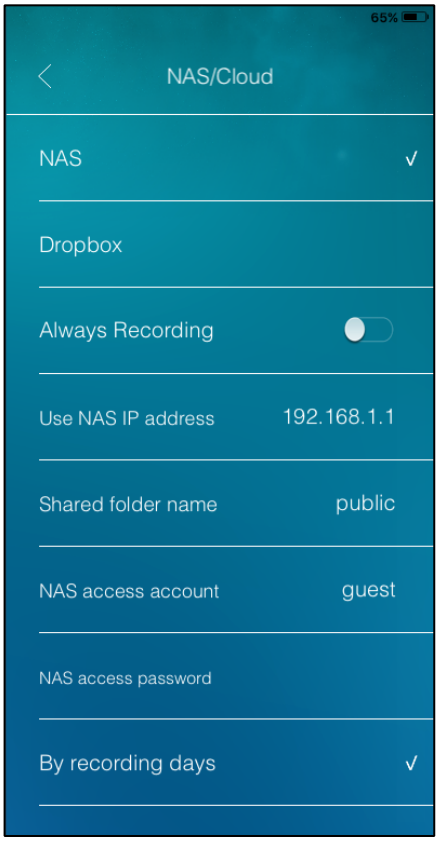


Figure 47 : NAS/Cloud settings screen

Dropbox settings

Login to your Camera
You need to connect your Dropbox account to your camera. In order to so, tap the Login button and enter your Dropbox information (email address and password used for your Dropbox account registration).
Then tap sign in and link.

Always recording
If the “Always Recording” is selected, the system will start to record into your

Dropbox account immediately and keep recording.

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

By disk space
When recording into your Dropbox account, the system will check the available space of your Dropbox account. If the available space is less than the specified value, the system will do “Circular recording”(overwrite the oldest recorded files in your Dropbox) 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 Cloud recording at the time. NAS recording and cloud recording can not be enabled at the same time.

8.5.3.4. SD Card

The IP camera features the recording of video files into a standard microSD-Card. Since the recording is directly done into the microSD-Card, there is no network packets loss.

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 Micro SD-Card and keep recording.

SD card full
When recording into the Micro SD-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 Micro SD-Card) or “Stop recording” as selected.

SD-Card information
The availability of the Micro SD-Card either “inserted” or “removed”.

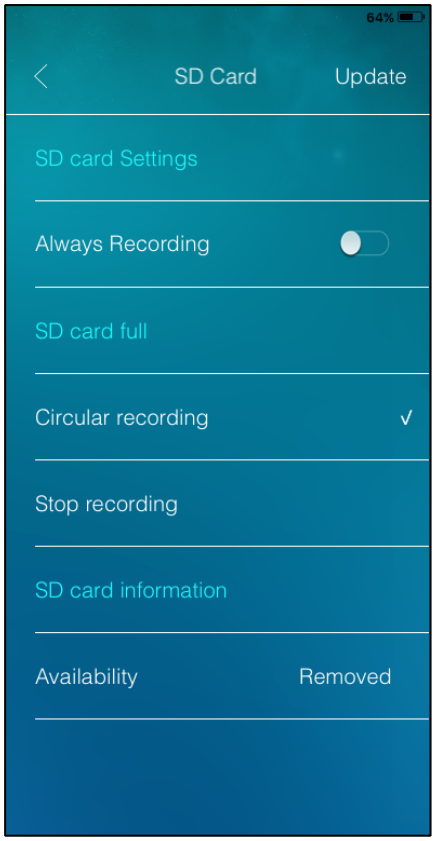


Figure 48 : SD card settings screen

8.5.3.4. 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.

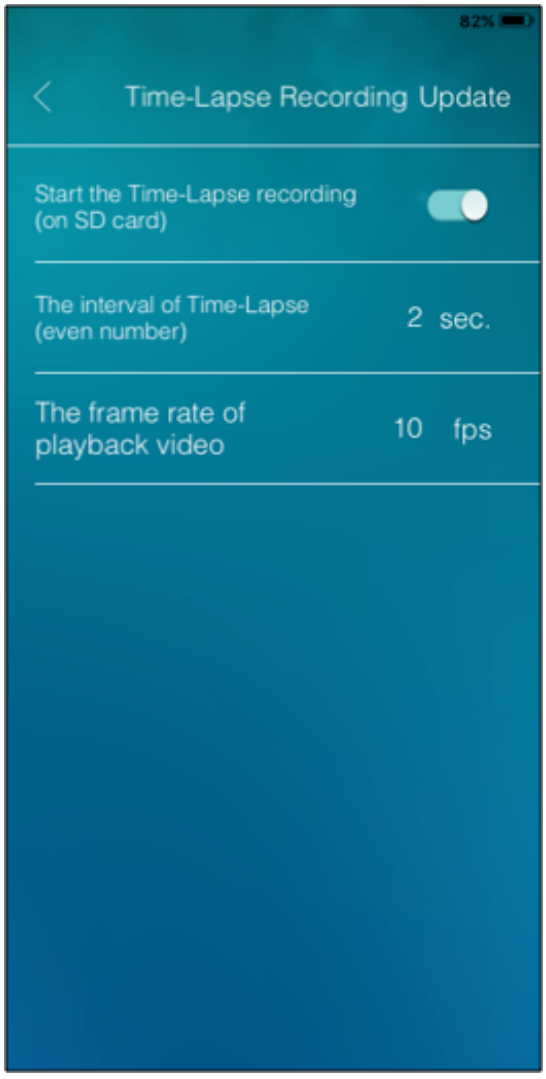


Figure 49 : Time-Lapse Recording setting screen

The choice of the time interval and the frame rate will determines 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)

Figure 50 : Correlation table between the time interval and the frame rate and the real life recording duration

8.5.3.4. Camera sensor

This section defines the sensitivity of the motion and the sound sensor of the camera.

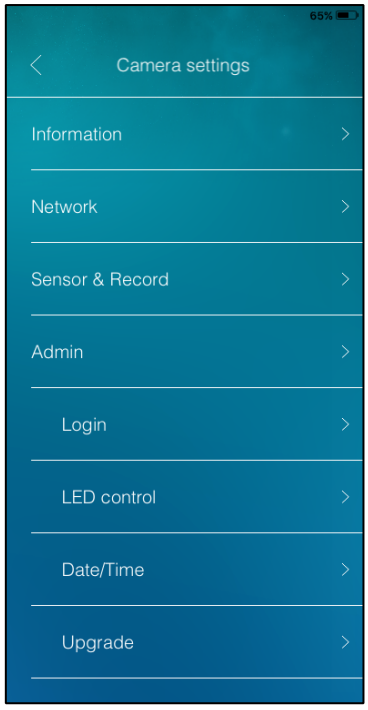
Motion sensitivity – there are 10 possible choices in this field.
The image is compared periodically to the image recorded few instants earlier.
The sensitivity is defined by the percentage of the difference between these two images.

- "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.

8.5.4. Admin



In this final section of the Home settings, you can configure the admin log in 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 "Admin", five subsections will appear:

- Login
- LED control
- Date/Time
- Upgrade
- Reboot

8.5.4.1. 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.

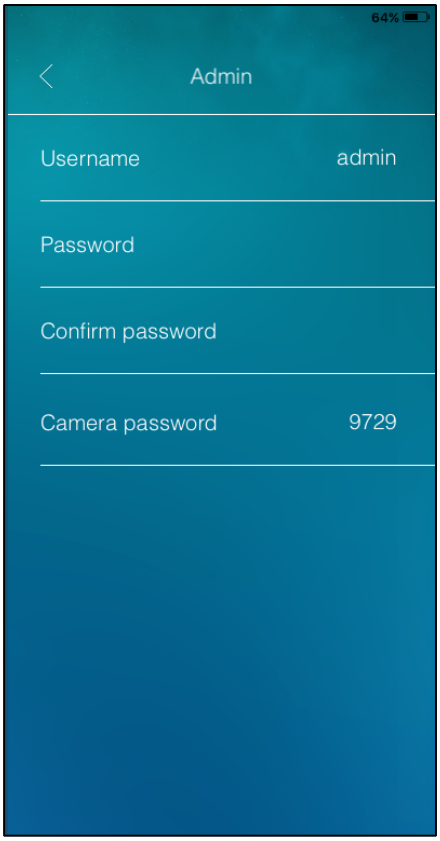


Figure 51 : Admin settings screen

8.5.4.2. 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:

Normal
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.

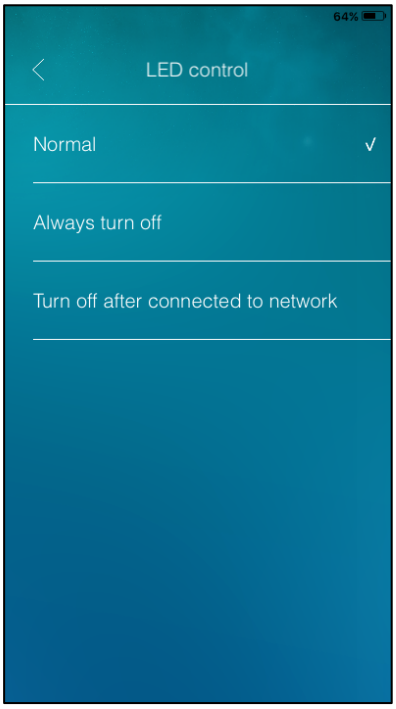


Figure 52 : LED control settings screen

8.5.4.3. 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.

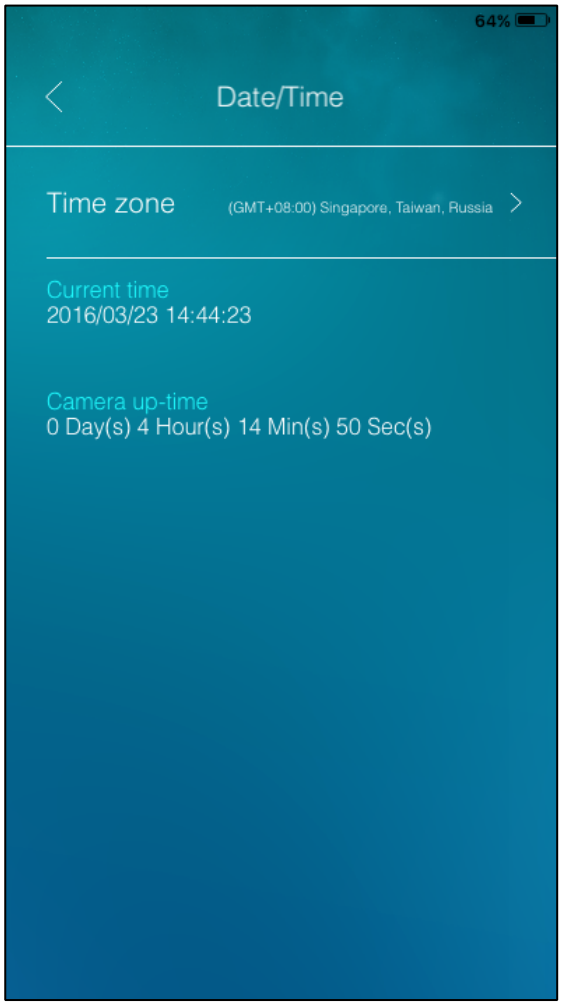


Figure 53 : Date/Time settings screen

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 screen.
Enter the correct information about the FTP server, username/password account and 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.

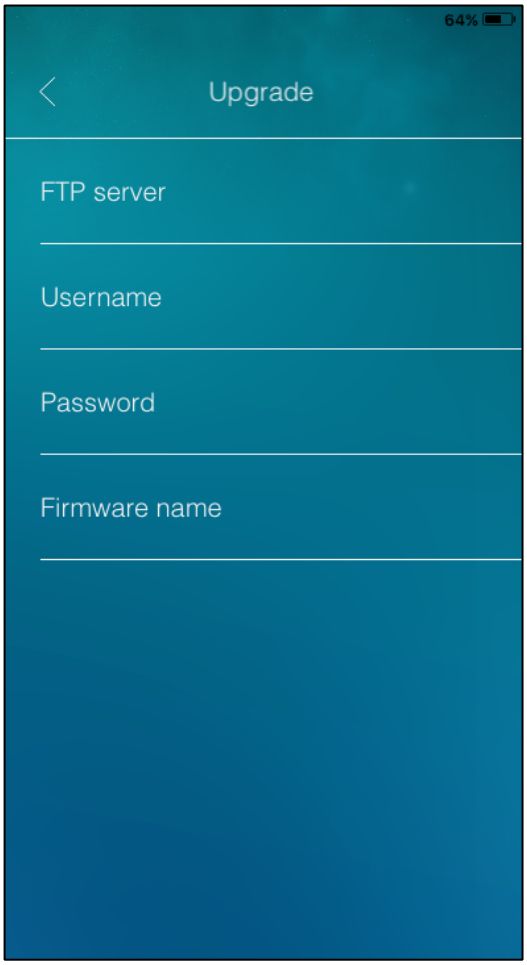


Figure 54 : Upgrade settings screen

7.5.4.5. Reboot

You can restart the IP CAM manually on this screen. All the connected video viewing users will be disconnected.
Tap “Reboot”, a dialog box will pop up to ask for your confirmation to reboot the device. Press “OK” if you wish to proceed.

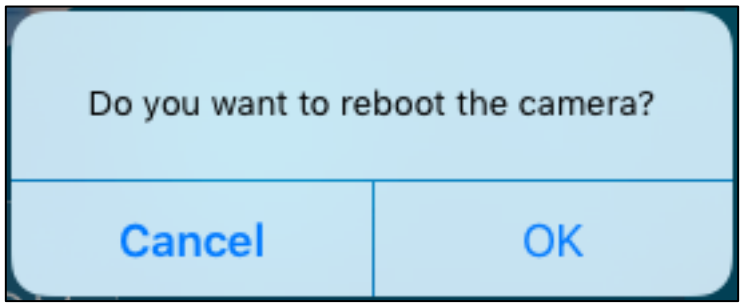


Figure 55 : Reboot confirmation dialog box

9. Manage your Z-Wave devices

IP Cameras embedding the Z-Waves technology allow you to control all your Z-Waves devices, create intelligent scenarios and automate your home.

With mCamViewZ+ you can easily create Homes, Rooms and managing your Z-Wave devices.

All your Z-Waves devices can be connected, controlled and monitored remotely no matter where you are.

9.1. Add a Z-Wave device

1. Tap the “device” icon

On your Home main screen, tap the “DEVICE” icon to display the connected Z-Wave devices on the right part of the screen.

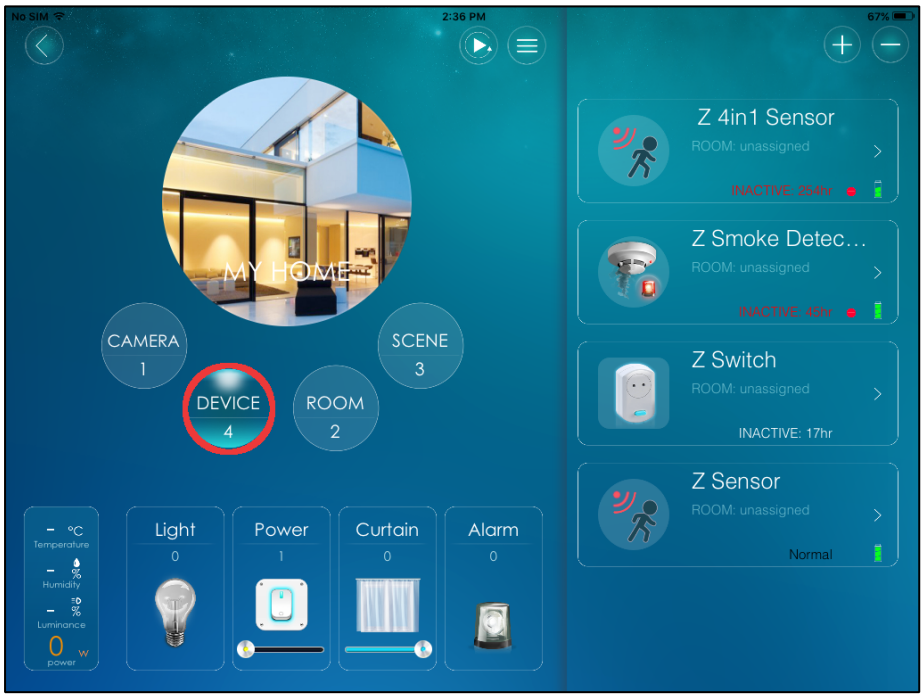


Figure 56 : Display connected Z-Wave devices

2. Tap on the “+” icon

Tap the “+” icon located on the right upper corner of the screen to add a new device.

Figure 57 : Tap on the "+" icon to add a device

3. Start the inclusion process

A dialog box pops up to ask for your confirmation to remove the Z-Wave device. Tap **OK** button to start the inclusion.

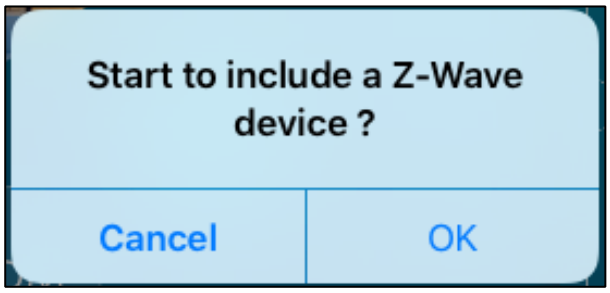


Figure 58 : Start the Z-Wave device inclusion process

4. Trigger the Z-Wave device into its inclusion mode

Trigger the Z-Wave device into its inclusion mode. The camera will beep one time to indicate that the camera triggered into its inclusion mode.

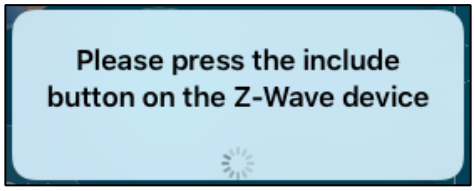


Figure 59 : Trigger the Z-Wave device into its inclusion mode

Notice: Every Z-Wave device may have different way to trigger into inclusion mode, please refer to the user manual of the Z-Wave device if needed. Section 3.3 and 3.4 illustrate how to trigger the 4-in-1 sensor and power plug into the inclusion mode.

5. Name the device

When the Z-Wave device has been added to the Z-Wave camera, the camera will beep again and a dialog box will pop up for you to name this new Z-Wave device.

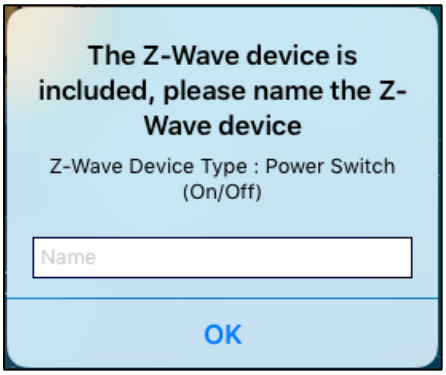


Figure 60 : Name the Z-Wave device

Once the Z-Wave device inclusion process has been done successfully, the new Z-Wave device will be shown on the device list.

Notice: If you failed to add a Z-Wave device, please do the remove a Z-Wave device procedure on this Z-Wave device first, and then try to add it again.

The inclusion failure may be due to the fact that the Z-Wave device may have been added to another controller, it needs to be removed first before to be added it to this new controller.

9.2. Remove a Z-Wave Device

1. Tap the “DEVICE” icon

Tap on the “DEVICE” icon to display all the connected Z-Wave devices.

Figure 61 : Display connected Z-Waves devices

2. Tap the “-” icon

Tap on the “-” icon located on the right upper corner of the screen to remove a device

Figure 62 : Remove a Z-Wave device

3. Start the exclusion process

A dialog box pops up to ask for your confirmation to remove the Z-Wave device. Tap **OK** button to start the inclusion.

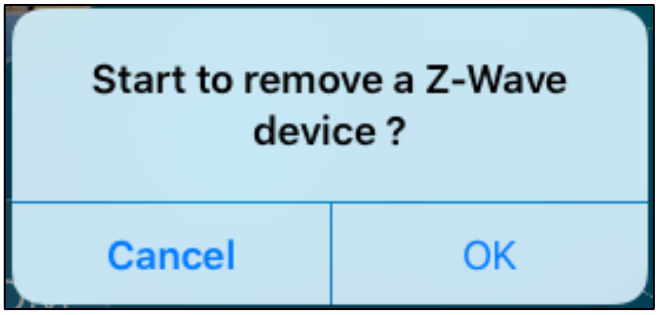


Figure 63 : Z-Wave device removal confirmation

4. Trigger the Z-Wave device into its exclusion mode

Trigger the Z-Wave device into its inclusion mode. The camera will beep one time to indicate that the camera triggered into its inclusion mode.

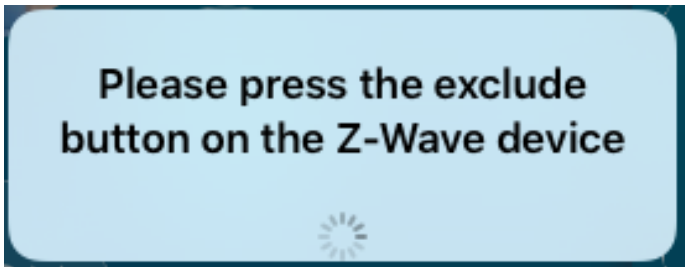


Figure 64 : Z-Wave device removal confirmation

Notice: Every Z-Wave device may have different way to trigger into exclusion mode, please refer to the user manual of the Z-Wave device if needed. Section 3.3 and 3.4 illustrate how to trigger the 4-in-1 sensor and power plug into the inclusion mode.

Once the Z-Wave device is excluded, it will be disappear from the connected Z-Wave devices list on the right on the screen.

9.3. How to Include/Exclude/Reset a 4-in-1 Sensor

1. Include/Exclude the Z-Wave device

Press the tamper key three times within 1.5 seconds to trigger this device into inclusion/exclusion mode.

2. Reset the Z-Wave device

Press the tamper key 4 times within 1.5 seconds, keep the 4th time pressed until the red LED light is on then off, wait two seconds and then release the tamper key. This will reset the Z-Wave device.

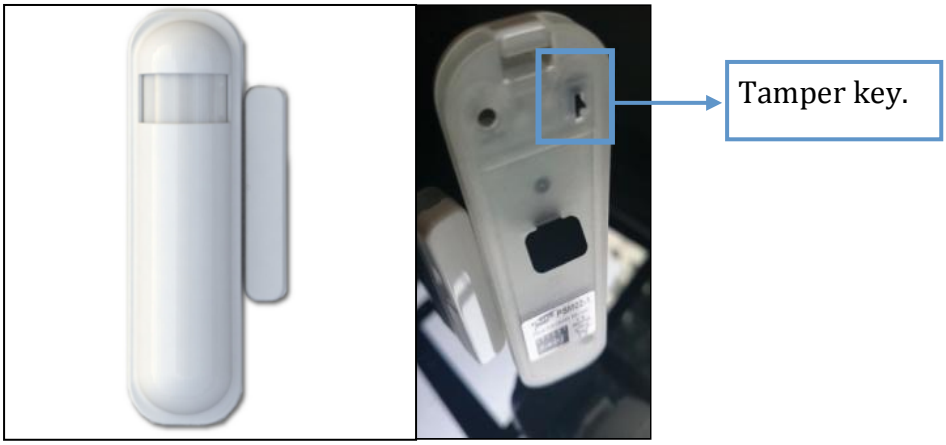


Figure 65 : Z-Wave 4-in-1 Sensor

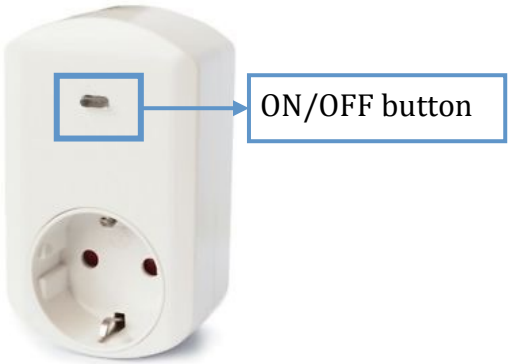


Figure 66 : Z-Wave Power Plug

9.4. How to Include/Exclude/Reset a Power Plug

1. Include/Exclude the Z-Wave device

Include/Exclude: Press the ON/OFF button three times within 2 seconds to trigger this device into inclusion/exclusion mode.

2. Reset the Z-Wave device

Reset: Press the ON/OFF button 4 times within 2 seconds, keep the 4th time pressed for 5 seconds. This will reset this Z-Wave device.

9.5. Set Alarm(Push)Notifications

mCamViewZ+ allows you to define under which condition you should be notified on your device. For each Z-Wave sensor devices added to your Home you can specify for which values they will send you a push notification.

Access to the alarm configuration screen

Tap on the DEVICE icon on the left part of the App to display the Z-Wave devices added to your Home. Tap the arrow next to the device you want to configure.

Figure 67 : Display the connected Z-Wave device in your Home

Figure 68 : Tap the arrow next to the device you want to configure

Alarm configuration screen layout

The alarm configuration screen displays all the triggerable sensors of the Z-Wave device.

This screen allows you to rename the Z-Wave device, change the unit of the sensors values and either enable or disable the alarm associated to the sensors.

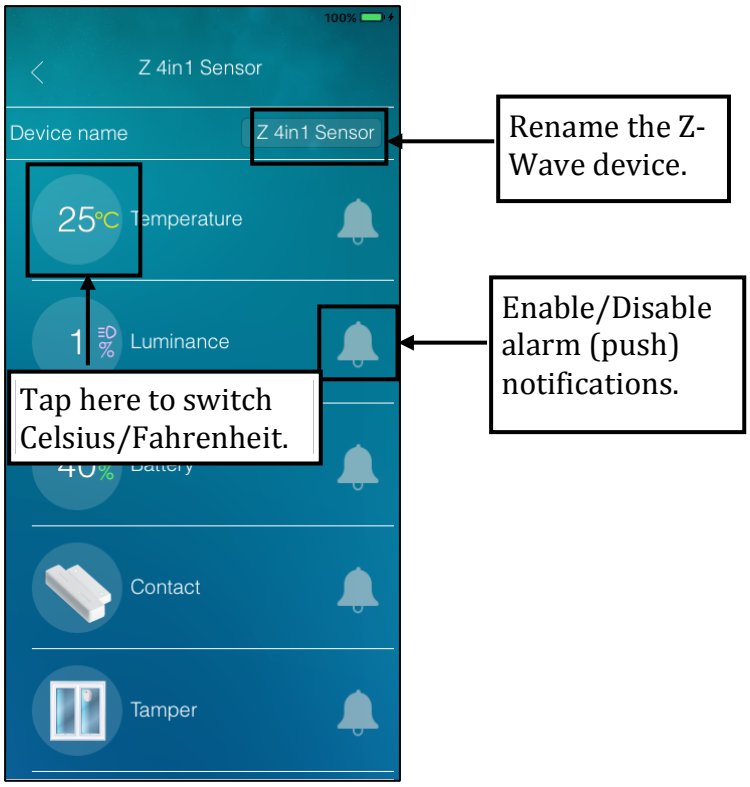


Figure 69 : Alarm configuration screen layout

Enable the temperature alarm

Tap () to enable/disable alarm (push) notifications.
Set **higher/lower bound** for the trigger value.
Once the event is triggered, alarm (push) notifications will be sent to your tablet.

Figure 70 : Temperature trigger value

10. Room Management

Rooms in mCamViewZ+

In each home, you can create up to 10 rooms. In each room, you can add up to 20 Z-Wave devices. If there are any temperature, humidity or luminosity sensors inside a room, you could monitor the room's activity and create scenes based on the information from those sensors.

You can turn on/off all the switches inside a room immediately by a simple tap. You can assign to each room a separate camera (included in the camera list), this way when you will switch to a different room in the live view mode, the assigned camera will be displayed.

10.1. Add a new Room

1. Tap **ROOM** button

Tap the ROOM icon to display on the right part of the screen all the Rooms in your Home.

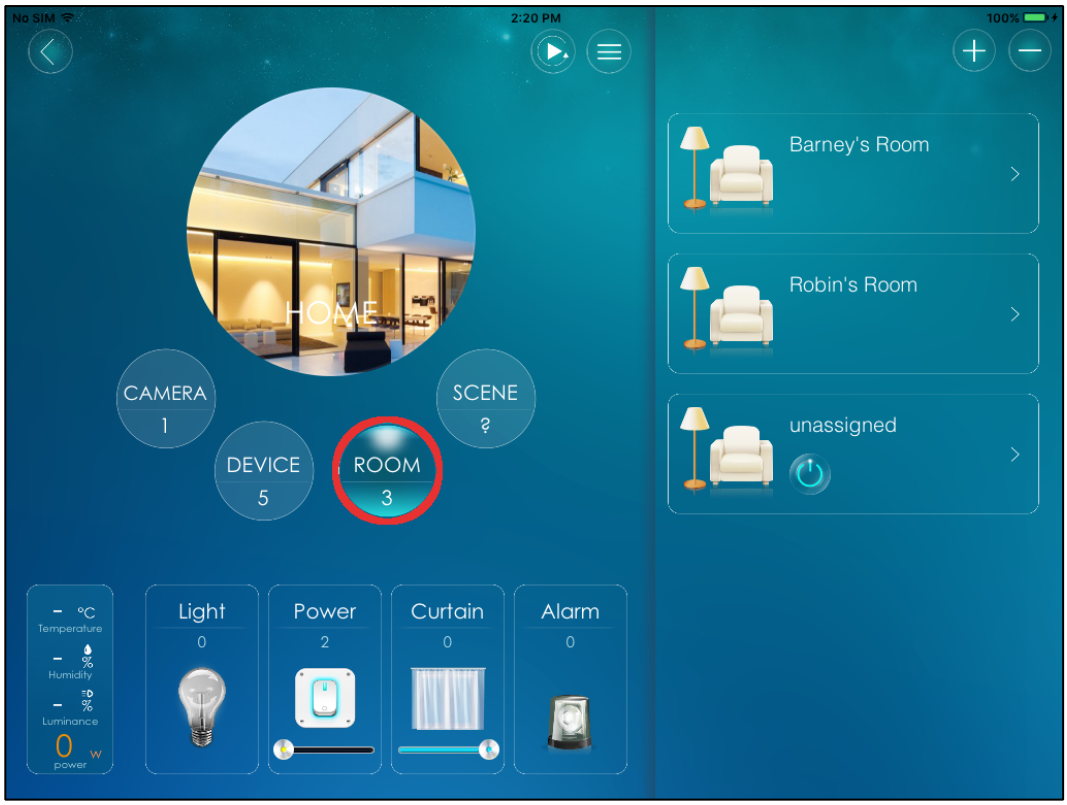


Figure 71 : Tap on the Room icon to display the Rooms in your Home

2. Tap on the “+” icon

Tap “+” on the right upper corner of the App to start adding a new Room.

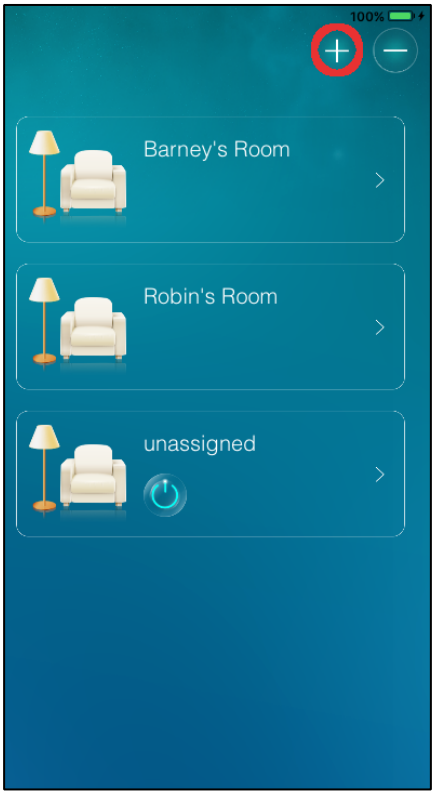


Figure 72 : Tap "+" to start adding a new Room

3. Name the new Room

The dialog box will pop up and you will be asked to input the new Room’s name.

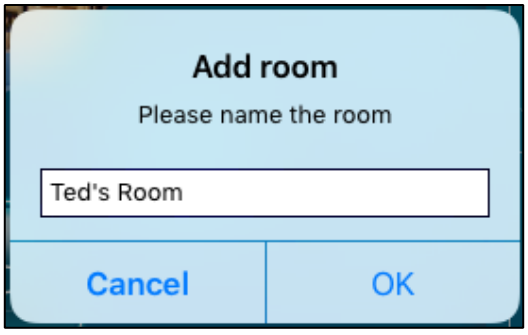


Figure 73 : Input the new Room's name

4. Room added to the Rooms list

The new Room has now been added to your Room list.

10.2. Add Z-Wave Devices to a Room

Once you have added Rooms in your Home, you may want to add Z-Waves devices into them.

1. Tap **ROOM** button

Tap the ROOM icon to display on the right part of the screen all the Rooms in your Home. Tap the arrow next to the Room you want to add Z-Wave devices to.

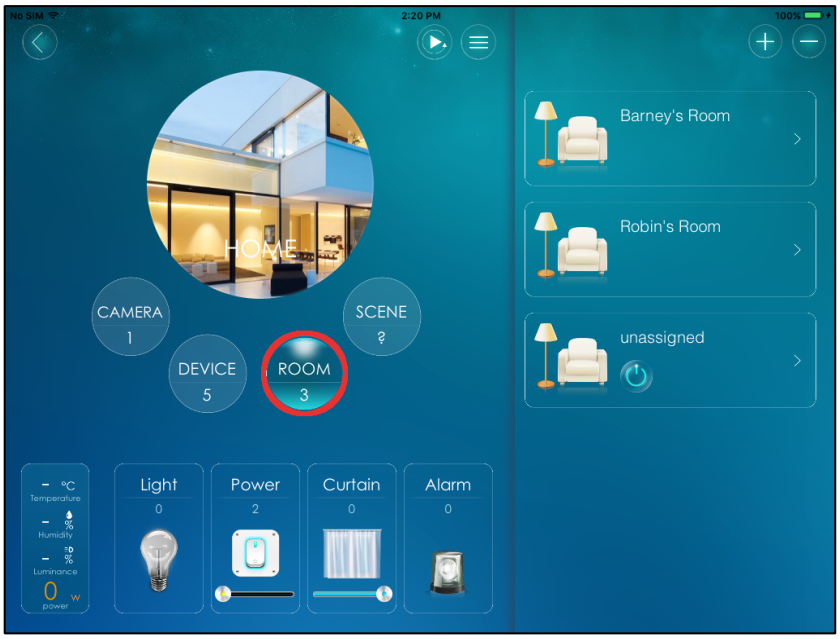


Figure 74 : Tap on the "ROOM" icon to display the rooms added to your Home

Figure 75 : Tap on the arrow next to the Room you want to add devices to

2. Room configuration screen layout

mCamViewZ+ allows you to define which Z-Wave sensors should be used to sense the room's temperature, humidity or luminance. The App also enable you to add new Z-Wave device.

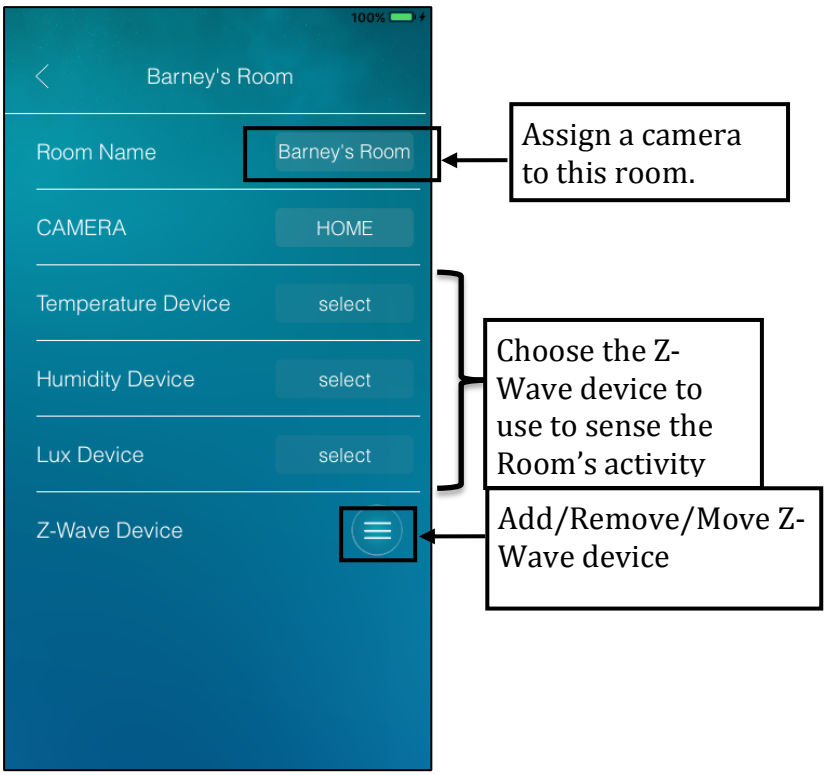


Figure 76 : Room configuration screen layout

3. Add a Z-Wave device to the Room

Tap  to add/remove/move Z-Wave devices and select "Add Z-Wave devices".

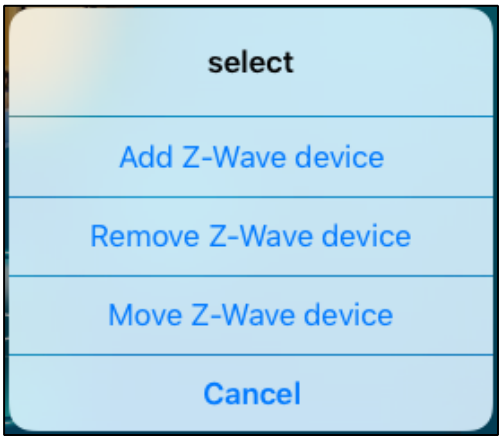


Figure 77 : Add/Remove/Move Z-Wave device

4. Select the type of Z-Wave device

A dialog box will pop up asking what type of Z-Wave device you want to add to the Room. Check the kind of device you want to add and press “OK”.

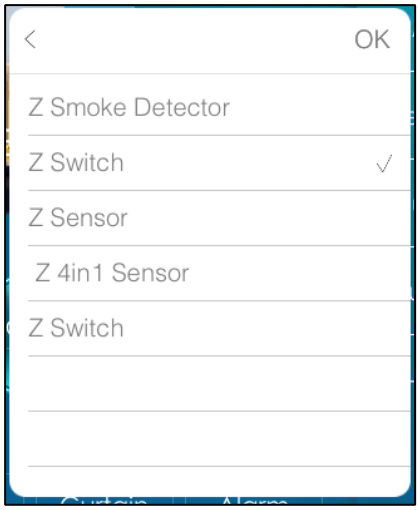


Figure 78 : Select the type of the device you want to add to the Room

5. Device has been added to the Room

After tapping “OK”, the Z-Wave device has now been added to the Room.

10.3. Delete a Room

1. Tap **ROOM** button

Tap on the ROOM icon to display on the right part of the screen all the Rooms in your Home, then tap on the “-“ icon to start deleting a room.

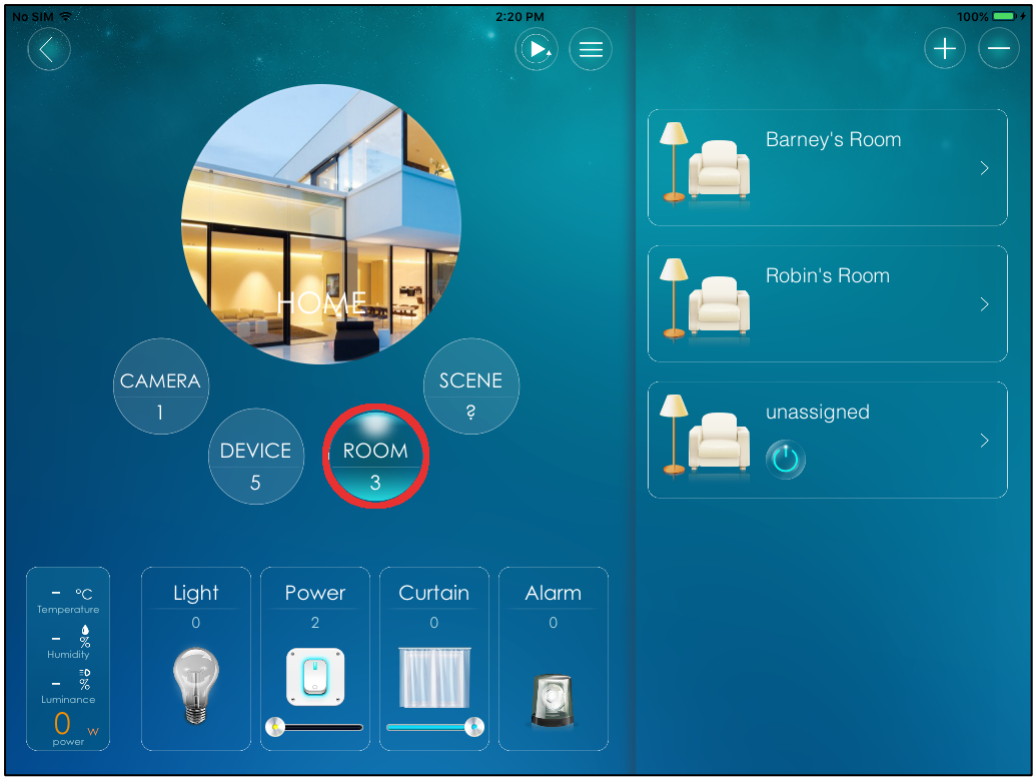


Figure 79 : Tap "Room" to display the Rooms in your Home

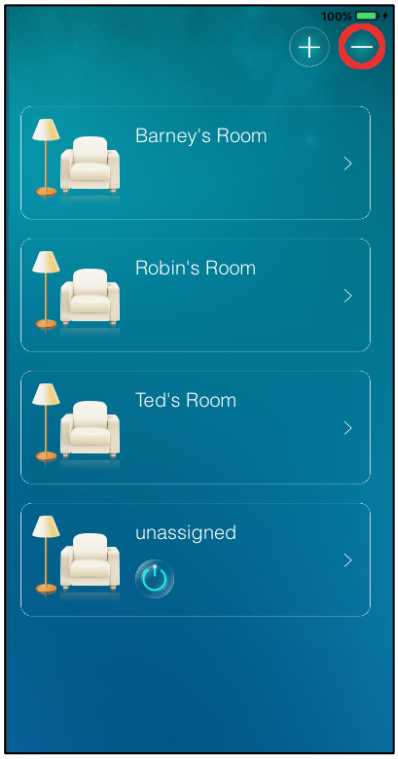


Figure 80 : Tap on the "-" icon to start deleting rooms

2. Delete the room

Press the ⊖ button to select the room to delete. Tap on the “Delete” button to proceed the room removal.

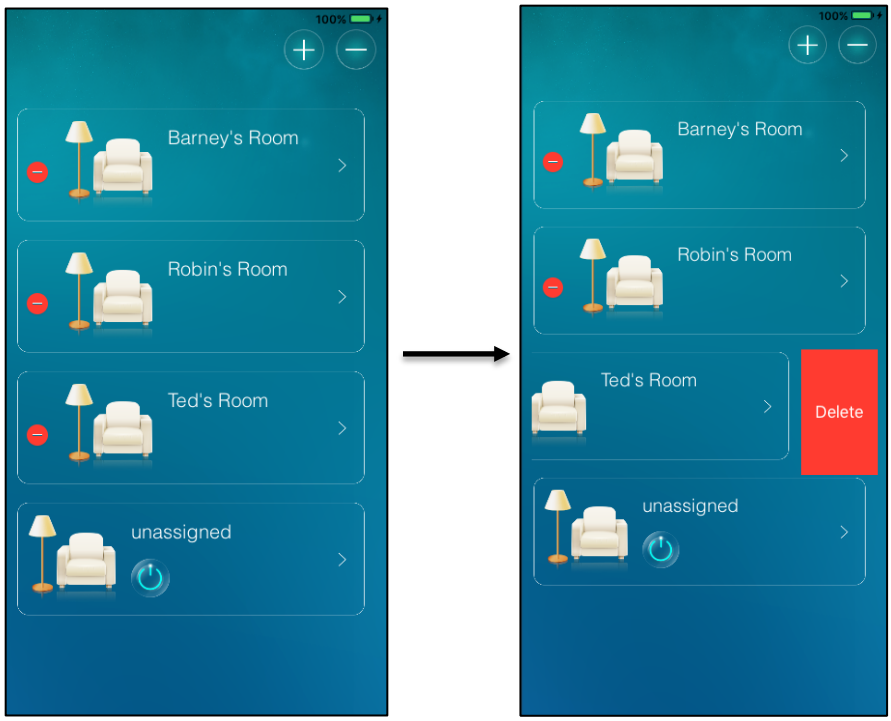


Figure 81 : Select and delete rooms

3. Confirm the room removal

A window will pop up to ask for your confirmation to delete the room, press “OK” to proceed the room removal.

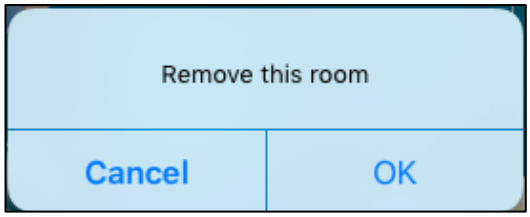


Figure 82 : Press "OK" to proceed the room removal

Notice: “unassigned” rooms cannot be deleted.

11. Scene Management

Each home can create up to 20 scenes, and each scene consists of IF/THEN/WHEN elements.
"**IF**" is the condition that will trigger the scene, up to 6 variables are allowed in each scene, these variables could be "**and/or**" operated. The "IF" conditions could be set according to the status of the Z-Wave devices, room conditions or Z-Wave camera status.

"**THEN**" is the action of the scene, up to 6 actions are allowed in each scene. The "THEN" actions can be the actions of the Z-Wave devices, room actions or Z-Wave camera actions.

"**WHEN**" allows the scene condition to be checked always, every day, every week or during some time period. It defines when the scene is active.

11.1. Add a new Scene

1. Tap **SCENE** icon

Tap on the "SCENE" icon to display on the right part of the screen the scenes created in your Home.

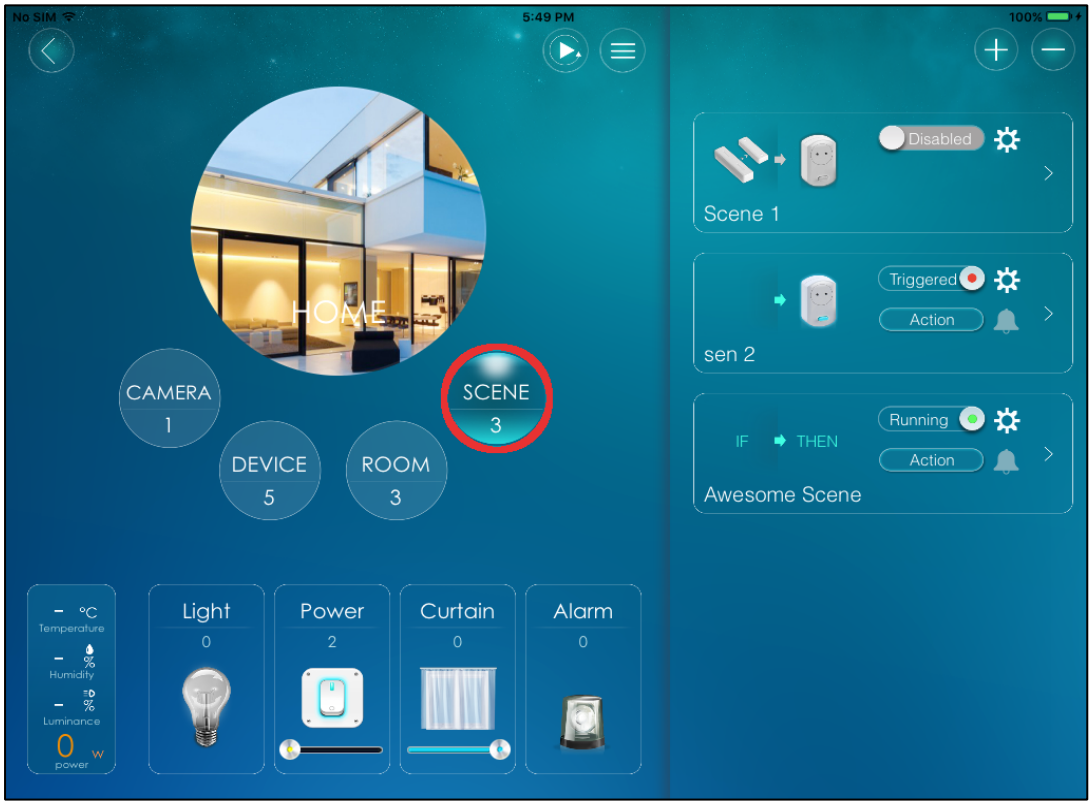


Figure 83 : Tap the "SCENE" icon to display the scenes in your Home

2. Tap ⊕ to add a scene

Tap ⊕ to add a scene to your Home

Figure 84 : Tap the « + » icon to create a new scene

3. Name your new scene.

A window will pop up and you will be asked to input the name of the scene.

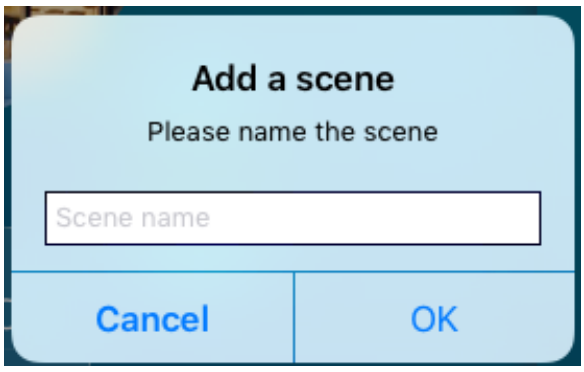


Figure 85 : Name the scene

4. The scene has been added

The scene has now being added to the Scene list on the right part of the screen.

11.2. Scene Interface

The scene interface allows you to manage your scenes. All the scenes you have created and configured are listed on this screen.

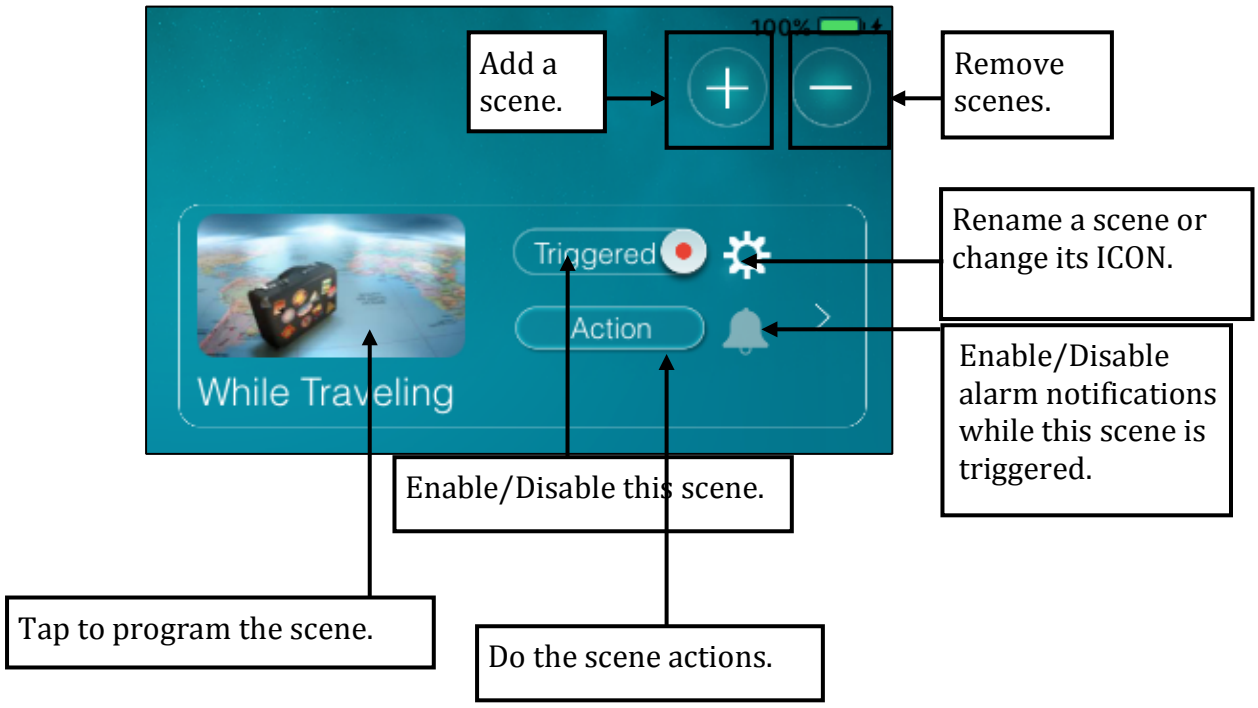


Figure 86 : Scene interface layout

11.3. Program the Scene

A scene is an easy program that you can easily design and run involving your Z-Wave devices. You can get your Z-Waves devices to work together, open/close your curtains, get yourself notified in just few tap.
Let's illustrate how to create a scene by two examples.

11.3.1. Example 1: The scene – Go to work

In this first scene scenario, the camera will start SD card recording and send an email notification if the window sensor **or** camera's motion detector is triggered. The working period of this scene is from Monday to Friday from 8:00 to 19:00:

In order to design and program a scene, tap on the scene icon and complete the following steps:

1. Select the window intruder detector

Tap **IF** -> select **Device** -> select **window intruder** -> set trigger condition **open**

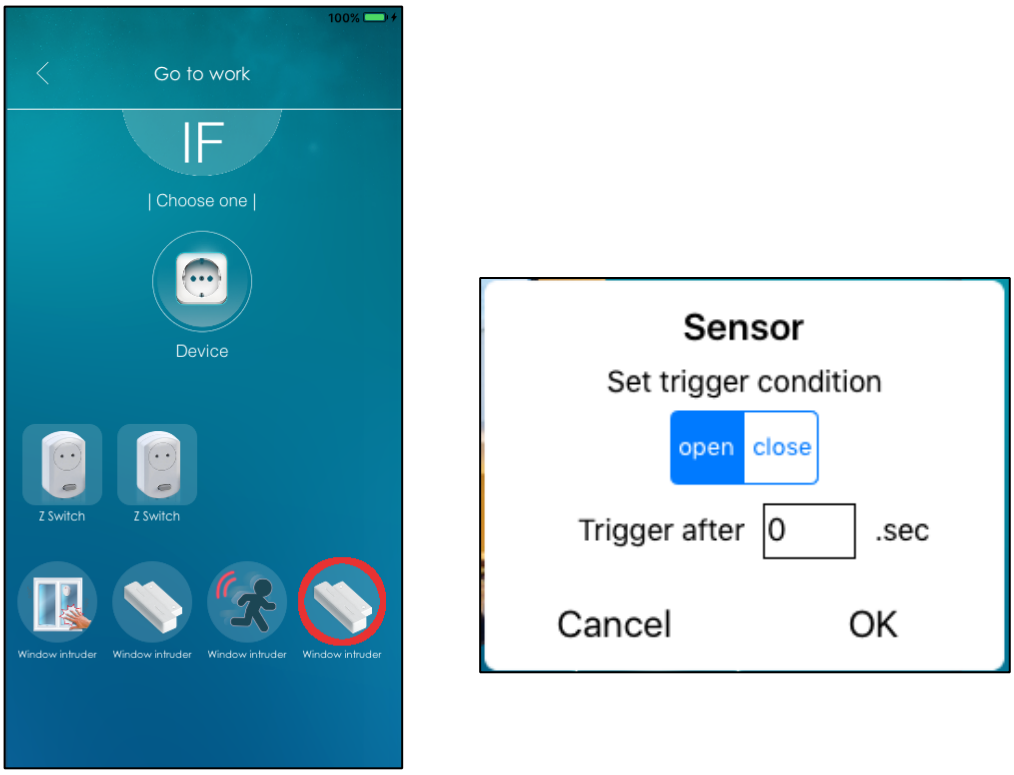


Figure 87 : Select the window intruder sensor

2. Select the motion detector from the camera

Tap **IF** -> select **Camera** -> select **Motion** detector -> Tap “OK” to select the motion detector

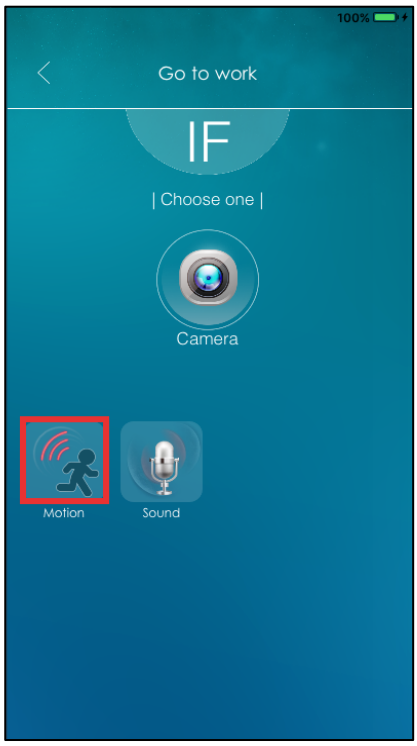


Figure 88 : Select the motion detector of the camera

Notice: If you want to change the settings of the motion detector, tap on “Change settings” on the dialog box.

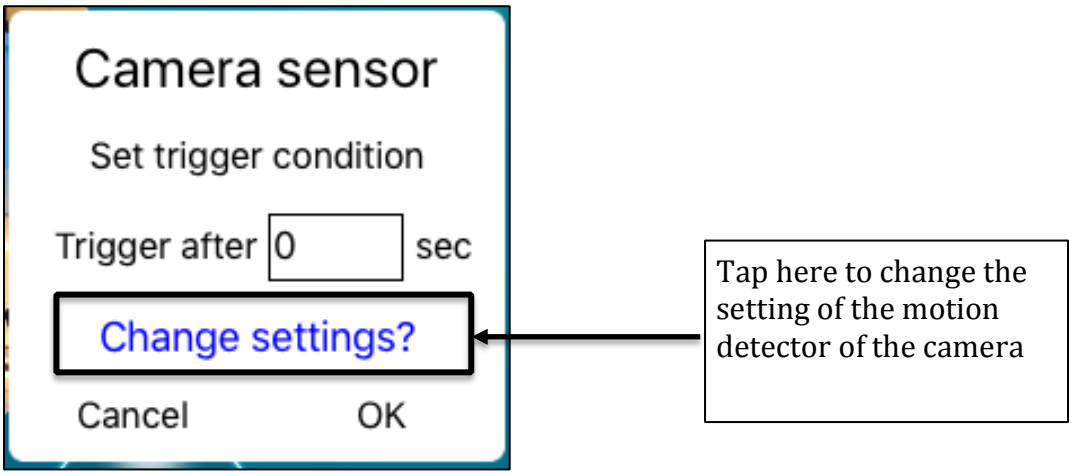


Figure 89 : Select camera sensor confirmation and motion detector configuration

3. Switch condition to **or**

Make sure the condition between the two variables is “or” and not “and”. If that’s not the case, tap on “and” to switch to “or”.

4. Select SD Card recording

Tap **THEN** ->select **Camera** ->select **SD Card**

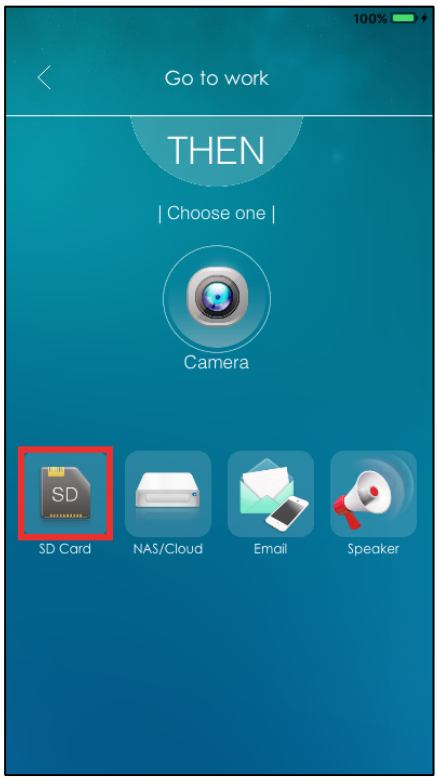


Figure 90 : Select the SD card recording

5. Select email notification

Tap **THEN** ->select **Camera** ->select **Email.**
Then tap **Email** icon to set the **Recipients.**

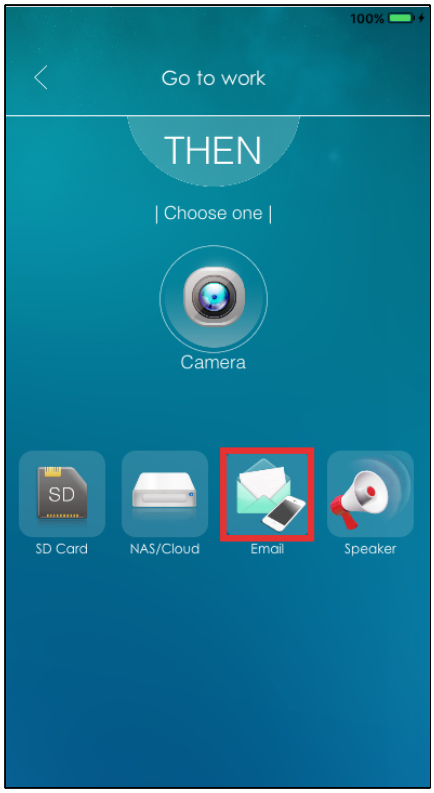


Figure 91 : Select the email notification

6. Define the working period of the scene

Tap **WHEN** -> select **Every week** -> set **Start** time **8:00**, **End** time **19:00** -> select **Monday to Friday**

Figure 92 : Select the working period of the scene

Figure 93 : Scene 1 : Go to work

11.3.2. Example 2: The scene – Cool down

In this second scene scenario, the electric fan (Power Plug) will be turned on and the curtain will be opening if the temperature exceeds **28°C**.

1. Select the temperature sensor

Tap **IF** -> select **Device** -> select 4-in-1 Sensor's **Temperature** condition( ) -> set trigger condition **> 28°C**

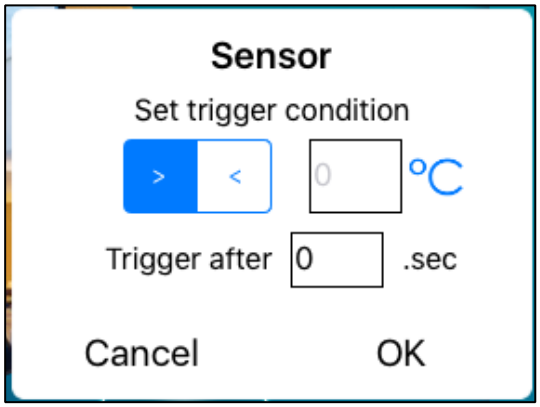


Figure 94 : Define the temperature for which the camera will trigger

2. Select the Power Plug

Tap **THEN** -> select **Device** -> select **Power Plug** -> Action: **ON**

3. Select the Curtain

Tap **THEN** -> select **Device** -> select **Curtain** -> Action: **ON**

4. Select the working period

Tap **WHEN** ->select**24/7** Always

Notice: To remove a condition/action, press the condition/action icon for few seconds.

1 : Temperature sensor

2 : Power plug

3 : Curtain

4 : Working period

Figure 95 : Scene 2 : Cool Down

12. Playback

mCamViewZ+ features the Playback function, you can play your recordings stored on the Cloud, on the 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.
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  to list the recorded videos.

Several types of Playback functions are available:
"**Local**" refers the recorded videos on your tablet.
"**SD card**" refers to the recorded videos on your cameras SD card.
"**NAS**" refers for the recorded videos on NAS devices 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 your camera events history. All your Home activity is recorded and archived in your IP Camera memory. This history is accessible in this function.

Figure 96 : Access to the Playback function

Figure 97 : List of Playback functions

12.1 Local Playback

1. Tap on the "local" icon

To view your recorded videos stored in the memory of your device, tap the "Local" icon located on the top of the Playback function list.

2. Tap on your camera folder

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

Figure 98 : 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 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 28th march 2016.

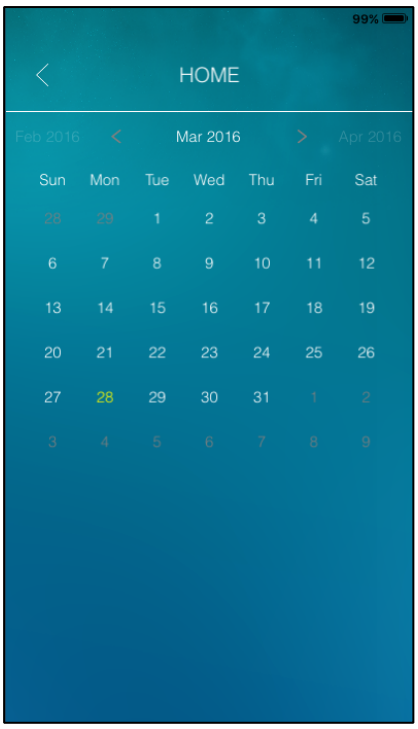


Figure 99 : Pick the date of the recording you want to view

4. Tap on the recording you want to view

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

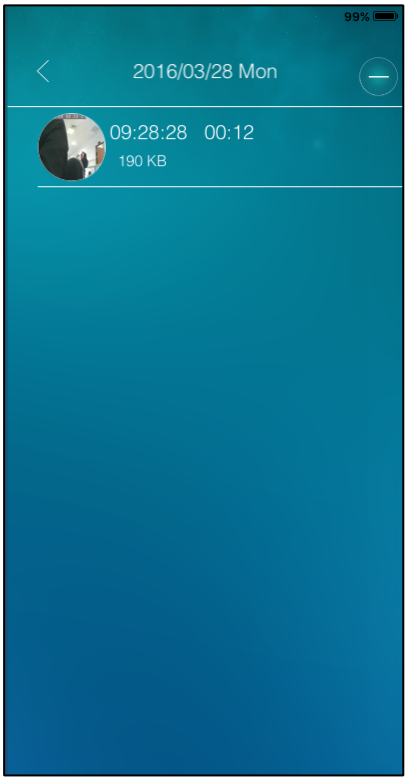


Figure 100 : List of the video recordings

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.

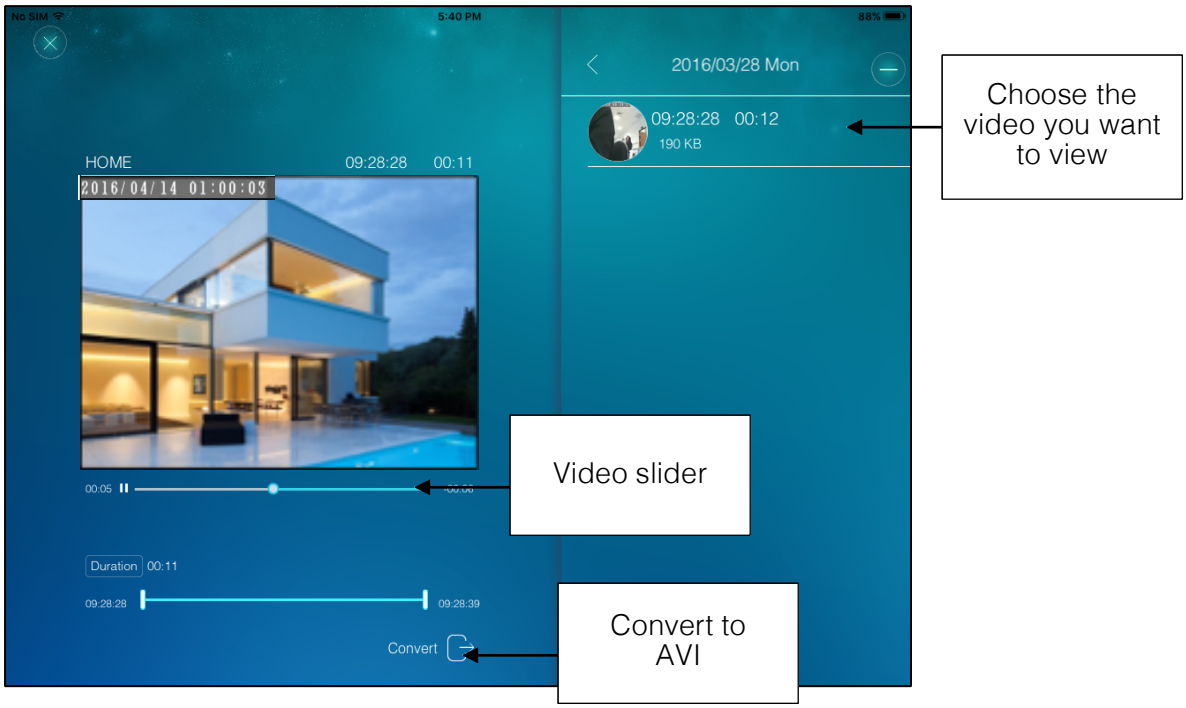


Figure 101 : Playback View

This screen allows you to Playback your recorded videos and going back and forth on the time interval of the video.

Video conversion

The bottom of the screen layout is dedicated to the video conversion.
mCamViewZ+ allows you to convert your recorded videos into AVI files.
The bar on the bottom of the screen allows you to select the video portion you want to convert into an AVI video.

12.2. SD card

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.

2. Tap on your camera folder

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

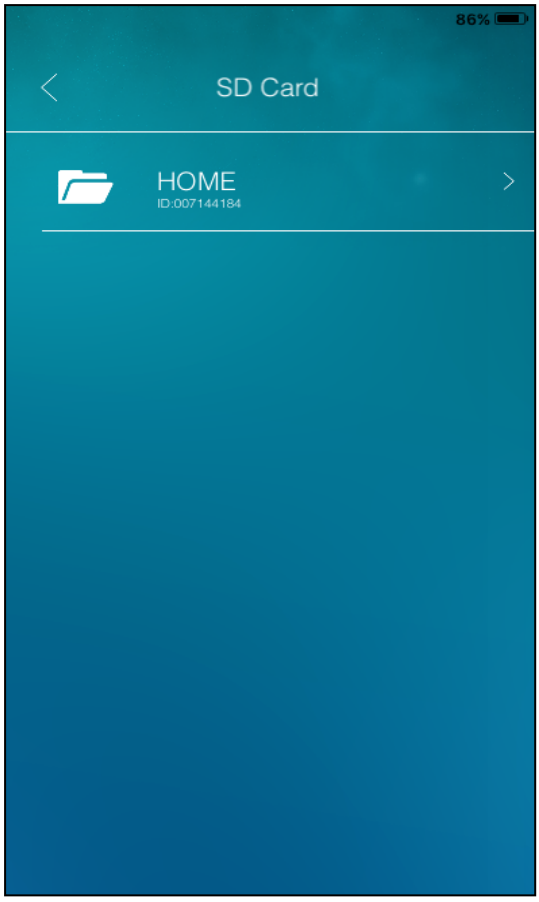


Figure 102 : Select the folder corresponding of your camera

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 recording that has been made the 28th march 2016.

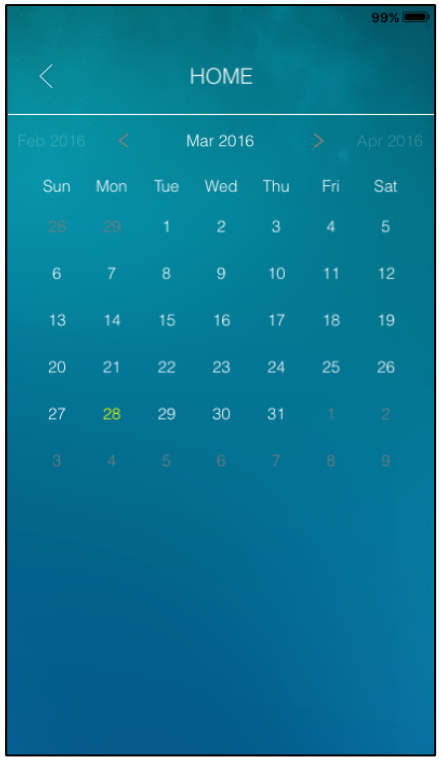


Figure 103 : Pick the date of the recordings you want to view

4. Tap on the recording you want to view

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

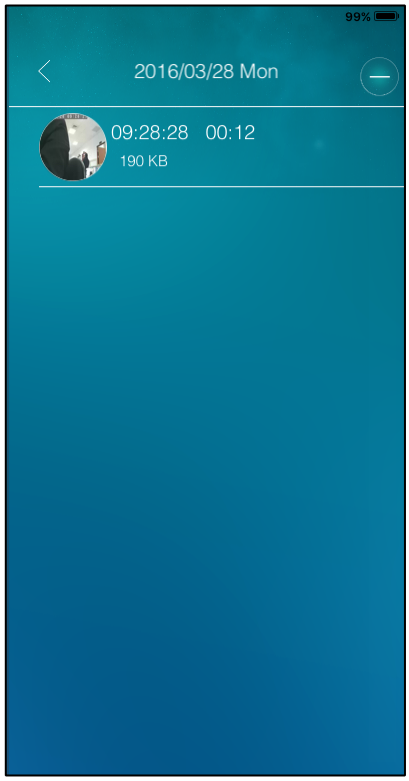


Figure 104 : List of video recordings

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

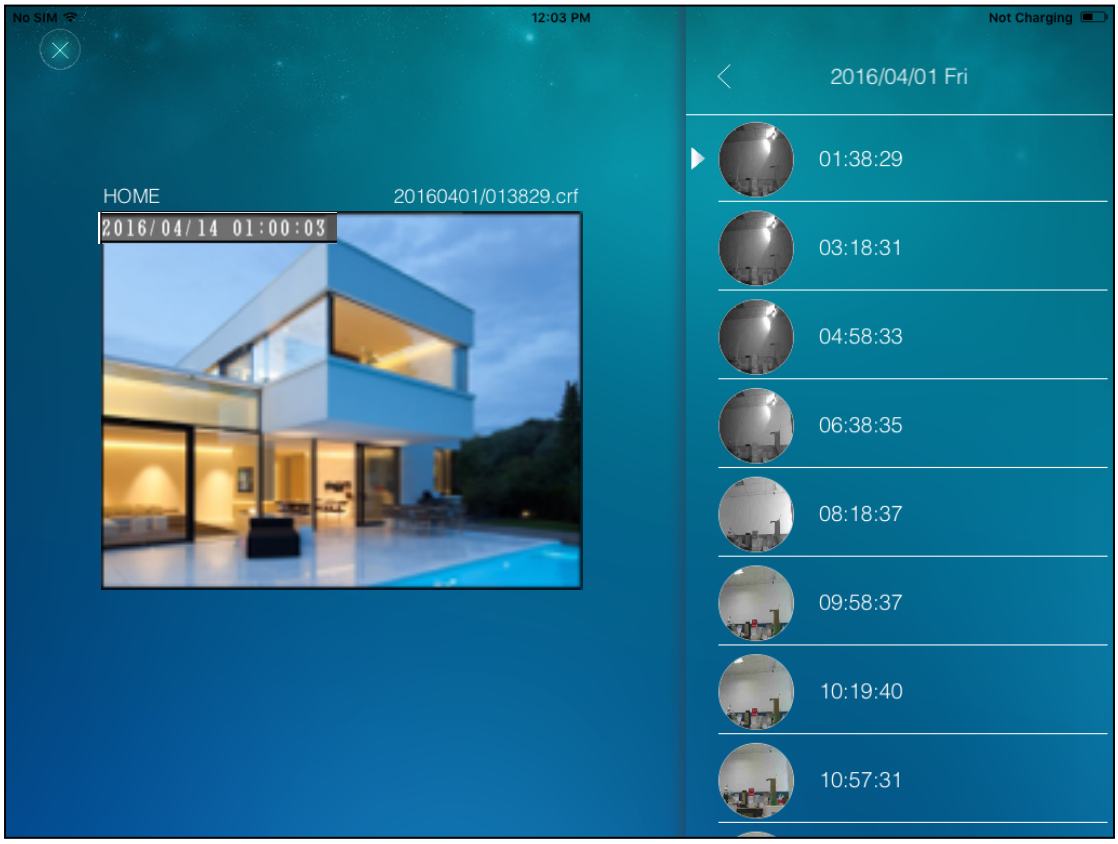


Figure 105 : Playback View

12.3. Time-Lapse recording

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.

2. Tap on your camera folder

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

Figure 106 : Select the folder corresponding to your camera

3. 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. On the screenshot below, we can see that there is at least one recording that has been made the 28th march 2016.

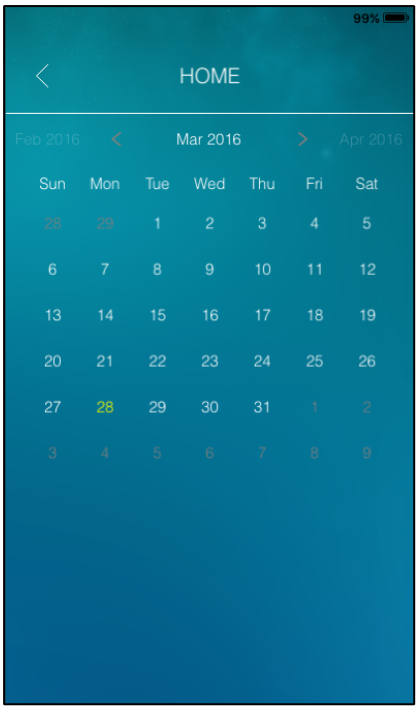


Figure 107 : Pick the date of the recording you want to view

4. 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.

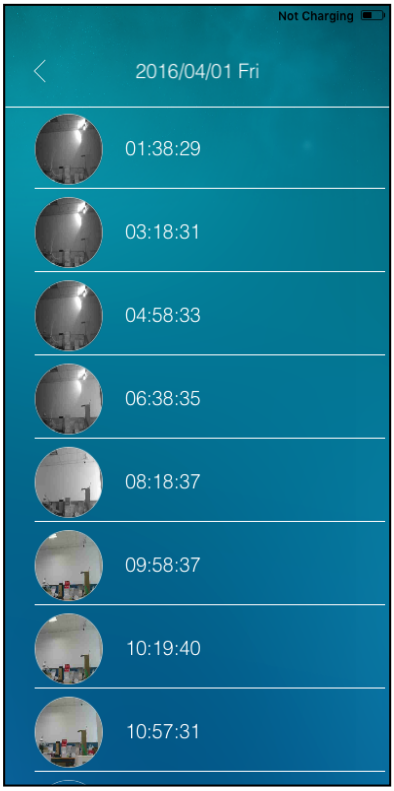


Figure 108 : List of video recordings

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.

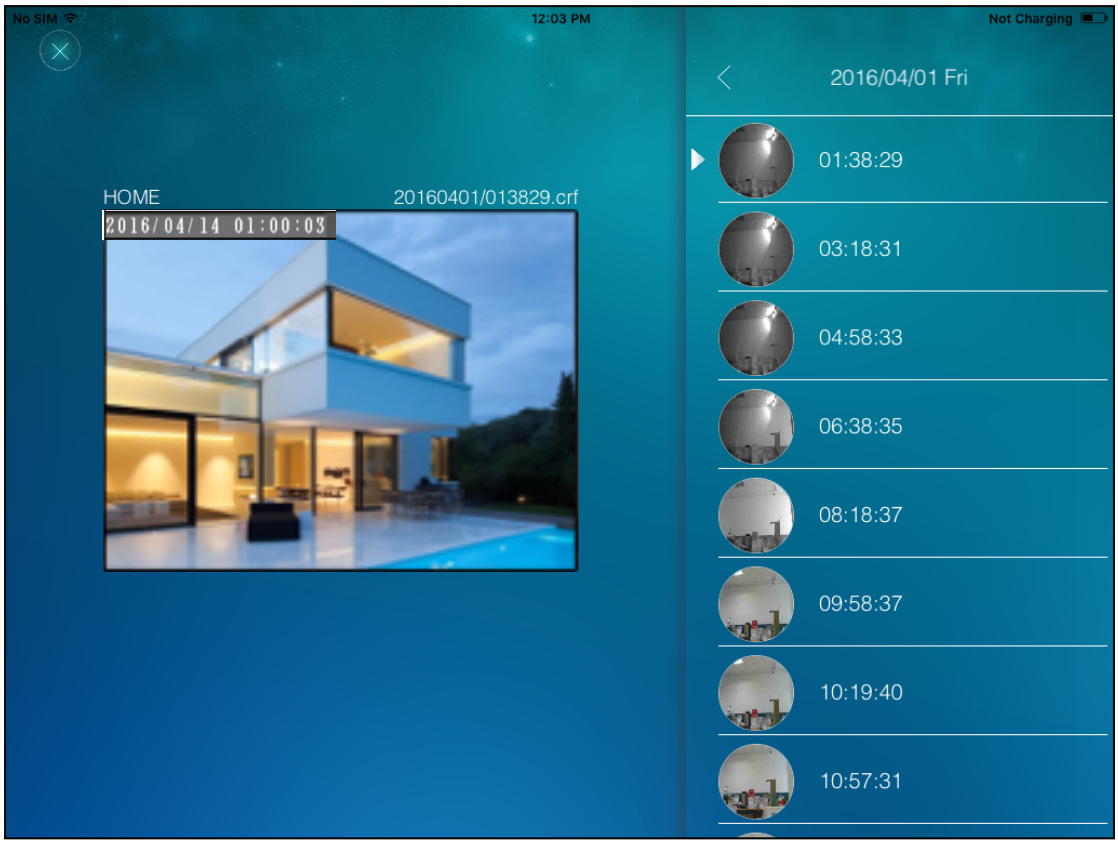


Figure 109 : Playback View

12.4. Dropbox Playback

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

12.4.1. Dropbox account configuration

12.4.1.1. 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.

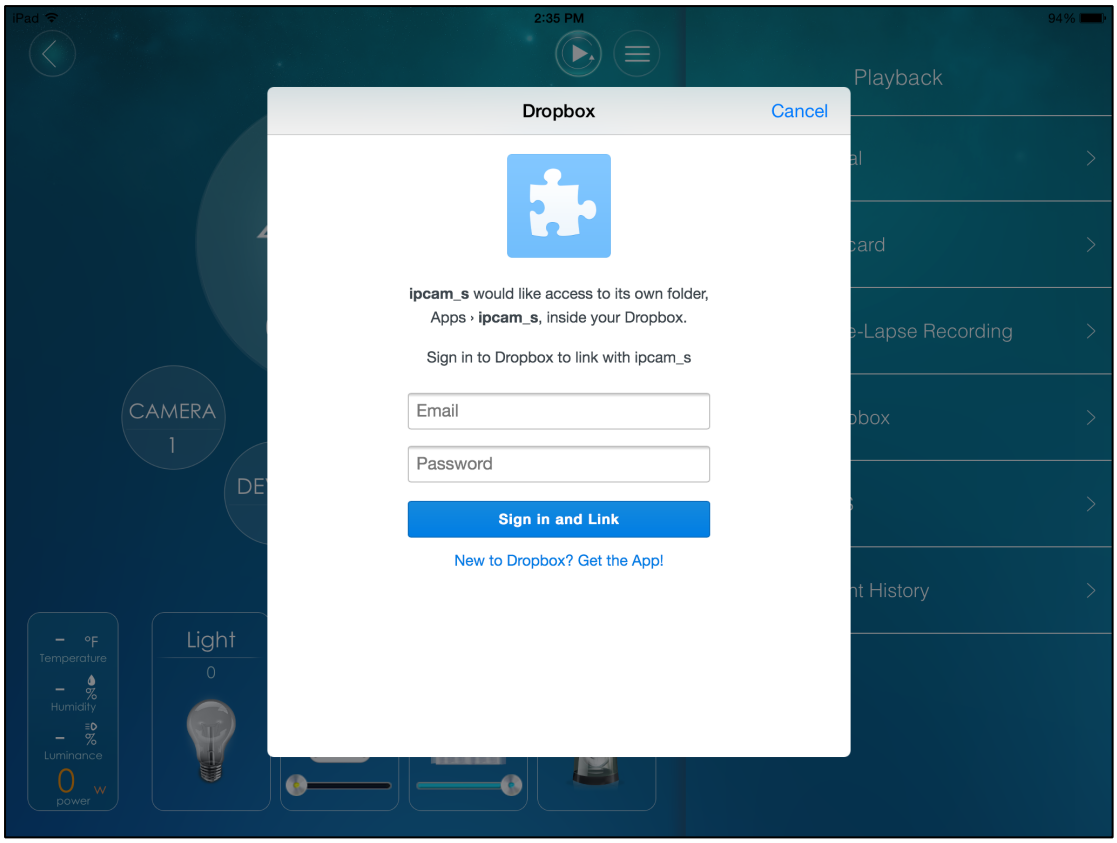


Figure 110 : Create/Log in your Dropbox account

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.

11.4.1.2. 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.

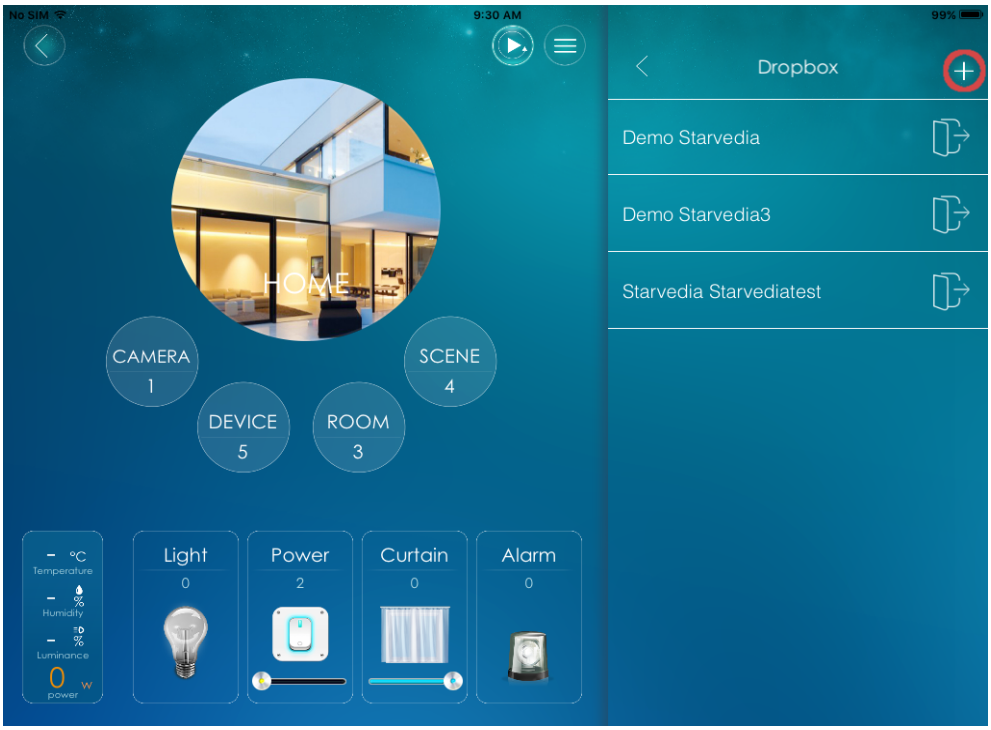


Figure 111 : Add a new Dropbox account

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.

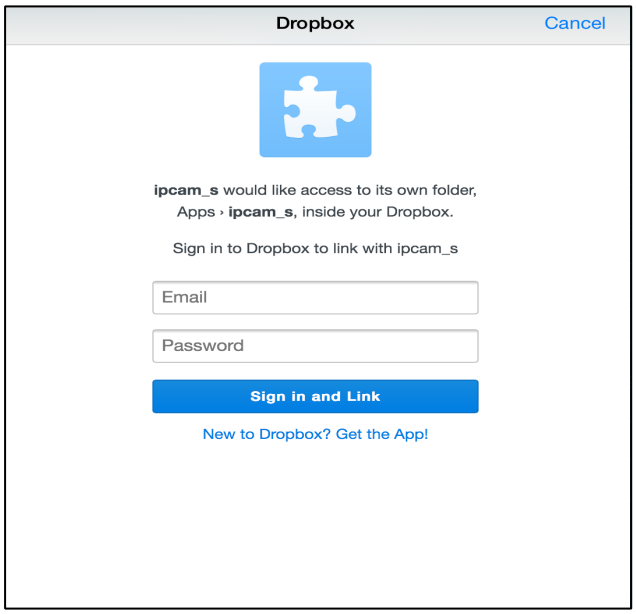


Figure 112 : Enter your Dropbox login information

12.4.1.3. Log out from a Dropbox account

1. Tap the logout icon

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

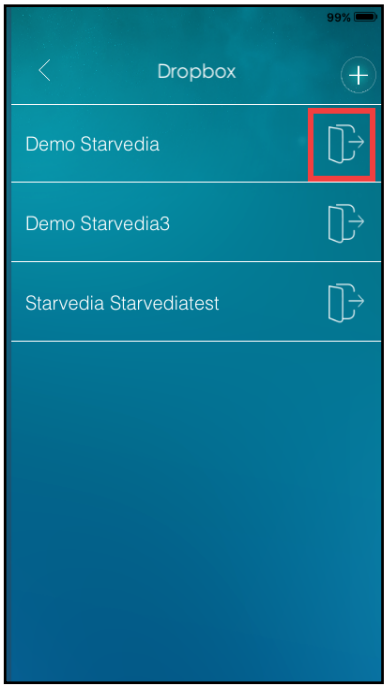


Figure 113 : Tap the logout icon

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 wish to proceed.

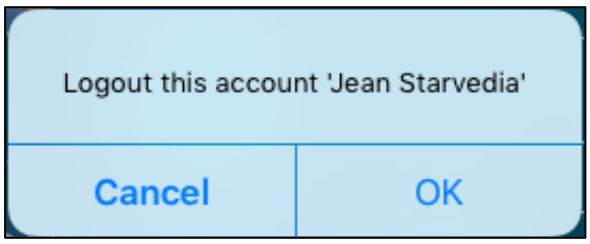


Figure 114 : Tap OK to logout

12.4.2. View your video recordings on your Dropbox accounts

1. Tap the "Dropbox" icon

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

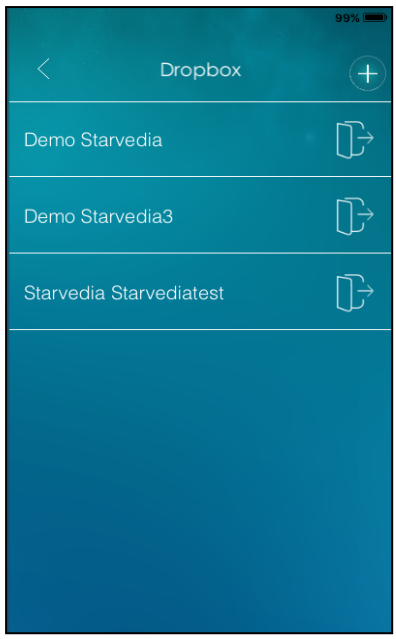


Figure 115 : Select your Dropbox account

2. Tap on your camera folder

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

Figure 116 : Select the camera you want to see video from

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 are one or several recordings that have been made the 28th march 2016.

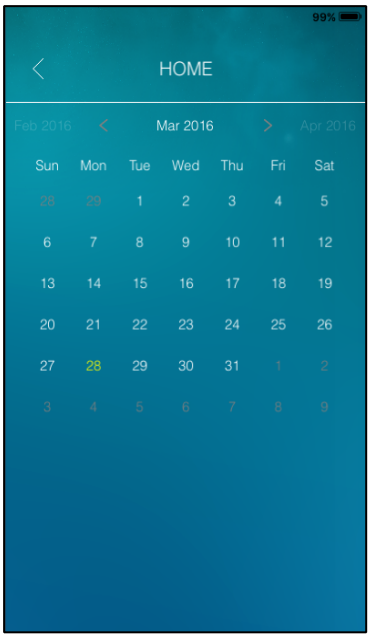


Figure 117 : Pick the date of the recording you want to view

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.

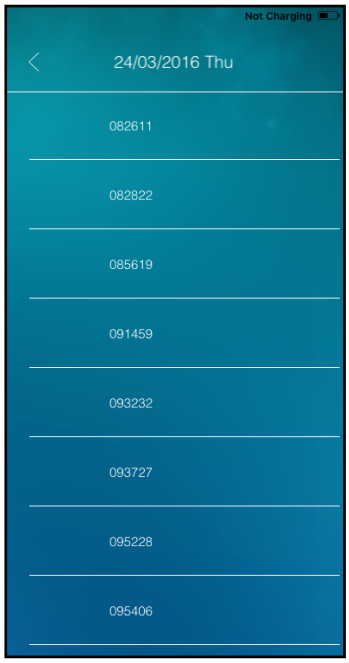


Figure 118 : List of the video recordings

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 .

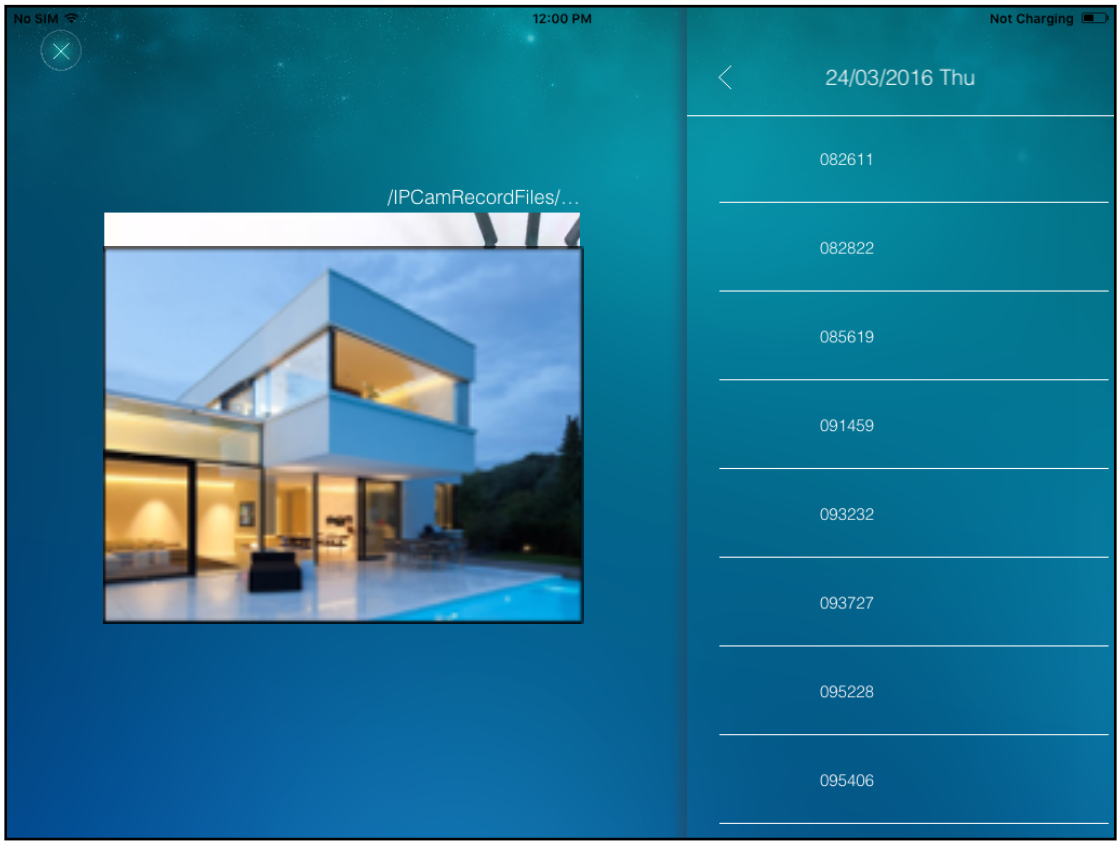


Figure 119 : Playback View

12.5. NAS

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.

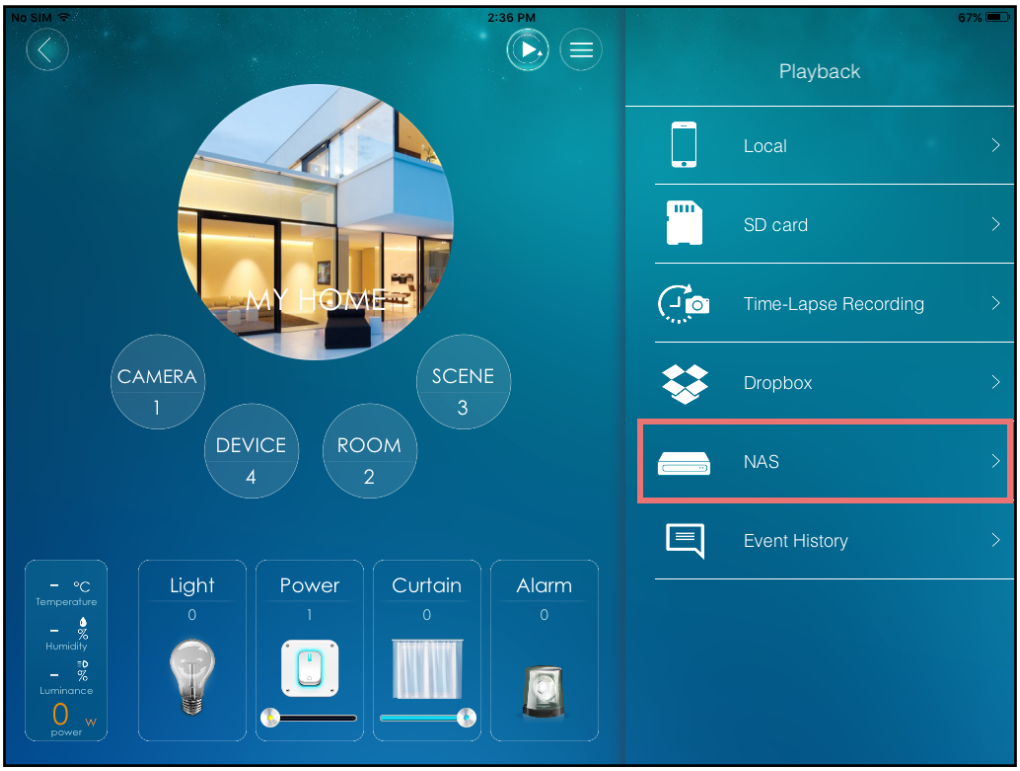


Figure 120 : Tap the NAS icon

2. Tap on your camera folder

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

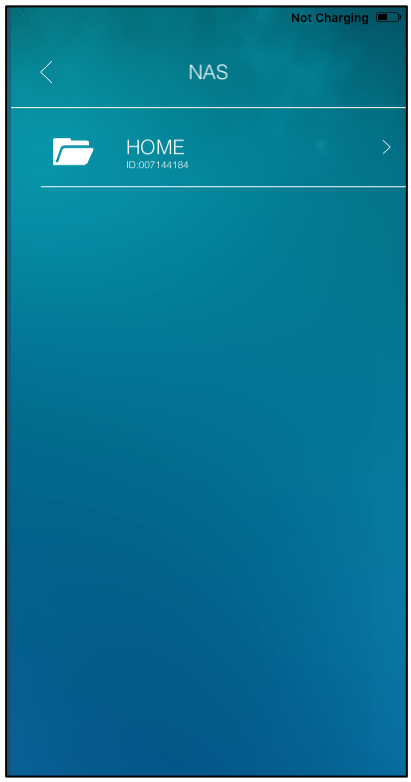


Figure 121 : Tap the camera you want to see recordings from

3. 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 28th march 2016.

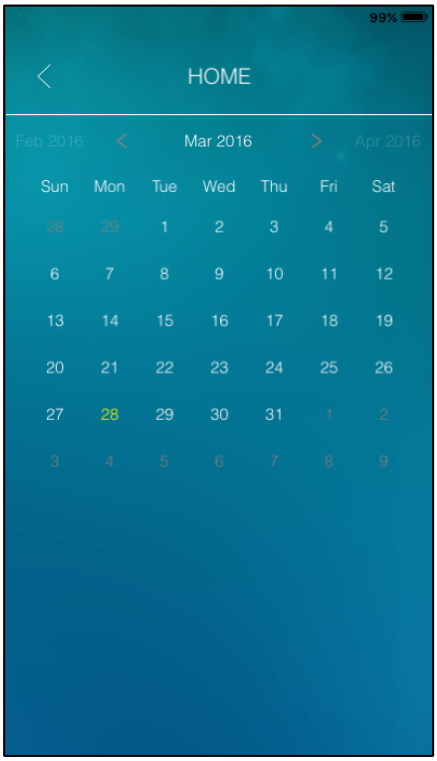


Figure 122 : Pick the date of the recording you want to view

4. 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.

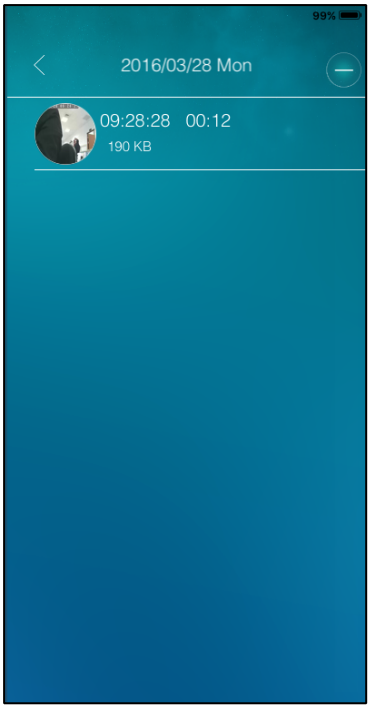


Figure 123 : List of video recordings

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.

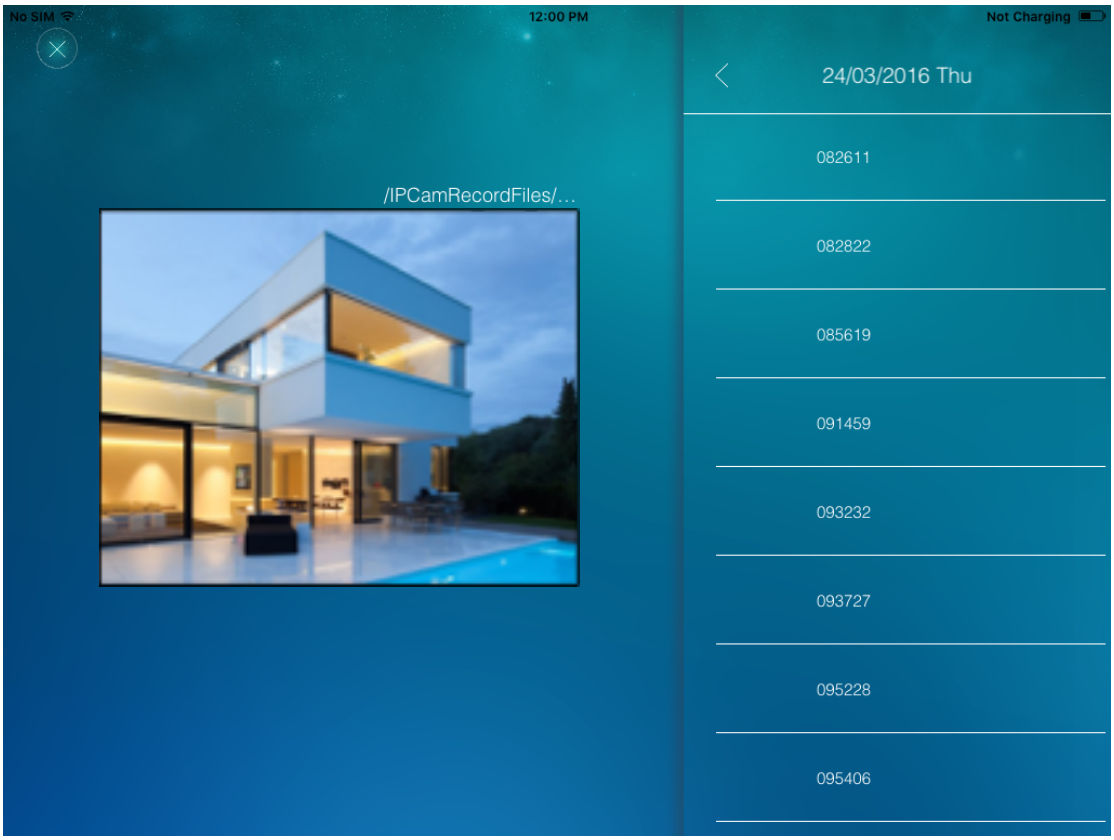


Figure 124 : Playback View

11.6. 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.

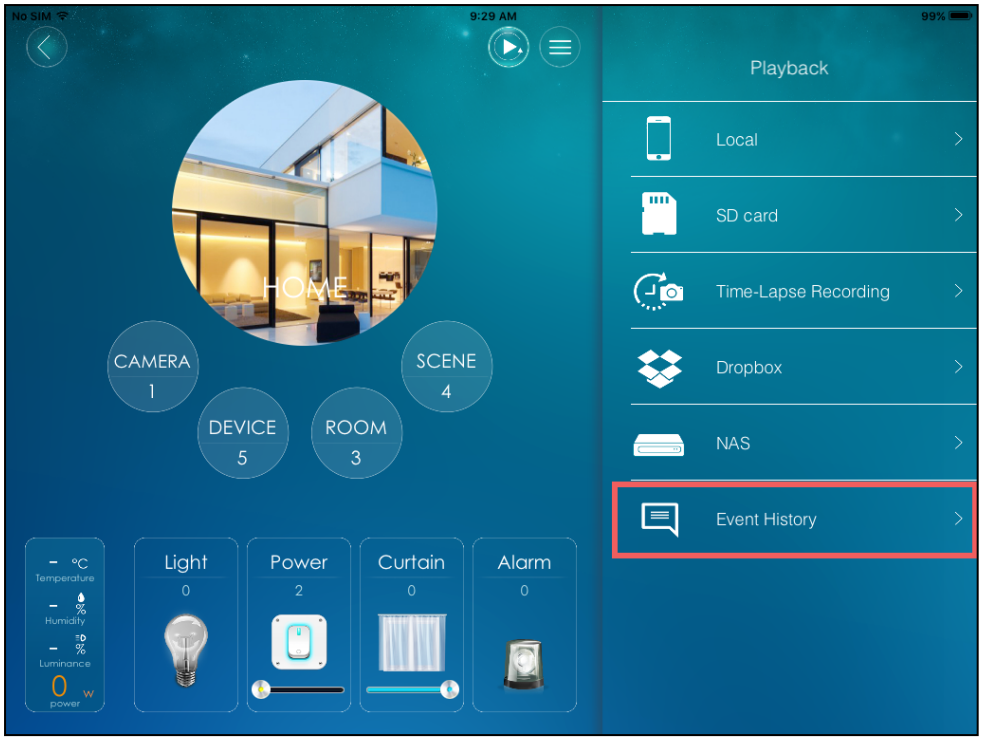
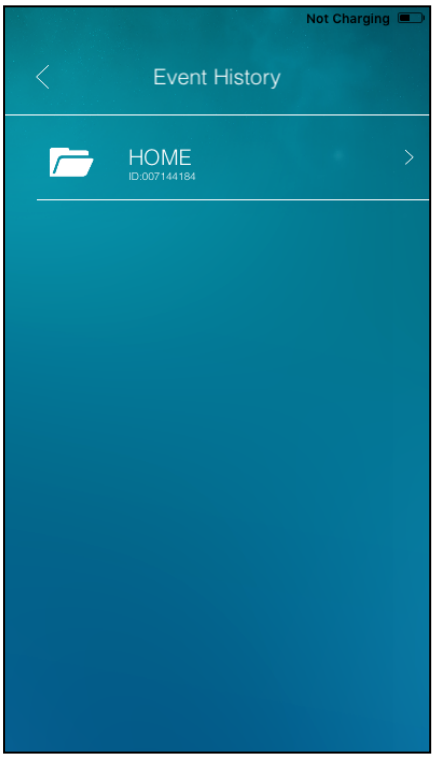


Figure 125 : Select the Event History function

2. Tap on your Home folder

Tap the Home you want to view the events history from.



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 are displayed on the screen.

Figure 124 : List of your Home events history

4. Select the events to display in the Event History list

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

Figure 125 : Access to the Event History settings

Figure 126 : Event History settings screen