

ELRO Camera surveillance

Set CZ30RIP11S



Extended manual



Feature list:

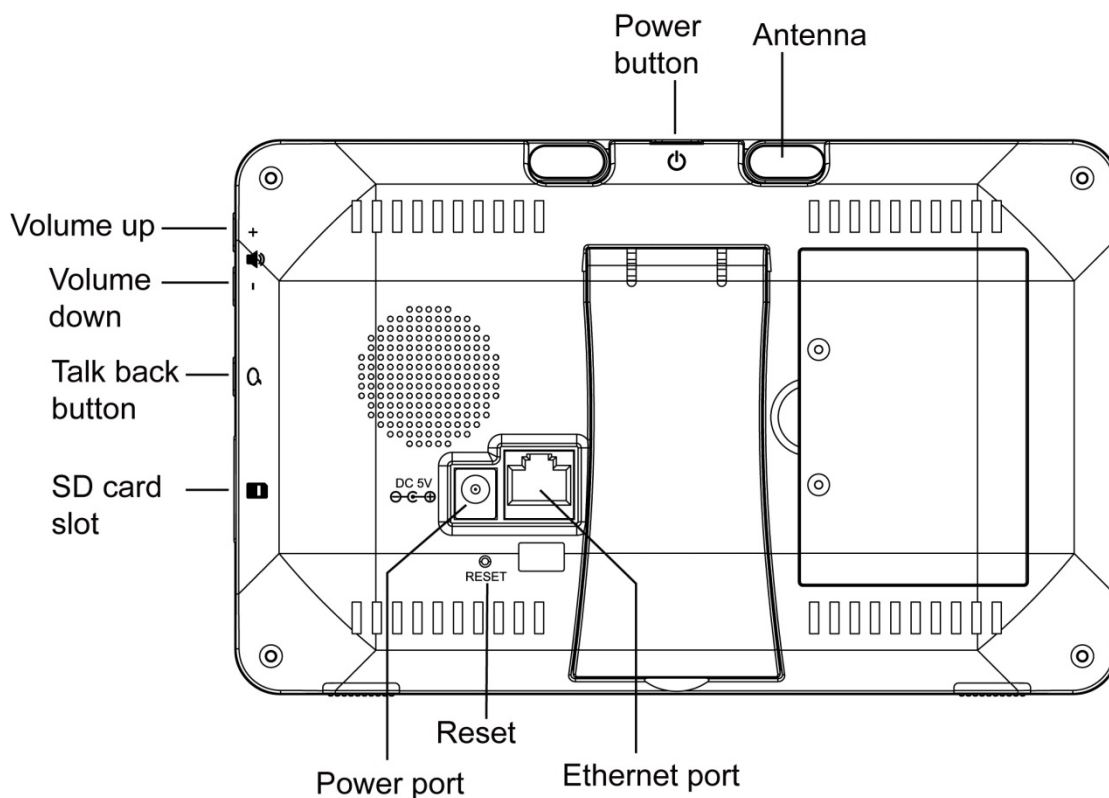
- ✧ 7" rechargeable, wireless LCD monitor
- ✧ Record up to 720p HD video with audio
- ✧ Weather resistant HD cameras featuring Infrared LEDs with range up to 45 feet for night use
- ✧ White LED light comes with manual, motion and timer activation
- ✧ Remote access with free apps for smart phone/tablet
- ✧ Programmable notification alert
- ✧ Manual, motion and scheduled recording
- ✧ 2-way audio intercom
- ✧ Expandable up to 4 cameras
- ✧ Ideal for backyard, front yard, entry door, side of house, walkway, shed, driveway, detached garage
- ✧ Lcd : 5v DC 2A Power adaptor (+/-5%)

- ✧ Camera: 9v DC 600mA (+/-5%)
- ✧ RF range: 150 meter (Line of sight)
- ✧ Quad view
- ✧ PIR trigger and Video motion detect alert

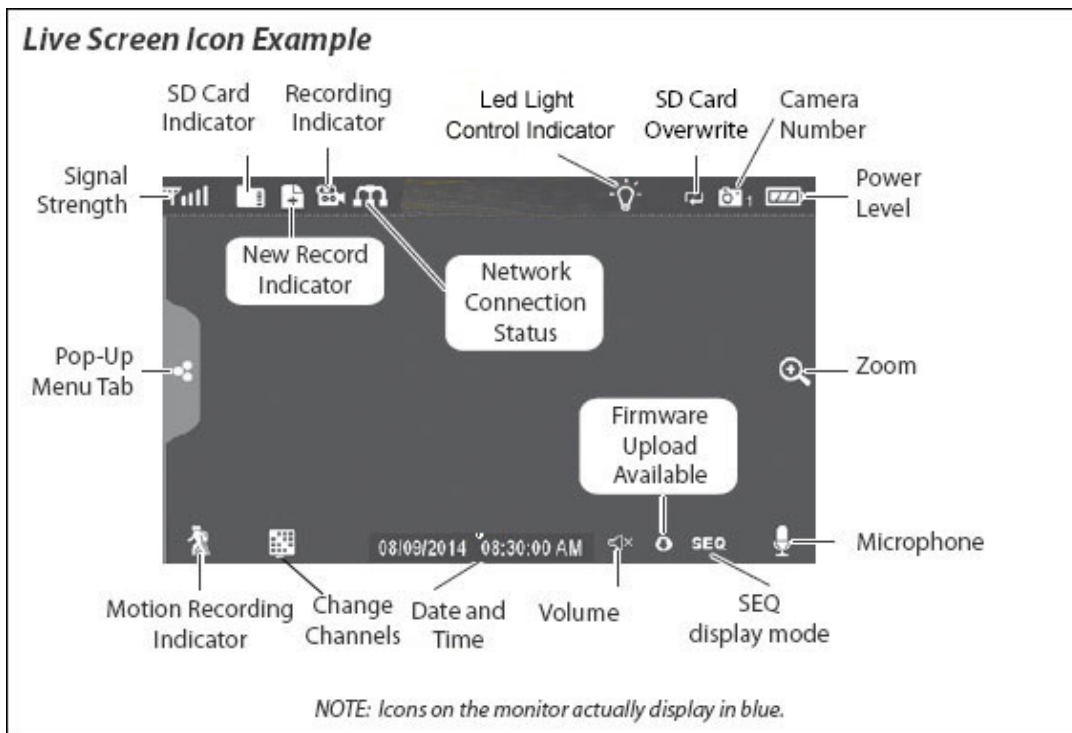
The system includes the following components:



















Monitor Overview





The Icons display on Monitor

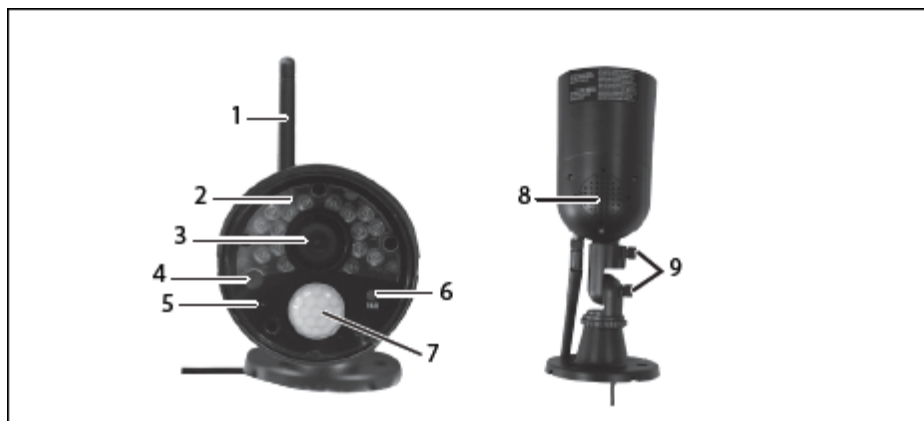


Icon	What it Means
SIGNAL INDICATOR 	Shows how strong the camera's signal is. Signal ranges from 4 bars down to 0 bars (out of range).
SD CARD 	This graphic displays if an SD card is inserted into the monitor. If blue, recording space is available. If red, the SD card is full. Tap this icon to view recorded files.
NEW RECORD INDICATOR 	New recordings are saved on the SD card.
RECORDING INDICATOR 	When this icon flashes red, it indicates that recording is in progress.
NETWORK STATUS INDICATOR 	Green- System is connected to the internet and the monitor is connected with internet mode. Yellow- System is connected to internet and the monitor is connected with intranet mode. Red- Connection has failed or system is not connected to a network.

<p>LIGHT INDICATOR</p> 	<p>This Icon is not in use for this system</p>
<p>SD CARD OVERWRITE</p> 	<p>Displays if the SD card is allowed to overwrite files when it is full.</p>
<p>CHANNEL INDICATOR</p> 	<p>Displays the current channel number you are currently viewing. If viewing multiple cameras at once, the camera indicator will appear above each video display.</p>
<p>BATTERY INDICATOR</p> 	<p>Indicates the LCD monitor's battery life: Flashing Red- Low battery Green- Full battery Flashing Green- Charging</p>
<p>ZOOM INDICATOR</p> 	<p>When you tap this icon on the screen, the monitor breaks the screen image into 5 areas. Tap the area you want to see in Zoom. That area displays in 2X size. Tap the icon again to exit Zoom mode.</p>
<p>VOLUME INDICATOR</p> 	<p>Indicates current audio volume. You must be in single channel viewing mode to change volume. Tap + or - to raise or lower the volume.  displays when the volume is off (mute).</p>
<p>TALK BACK INDICATOR</p> 	<p>Displays when TALK is pressed. Press and hold TALK on the side of the monitor to talk back through the camera. Release TALK to wait for a reply.</p>
<p>NEW DOWNLOAD</p> 	<p>Displays if new firmware is available.</p>
<p>SEQUENCE INDICATOR</p> 	<p>Displays when the monitor is in auto switch mode; it will change channels automatically.</p>
<p>CHANGE CHANNEL</p> 	<p>Tap this icon to manually change channels.</p>

MOTION RECORDING INDICATOR 	Indicates motion detection status. Blue- Automatic recording OFF. Red- Automatic recording ON.
POP-UP MENU TAB 	Tap to access the pop up menu system.

Wireless Camera



No.	What it is
1	Camera Antenna: Sends and receives signals to/from the monitor.
2	IR LEDs. Infrared LEDs provide viewing in low/ no light conditions.
3	Camera Lens: Catches the video in front of the lens and transmits video from camera to monitor.
4	Light Sensor: Sense brightness for changing between daytime and nighttime vision.
5	Microphone: Transmit audio to receiver.
6	Pair Button: The pair button is located on the front of the camera. It is used to pair the camera with receiver.
7	PIR Sensor: Detects motion in front of the lens and emits detection signal to transmitter.
8	Speaker: Produces the sound transmitted from the receiver.
9	Adjustment screws: Adjusts the camera up/down and clockwise/counterclockwise.

Note: This camera includes an Auto Mechanical IR Cut Filter. When the camera changes between day mode and night vision mode, an audible clicking noise may be heard coming from the camera. This clicking is normal, and indicates that the camera filter is working.

Camera Installation

Before you install the camera, carefully plan where and how it will be positioned, and where you will route the cable that connects the camera to the power adaptor.

Before starting permanent installation, verify its performance by observing the image on the receiver when camera is positioned in the same location/position where it will be permanently installed and the receiver is placed in the location where it will be used most of the time.

Installation Warnings

Aim the camera(s) to best optimize the viewing area: Select a location for the camera that provides a clear view of the area you want to monitor, which is free from dust, and is not in line-of-sight to a strong light source or direct sunlight.

Avoid installing the cameras where there are thick walls, or obstructions between the Cameras and the Receiver.

Night Vision

This camera has built-in IR LEDs, which provides the camera with the ability to view images in no/low light conditions.

Installing the Camera

1. Carefully unpack the camera.

NOTE: If you are installing cameras that did not come with the system, please see the pairing camera section of this manual for details on installation.

2. Mount the camera to the wall.

Mark the position of the screw holes on the wall, and drill holes and insert 3 screws, then firmly attach the camera to the wall. Make sure to strongly secure the screw the mounting bracket into the wall

NOTE: The camera can also be placed on a flat surface, such as a Table or Shelf, and no mounting hardware is required.

3. Adjust the viewing angle of the camera. You can adjust camera angle to desired viewing area.

NOTE: You can install additional cameras (maximum of 4 cameras). When adding cameras that were not included in the original box, you will need to pair up the cameras with the receiver. Refer to the camera pairing section of this manual.

Connecting Camera Power

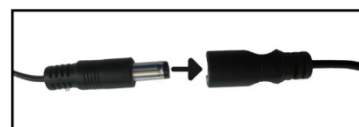
The camera can be powered by using the provided power adaptor

Power Adaptor

Connect the power adaptor to the camera.

Make sure is the DC 9V for camera, and DC 5V for Receiver

Make sure the power adaptor is placed into a grounded outlet or surge bar to protect the camera from power fluctuations.




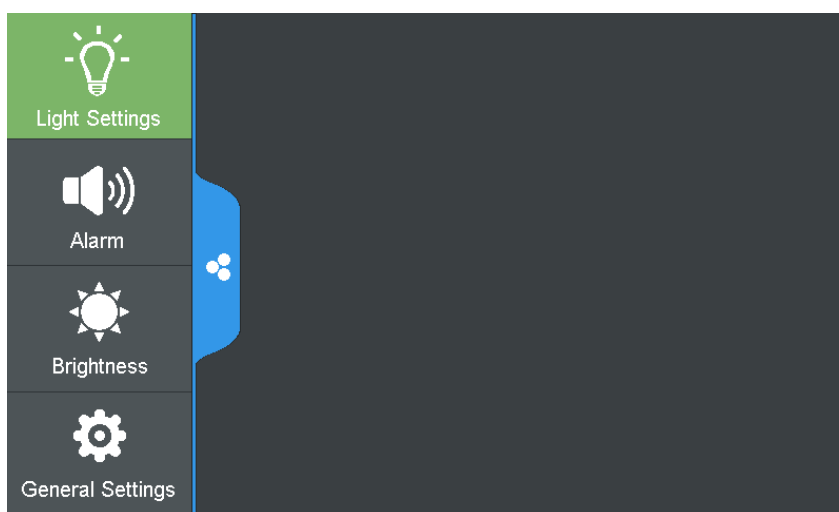
SCREEN DESCRIPTIONS

OVERVIEW

This section describes the monitor pop-up menu screens in detail. These pop-up menus enable you to:

- Control light settings
- Set alarms
- Set the brightness level for each camera connected (single channel display only)
- Set up cameras for recording, motion detection, and other system and network requirements.

Tap  and the pop-up menu display.



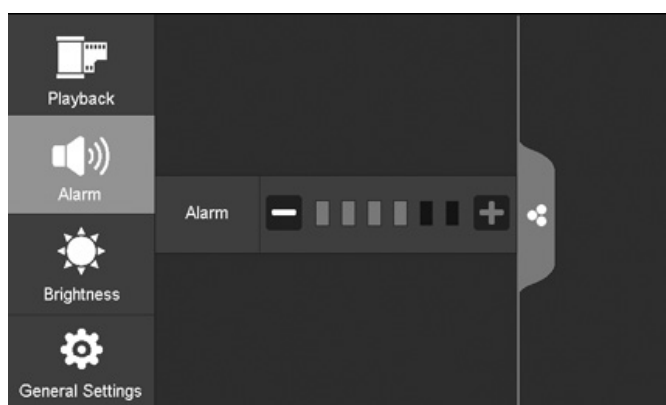
Light settings


The camera of this system has extended Infra Red Nightview, but no real white Light, so this function is out of scope for your system.

ALARM

When motion triggers the camera to begin recording, the monitor sounds an alarm tone. This screen lets you determine how loud that tone will be.

1. Tap . The following screen displays.

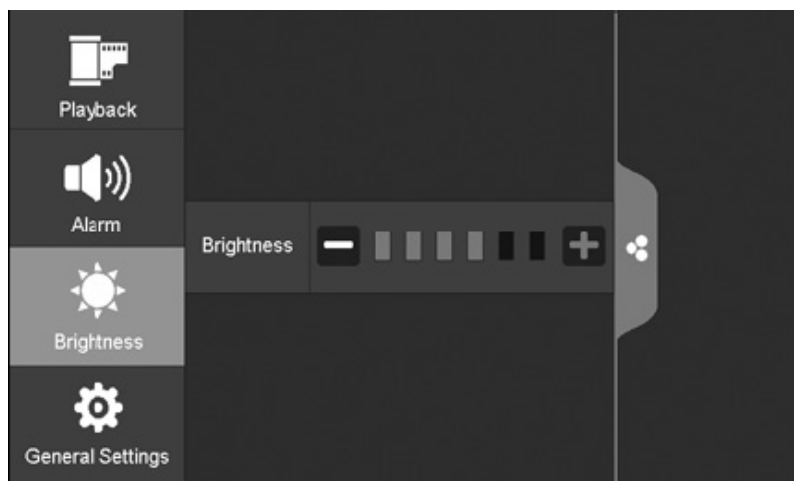



2. Tap + or – to increase or decrease the alarm volume. Tap  when you are finished.

BRIGHTNESS

This feature allows you to set each camera's brightness level.

1. Tap . The following screen displays.

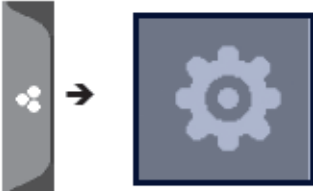


2. Tap + or – to increase or decrease the monitor screen brightness. Tap  when you are finished.

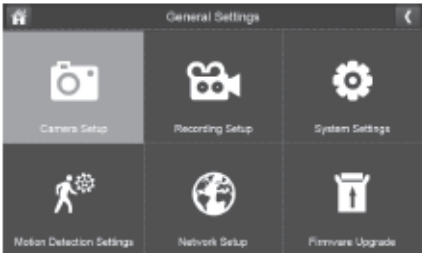
GENERAL SETTINGS

The *General Settings* screen contains 6 subsections, each of which may contain sub-screens. These sub-screens let you set features about your system. You can turn cameras on and off, establish a specific schedule for specific cameras to record, set the date and time, and motion detection sensitivity, among other features. The rest of this section provides details using these screens.

Tap the following icons as they appear on the screens:



This screen should display:

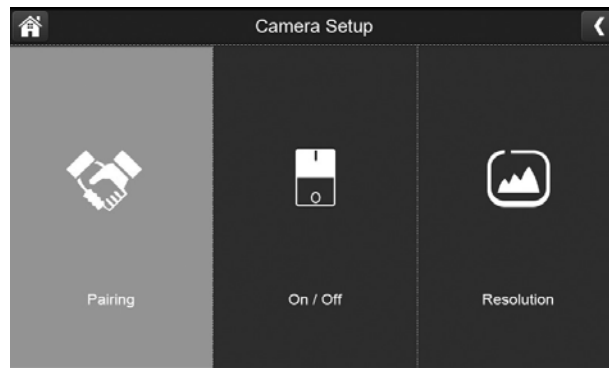


Main Screen	Sub-Screen	What it Does
Camera Setup	Pairing	This system comes with cameras already paired. Use Pairing to assign these cameras to different channels or to pair additional new cameras to the monitor.
	ON/OFF	Makes the cameras visible to the monitor.

	Resolution	Adjusts the video quality of each camera.
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Main Screen	Sub-Screen	What it Does
Recording Setup	Duration	Set the length of time the camera records once motion sensitivity triggers the camera to record. Choices are 15 seconds, 30 seconds, or 1 minute (Default - 15 seconds)
	Schedule Recording	Set up a schedule for pre-determined recording times and lengths.
	File Overwrite	Overwrites the oldest recorded data on the SD card once the card is full.
System Settings	Date & Time	<ul style="list-style-type: none"> •Time Setting. Set the current time (including Daylight Savings Time). •Time Zone. Set the time zone for your system.
	Time Zone	<ul style="list-style-type: none"> •Set the time zone for your system. •Enable/Disable Daylight Savings Time.
	Language	Changes languages setting for the monitor (English, French or Spanish)
	Default Settings	Restores the system to default settings.
	Format SD Card	Reformats the SD card and deletes all existing data.
	Information	Displays firmware information for the monitor and each camera.
Motion Detection Settings	<p>A single screen lets you set motion detection sensitivity for each camera.</p> <p>It also lets you determine which viewing areas for each camera should be masked from motion detection.</p>	
Network Setup	Advanced Setup	Set up Dynamic or Static IP address.
	Reset Password	Reset app password to the default (000000).
	Information	Displays and allows you to change information about your network and the monitor's unique UID number.
Firmware Upgrade	Lets you select how you want to upgrade your firmware (from SD card or from server).	

CAMERA SETUP SCREEN



The Camera Setup screen lets you:

- Pair cameras
- Turn cameras on and off
- Adjust the resolution

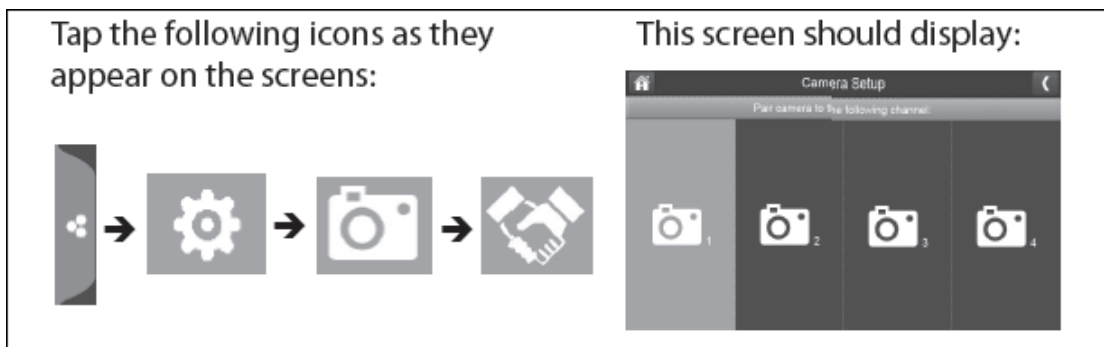
Pairing

Your cameras are paired to the monitor at the factory to channels 1 and 2. When you add a new camera to your system, you have to “introduce” the camera and monitor to each other so they can communicate.

You can also use this procedure to move a camera from one channel to a different channel.

Some things to know about pairing cameras:

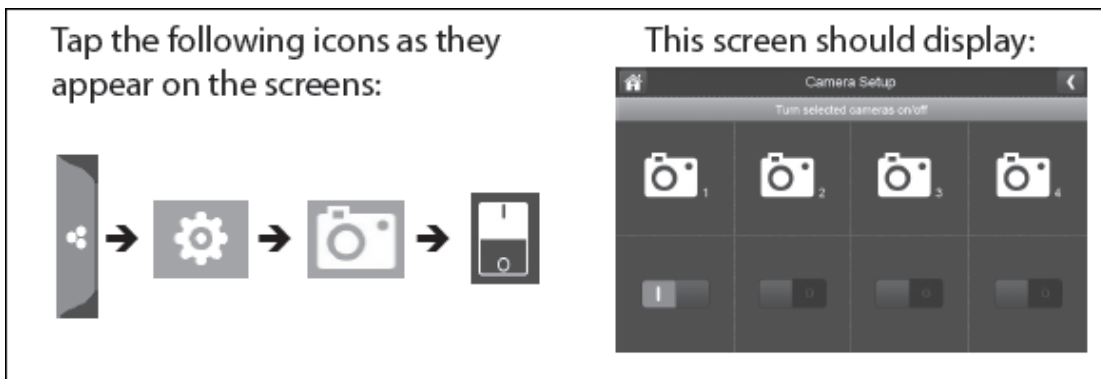
- If a camera is already assigned to the selected channel, the pairing operation overwrites that camera link with the new one.
- Only pair one camera at a time! The monitor links to the first camera it detects. If two or more cameras are in pairing mode, you can’t control which camera the monitor will detect first.




1. Tap *Pairing* on the *Camera Setup* screen.
2. Tap the channel number you want to pair the camera to.
3. A message displays with instructions to press the **PAIR** button on the camera. Press and release the **PAIR** button on the front of the camera. A 30-second countdown begins.
You must press the PAIR button during the 30-second countdown; otherwise, the camera will not be paired.
4. The system displays live video 3 seconds after the camera is successfully paired.

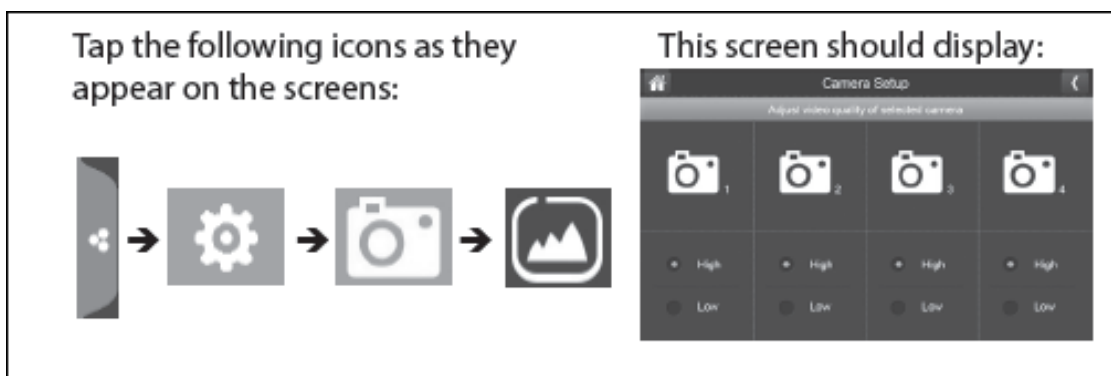
On/Off


When you add a camera to your system, pair up the camera with the monitor and the system will automatically turn it on.



1. Tap the switch bar under the camera you want to turn on or off.
2. The switch bar indicator turns green when the camera is on. It is greyed out when the camera is off.
Although the camera is turned off, it is still powered. The monitor will not receive video signals from that camera.
3. Tap  to return to the previous screen.

Resolution

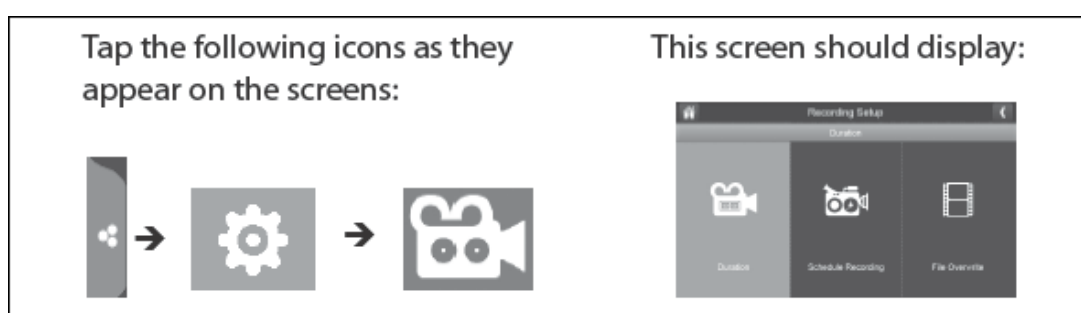


1. Tap *High* or *Low* to set the frame rate for each camera.
2. Tap  to return to the previous screen.

RECORDING SETUP SCREEN

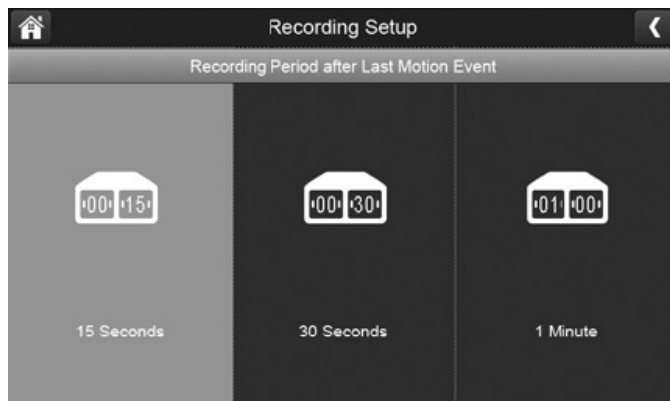
Use the Recording Setup screen to:


- Set the length of time the system will automatically record when something triggers motion sensitivity.
- Schedule a set time and duration to automatically record from a specific camera.
- Set up file retention requirements



Duration

You can set how long the camera keeps recording after motion detection triggers it. The options are 15 seconds, 30 seconds, or 1 minute. (Default = 15 seconds)




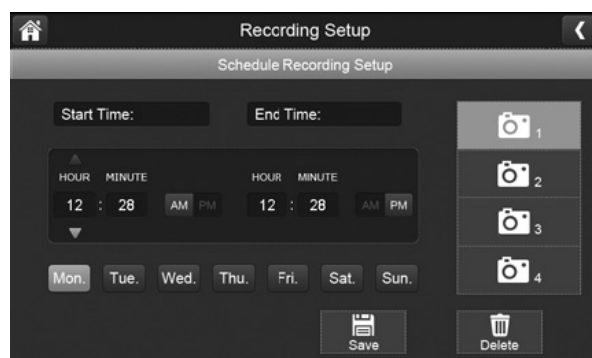
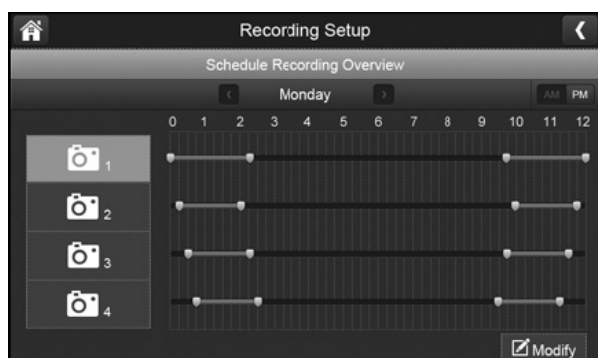
1. Tap the duration you wish to set.
2. Tap  to return to the previous screen.

Schedule Recording

This feature lets you set up a block of time for a camera to record on a weekly schedule. You can set up multiple cameras to record at the same time and the recording times can overlap between cameras.

Total recording time is limited to the space available on the SD card. If you set the SD card to delete the oldest files when it is full, the system continues recording; otherwise, recording stops until space is available.

1. Tap ; the *Schedule Recording Overview* screen displays;
2. Tap **MODIFY** in the lower right corner. The *Schedule Recording Setup* screen displays.




3. Select a camera. If you want more than one camera to record at the same time, select both cameras.
4. Set the recording start time.
 - Tap the **AM/PM** block to toggle between them.
 - Tap the hour and number boxes separately and tap the up and down arrows to set the time in HH:MM format.
5. Tap **SAVE**. The system returns to the Schedule Recording Overview screen with the recording period indicated.

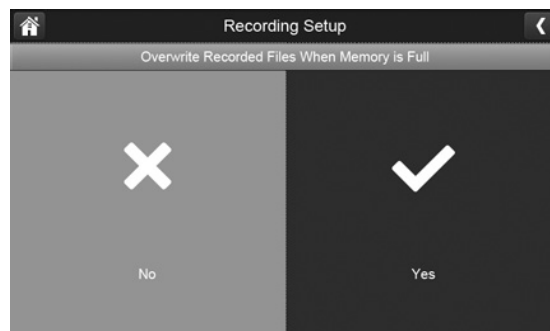
6. Tap **MODIFY** again to set up another recording session to schedule.


Scheduled recordings are broken up into 10 minute file sizes. For example, if you record a 25 minute event, you will have two 10-minute recordings plus one 5-minute recording.

File Overwrite

This feature lets you set the system to automatically overwrite the oldest files once the SD card is full. This will allow you to continue recording. If you do not allow overwrite, recording stops when the SD card is full.

1. Tap  to access the File Overwrite function. The following screen gives you the option of allowing File Overwrite (tap **YES**) or, if File Overwrite is on, cancelling it (tap **NO**).

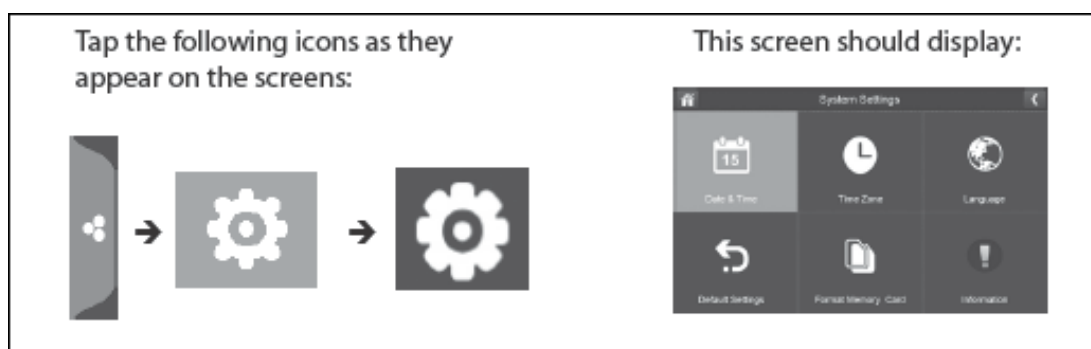


2. Tap  to return to the previous screen.


SYSTEM SETTING

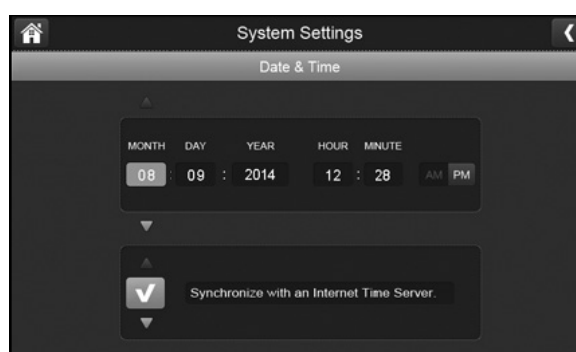
Use these setting options to configure your system:

- Date and Time
- Time Zone
- Language
- Default Settings
- Format Memory Card
- Information




Date and Time

1. Tap  to access the Date & Time screen.




2. Tap the up or down arrow to set the month, day, and date.
3. Tap the up or down arrow to set the time.
 - Tap the **AM/PM** block to toggle between them.
 - Tap the up or down arrows to set the correct hour and minute.
4. Tap Synchronize with an internet time server if you want the internet clock to set your time automatically.

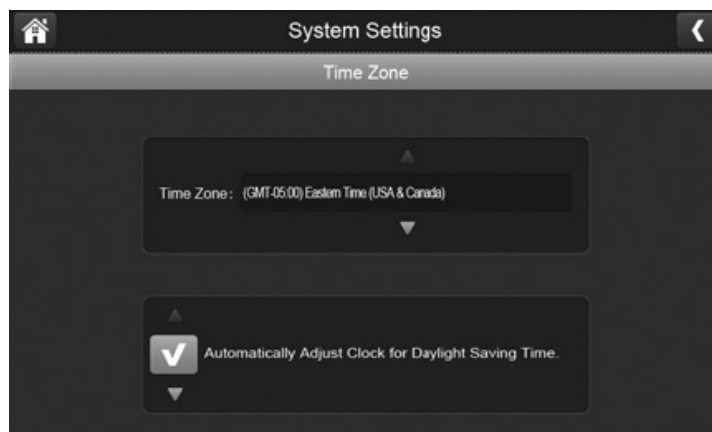
You must keep your system connected to you wireless network using the Ethernet cable in order to synchronize with the internet time server.


5. Tap  to return to the previous screen.

Time Zone


Time Zone allows you to set the time zone your monitor is in. This is especially useful if you are using the app in another time zone and you want to remotely access your recorded files. Your system will know that your request refers to the time zone the monitor is in. [Default = (GMT-5:00) Eastern Time (USA & Canada)].

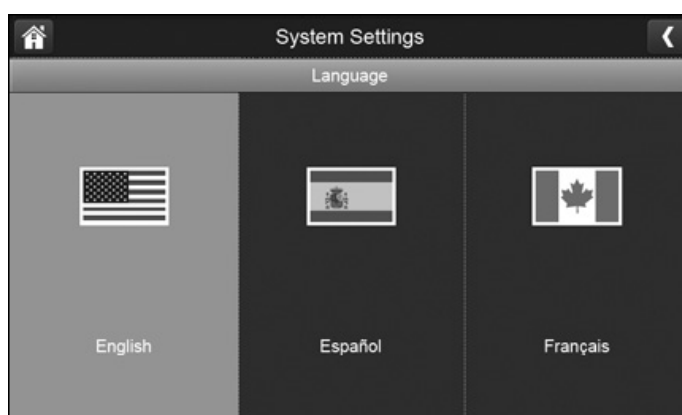
1. Tap . The *Time Zone* screen displays,




2. Scroll up and down to your camera's time zone and then tap it.
3. Tap the next option to turn Daylight Savings Time on or off.
4. Tap  to return to the previous screen.


Language

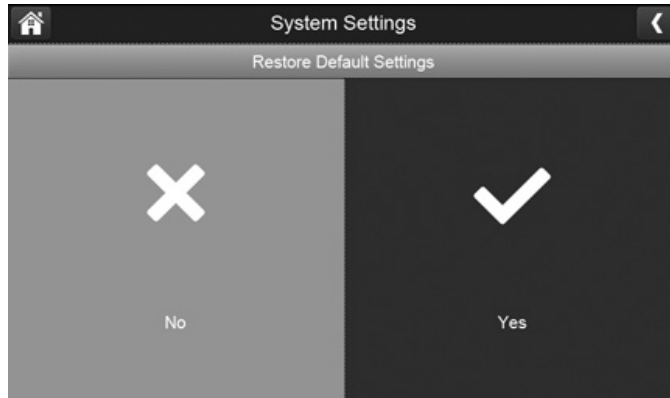
Tap  to set the language used on your system. Options are English, Spanish (Español), and French (Français).



1. Tap the language you want your system to use.
2. Tap . The system returns to the previous screen and automatically changes over to the requested language; no reboot is necessary.

Default Settings


1. Tap  to return your system to the original default settings.

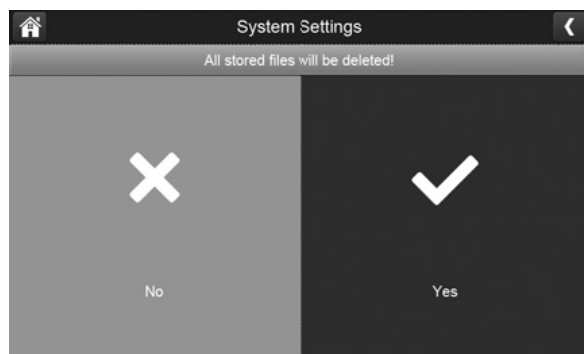


2. Tap **YES** on the Restore Default Settings screen.
3. Tap **OK** to confirm the reset.

Format SD Card

Formatting the SD card erases all data stored on the card. (Default = **NO**)

1. Tap  to reformat your SD card.




2. Tap YES on the *All stored files will be deleted!* Screen (Default = NO). A confirmation screen displays. Tap **YES** to it.



3. A progress bar displays on the screen. After formatting is complete, a *Format OK* message displays.

Information

This screen lists the firmware information of the monitor and all cameras paired to it.

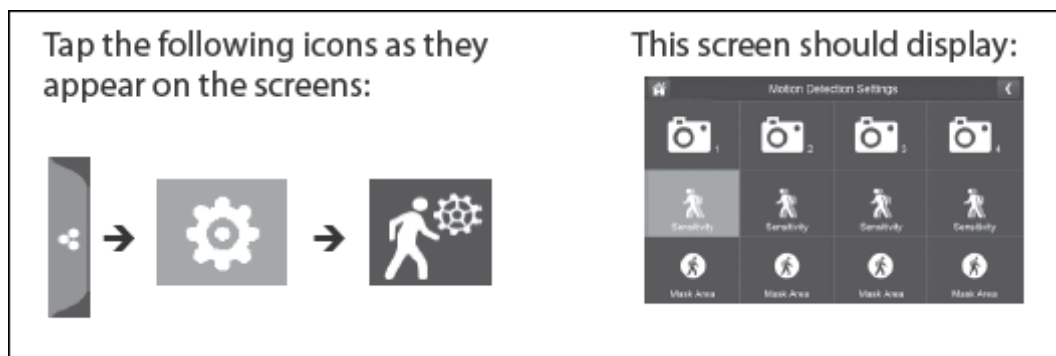
1. Tap  to display the screen.



2. Tap  to return to previous screen.

MOTION DETECTION SETTING SCREEN

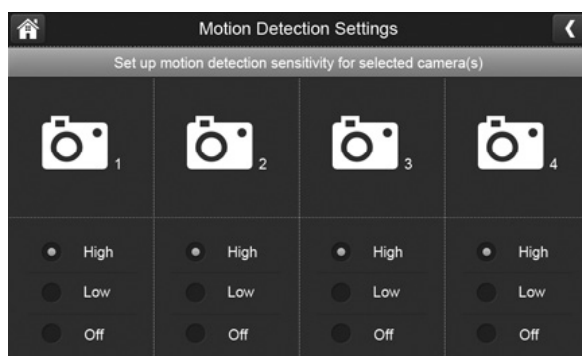
Motion detection settings control how strong the motion needs to be to trigger recording. This settings screen also lets you mask off any areas in the image for the camera to ignore. For example, you may have trees in the image area that would set off motion detection if there is a breeze.




Sensitivity

This selection allows you to set the camera's motion detection sensitivity levels to *High*, *Low*, or *Off*.


1. Tap . The following screen displays.

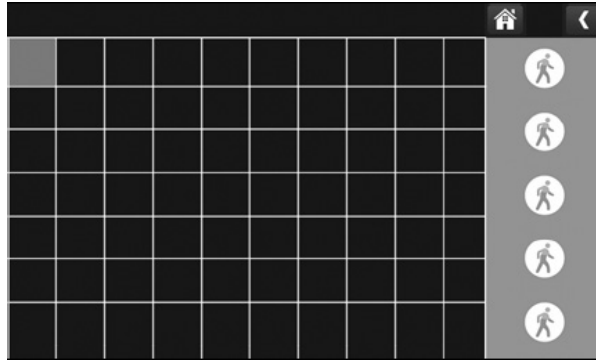



2. Tap *High*, *Low*, or *Off* to set sensitivity.
3. Tap  to return to the previous screen.

Mask Area

Use this selection to mask off any parts of the viewing area you do NOT want to be included for motion detection.

1. Tap . The Mask Area screen displays, superimposed over the image from that camera.

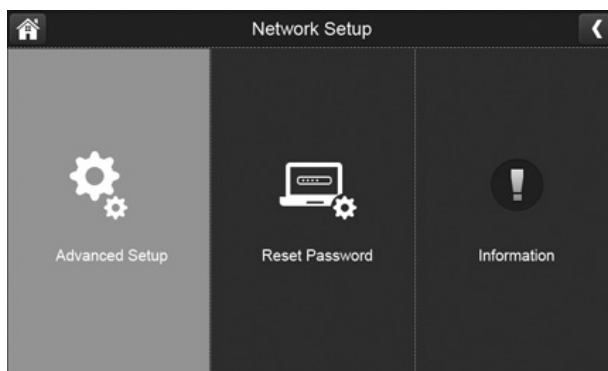


2. Tap the squares that cover the areas of the image you do not want affected by motion detection.
3. When you are finished, tap  to return to the *Motion Detection Setting* screen.


NETWORK SETUP SCREEN

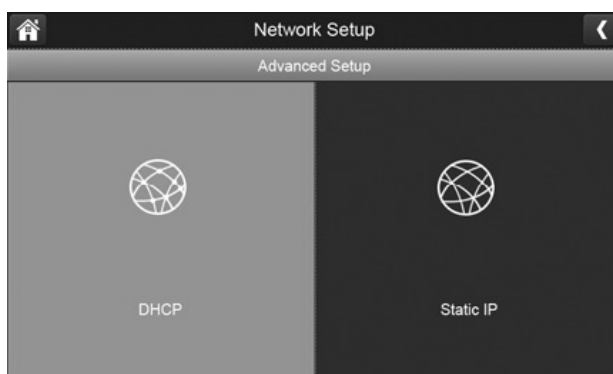
This selection lets you determine your network connection type, reset the APP password, and review your network details.

- Tap  to see the *Network Setup* screen and option.



Advanced Setup

1. Tap  to display the *Advanced Setup* screen.



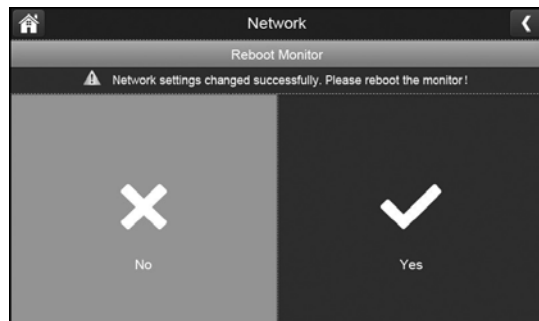
2. Tap on your selection and fill in the fields requested. Tap **SAVE**.



3. Tap on your selection and fill in the fields requested.


DCHP is the most common connection. Your router will automatically assign an IP address to your CM812732 system. Static IP is for those that have the ability to specify an IP address for their system.

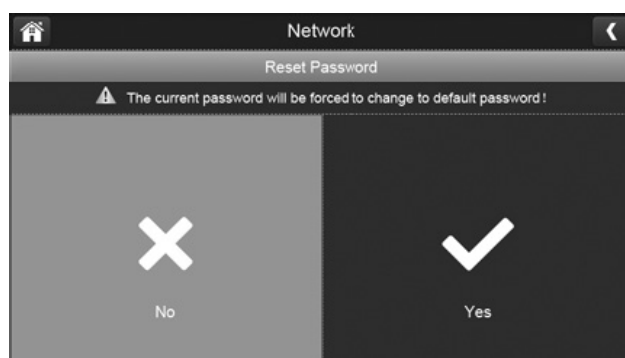
4. Reboot the monitor when prompted.



Reset Password

The Reset Password feature resets the MyCam View app's password to the default (000000).

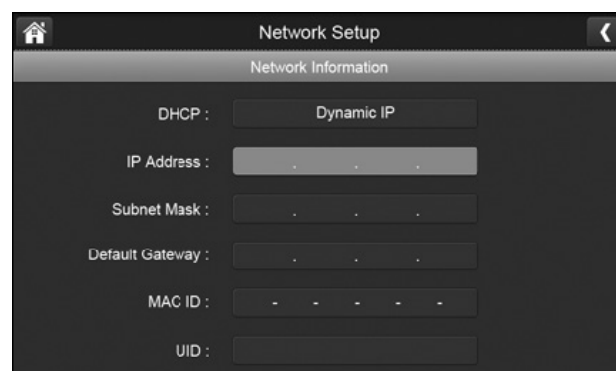
Tap **YES**, then tap  to return to the *Reset Password* screen.



Information

This screen displays current IP information when the system is connected to the internet.


Tap  to display the information screen, then tap  to return to the Information screen.

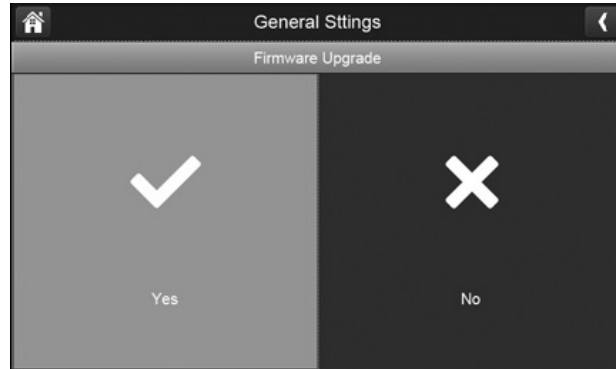


FIRMWARE UPGRADE SCREEN

We recommend that you check your monitor firmware version against the most recent version at least twice a year.

Upgrade from SD Card

1. Tap  to upgrade the firmware through the SD card. Tap **YES** on the confirmation screen.




2. A progress screen displays.



3. When the update is complete, the monitor displays *Firmware Upgrade Successful* and automatically reboots.

Upgrade from Server

1. Use the Ethernet cable (provided) to connect your monitor to your router.
2. Tap  to upgrade the firmware through the Server.
3. A confirmation screen displays. Tap **YES**.
4. The system checks to see if new firmware is available. If new firmware is available, the monitor installs it and automatically reboots.

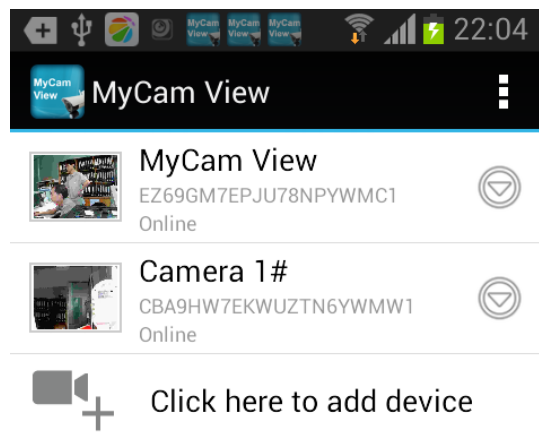
Remote View from APP

1. Download app **MyCam View** from App Store or Google play on your smart phone or tablet.(**Make sure your phone connect with network**)



2. Connect the 7"monitor with your home router by Ethernet cable.
3. Add camera(**Android APP** for example)

Touch the App icon **MyCam View** to launch the app, Tap "**Click here to add camera**"



Then the right pictures as showed, there are 2 options to get the UID from the monitor.

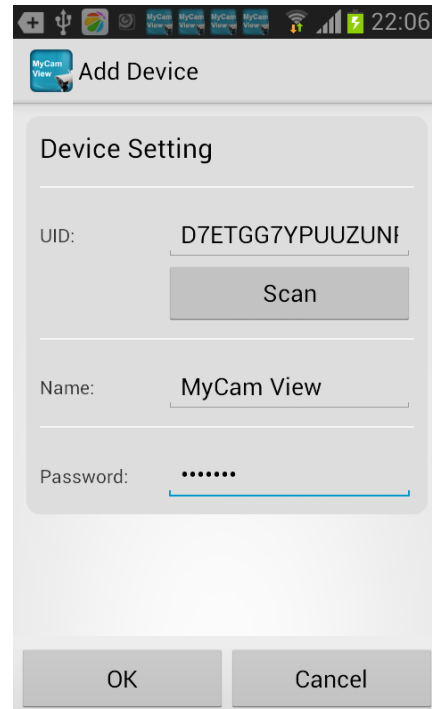
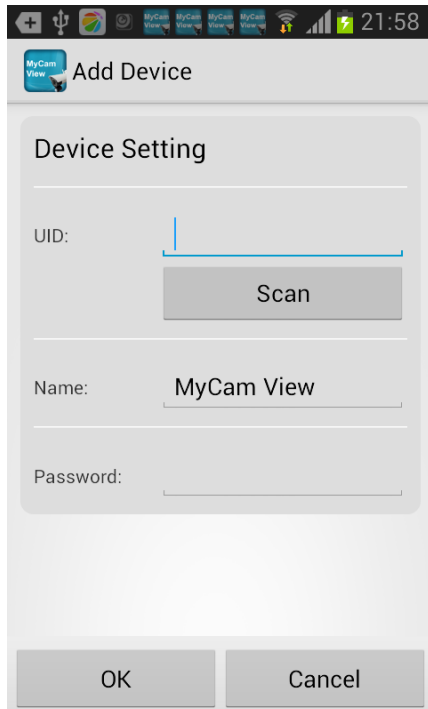
Option A: Enter the UID printed below the QRcode(example:**D7ETGG7YPUUZUNPYWM4J**) as it shows on the back of monitor.

Option B: Tap **Scan** button to scan the QRcode on the back of monitor.

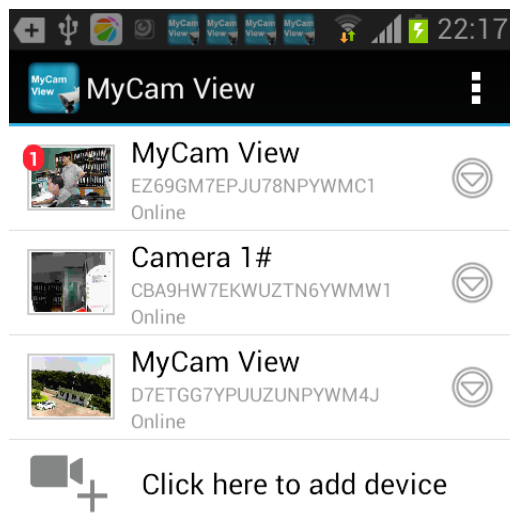
Name: Press it to rename the camera (original name is MyCam View) what you want.

Enter the Password: 000000(Default setting)

Then press **OK** to confirm it.





4. The system will show in your device list at an online status as below picture.




5. Press the camera you added on your device, now you can view live video from your camera in either portrait or landscape mode.


Icons in the APP


View icon : press this icon to view Snapshot photos already taken.

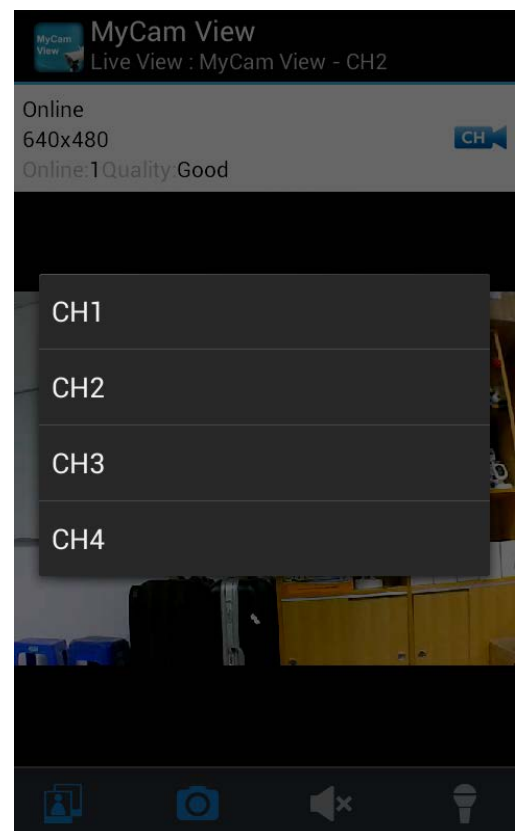
Snapshot Icon : press this icon to take photo from camera side

Mute Icon : It cut off the audio on the camera side.

Press this icon to listen the audio from camera side.

Talk back Icon : Press it to talk back to the camera currently being displayed on your phone.

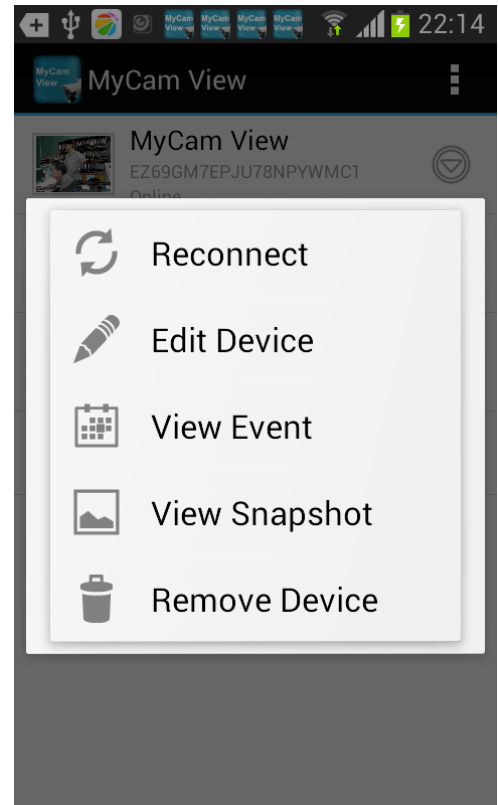
CH Icon : press this icon to change channel which you want to see.



Online:1, only one remote visit, system support 4 remote visit at the same time.

Quality: shows the network quality.

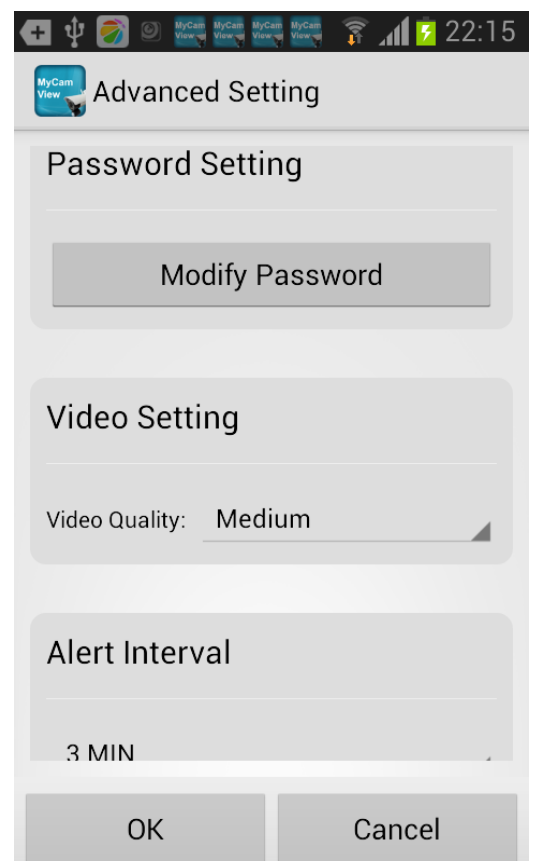
6. Back to the add camera menu, and then press the down arrow, a new interface pops out as showed.




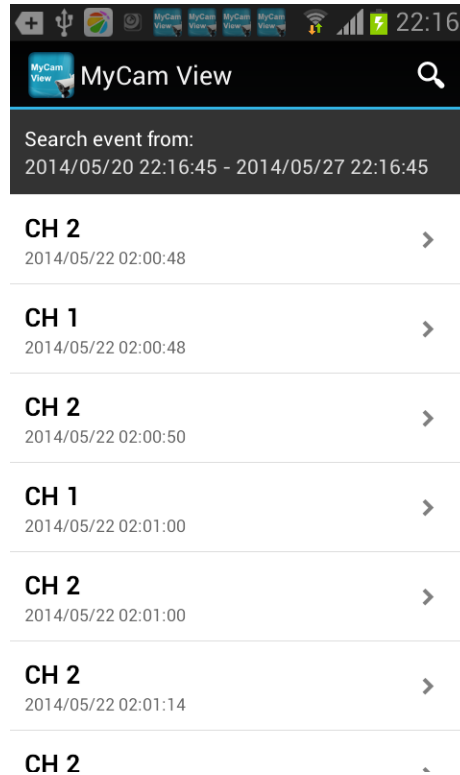
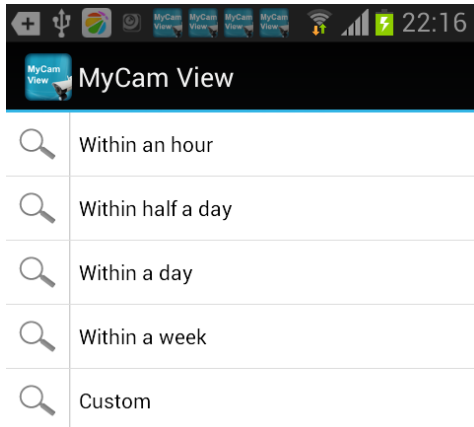
Reconnect: If your remote device connected failed with the camera, press it to reconnect.

Edit Device: Device setting and Advanced setting are under this menu. You can see the camera's details under Device Setting.

You can modify Password setting(default 000000) , video Quality(default Min) and Alert interval(default 3 MIN)under Advance setting.



View Event: Select it to playback the video on your phone. You can tap  icon to view live video by selecting a period of time(within an hour, within half a day, within a day, and within a week) or as you want by Custom time.



View Snapshot: Select it to view the photos you have taken by Snapshot key.

Remove Device: Delete this camera from your phone

Electrical Parameter:

Camera(s)	
Transmit Frequency Range	2400Mhz~2483.5Mhz
Data Rate	4 Mbps
Transmitting Power	16dBm (TYP)
Modulation Type	GFSK with FHSS
Transmitting Distance	150m (Line of Sight)
Image Sensor Type	1/4" Color CMOS Image Sensor
Effective Pixels	H: 1280 V: 720
Light sensitivity	3.5 Lux (w/o IR-LEDs)
Image Processing	MPEG-4
Image Resolution / Frame Rate	Cam x 1 : 720px1 @ 15 fps Cam x 2 : VGAX2 @ 30 fps Cam x 4 : VGA x 4 @ 10 fps
Lens	3.6mm / F1.9 (ICR cut Filter)
Viewing Angle (Diagonal)	66° (FOV)
Daylight sensor	<5 Lux (IR On), >30 Lux IR Off
IR LED / Night Vision Range	24 LEDs / 850nm, 15m (with IR Led)
Power Requirement	9V DC 600mA ±5%
Power Consumption	460mA Max (with IR ON and talk back)
Operating Temperature	14°F ~ 104°F (-10°C ~ 40°C)
Protection class	IP65
Operating Humidity	0% ~ 85%

LCD monitor

Receiving Frequency Range	2400Mhz~2483.5Mhz
Data Rate	4 Mbps
Receiving Sensitivity	-81dBm
Modulation Type	GFSK with FHSS
LCD Panel size	7 Inch
Recording format	ASF
SDHC-Memory card	Max 128G recommended: 32G
LCD Resolution	800 RGB (H) x 480 (V)
max. recording capacity in hours	approx. VGA:400M HD:900M
View Angle	H: 140° V: 110°
Lithium rechargeable battery	3.7V 2000mAh
Power Requirement	5V DC 2A ±5%
Power Consumption	750mA max: 1050mA
Operating Temperature	14°F ~ 104°F (-10°C ~ 40°C)
Operating Humidity	0% ~ 85%

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

Environmentally friendly disposal



Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.