Instruction Manual

SEE040

RoomWatch Camera - 2 Way Audio & PIR

System Q Ltd

ZipDVR.com

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Introduction

The RoomWatch is a great camera for use as a mobile or temporary CCTV solution. In a commercial setting you might use the RoomWatch to target specific problem areas such as tills, stock rooms or areas prone to vandalism. The beauty of the camera is that it has both IR to give some light at night as well as a PIR movement detector so you can "activate" recording only when necessary.

2 way audio gives the RoomWatch extra functionality, not only can you see and hear what is happening on location you can actually talk back to site. This might be something soothing like re-assuring your child or pet or more sinister such as warning off a shoplifter or prowler.

Setting up the RoomWatch is easy using your Zip DVR or NVR interface and once set up the RoomWatch is a fully mobile unit that you can move to wherever suits you without having to reprogram it.

1.1 Key Features

- Easy and simple to install - QR code setup
- Fast installs in around 1 hour
- No monitor required, works on PC, phone or tablet
- 12V or POE powered
- Built-in alarm contacts for interfacing
- ONVIF compatible with other NVRs for basic viewing
- Will work with ZIP DVR/NVRs
- Dual connectivity built-in WiFi & RJ45
- Mount camera on walls, ceiling or free-standing

Connections

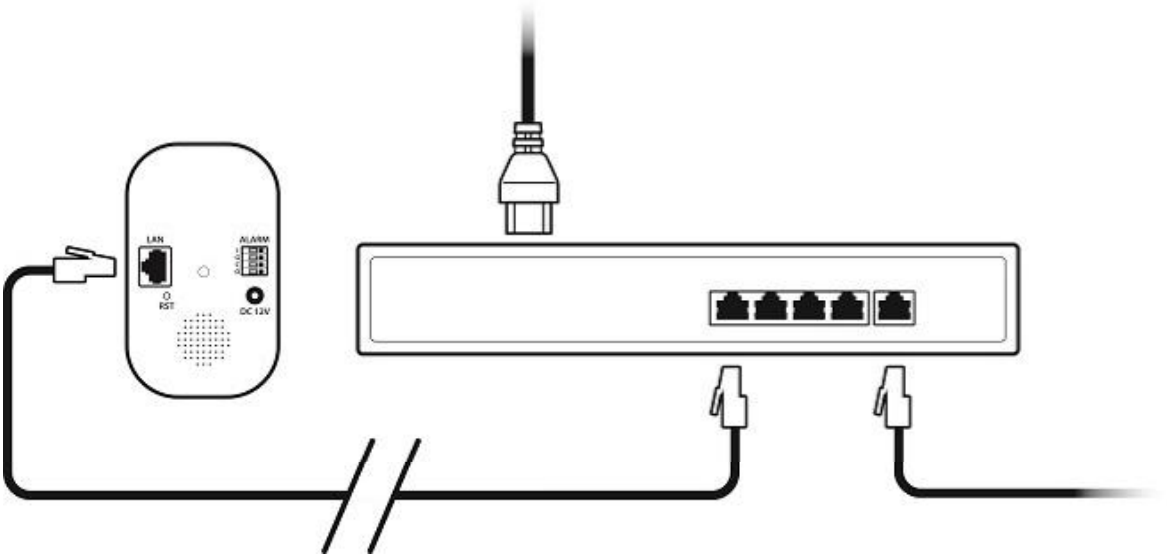
1. Light Sensor
2. Built-in Microphone
3. Micro SD Card slot
4. Built-in PIR (up to 10m)
5. Deterrent LED
6. LEDs (Power, Alarm, Network)
7. 2.8mm Wide Angle Lens
8. Ethernet RJ45 Socket
9. Reset Button
10. Alarm Input / Output terminal
11. 2.1mm 12V D.C Power connection
12. Built-in speaker

Setup Options

The RoomWatch Camera has many different setup options, here's a few examples:-

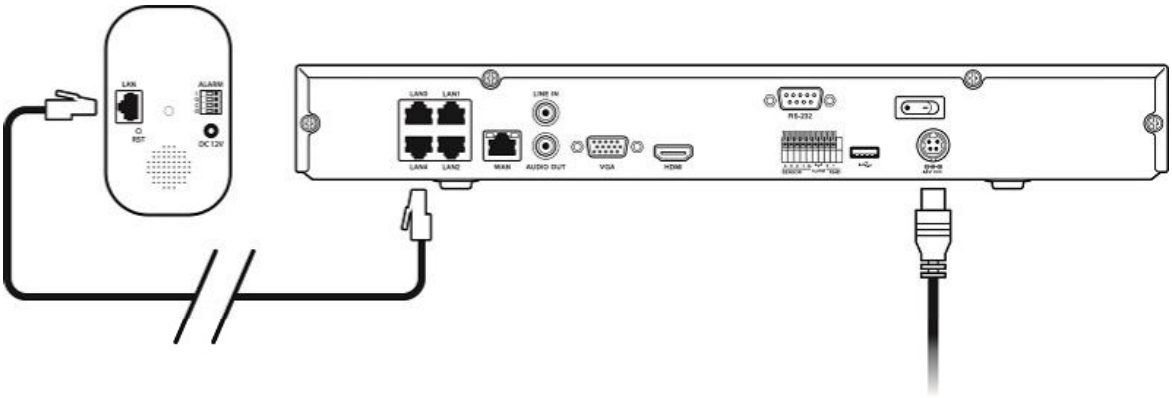
Wireless to Router 6

LAN to PoE Switch



Wireless to ZIP NVR / DVR 11 (via Router or access point)

Direct to NVR



ZipVision Pro App

Wireless to Router

Once setup is complete the RoomWatch camera simply be moved about from room to room so you can change what you use it for as the need arises.

To connect wiirelessly, you will need:-

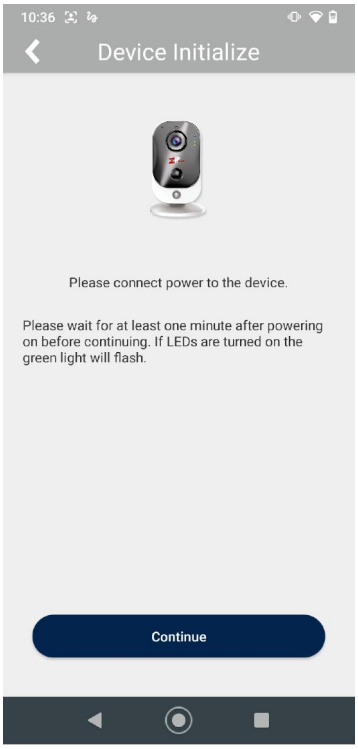
- 12V DC Power Supply
- Router
- ZipVision Pro App on Mobile Device

1. Go to Menu > Device List > Add > RoomWatch

2. Scan the QR Code on the Base of the RoomWatch

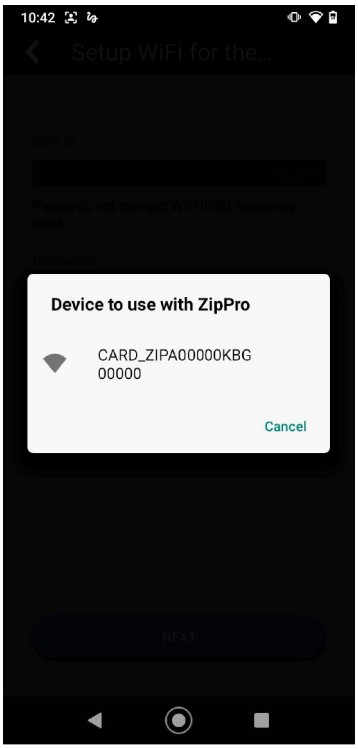
Allow access when Permissions Prompt is shown

3. The camera should already have power connected, if not then connect power now



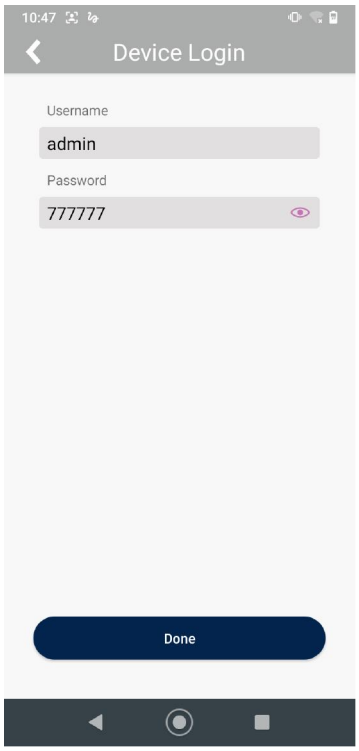
4. Enter the Wi-Fi Connection Details

5. Select the RoomWatch camera that you wish to add to your network

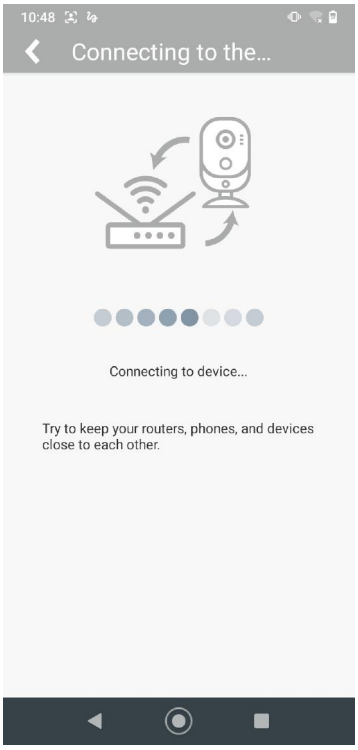


6. Enter Default Login for the Camera:-

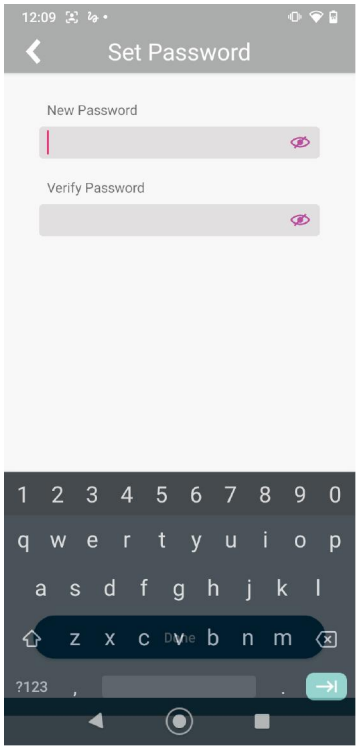
username: admin
password: 777777



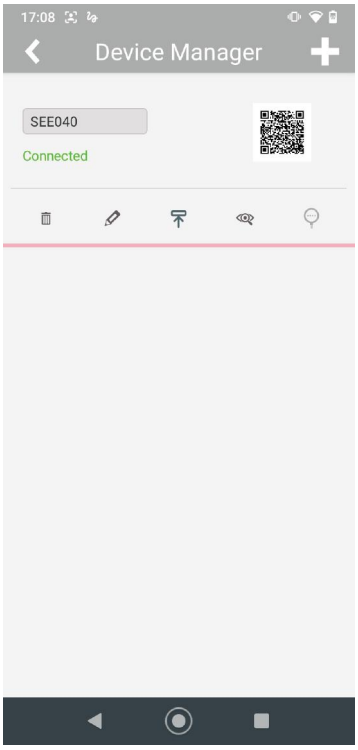
7. Wait for the WiFi Connection to the RoomWatch Camera



8. Enter new password for security of the RoomWatch Camera

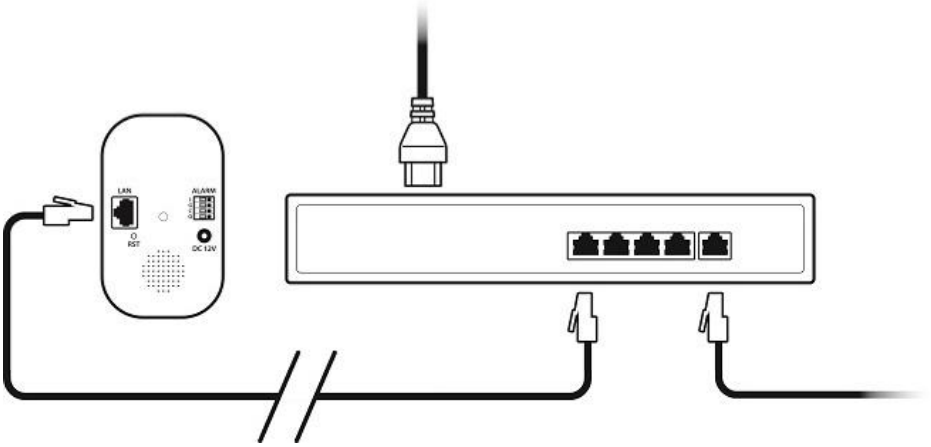


9. Once complete, connected will show in Device Manager



LAN to PoE Switch

You will need...



- Windows Based PC/ Laptop
- ZipVision Pro App on Mobile Device
- PoE Switch conected to Network/ Router
- Ethernet network cable
- Download and install ZipFinder software:-
www.softcctv.com/store/Item/Zip-Finder-IP-CCTV-Security-Camera-Discovery-Tool

Zip Finder - IP Camera Discovery Tool

1. Plug the RoomWatch RJ45 port with a network cable into a PoE switch

2. Using ZipFinder on a Windows Based PC/ Laptop Search and then Tick the SEE040

3. Select Net Mode : **DCHP** Then click **Modify**

4. Follow the steps for "Adding a device" on the ZipVision Pro App 5 Manual:-

ZipVision Pro Manual

ZipVision Pro App 5 - www.systemq.com/PDF/manual/xZipAPP.pdf

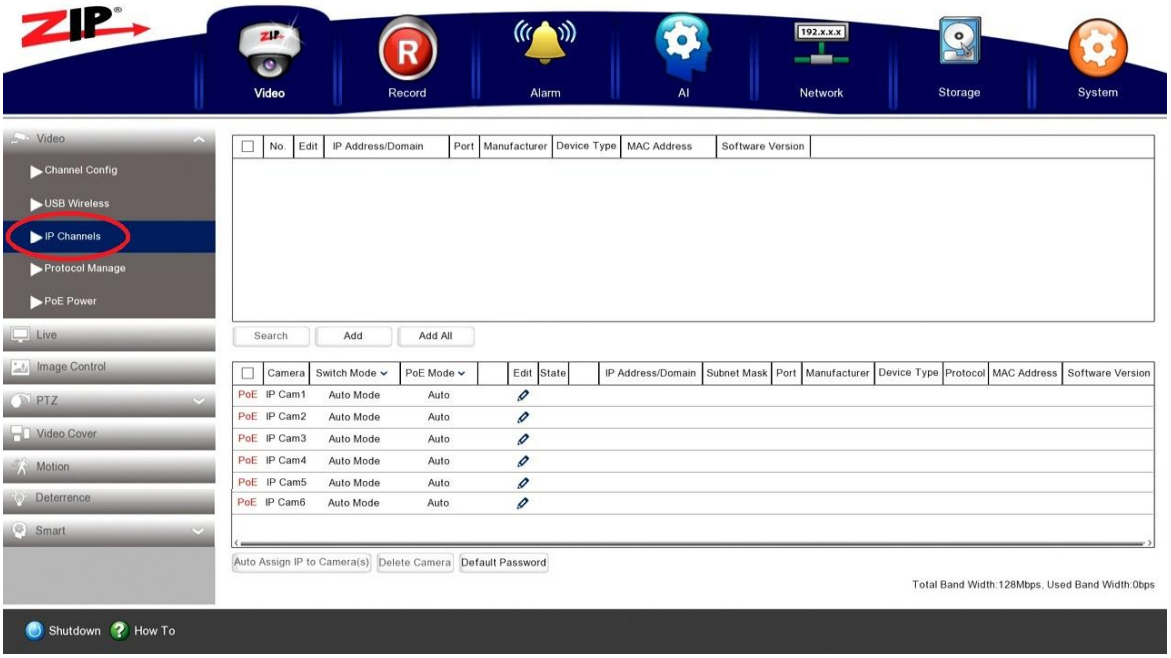
Wireless to ZIP NVR / DVR

You will need...

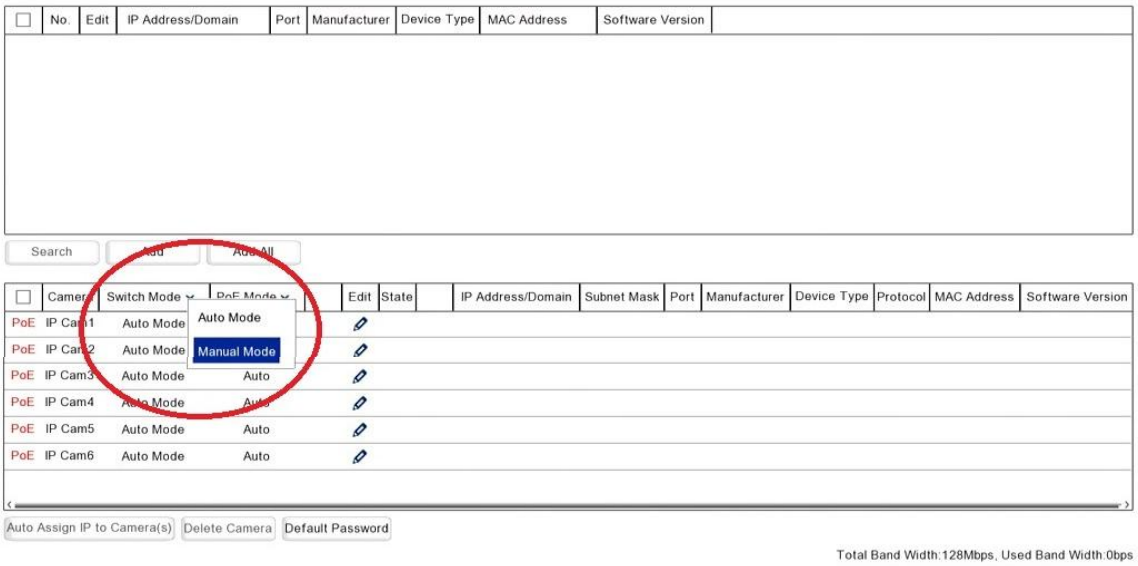
- Zip NVR / DVR
- 12V DC Power Supply
- Ethernet network cable
- Router

1. Plug the 12V DC into the RoomWatch and the RJ45 port with a network cable into the router

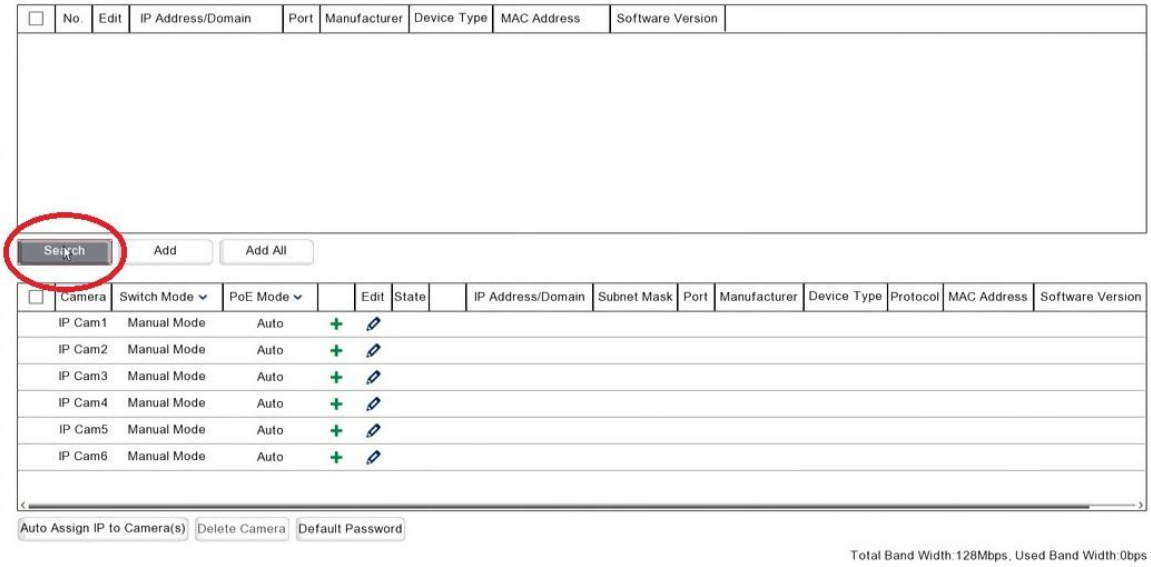
2. In the menu of the Recorder, go to **Video** > **Video** > **IP Channels**



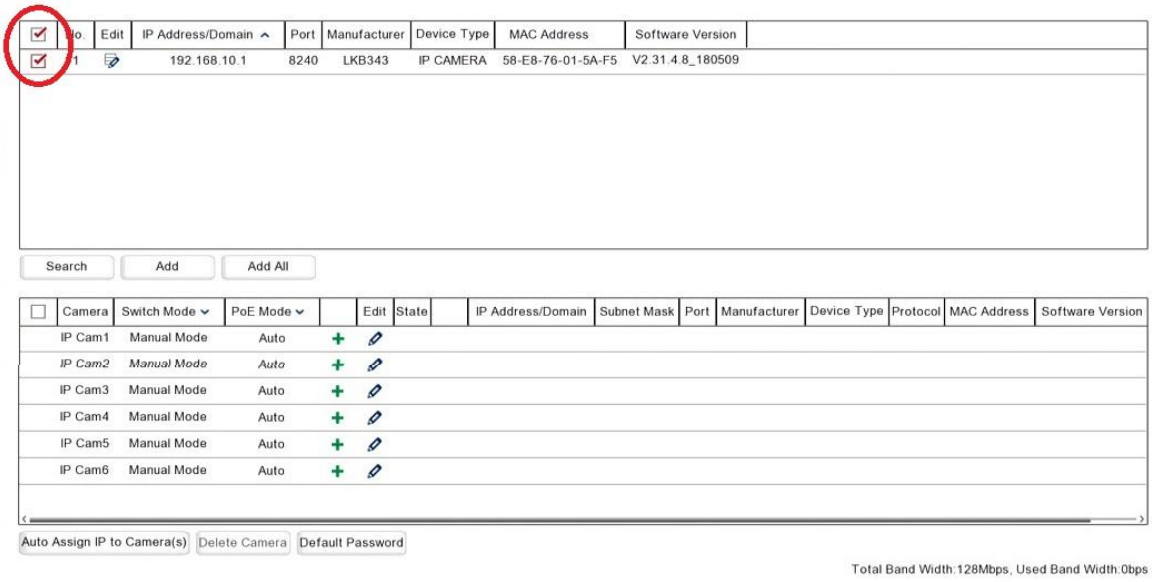
3. Set Switch Mode to **Manual**



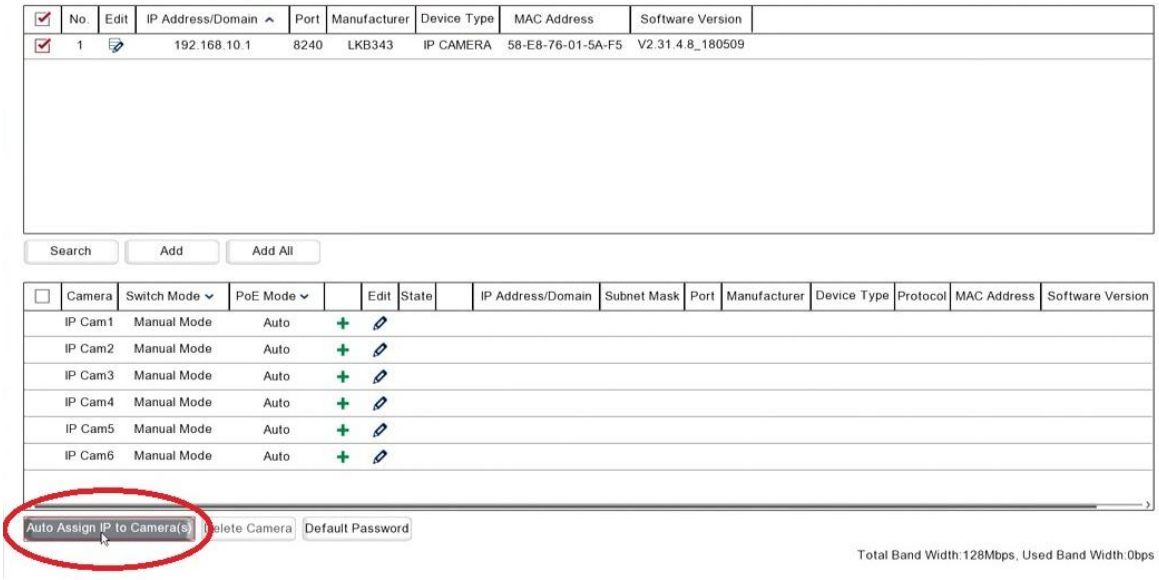
4. Then click **Search**



5. **Tick** each camera which appears with port 8240

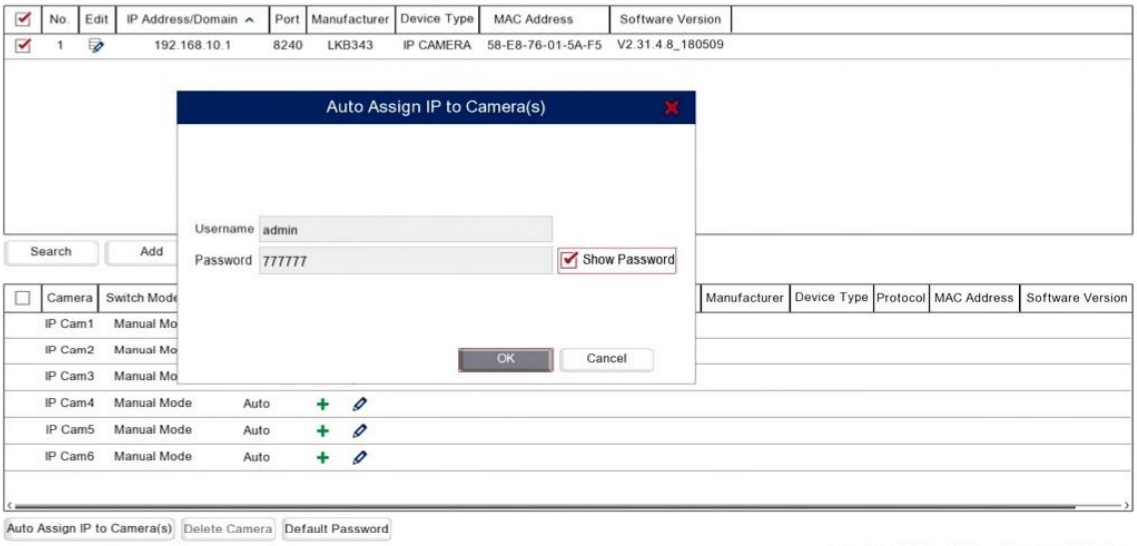


6. Select **Auto Assign IP to Cameras**

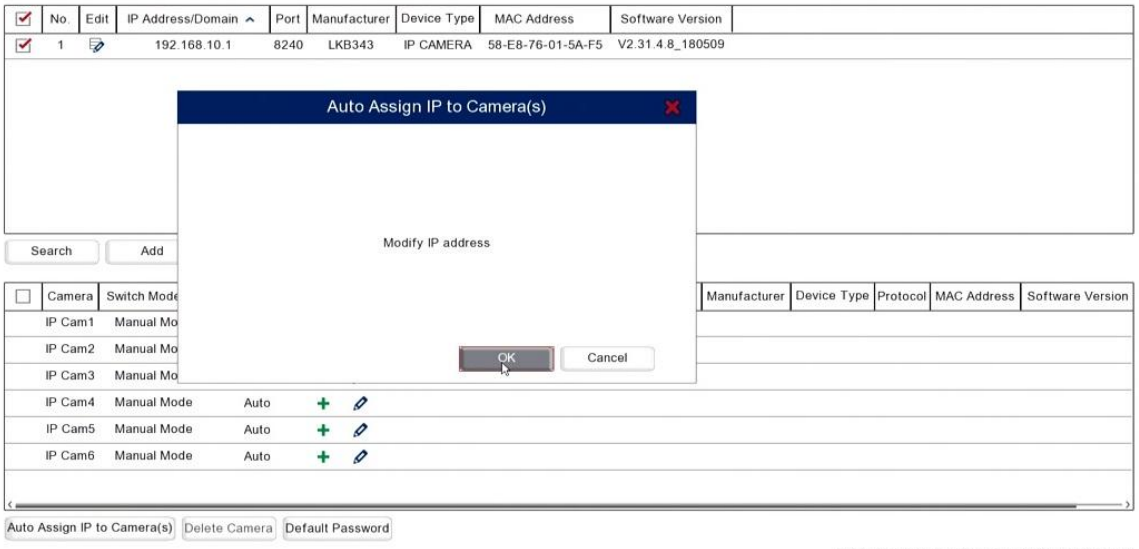


7. Enter the username and password:
username = **admin**
password = **777777**

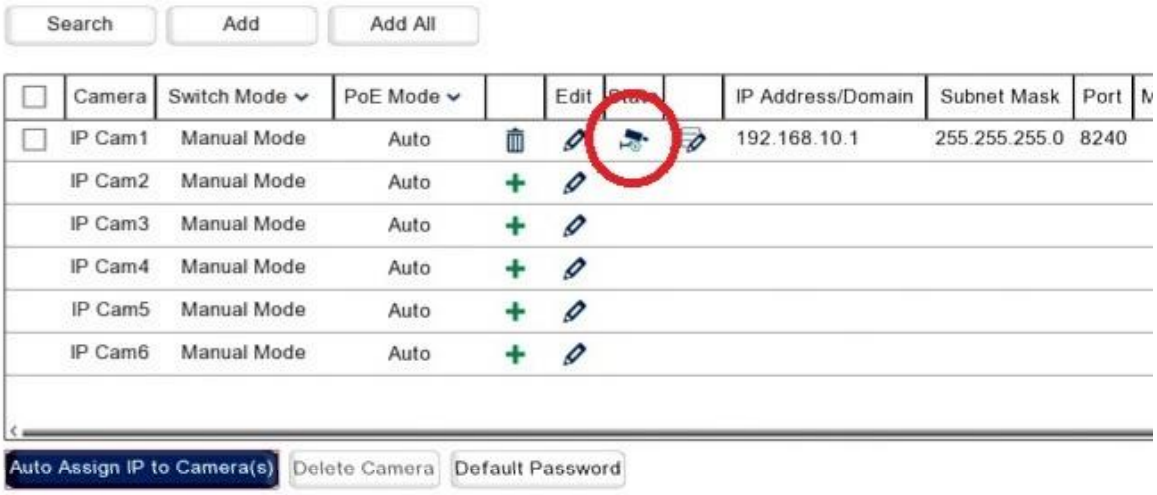
Select **OK**



8. Select **OK** for Modify IP Address



9. The camera should appear with the IP Address in the bottom table with a green Camera symbol after a few seconds



10. Unplug the RoomWatch from the Router, then pair the RoomWatch with WiFi using the ZipVision Pro App - Wireless to Router 6

SD Card

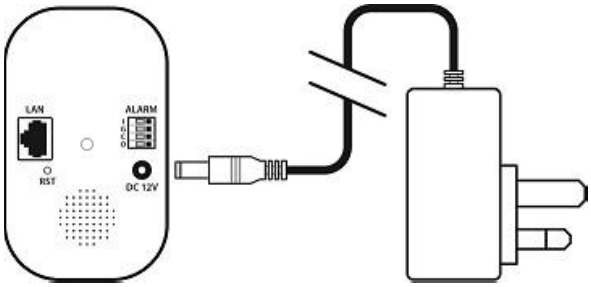
Different size SD Cards will provide different amounts of recording time, with the Encoding set to the default settings on constant record, the approximate recording time you will get:-

32GB SD Card ≈ 31 hours
64GB SD Card ≈ 62 hours
128GB SD Card (MAX) ≈ 124 hours

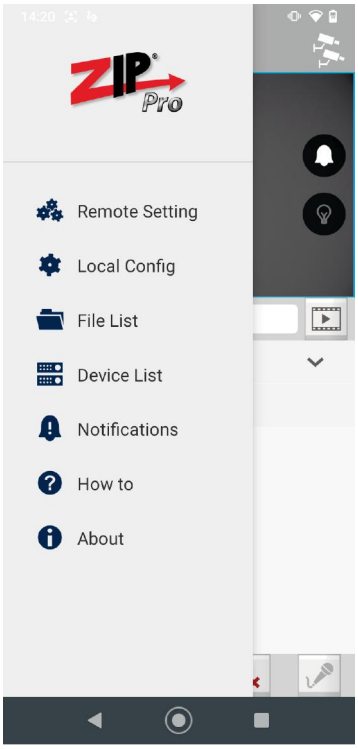
The camera can be set to only record when triggered via Motion Detection, PIR or Alarm Inputs to get more recording time.

1. Power Off the RoomWatch Camera, then Insert the SD Card

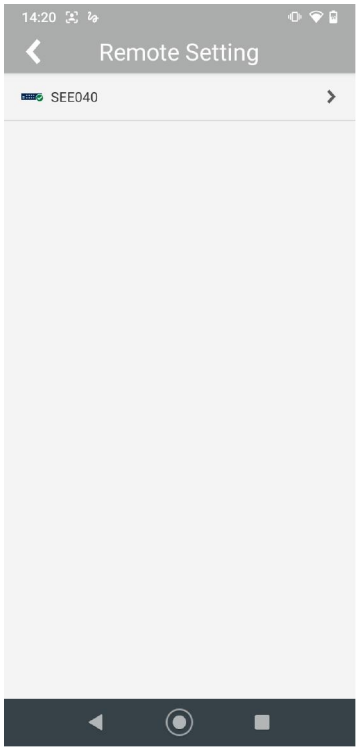
2. Once inserted, Power On the camera



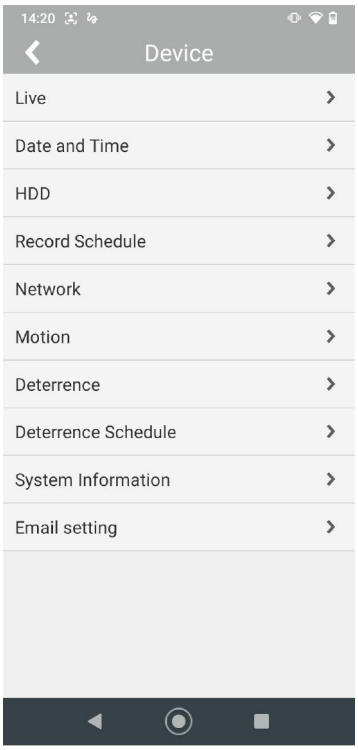
3. Select Remote Setting from the ZipVision Pro App menu



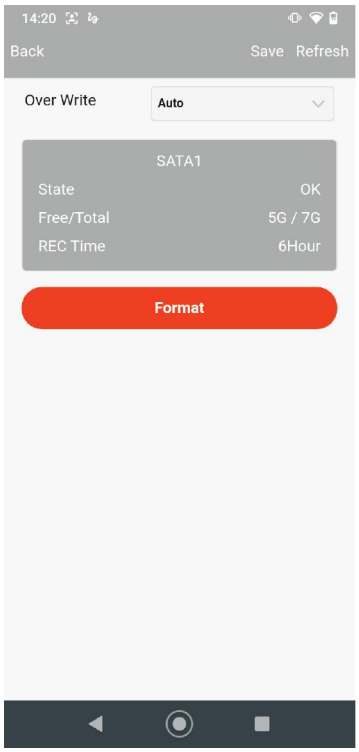
4. Select the Camera in the list



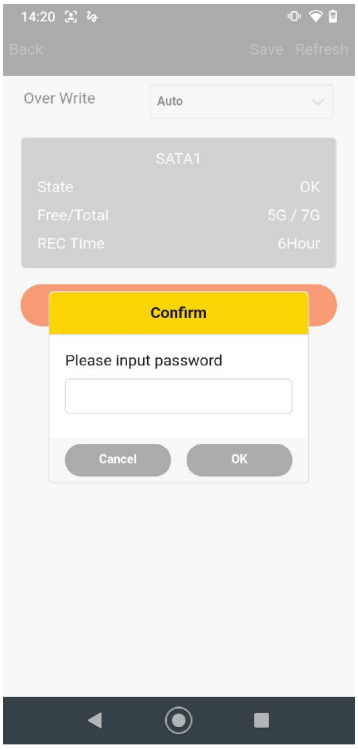
5. Select HDD in the list



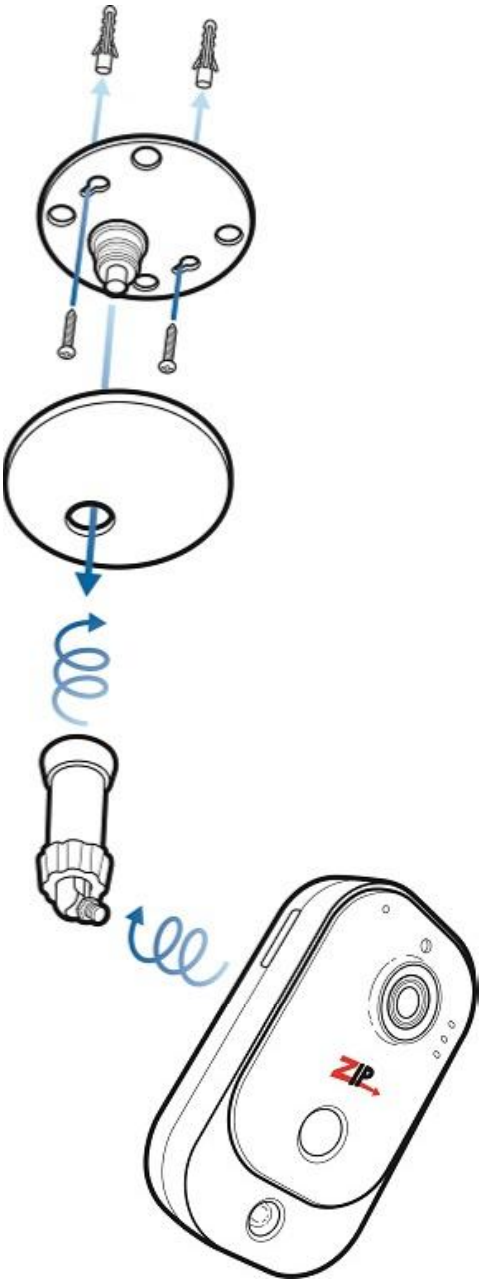
6. Select Format



8. Enter the Password for the RoomWatch Camera



Fitting



1. Unscrew camera from mounting bracket and mounting bracket from base plate

2. The mounting bracket will now separate into two parts, base plate and cover.

3. Fix base plate to wall using screws and raw plugs supplied.

4. Screw mounting bracket to base plate.

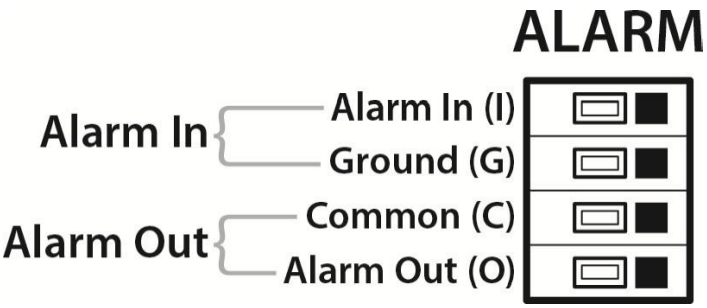
5. Screw camera to mounting bracket

Alarm Input / Output

Alarm settings can allow trigger for recording or alarm out.

Alarm Input can be selected to NO (Normally Open), NC (Normally Closed) or Off.

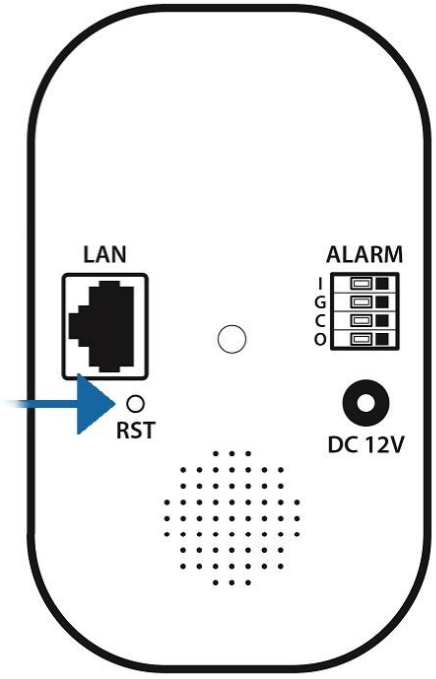
Alarm Output (Common & Output) can switch a load up to 2A 30V DC.



Restoring Default Settings

With the RoomWatch Camera powered, Default the camera by holding the Reset Button for 10 Seconds.

The process Default process can take up to 3 Minutes.



Firmware Upgrade

12.1 Information

Be aware that after applying a new firmware the camera must be reset to factory defaults, this will clear any settings you have made and will require them to be re-entered.

The latest firmware for our products are available online ..
http://zipdvr.com/firmware.html

You should compare your camera's current firmware against those available online as follows :

1. Download and install ZipFinder software:-
www.zipnvr.com/Software/ZipFinder-Setup-2017A.exe

2. Check the firmware of your camera compared with the ones online;

EXAMPLE :- Older V13.11.5.0_190904_5865
Newer V13.11.5.0_201209_8378

The text in red indicates the release date of a particular firmware, 19/09/04 is older than 20/12/09

Note: At the time of writing, the February 2021 download for the RoomWatch camera contains 2 firmwares, apply them sequentially in turn, ie: in date order, earliest one first. You should not attempt to load only the latest release, this will not work.

Before starting make a note of the current settings into the table below so that you can re-enter them.

DCHP Tick		Gateway	
IP Address		Preferred DNS	
Subnet Mask			

Configuration is a manual task, it is not possible to save settings from an earlier firmware and re-load them into a more recent one.

Firmware updates should be applied via a cabled connection from a Laptop or PC on the same local area network, you should not attempt this via WiFi and certainly should not attempt this remotely.

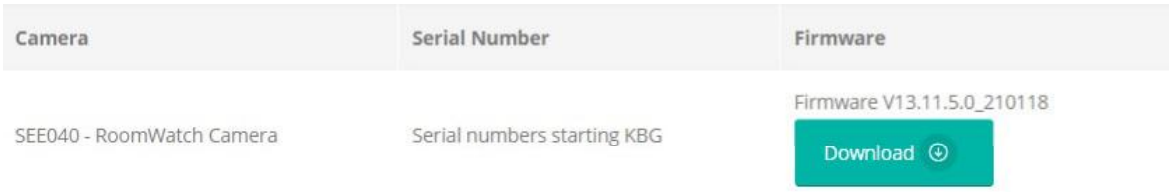
You will need:-

- Windows Based PC/ Laptop
- Router/ Switch
- Ethernet network cable
- 12V DC Power Supply

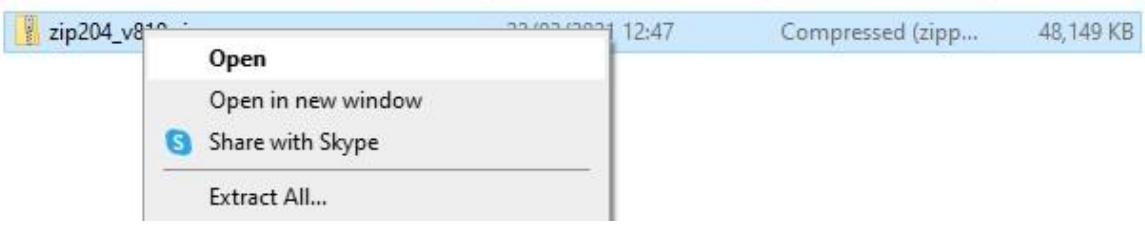
Disclaimer: Updating the firmware on your product carries a risk, if done incorrectly can lead to an unusable product. Please proceed at your own risk.

12.2 Updating Firmware - IP Camera

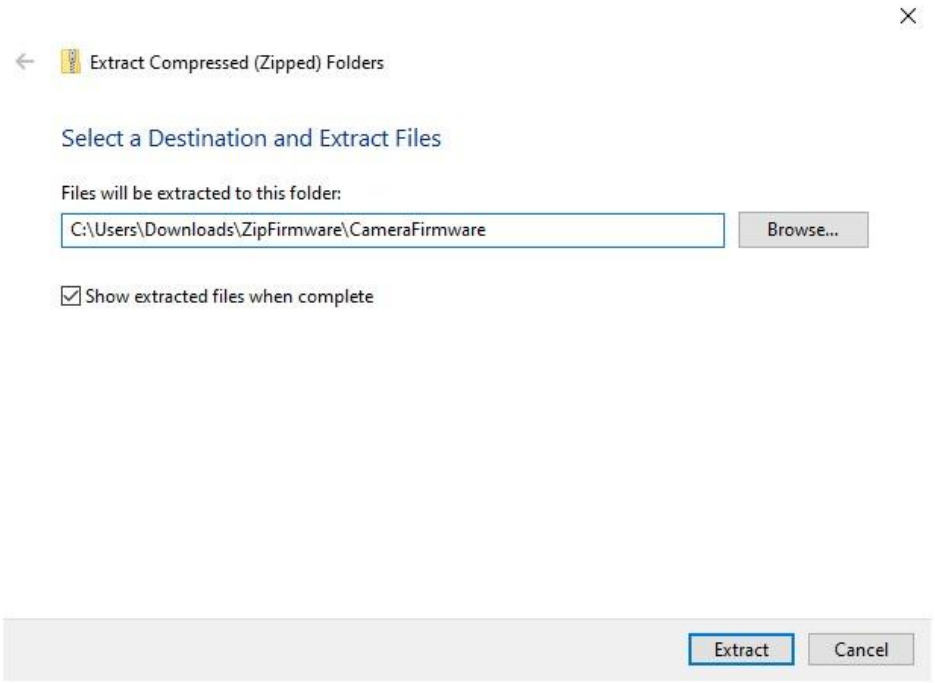
1. When you go to www.zipnvr.com/firmware.html, you will see a Download button. This button triggers the download as a zip file, you should download it to a Windows PC



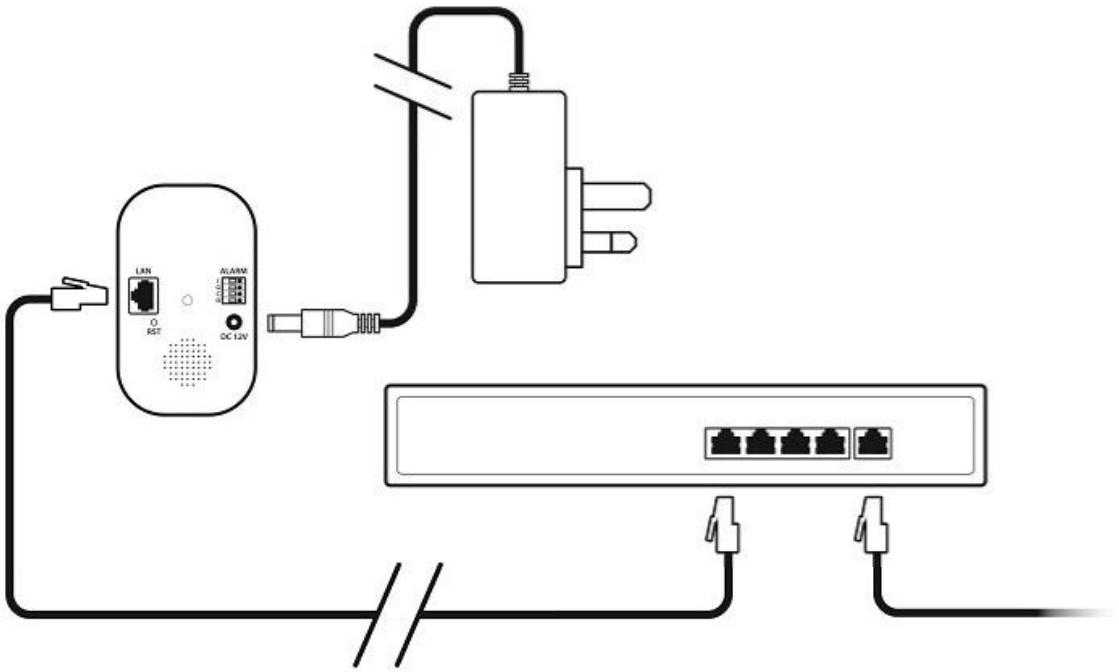
2. Right-click the file, then click Extract All



3. Select Extract

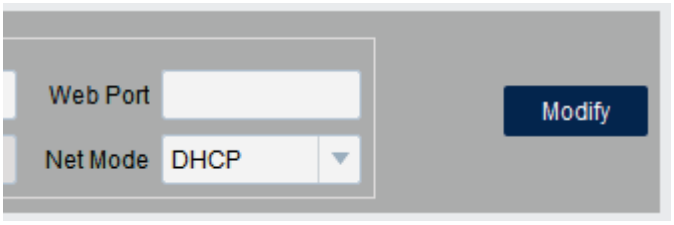


4. Plug the camera into 12V DC Power and plug the RJ45 with a network cable into a router/ switch



5. Using ZipFinder Search and then tick the Camera

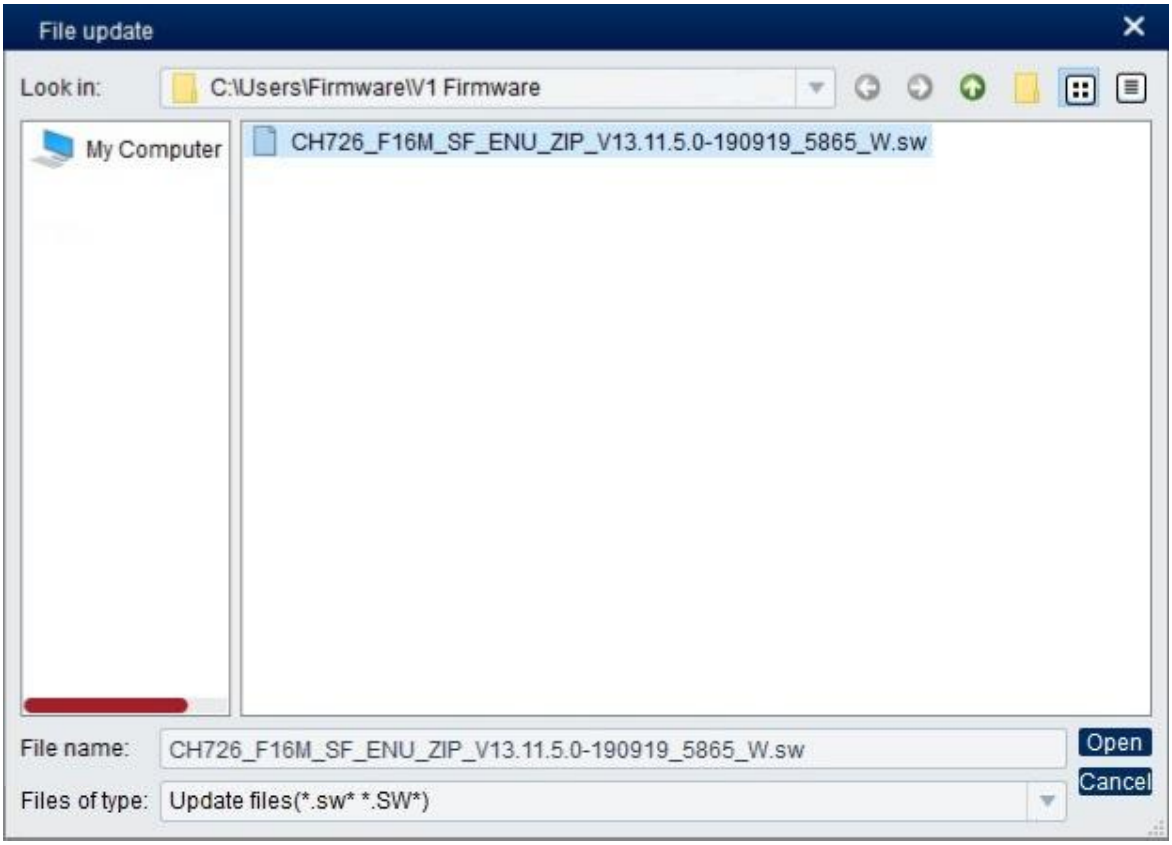
6. Select Net Mode : DCHP Then click Modify



7. Wait 20 seconds, then Search again for updated IP

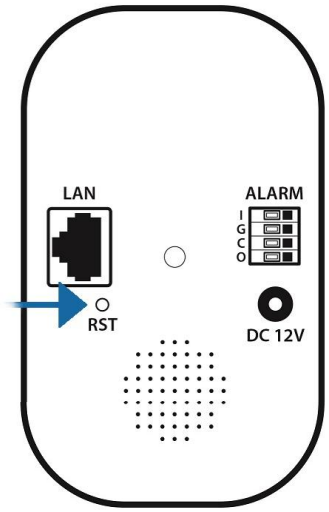
8. Select Upgrade (at the top) and tick the camera

9. Select Open then find the EXTRACTED (unzipped) V1 firmware.



10. Select Upgrade. DO NOT TURN THE CAMERA OFF, THE UPGRADE CAN TAKE UP TO 5 MINUTES

11. Default the camera by holding the Reset Button for 10 Seconds.



Troubleshooting

13.1 Unable to connect to 5G network segment

The RoomWatch camera only supports 2.4GHz WiFi, this error will occur if you try and connect to a 5GHz network.

Some modern routers that have both 2.4GHz and 5GHz bands use a technique called band steering to intelligently move your devices between the 2.4 GHz and 5 GHz network based on usage, speed, coverage and distance. Band steering may cause issues with connecting the RoomWatch camera to the network.

This will require the 2 bands to have different SSIDs. After the camera has been setup on WiFi, the band steering can be set back to the original setup.

13.1.1 Example (Sky Router)

Manually adjust the name of one of them so that you can tell them apart. Adding 5G or similar to the end of the 5GHz SSID would be sufficient.

1. On a browser type the IP of the router (sky = 192.168.0.1)

2. Go to Wireless then 5GHZ Wireless Setting

3. Add "5GHz " to the end of the SSID, then untick "Synchronise 2.4GHz and 5GHz Setting"

4. Click Apply

5. Once the RoomWatch has been setup on WiFi, then band steering can be set back to the original setup.

Note - For more detailed information on setting separate bands, then visit the router manufacturer website.

13.1.2 Example (BT Router)

1. On a browser type the IP of the router (BT = 192.168.1.254)

2. Go to Advanced Settings

3. Go to Wireless

4. Enter the admin password for your router

5. Move the "Separate bands" option to ON

6. Add "5GHz " to the end of the SSID

7. Select Save at the Top

8. Once you have set this, you may need to turn your mobile's WiFi Off then back On.

Note - For more detailed information on setting separate bands, then visit the router manufacturer website.

13.2 Issues Searching for Device to use with ZipPro

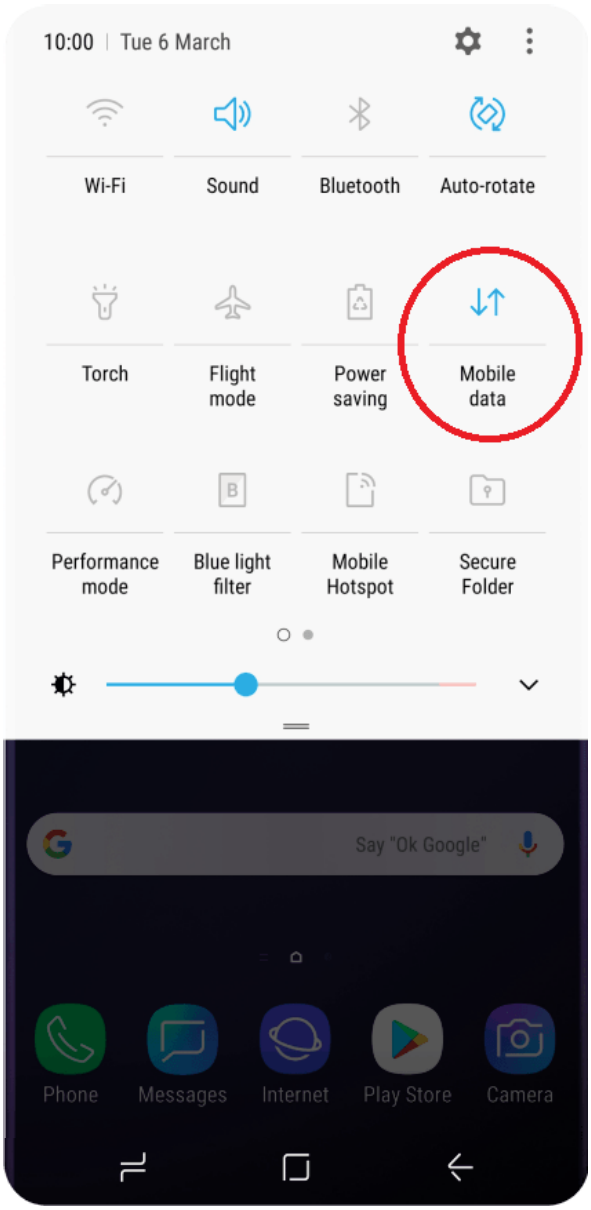
If after entering WiFi details in the app (Setup WiFi for the...) if the phone cannot select the RoomWatch then disabling mobile data temporarily can help.

During the setup the App connects to the RoomWatch to then connect to the WiFi Network.

As the RoomWatch doesn't provide internet access the phone may ignore the RoomWatch and connect back to mobile data or another network.

*Temporarily Disable Roaming - Swipe down from the top of the screen and disable mobile data with a single tap. *May differ depending on mobile phone*

Once the RoomWatch has been setup on WiFi, then Re-enable Roaming on the phone.

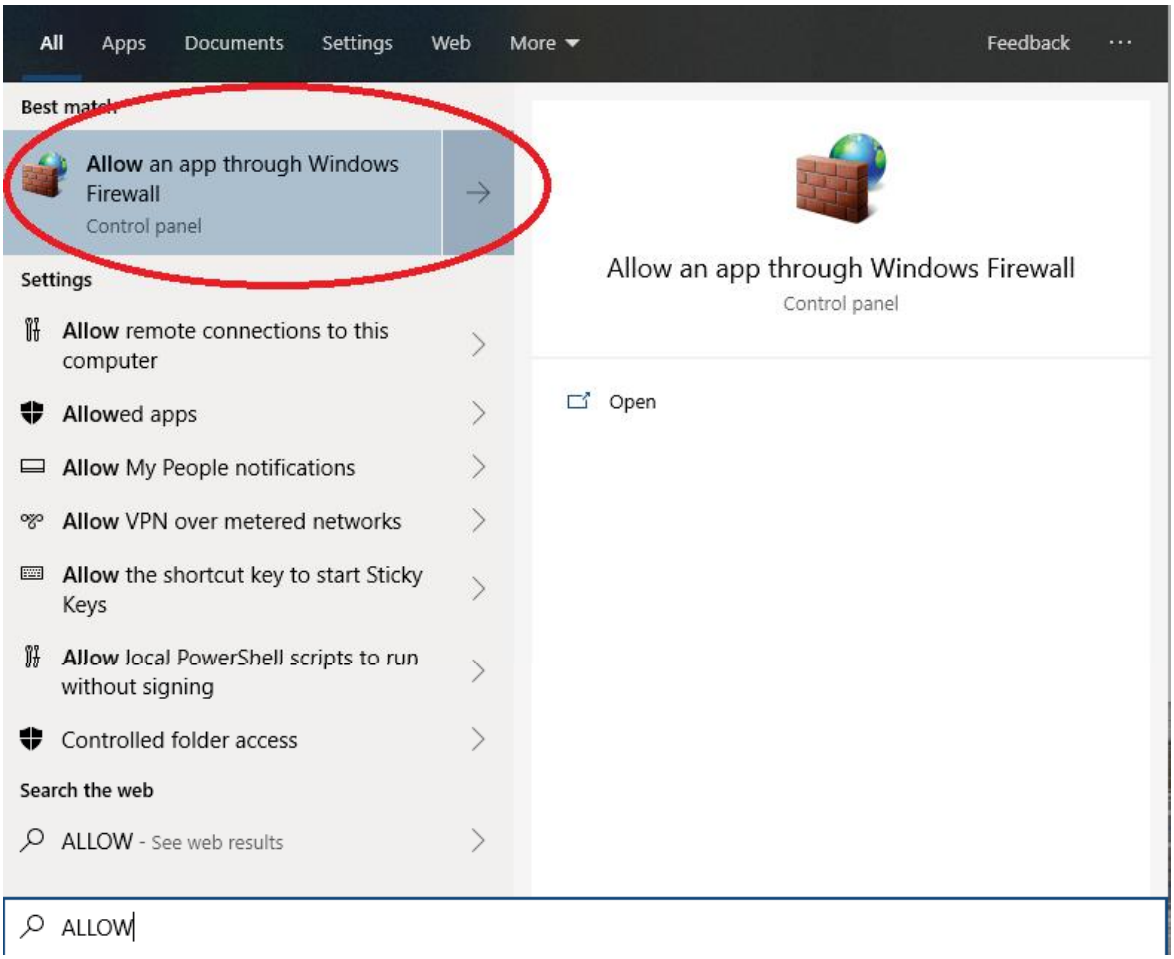


13.3 ZipFinder Search Not Updating Address of Camera

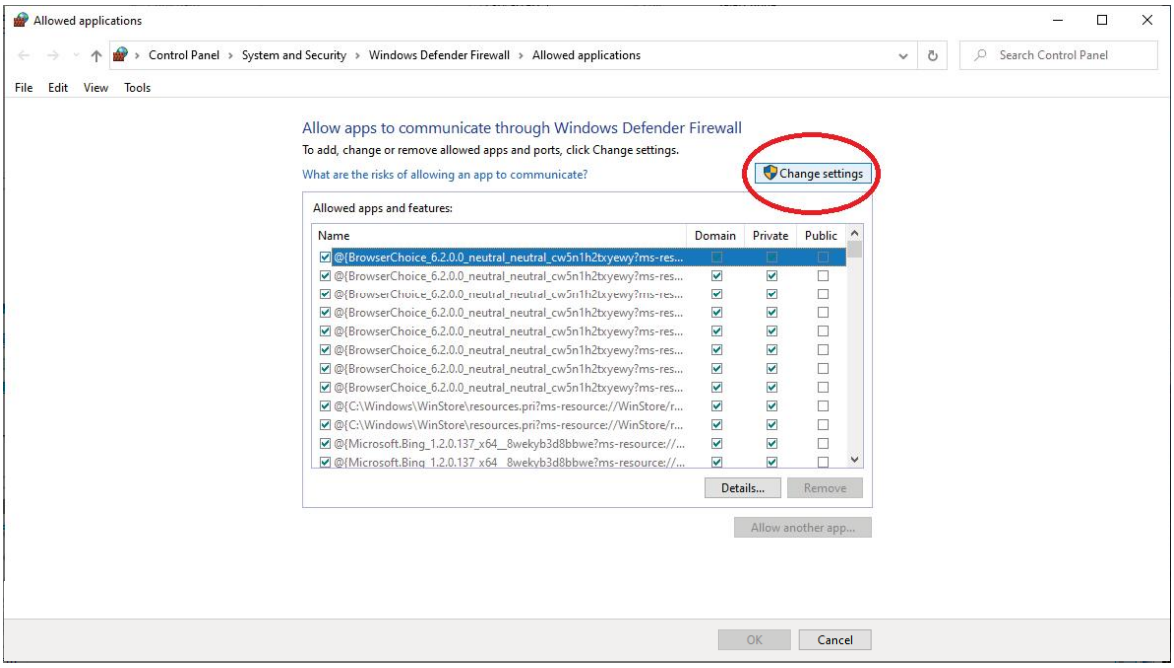
To search for the RoomWatch camera this software needs to be installed and also configured on you Windows PC.

If ZipFinder can't get an updated IP address or see the RoomWatch Camera then follow the steps below to allow ZipFinder through Windows Firewall:

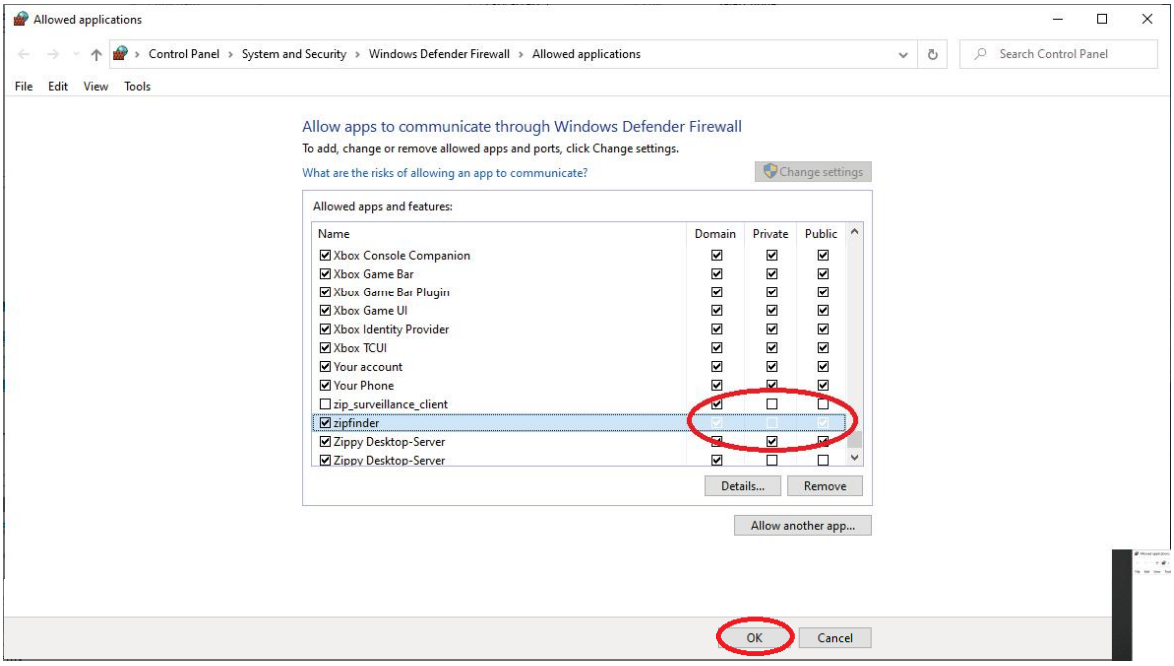
1. Search on Windows "Allow an app through Windows Firewall"



2. Select "Change Settings"



3. Search for “ZipFinder” and Tick to Allow “Public” & “Private” , Click “Ok”



5. Run ZipFinder and search for the RoomWatch Camera

Specification

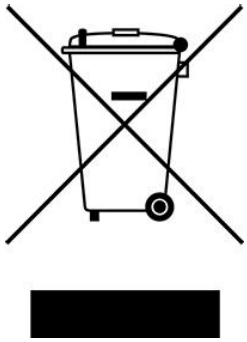
Lens Type	2.8mm Fixed Lens
Image Sensor	1/2.7 Inch 2MP Progressive CMOS
Viewing Angle	103 Degrees
Resolution	HD 1080P, 1.3MP (960H) & 720P @ 25fps
Video Compression	H265 / H264
Onvif	2.6
WiFi Frequency	2.4GHz
WiFi Range	10m
Bit Rate	8K ~ 8Mbps
Supported Protocols 1	TCP/IP / HTTP / DHCP / DNS / DDNS
Supported Protocols 2	RTP /RTSP / NTP / UPnP / HTTPS
Audio	2-Way Built-in
Audio Input	Bulit-in Microphone
Audio Output	Built-in Speaker
Alarm Inputs	1
Alarm Output	1
Alarm Connection	Terminal Strip
PIR	Bulit-In
Memory Card Slot	Micro SD (128GB Max)
InfraRed LEDs	12 (Smart IR)
IR Range	10m
Min. Illumination	0 Lux with LEDs on
Day/Night Function	Mechanical (True Day/Night)
Backlight Control	BLC / DWDR
Noise Reduction	3D DNR
Privacy Masking	4 Areas
White Balance	Auto / Manual
Input Voltage	12V DC (PSU Required) or PoE
Current Consumption	280mA (IR On) / 150mA (IR Off)
Power Connection	2.1mm DC Socket or PoE
Finish	White & Black
Operating Temperature	From -10 to 45 deg C
Use	Internal
Bracket	Supplied
Dimensions	(H)106mm x (W)63mm x (D)34mm

Conditions

15.1 General Company Disclaimer

All specifications are approximate. System Q Ltd reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.

15.2 WEEE Declaration



This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated WEE/CG0783SS collection point as defined by your local council.

15.3 Copyright

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