



ZIP AI IP Camera

IPCAI805

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1 Introduction

The ZIP AI Cameras provide triggering with smart detection features such as *line crossing*, *pedestrian detection*, *facial detection*.

Only one smart detection feature can be enabled at any given time.

Facial recognition can be set when connected to a compatible ZIP NVR with iSENSE firmware.

In order to use the ZIP AI cameras with a ZIP NVRs the latest iSENSE firmware is required, please see [Extra Resources](#)²⁷.

1.1 Key Features

- Alarm input and output*
- Audio input and output*
- Supports H264 and H265
- Supports ONVIF (Profile S, Profile G, Profile T)
- SD card*
- Perimeter intrusion
- Line crossing
- Pedestrian and vehicle detection
- Facial detection
- IP66 (*Excluding the IPCAI020*)

**On selected models*

1.2 Essential Tools and ZipFinder

To install this product you will need:

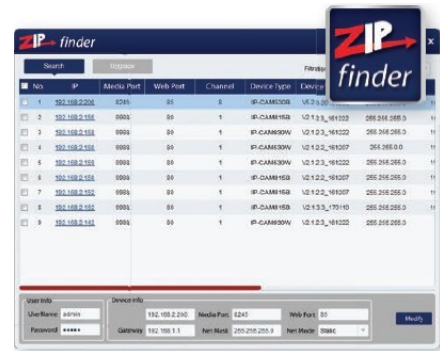
- Laptop / Windows PC
- Screwdriver
- Drill
- Hammer
- ZIP NVR or DVR
- PoE Switch / 12V DC power supply
- Ethernet CAT5/5e/6 Cable

ZipFinder - IP Camera Configuration Tool

ZipFinder is a Windows PC software for discovering and configuring IP cameras a network.

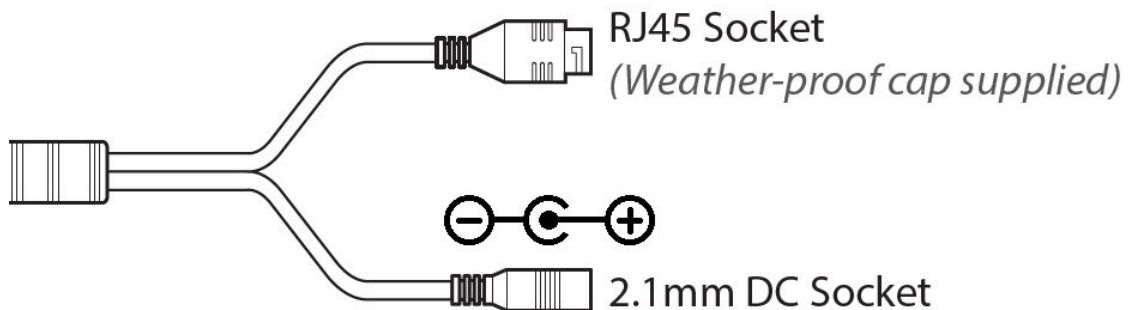
Use ZipFinder on non-PoE installs, to help problem solving issues such as forgotten or unknown IP Addresses.

To download visit ZipNVR.com



2 Connections and Dimensions

2.1 IPCA1808 Mini Eyeball 3.6mm



Powering the camera

Option 1 - Power the camera from 12V DC (via the 2.1mm DC Socket), the current consumption is 400mA. The camera is polarity sensitive so connections must be correctly made.

Option 2 - Power the camera using a PoE 48V RJ45 Socket

When connecting to a **ZIP PoE NVR** plug the camera directly into the NVRs built in PoE switch.



*Dimensions Exclude Bracket

3 Mounting and SD Card Installation

Note:-
IPCAI020 does not have an SD card slot.

For local recording on the camera itself an SD card must be installed.

Recording time will vary dependent upon: SD card size and encoding settings

32GB SD Card ≈ 31 hours

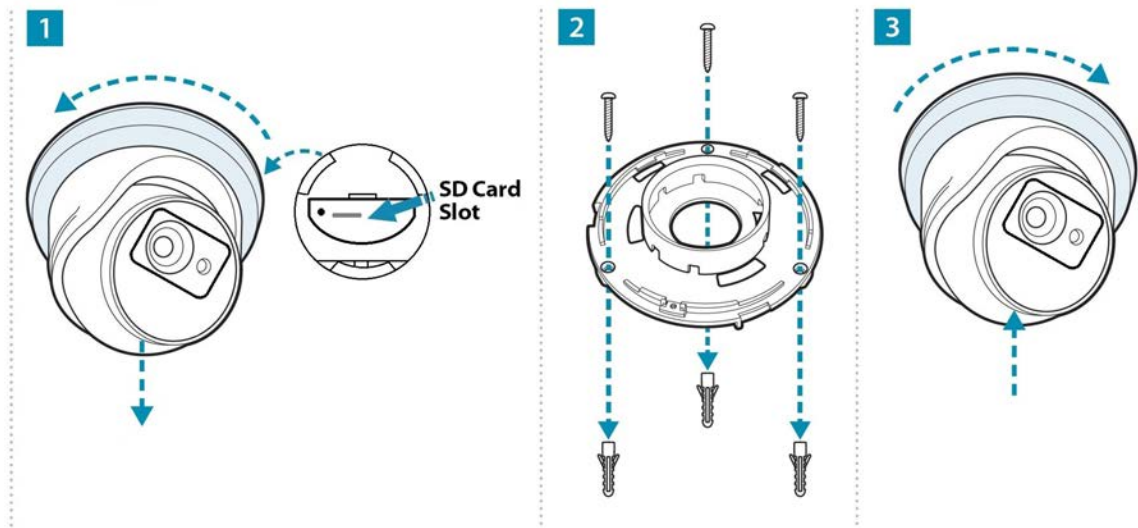
64GB SD Card ≈ 62 hours

128GB SD Card (MAX) ≈ 124 hours

The camera can be set to only record when triggered via *motion detection*, *alarm input* or *AI smart*, this maximises the recording time achievable.

Remove power from the camera when inserting / removing the SD card.

3.1 Eyeball



4 Setup Options

4.1 PoE ZIP NVR

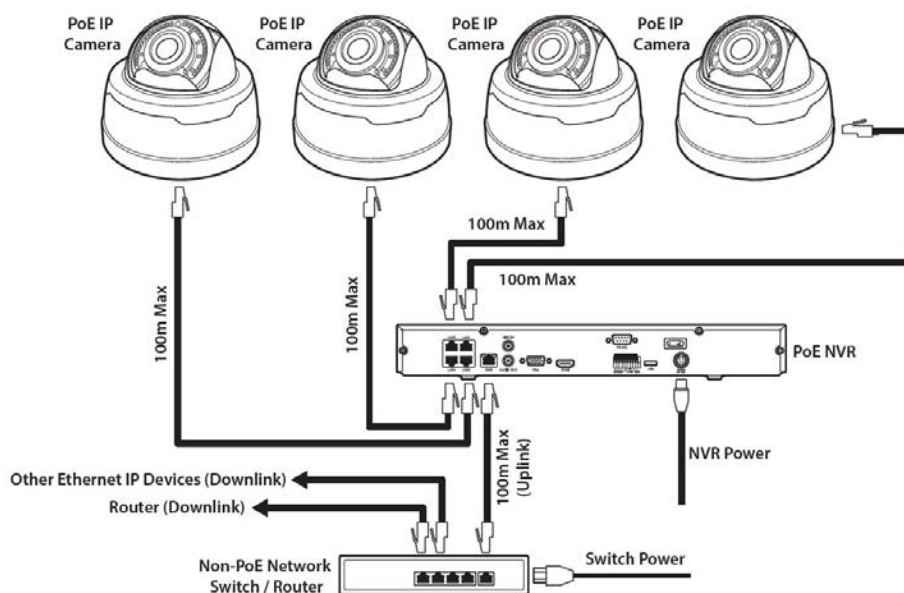
When connecting to a **ZIP PoE NVR** plug the camera directly into the NVR's built in PoE switch.

The camera should automatically become visible after being connected for approximately 1 minute.

The 100m distance for a camera can be increased when the PoE Mode is set to EPoE.

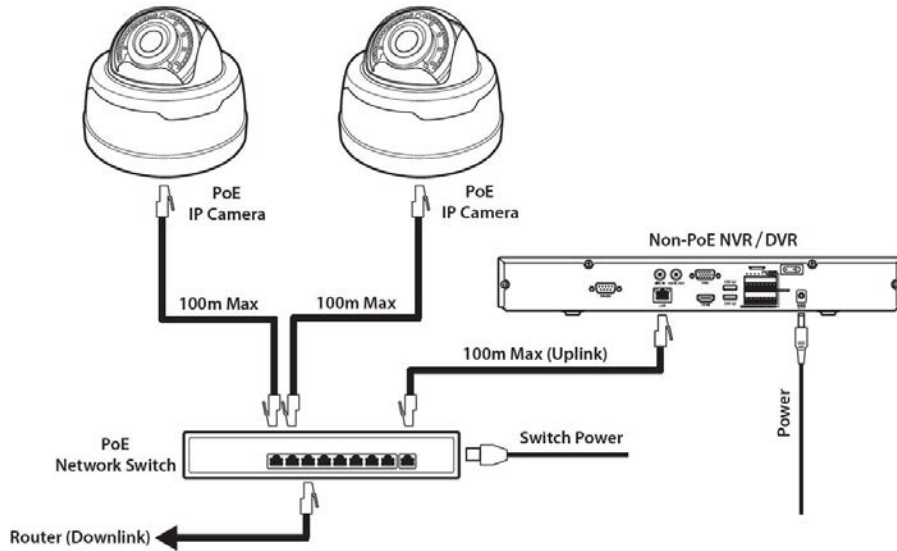
In the menu on a ZIP PoE NVR go to:-

Video > IP Channels > PoE Mode



4.2 Non-PoE ZIP NVR

When connecting cameras to a **Non-PoE NVR**, they are first connected to an external network switch which is in-turn connected to the NVR as shown below.



See [Extra Resources](#)²⁷ for more information on **Adding IP Cameras manually** to a ZIP Recorder.

5 Setup and AI Features

The AI smart features can be configured in a ZIP recorder or directly in the browser interface of the camera (standalone)

Only one smart detection feature can be enabled at any given time.

See the NVR or DVR manual for information on configuring these features with a ZIP recorder.

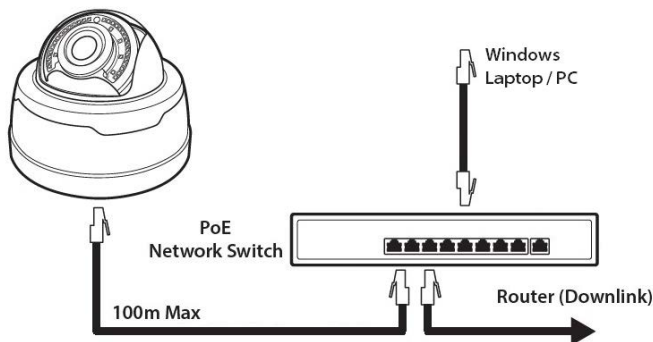
Follow the steps below for configuring the settings directly in the camera via a browser for standalone setup.

You will need...

- Windows Based PC/ Laptop connected to router/ PoE switch
- ZipVision Pro App on Mobile Device
- PoE Switch connected to Network/ Router
- Ethernet network cable
- [ZipFinder](#) software, available via this link below:-

www.softcctv.com/store/Item/Zip-Finder-IP-CCTV-Security-Camera-Discovery-Tool

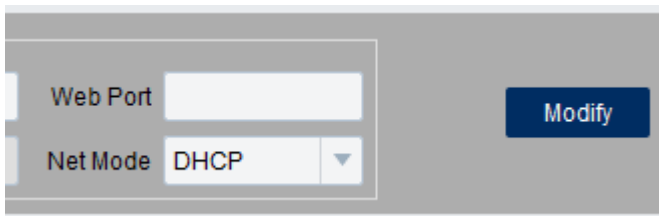
1. Plug the camera's RJ45 port with a network cable into a PoE switch



2. Using ZipFinder on a Windows Based PC/ Laptop **Search** and then tick the camera



3. Select Net Mode = **DCHP**, then click **Modify**



4. **Search** again, to get the updated IP address.

5. **Select** the IP address of the camera, Internet Explorer will pop-up, and ask to download and install the plug-in.

6. **Download, install** and follow the steps for the plug-in installation, then re-load the browser by **selecting** the IP address again.

5. Login to the IP Camera, the **default** login details are:-

| | |
|-----------|---------------|
| User Name | admin |
| Password | 777777 |

6. Go to **Remote Setting > Smart > Detection**

5.1 PID = Perimeter Intrusion Detection

Perimeter intrusion detection can be set to trigger an alarm event when movement is detected in a set area.

Smart ▸ Detection

PID
LCD
PD&VD
FD

Name Perimeter Intrusion Detection (PID)

Switch

Latch Time

Post Recording

Sensitive

Scene

Alarm Out

Send Email

Detection Type Pedestrian Vehicle


Rule Number

Rule Switch

Rule Type

Enable Record

Refresh
Save



Clear
Clean All

Key Settings

Switch - Tick to enable this feature.

Un-Tick to disable this feature.

Latch Time - This determines how long the alarm event is deemed to be activate once triggered. Options are 5, 10, 20 and 30 seconds.

Post Recording - This determines how long the camera will record for after the alarm event has ended. Options are 5, 10, 20 and 30 seconds.

Sensitivity - Determines how much activity or movement is required to generate an event. Options are **1 - 4**.

1 = Lowest sensitivity level, a significant amount of movement is needed to trigger

4 = Highest sensitivity level, only a small amount of moment is needed to trigger

Scene - Set for light level location to improve detection. Options are indoor or outdoor.

Send Email - Email alert via SMTP can be triggered and send a snapshot image of the event.
Note:- Email Settings required to be set up in Network Menu for this feature.

Rule Number - Up to 4 areas can be set independently in the image area. Use this to enable / disable each of the 4 rules.

Rule Switch - Tick to enable or disable the detection that rule for the rule number selected.

Rule Type - The determines how the direction of moment over the perimeter is handled.

A to B (A->B) = Only movement in the direction A to B will trigger.

B to A (B->A) = Only movement in the direction B to A will trigger.

A or B (A<->B) = Any moment direction over the perimeter will trigger.

Enable Record - Tick to enable recording when the event is triggered.

Un-Tick to disable recording when the event is triggered.

5.2 LCD = Line Crossing Detection


Line crossing detection can be set to trigger an alarm event when movement is detected across a custom line

Smart ▶ LCD

PID
LCD
PD&VD
FD

| | |
|----------------|--|
| Name | Line Crossing Detection (LCD) |
| Switch | <input checked="" type="checkbox"/> |
| Latch Time | <input type="text" value="5S"/> |
| Post Recording | <input type="text" value="5S"/> |
| Sensitive | <input type="text" value="2"/> |
| Scene | <input type="text" value="Indoor"/> |
| Alarm Out | <input checked="" type="checkbox"/> |
| Send Email | <input type="checkbox"/> |
| Detection Type | <input type="checkbox"/> Pedestrian <input type="checkbox"/> Vehicle |
| Rule Number | <input type="text" value="1"/> |
| Rule Switch | <input type="checkbox"/> |
| Rule Type | <input type="text" value="A → B"/> |
| Enable Record | <input type="checkbox"/> |

Refresh
Save



Clear
Clean All

Key Settings

Switch - Tick to enable this feature.

Un-Tick to disable this feature.

Latch Time - This determines how long the alarm event is deemed to be activate once triggered. Options are 5, 10, 20 and 30 seconds.

Post Recording - This determines how long the camera will record for after the alarm event has ended. Options are 5, 10, 20 and 30 seconds.

Sensitivity - Determines how much activity or movement is required to generate an event. Options are **1 - 4**

1 = Lowest sensitivity level, a significant amount of movement is needed to trigger

4 = Highest sensitivity level, only a small amount of moment is needed to trigger

Scene - Set for light level location to improve detection. Options are indoor or outdoor.

Send Email - Email alert via SMTP can be triggered and send a snapshot image of the event.
Note:- Email Settings required to be set up in Network Menu for this feature.

Detection Type - Tick to enable, options are pedestrian, vehicle. (Both can be enabled simultaneously)

Rule Number - Up to 4 areas can be set independently in the image area. Select the number to control the setting of that specific area.

Rule Switch - Tick to enable or disable the detection that rule for the rule number selected.

Rule Type - The determines how the direction of moment over the perimeter is handled.

A to B (A->B) = Only movement in the direction A to B will trigger.

B to A (B->A) = Only movement in the direction B to A will trigger.

A or B (A<->B) = Any moment direction over the perimeter will trigger.

Enable Record - Tick to enable recording when the event is triggered.

Un-Tick to disable recording when the event is triggered.


5.3 PD & VD = Pedestrian Detection and Vehicle Detection

Pedestrian detection and vehicle detection can be set to trigger an alarm event in a custom area when it detects pedestrians, vehicles or both.

Smart ▶ PD

PID
LCD
PD&VD
FD

| | | | |
|-----------------|--|-----------|--|
| Name | Pedestrian Detection(PD&VD) | | |
| Switch | <input checked="" type="checkbox"/> | | |
| Latch Time | <input type="text" value="5S"/> | | |
| Post Recording | <input type="text" value="5S"/> | | |
| Sensitivity | <input type="text" value="60"/> | | |
| Alarm Out | <input type="checkbox"/> | | |
| Send Email | <input type="checkbox"/> | | |
| Snap Mode | <input type="text" value="Interval Mode"/> | | |
| Snap Num | <input type="text" value="1"/> | | |
| Snap Frequency | <input type="text" value="2"/> | s/pic | |
| Min Pixel | <input type="text" value="64"/> | (64-1080) | |
| Detection Type | <input checked="" type="checkbox"/> Pedestrian <input checked="" type="checkbox"/> Vehicle | | |
| Detection Mode | <input type="text" value="Motion Mode"/> | | |
| Detection Range | <input type="text" value="Full Screen"/> | | |
| Enable Record | <input type="checkbox"/> | | |



Key Settings

Switch - Tick to enable this feature.

Un-Tick to disable this feature.

Latch Time - This determines how long the alarm event is deemed to be activate once triggered. Options are 5, 10, 20 and 30 seconds.

Post Recording - This determines how long the camera will record for after the alarm event has ended. Options are 5, 10, 20 and 30 seconds.

Sensitivity - Determines how much activity or movement is required to generate an event. Options are **1 - 4**

1 = Lowest sensitivity level, a significant amount of movement is needed to trigger

4 = Highest sensitivity level, only a small amount of moment is needed to trigger

Send Email - Email alert via SMTP can be triggered and send a snapshot image of the event.
Note:- Email Settings required to be set up in Network Menu for this feature.

Snap Mode - Set how the camera will capture thumbnail snapshots when triggered.

Default = Will only capture a snapshot when subjects are first detected. Additional thumbnail snapshots will only be captured if the subject leaves the camera's image and returns

Realtime: Only capture a snapshot from just before the subject leaves the image.

Interval Mode = Customize how many and how often thumbnail snapshots are captured using the **snap num** and **snap frequency** fields.

Snap Num - Set how many snapshots are captured for each event

1 = Will capture a single snapshot when the subject is first detected.

2 = Will capture a snapshot when the subject is first detected and one further snapshot at the interval as set by the snap frequency, if the subject is still present.

3 = Will capture a snapshot when the subject is first detected and two further snapshots, one further snapshot at the interval as set by the snap frequency, if the subject is still present.

Unlimited = Will continuously capture a snapshot at the interval as set by the snap frequency, if the subject is still present.

Snap Frequency - Customise how often the camera will capture a snapshot (in seconds), this is a timer which will remain active as long as the subject is present. If the subject leaves the camera's image and returns a snapshot will be captured and the timer will reset.

Min Pixel - Set the minimum trigger size, this can be set as a minimum width between 64 pixels to 1080 pixels. Customize the size depending on how far away the camera is away from the subject.

Detection Type - Tick to enable, options are pedestrian and vehicle. (Both can be enabled simultaneously)

Detection Mode - How the detection will handle motion and stationary objects.

Motion mode = Will only detect moving subjects.

Static mode = Will detect moving subjects but also stationary pedestrians and vehicles are in the alarm area.

Detection Range - Set the detection area for the image

Customize = Customise a defined detection area

Full Screen = Set to Monitor the entire image

Enable Record - Tick to enable recording when the event is triggered.

Un-Tick to disable recording when the event is triggered.

5.4 FD = Facial Detection

Facial detection can be set to trigger an alarm event in a custom area when it detects a face/


AI Face Recognition is available on these model NVRs:- ZIP108, ZIP116, ZIP208, ZIP308, ZIP216 and ZIP226.

Smart ▸ FD

PID
LCD
PD&VD
FD

| | | |
|-----------------|--|-----------|
| Name | Face Detection(FD) | |
| Switch | <input checked="" type="checkbox"/> | |
| Latch Time | <input type="text" value="5S"/> | ▼ |
| Post Recording | <input type="text" value="5S"/> | ▼ |
| Alarm Out | <input type="checkbox"/> | |
| Send Email | <input type="checkbox"/> | |
| Face Enhance | <input checked="" type="checkbox"/> | |
| Snap Mode | <input type="text" value="Interval Mode"/> | ▼ |
| Apply Mode | <input type="text" value="Frontal View"/> | ▼ |
| Snap Num | <input type="text" value="1"/> | ▼ |
| Snap Frequency | <input type="text" value="2"/> | s/pic |
| Min Pixel | <input type="text" value="32"/> | (32-1080) |
| Detection Mode | <input type="text" value="Motion Mode"/> | ▼ |
| Rule Kind | <input type="text" value="Rect"/> | ▼ |
| Detection Range | <input type="text" value="Customize"/> | ▼ |
| Enable Record | <input type="checkbox"/> | |

Refresh
Save



Key Settings

Switch - Tick to enable this feature.

Un-Tick to disable this feature.

Latch Time - This determines how long the alarm event is deemed to be activate once triggered. Options are 5, 10, 20 and 30 seconds.

Post Recording - This determines how long the camera will record for after the alarm event has ended. Options are 5, 10, 20 and 30 seconds.

Send Email - Email alert via SMTP can be triggered and send a snapshot image of the event. Note:- Email Settings required to be set up in Network Menu for this feature.

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Snap Mode - Set how the camera will capture thumbnail snapshots when triggered.

Default = Will only capture a snapshot when subjects are first detected. Additional thumbnail snapshots will only be captured if the subject leaves the camera's image and returns

Realtime: Only capture a snapshot from just before the subject leaves the image.

Interval Mode = Customize how many and how often thumbnail snapshots are captured using the **snap num** and **snap frequency** fields.

Snap Num - Set how many snapshots are captured for each event

1 = Will capture a single snapshot when the subject is first detected.

2 = Will capture a snapshot when the subject is first detected and one further snapshot after the period of time specified in the snap frequency field if the subject is still present.

3 = Will capture a snapshot when the subject is first detected and two further snapshots, one further snapshot after the period of time specified in the snap frequency field if the subject is still present.

Unlimited = Will continuously capture a snapshot at the interval as set by the snap frequency, if the subject is still present.

Snap Frequency - Customise how often the camera will capture a snapshot (in seconds), this is a timer which will remain active as long as the subject is present. If the subject leaves the camera's image and returns a snapshot will be captured and the timer will reset.

Apply Mode - Customise the face detecting viewing angle for the most accurate face detection.

Frontal View - The camera optimizes the detection for straight on.

Multi Angle - The camera detects faces at various angles.

Customise - Customise to set up bespoke detection angles/

Roll Range - How far somebody can tilt their head (ear towards their shoulder) and still be detected as a face. Set the angle from 0 degrees so that a face would have to be straight to 180 degrees so that the face can be tilted 90 degrees to either side.

Pitch Range - How far a person can look up or down and still be detected. At 0 degrees the subject would have to be looking directly at the camera. At 180 degrees the subject can be looking towards the ground or towards the sky and could still be detected.

Yaw Range - How far somebody can be looking to the side and still be detected. At 0 degrees the subject would have to be looking directly at the camera. At 180 degrees the subject can be side on to the camera and could still be detected.

Min Pixel - Set the minimum trigger size, this can be set as a minimum width between 64 pixels to 1080 pixels. Customize the size depending on how far away the camera is away from the subject.

Detection Mode - How the detection will handle motion and stationary objects.

Motion mode = Will only detect moving subjects.

Static mode = Will detect moving subjects but also stationary pedestrians and vehicles are in the alarm area.

Rule Kind - Set to trigger an alarm event when a face is detected in a set area or set to trigger an alarm event when a face is detected across a custom line.

Rect - Face detection within a set area.

To create a custom detection area;

1. Set the **rule kind** drop down list to **rect**.
2. Set the **detection area** drop down list to **customise**.
3. Click on the camera's image to set the top left corner of the detection area.
4. Click the position to set the bottom left corner.
5. Click the position to set the bottom right corner.
6. Click to set the top right corner of the detection area.

Line - Face detection across a custom line. Customise the direction the line is crossed before a capture so the camera will monitor for face on entry or as people exit.

To set up line crossing face detection follow these steps:

1. Set the **rule kind** drop down list to **line**.
2. Click on the camera's image to start the line crossing.
3. Click to stop the line crossing.
4. Finally select which direction a person crosses the line before face detection is triggered from the **rule type** drop down list, from side **A** to **B** (**A->B**) or from side **B** to **A** (**B->A**).

Detection Range - Set the detection area for the image.

Customize = Customise a defined detection area

Full Screen = Set to Monitor the entire image

Enable Record - Tick to enable recording when the event is triggered.

Un-Tick to disable recording when the event is triggered.

6 Browser Menu Settings

The menu be configured directly in the browser interface of the camera (standalone), in Remote Setting you will find the menu settings.

| | | | | |
|-----------|-----------------|--------------------------|---|-------------------------------|
| Camera | OSD Menu | Name | Customise Name | |
| | | Flicker Control | 50Hz / 60Hz | |
| | | Transparency | 1 ~ 128 (Default 64) | |
| | | Show Name | Untick / Tick | |
| | | Show Time | Untick / Tick | |
| | | Refresh / Save | | |
| | Camera Settings | IR-CUT Mode | Auto / Colour Mode / Black White Mode / Schedule (B/W) | |
| | | IR-CUT Delay | 1 ~ 36 (Default 2) | |
| | | IR-LED | Auto / Off / On | |
| | | Flip | Untick / Tick | |
| | | Mirror | Untick / Tick | |
| | | Corridor Mode | Untick / Tick | |
| | | Angle Rotation | 180 / 0 | |
| | | Backlight | Untick / Tick | |
| | | 3D Noise Reduction | Auto / Disable / Manual | |
| | | DWDR | Untick / Tick | |
| | | HLC | Untick / Tick | |
| | | AGC | 1 ~ 128 (Default 64) | |
| | | White Balance | Auto / Manual / Indoor | |
| | | Shutter | Auto / Manual | |
| | | Time Exposure (max) | 1/5 / 1/8 / 1/15 / 1/25 / 1/50 / 1/100 / 1/150 / 1/180 / 1/200 / 1/240 / 1/250 / 1/300 / 1/360 / 1/480 / 1/500 / 1/600 / 1/700 / 1/1000 / 1/1500 / 1/2500 / 1/5000 / 1/10000 / 1/12000 / 1/20000 / Flickerless | |
| | | Defog Mode | Disable / Auto / Manual | |
| | | Refresh / Save / Default | | |
| | Privacy Mask | Privacy Mark | Untick / Tick | |
| | | Refresh / Save | | |
| | ROI | Stream Type | MainStream / SubStream / MobileStream | |
| | | Region ID | 1 ~ 8 | |
| | | Enable Region | Disable / Enable | |
| | | ROI Level | Worst / worse / bad / normal / better / best | |
| | | Non-ROI Fps (1-19) | 12 | |
| | | Refresh / Save | | |
| | Record | Record Settings | Stream Mode | MainStream / SubStream |
| | | | Record | Tick / Untick |
| PreRecord | | | Tick / Untick | |

| | | | | | |
|------------------|--|---------------------------|--|------------|---|
| | Normal Schedule | Customise Schedule | | | |
| | | Refresh / Save / Default | | | |
| | Event Schedule | Customise Schedule | | | |
| | | Refresh / Save / Default | | | |
| Capture | Capture | Normal Interval | 5S / 10S / 30S / 1Min / 10Min / 30Min / 1Hour | | |
| | | Alarm Interval | 5S / 10S / 30S / 1Min / 10Min / 30Min / 1Hour | | |
| | | Auto Capture | Untick / Tick | | |
| | | Manual Capture | Untick / Tick | | |
| | | | Refresh / Save | | |
| | Capture Schedule | Customise Schedule | | | |
| Network | Network | Type | DCHP / PPPoE / Static | | |
| | | Client Port | 8240 | | |
| | | HTTP Port | 80 | | |
| | | IP Address | 192.168.10.1 | | |
| | | Subnet Mask | 255.255.255.0 | | |
| | | Gateway | 192.168.10.254 | | |
| | | DNS 1 | 192.168.10.254 | | |
| | | DNS 2 | Untick / Tick | | |
| | | UPNP | Untick / Tick | | |
| | | Multicast | Untick / Tick | | |
| | | P2P Switch | Untick / Tick | | |
| | | Port Range | 1024 ~ 65535 (Client Port, HTTP Port) | | |
| | | | Refresh / Save | | |
| | | Encoding | Mainstream | Resolution | 3840x2160 / 3072x1728 / 2592x1944 / 2592x1520 / 2304x1296 / 1920x1080 / 1280x720 |
| | | | | FPS | 1 ~ 20 (Default 12) |
| Video Code Type | H.264 / H.265 | | | | |
| Video Code Level | Main Profile / Baseline / High Profile | | | | |
| Bitrate Control | CBR / VBR | | | | |
| Bitrate Mode | Predefined / User Defined | | | | |
| Bitrate | 256 / 320 / 384 / 448 / 512 / 640 / 768 / 896 / 1024 / 1280 / 1536 / 1792 / 2048 / 3072 / 4096 / 5120 / 6144 / 8192 / 10240 / 12288 | | | | |
| Audio | Untick / Tick | | | | |
| I Frame Interval | 1 ~ 80 (Default 24) | | | | |
| | Refresh / Save | | | | |

| | | | | |
|--------------|------------------|------------------|---|--|
| | SubStream | Resolution | 1920x1080 / 1280x720 / 640x480 / 320x240 | |
| | | FPS | 1 ~ 20 (Default 10) | |
| | | Video Code Type | H.264 / H.265 | |
| | | Video Code Level | Main Profile / Baseline / High Profile | |
| | | Bitrate Control | CBR / VBR | |
| | | Bitrate Mode | Predefined / User Defined | |
| | | Bitrate | 128 / 160 / 192 / 224 / 256 / 320 / 384 / 448 / 512 / 640 / 768 / 896 / 1024 / 1280 / 1536 / 1792 / 2048 / 3072 / 4096 | |
| | | Audio | Untick / Tick | |
| | | I Frame Interval | 1 ~ 80 (Default 20) | |
| | | Refresh / Save | | |
| | | MobileStream | Enable | Tick / Untick |
| | | | Resolution | 640x480 / 320x240 |
| | | | FPS | 1 ~ 20 (Default 10) |
| | | | Video Code Type | H.265 / H.264 |
| | | | Video Code Level | Main Profile / Baseline / High Profile |
| | | | Bitrate Control | CBR / VBR |
| | | | Bitrate Mode | Predefined / User Defined |
| | | | Bitrate | 8 / 16 / 24 / 32 / 48 / 64 / 80 / 96 / 128 / 160 / 192 / 224 / 256 / 320 / 384 / 448 / 512 / 640 / 768 / 896 / 1024 / 1280 / 1536 |
| | | | Audio | Untick / Tick |
| | I Frame Interval | | 1 ~ 80 (Default 20) | |
| | Refresh / Save | | | |
| | Email Settings | Email | Untick / Tick | |
| | | Encryption | Disable / SSL / TLS / Auto | |
| | | SMTP Port | 25 / Customise | |
| | | SMTP Server | Customise | |
| | | User Name | Customise | |
| | | Password | Customise | |
| Sender Email | | Customise | | |
| Receiver1 | | Customise | | |
| Receiver2 | | Customise | | |

| | | | | | |
|-------|------------------|---|--|----------------------|--|
| | | Receiver3 | Customise | | |
| | | Interval | 1Min / 3Min / 5Min / 10Min | | |
| | | Refresh / Save / Test Email / Cancel | | | |
| | ZIP DDNS | DDNS | Untick / Tick | | |
| | | Server | NO_IP / DYNDNS | | |
| | | Host Name | Customise | | |
| | | Username | Customise | | |
| | | Password | Customise | | |
| | IP Filter | Refresh / Save / Add / Del | | | |
| | | Filter Mode | Allow all IP connections / Allow the selected IP connections / Block the selected IP connections | | |
| | RTSP Port | RTSP | Tick / Untick | | |
| | | RTSP Port | 1240 / Customise | | |
| | | Anonymous Login | Untick / Tick (No username or password required) | | |
| | | Instruction: rtsp://IP:Port/ch01/A A:0(MainStream), 1(SubStream), 2(MobileStream) | | | |
| | | Refresh / Save | | | |
| Alarm | Motion Detection | Enable | Untick / Tick | | |
| | | Sensitivity | 1 ~ 8 (Default 3) | | |
| | | Alarm Out | Untick / Tick | | |
| | | Latch Time | 5S / 10S / 20S / 30S | | |
| | | Post Recording | 5S / 10S / 20S / 30S | | |
| | | Send Email | Untick / Tick | | |
| | | Enable Record | Tick / Untick | | |
| | | Refresh / Save | | | |
| | Alarm Settings | Alarm Input | OFF / NC / NO | | |
| | | Latch Time | 5S / 10S / 20S / 30S | | |
| | | Send Email | Untick / Tick | | |
| | | Alarm Out | Untick / Tick | | |
| | | Enable Record | Untick / Tick | | |
| | | Post Recording | 0S / 5S / 10S / 20S / 30S | | |
| | Refresh / Save | | | | |
| | Lens | Enable | Tick / Untick | | |
| | | Sensitivity | 1 ~ 6 (Default 3) | | |
| | | Send Email | Untick / Tick | | |
| | | Alarm Out | Untick / Tick | | |
| | | Latch Time | 5S / 10S / 20S / 30S | | |
| | | Refresh / Save | | | |
| | Device | SD Card | SD Card | Auto / Close | |
| | | | Overwrite | | |
| | | | Refresh / Save | | |
| | | Audio Settings | Enable Audio | Untick / Tick | |
| | | | Output Volume | 0 ~ 10 (Default 5) | |
| | | | Input Volume | 0 ~ 10 (Default 5) | |

| | | | | | |
|-------------------|---------------------|-------------------------|--------------------------------------|---------------|--|
| | | Audio Code Type | G711A / G711U / G726 16K | | |
| | | Refresh / Save | | | |
| | Log | Major Type | Selectable | Search | |
| | | Start Time | Selectable | | |
| | | End Time | Selectable | | |
| System | Date/ Time | System Time | Customise | | |
| | | Date Format | DD/MM/YYYY / YYYY/MM/DD / MM/DD/YYYY | | |
| | | Time Format | 24Hour / 12Hour | | |
| | | DST / NTP / Synchronize | | | |
| | | Daylight Saving Time | Tick / Untick | | |
| | | Daylight Saving Time | Week / Date | | |
| | | Time Offset | 1Hour / 2Hour | | |
| | | Start Time | Customise | | |
| | | End Time | Customise | | |
| | | Refresh / Save | | | |
| | Users | Select User | Username | Customise | |
| | | | Password | Customise | |
| | | | Confirm | Customise | |
| | | | Active | Tick / Untick | |
| | | | Password | Tick / Untick | |
| | Refresh / Save | | | | |
| | Info | Device Name | | | |
| | | Serial No. | | | |
| | | Hardware Version | | | |
| | | Software Version | | | |
| IE Client Version | | | | | |
| MAC Address | | | | | |
| Refresh | | | | | |
| Tools | Firmware Update | Upgrade file path | | | |
| | | Scan | | | |
| | | Upgrade | | | |
| | Load Default | Camera | Tick / Untick | | |
| | | Record | Untick / Tick | | |
| | | Network | Untick / Tick | | |
| | | Alarm | Untick / Tick | | |
| | | Device | Tick / Untick | | |
| | | System | Tick / Untick | | |
| | | Tools | Tick / Untick | | |
| | | Smart | Tick / Untick | | |
| | Simple / All / Save | | | | |
| | Reboot | Auto Reboot | Untick / Tick | | |
| Reboot | | Customise | | | |

| | | | | | |
|-------|-------------------|--------------------------------|----------------|-------------------------------------|--|
| | | Refresh / Save / Reboot | | | |
| | Import and Export | Import File | Scan / Import | | |
| | | Export Path | Scan / Import | | |
| Smart | Detection | PID | Name | Perimeter Intrusion Detection (PID) | |
| | | | Switch | Untick / Tick | |
| | | | Latch Time | 5S / 10S / 20S / 30S | |
| | | | Post Recording | 5S / 10S / 20S / 30S | |
| | | | Sensitive | 1 / 2 / 3 / 4 | |
| | | | Scene | Indoor / Outdoor | |
| | | | Alarm Out | Tick / Untick | |
| | | | Send Email | Untick / Tick | |
| | | | Detection Type | Pedestrian &/or Vehicle | |
| | | | Rule Number | 1 / 2 / 3 / 4 | |
| | | | Rule Switch | Untick / Tick | |
| | | | Rule Type | A>B / A<B / A<>B | |
| | | | Enable Record | Untick / Tick | |
| | | | Refresh / Save | | |
| | | | LCD | Name | Line Crossing Detection (LCD) |
| | | | | Switch | Untick / Tick |
| | | | | Latch Time | 5S / 10S / 20S / 30S |
| | | | | Post Recording | 5S / 10S / 20S / 30S |
| | | | | Sensitive | 1 / 2 / 3 / 4 |
| | | | | Scene | Indoor |
| | | | | Alarm Out | Tick / Untick |
| | | | | Send Email | Untick / Tick |
| | | | | Detection Type | Pedestrian &/or Vehicle |
| | | | | Rule Number | 1 / 2 / 3 / 4 |
| | | | | Rule Switch | Untick / Tick |
| | | | | Rule Type | A>B / A<B / A<>B |
| | | | | Enable Record | Untick / Tick |
| | | | | Refresh / Save | |
| | | | PD & VD | Name | Pedestrian Detection (PD&VD) |
| | | | | Switch | Untick / Tick |
| | | | | Latch Time | 5S / 10S / 20S / 30S |
| | | | | Post Recording | 5S / 10S / 20S / 30S |
| | | | | Sensitive | 0 ~ 100 (Default 60) |
| | | | | Alarm Out | Untick / Tick |
| | | | | Send Email | Untick / Tick |
| | | | | Snap Mode | Interval Mode / Realtime Mode / Default |
| | Snap Num | 1 / 2 / 3 / Unlimited | | | |
| | Snap Frequency | 2 / customise | | | |
| | Min Pixel | 64 ~ 1080 (Default 64) | | | |

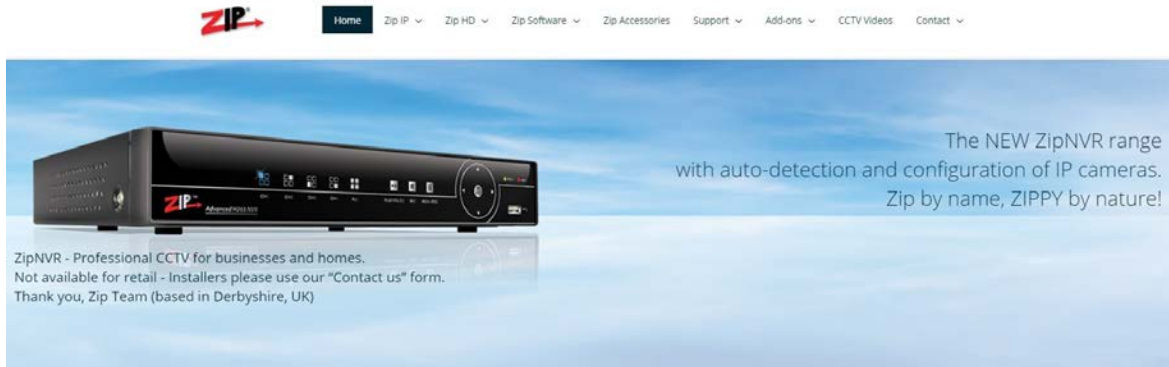
| | | | | |
|--|--|----|-----------------|---|
| | | | Detection Type | Pedestrian &/or Vehicle |
| | | | Detection Mode | Motion Mode / Static Mode |
| | | | Detection Range | Full Screen / Customize |
| | | | Enable Record | Untick / Tick |
| | | | Refresh / Save | |
| | | FD | Name | Face Detection (FD) |
| | | | Switch | Untick / Tick |
| | | | Latch Time | 5S / 10S / 20S / 30S |
| | | | Post Recording | 5S / 10S / 20S / 30S |
| | | | Sensitive | 0 ~ 100 (Default 60) |
| | | | Alarm Out | Untick / Tick |
| | | | Send Email | Untick / Tick |
| | | | Face Enhance | Tick / Untick |
| | | | Snap Mode | Interval Mode / Realtime Mode / Optimal Mode |
| | | | Apply Mode | Frontal View / Multi Angle / Customize |
| | | | Snap Num | 1 / 2 / 3 / Unlimited |
| | | | Snap Frequency | 2 / customize |
| | | | Min Pixel | 32 ~ 1080 (Default 32) |
| | | | Detection Mode | Motion Mode / Static Mode |
| | | | Rule Kind | Rect / Line |
| | | | Detection Range | Full Screen / Customize |
| | | | Enable Record | Untick / Tick |
| | | | Refresh / Save | |

7 Extra Resources

7.1 ZipNVR.com Website

The Zip NVR has a range of information on the cameras and NVRs, manuals, software, tools and support:-

www.zipdvr.com



7.2 Adding IP Cameras

How to guide on Adding IP Cameras:-

www.zipdvr.com/howto/TIP459-How-To-Add-IP-Cameras.html

7.3 ZIP Firmware

Firmware for the ZIP products are available online:-

www.zipdvr.com/firmware.html

Compare the firmware in the product against that available online.

AI Face Recognition is available on these model NVRs:- ZIP108, ZIP116, ZIP208, ZIP308, ZIP216 and ZIP226.

8 General Maintenance

- Routinely clean the camera to prevent dust build up as this can effect the performance of the camera. It is recommended to use a damp non-abrasive microfibre cloth.
- Routinely check the connections for power and data to ensure no water ingress and corrosion.
- Check that the cameras are firmly attached to the wall or mounting bracket.
- Check playback in the recorder to ensure the camera is recording and triggering properly.

9 Specification

9.1 IPCA1808

| | |
|-------------------------|--|
| Image Sensor | 1/2.8" Progressive CMOS |
| Resolution | 8MP 2592(H)×1944(V) |
| Lens Type | 3.6mm Fixed |
| Shutter | 1/5 ~ 1/20000s |
| Day/Night | Mechanical (True Day-Night) |
| Min. Illumination | 0 (With IR On) |
| IR Range | Up to 30m |
| Digital Noise Reduction | 3D DNR |
| Video Compression | H.264 / H.265 |
| Video Bitrate | 8Kbps ~ 16Mbps |
| Stream Options | Mainstream, SubStream & MobileStream |
| Smart Feature | Perimeter Intrusion, Line Crossing, Pedestrian and Vehicle Detection, Facial Detection, Facial Recognition |
| System Compatibility | ONVIF (Profile S, Profile G) |
| Connection | RJ45 10M / 100M Ethernet PoE |
| SD Card | Micro SD Card Slot (up to 128GB) |
| Alarm | No Alarm |
| Audio (RCA) | No Audio |
| Input Voltage | PoE or 12V DC 400mA (PSU Required) |
| Consumption | 8W Max |
| Operating Temperature | From -30 to 60 deg°C |
| Backlight Control | BLC / D-WDR |
| Use | IP66 For External Use |

10 Conditions

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.



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.

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