





ZIP AI IP Camera

IPCAI020

© 2021 System Q Ltd

ZipNVR.com

Table of Contents

1 Key Features 1 2 Essential Tools and ZipFinder 1 Part 2 Connections and Dimensions 3 1 IPCAI020 Module 3.7mm Pinhole 3 Part 3 Setup Options 4 1 PoE ZIP NVR 4 2 Non-PoE ZIP NVR 5 Part 4 Setup and Al Features 6 1 PID = Perimeter Intrusion Detection 8 2 LCD = Line Crossing Detection 10 3 PD & VD = Pedestrian Detection and Vehicle Detection 12 4 FD = Facial Detection 15 Part 5 Browser Menu Settings 19 Part 6 Extra Resources 26 1 ZipNVR.com Website 26 2 Adding IP Cameras 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCA1020 28 Part 9 Conditions 29 Index 30	Part 1	Introduction	1
Part 2 Connections and Dimensions31 IPCAI020 Module 3.7mm Pinhole3Part 3 Setup Options41 PoE ZIP NVR42 Non-PoE ZIP NVR5Part 4 Setup and Al Features61 PID = Perimeter Intrusion Detection82 LCD = Line Crossing Detection103 PD & VD = Pedestrian Detection and Vehicle Detection124 FD = Facial Detection15Part 5 Browser Menu Settings19Part 6 Extra Resources261 ZipNVR.com Website263 ZIP Firmware269 Part 7 General Maintenance27Part 8 Specification281 IPCAI02028Part 9 Conditions29	1	Key Features	1
1 IPCAI020 Module 3.7mm Pinhole 3 Part 3 Setup Options 4 1 PoE ZIP NVR 4 2 Non-PoE ZIP NVR 5 Part 4 Setup and Al Features 6 1 PID = Perimeter Intrusion Detection 8 2 LCD = Line Crossing Detection 10 3 PD & VD = Pedestrian Detection and Vehicle Detection 12 4 FD = Facial Detection 15 Part 5 Browser Menu Settings 19 Part 6 Extra Resources 26 1 ZipNVR.com Website 26 2 Adding IP Cameras 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28 Part 9 Conditions 29	2	Essential Tools and ZipFinder	1
Part 3 Setup Options41 PoE ZIP NVR42 Non-PoE ZIP NVR5Part 4 Setup and Al Features61 PID = Perimeter Intrusion Detection82 LCD = Line Crossing Detection103 PD & VD = Pedestrian Detection and Vehicle Detection124 FD = Facial Detection15Part 5 Browser Menu Settings19Part 6 Extra Resources261 ZipNVR.com Website262 Adding IP Cameras263 ZIP Firmware26Part 7 General Maintenance27Part 8 Specification281 IPCAI02028Part 9 Conditions29	Part 2	Connections and Dimensions	3
1 PoE ZIP NVR 4 2 Non-PoE ZIP NVR 5 Part 4 Setup and Al Features 6 1 PID = Perimeter Intrusion Detection 8 2 LCD = Line Crossing Detection 10 3 PD & VD = Pedestrian Detection and Vehicle Detection 12 4 FD = Facial Detection 15 Part 5 Browser Menu Settings 19 Part 6 Extra Resources 26 1 ZipNVR.com Website 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28	1	IPCAI020 Module 3.7mm Pinhole	3
2 Non-PoE ZIP NVR 5 Part 4 Setup and Al Features 6 1 PID = Perimeter Intrusion Detection 8 2 LCD = Line Crossing Detection 10 3 PD & VD = Pedestrian Detection and Vehicle Detection 12 4 FD = Facial Detection 15 Part 5 Browser Menu Settings 19 Part 6 Extra Resources 26 1 ZipNVR.com Website 26 3 ZIP Firmware 26 9 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28 Part 9 Conditions 29	Part 3	Setup Options	4
Part 4Setup and Al Features61PID = Perimeter Intrusion Detection102LCD = Line Crossing Detection103PD & VD = Pedestrian Detection and Vehicle Detection124FD = Facial Detection15Part 5Browser Menu Settings19Part 6Extra Resources261ZipNVR.com Website262Adding IP Cameras263ZIP Firmware269Part 7General Maintenance27Part 8Specification281IPCAI02028Part 9Conditions29	1	PoE ZIP NVR	4
1 PID = Perimeter Intrusion Detection 8 2 LCD = Line Crossing Detection 10 3 PD & VD = Pedestrian Detection and Vehicle Detection 12 4 FD = Facial Detection 15 Part 5 Browser Menu Settings 19 Part 6 Extra Resources 26 1 ZipNVR.com Website 26 2 Adding IP Cameras 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28 Part 9 Conditions 29	2	Non-PoE ZIP NVR	5
2LCD = Line Crossing Detection103PD & VD = Pedestrian Detection and Vehicle Detection124FD = Facial Detection15Part 5Browser Menu Settings19Part 6Extra Resources261ZipNVR.com Website262Adding IP Cameras263ZIP Firmware26Part 7General Maintenance27Part 8Specification281IPCAI02028Part 9Conditions29	Part 4	Setup and Al Features	6
3 PD & VD = Pedestrian Detection and Vehicle Detection 12 4 FD = Facial Detection 15 Part 5 Browser Menu Settings 19 Part 6 Extra Resources 26 1 ZipNVR.com Website 26 2 Adding IP Cameras 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28 Part 9 Conditions 29	1	PID = Perimeter Intrusion Detection	8
4 FD = Facial Detection15Part 5 Browser Menu Settings19Part 6 Extra Resources261 ZipNVR.com Website262 Adding IP Cameras263 ZIP Firmware26Part 7 General Maintenance27Part 8 Specification281 IPCAI02028Part 9 Conditions29	2	LCD = Line Crossing Detection 1	0
Part 5 Browser Menu Settings19Part 6 Extra Resources261 ZipNVR.com Website262 Adding IP Cameras263 ZIP Firmware26Part 7 General Maintenance27Part 8 Specification281 IPCAI02028Part 9 Conditions29	3	PD & VD = Pedestrian Detection and Vehicle Detection 1	2
Part 6 Extra Resources261 ZipNVR.com Website262 Adding IP Cameras263 ZIP Firmware269 Part 7 General Maintenance27Part 8 Specification281 IPCAI02028Part 9 Conditions29	4	FD = Facial Detection 1	5
1 ZipNVR.com Website 26 2 Adding IP Cameras 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28 Part 9 Conditions 29	Part 5	Browser Menu Settings 19	9
2 Adding IP Cameras 26 3 ZIP Firmware 26 Part 7 General Maintenance 27 Part 8 Specification 28 1 IPCAI020 28 Part 9 Conditions 29	Part 6	Extra Resources 20	6
3 ZIP Firmware	1	ZipNVR.com Website	:6
Part 7 General Maintenance27Part 8 Specification281 IPCAI02028Part 9 Conditions29	2	Adding IP Cameras	:6
Part 8 Specification281 IPCAI02028Part 9 Conditions29	3	ZIP Firmware	6
1 IPCAI020	Part 7	General Maintenance 27	7
Part 9 Conditions 29	Part 8	Specification 28	B
	1	IPCAI020	:8
Index 30	Part 9	Conditions 29	9
		Index 30)

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 26.

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.

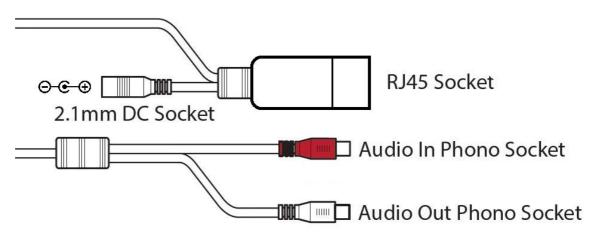
Use ZipFinder on non-PoE installs, to help problem solving issues such as forgotten or unknown IP Addresses.

To download visit ZipNVR.com

1	Search	0:0000				Filtrator fi	nder	ŝ
No.	P	Media Port	Web Post	Channel	Device Type	Device	nuer	Г
1	192 168 2 201	8285	85	1	IP-CAMISIOR	V620.00		ł
2	102 169 2 164	0003	80	1	IP.CAMEISR	12123_161222	265 255 265 3	
	102 168 2 168	6993	89	1	P.CAMISOW	V2123_161222	265 256 255.0	
E 4	192 168 2 158	0003	99	1	IP.CAM530W	V2122_161207	255.255.0.0	
E 5	192 168 2 159	9993	80		IP-CAM630W	V2.1.2.3_161222	255 255 255 0	
E 4	102 168 2 156	0993	84	1	IP-CAM8158	V2.1.2.2_161207	255 255 255 0	
8 7	102.158.2.152	9993	80	1	IP-CAME158	12122_101207	255.255.255.0	
1	102 168 2 162	9901	84	9	IP-CAMB 158	V2133_170110	255 255 255 0	
•	102 160 2 142	9084	84	•	IP-CAMBOW	V2.12.3_101222	255 216 265 3	
UserIn	to aveg admin	Devorinto	132 105 2 210	Media Port. 42	_	Arb Part 10		

2 Connections and Dimensions

2.1 IPCAI020 Module 3.7mm Pinhole



Powering the camera

Option 1 - Power the camera from 12V DC (via the 2.1mm DC Socket), the current consumption is 150mA. 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 Setup Options

3.1 PoE ZIP NVR

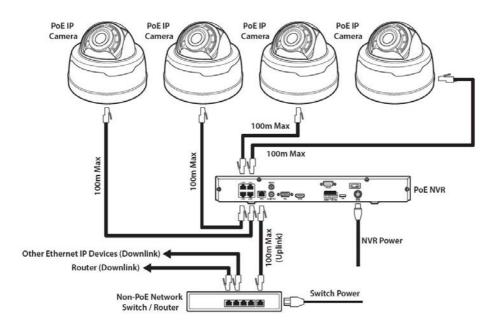
When connecting to a **ZIP PoE NVR** plug the camera directly into the NVR's built in PoE switch.

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.

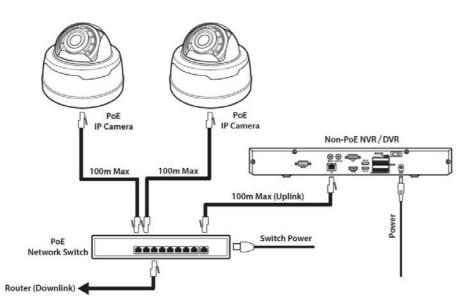
In the menu on a ZIP PoE NVR go to:-

Video > IP Channels > PoE Mode



3.2 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 <u>Extra Resources</u> for more information on Adding IP Cameras manually to a ZIP Recorder.

4 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.

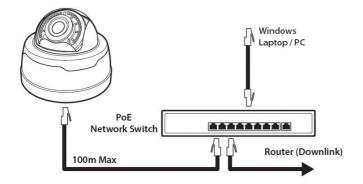
Follow the steps below for configuring the settings directly in the camera via a browser for standalone setup.

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

ZP- finder								
Se	arch	Upgrade	Con	fig				
No.	IP	Media Port	Web Port	Channel				
☑ 1	<u>192.168.10.1</u>	8240	80	1				

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

Web Port			Modify
Net Mode	DHCP	•	incarly

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**

4.1 PID = Perimeter Intrusion Detection

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

PID LCD	PD&VD FD				
	PDAVD PD				22
Name	Perimeter Intrusion Detection (PID)		Tim		
Switch			the bar		
Latch Time	55	•		in a	-
Post Recording	(5S	*		Carl	
Sensitive	(2	•			B
Scene	Indoor	•			Vel
Alarm Out				Clear	Clean All
Send Email				orear	Oldariyar
Detection Type	□Pedestrian □Vehicle				
Rule Number	(1	•			
Rule Switch					
Rule Type	$(A \rightarrow B)$	•			
Enable Record					

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**.

 $\mathbf{1} =$ 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.*

ZipNVR.com

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.

4.2 LCD = Line Crossing Detection

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

1
Wall.
Clean All
Cican Ai

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

 $\mathbf{1}$ = 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 $B(A \rightarrow B) = Only$ movement in the direction A to B will trigger. B to $A(B \rightarrow A) = Only$ movement in the direction B to A will trigger. A or $B(A \rightarrow B) = Any$ 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.

4.3 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.

PID LCD	PD&VD FD	
Name	Pedestrian Detection(PD&VD)	
Switch		
Latch Time	(5S	· ·
Post Recording	(5S	
Sensitivity	60	
Alarm Out		
Send Email		
Snap Mode	(Interval Mode	•
Snap Num	1	
Snap Frequency	2	s/pic
Min Pixel	64	(64-1080)
Detection Type	Pedestrian Vehicle	
Detection Mode	Motion Mode	•
Detection Range	Full Screen	*
Enable Record	1	

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

 $\mathbf{1} =$ 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.

 $\ensuremath{\textbf{Detection}}\xspace \ensuremath{\textbf{Range}}\xspace$ - 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.

4.4 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.

9 Smart ▶ FD			
PID LCD I	PD&VD FD		
Name	Face Detection(FD)		
Switch			
Latch Time	5S	•	
Post Recording	(5S	•	
Alarm Out			
Send Email			
Face Enhance			
Snap Mode	(Interval Mode	•	•
Apply Mode	Frontal View	•	•
Snap Num	(1	•	•
Snap Frequency	2		s/pic
Min Pixel	32		(32-1080)
Detection Mode	Motion Mode	•	•
Rule Kind	Rect	•	•
Detection Range	Customize	•	•
Enable Record			
	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. 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 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.

5 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	
		Transparency	$1 \sim 128$ (Default 64)
		Show Name	Untick / Tick
		Show Time	Untick / Tick
		Refresh / Save	
	Camera Settings	-	Auto / Colour Mode / Black White Mode /
	8		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	Auto / Disable / Manual
		Reduction	
		DWDR	Untick / Tick
		HLC	Untick / Tick
		AGC	1 ~ 128 (Default 64)
		White Balance	Auto / Manual / Indoor
		Shutter	Auto / Manual
		Time Exposure	1/5 / 1/8 / 1/15 / 1/25 / 1/50 / 1/100 / 1/150 /
		(max)	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 /	
	Privacy Mask		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	12
		(1-19)	
		Refresh / Save	
Network	Network	Туре	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				
	Refresh / Save				
Encoding	Mainstream	Resolution	1920x1080 / 1280x720 / 1280x960		
		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		
		Audio	Untick / Tick		
		I Frame Interval	1 ~ 80 (Default 24)		
		Refresh / Save			
	SubStream	Resolution	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		
		Audio	Untick / Tick		
		I Frame Interval	1 ~ 80 (Default 20)		
		Refresh / Save			
	MobileStream	Enable	Tick / Untick		
		Resolution	640x480 / 320x240		

		1	L:		
			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			
		Encryption	Untick / Tick Disable / SSL / TL	S / 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	5	
		Host Name	Customise		
		Username	Customise		
		Password	Customise		
	IP Filter	Refresh / Save /	Add / Del		
		Filter Mode		ions / Allow the selected	
			IP connections / Block the selected IP connections		
	RTSP Port	RTSP	Tick / Untick		
		RTSP Port	1240 / Customise		
		Anonymous	Untick / Tick (No u	sername or password	
		Login	required)	Ĩ	
		Instruction: rtsp:	//IP:Port/ch01/A A:0((MainStream),	
		-	2(MobileStream)		
		Refresh / Save	,		
Alarm	Motion Detection	Enable	Untick / Tick		
		Sensitivity	1 ~ 8 (Default 3)		
	4]	

		1	1		
		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	cording 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	$0 \sim 10$ (Default 5)		
		Input Volume	$0 \sim 10$ (Default 5)		
		Audio Code	G711A / G711U / G726 16K		
		Туре			
		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/E		YYY/MM/DD /	
			MM/DD/YYYY		
		Time Format	24Hour / 12Hour		
		DST / NTP / Synchronize			
		Daylight Saving			
		Time			
		Daylight Saving	ht Saving Week / Date		
		Time			
		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 Vers	sion		
		Software Versi			
		IE Client Versio			
		MAC Address			
		Refresh			
Tools	Firmware Update	ate Upgrade file path Scan			
10019					
		Upgrade			
	Load Default	Camera	Tick / Untick		
	Loud Denuit	Record	Untick / Tick		
		Network	Untick / Tick		
		Alarm	Untick / Tick		
		Device	Tick / Untick		
		System	Tick / Untick		
		Tools	Tick / Untick		
		Smart	Tick / Untick		
		Simple / All / S			
	Reboot	Auto Reboot Untick / Tick			
		Reboot	Customise		
		Refresh / Save			
	Import and	Import File Scan / Import			
	Export	Export Path	Scan / Import		
Smart	Detection	PID	Name	Perimeter Intrusion	
S III WILL				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	$\mathbf{A > B / A < B / A < > B}$	
			Enable Record	Untick / Tick	
			Refresh / Save		
		LCD	Name	Line Crossing Detection	
				(LCD)	
			Switch	Untick / Tick	

IntervalIntervalSY / 10S / 20S / 30SPost RecordingSY / 10S / 20S / 30SSensitive $1/2$ / 3 / 4SceneIndoorAlarm OutTick / UnitickDetection TypePedestrian &/or VehicleRule Number $1/2$ / 3 / 4Ruk SwitchUntick / TickRuk TypeA>B / A>B / A>BEnable RecordUntick / TickRefresh / SavePD & VDNamePedestrian Detection(PD & VD)SwitchSwitchUntick / TickLatch TimeSS / 10S / 20S / 30SPost KecordingSS / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickSap ModeInterval Mode / Realtine Mode / DefaultSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection FirmeSS / 10S / 20S / 30SPost RecordingFull Serven / CustomizeEnable RecordUntick / TickRefresh / SaveFor 100 (Default 64)Detection ModeModeDetection ModeSo / 10S / 20S / 30SPost RecordingSS / 10S / 20S / 30S <tr< th=""><th></th><th></th><th></th><th></th></tr<>				
Sensitive 1/2/3/4 Scene Indoor Alarm Out Tick / Unick Send Ernail Untick / Tick Detection Type Pedestrian &/or Vehicle Rule Number 1/2/3/4 Ruk Switch Untick / Tick Ruk Type A-B/A <b a<="" td=""> AB/ A A/A Ruk Type A-B/A Binable Record Untick / Tick Refresh / Save PD &/A PD & VD Name Pedestrian Detection (PD &/D) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Sanap Num 1 / 2 / 3 / Unlimited Snap Prequency 2 / customise Min Pixel 64 ~ 10S0 (Default 64) Detection Type Pedestrian &/or Vehicle Detection Range Full Screen / Customize Enable Record Untick / Tick			Latch Time	5S / 10S / 20S / 30S
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<="" td=""> Enable Record Untick / Tick Refresh / Save PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Email Untick / Tick Sap Mode Interval Mode / Realinne Mode / Default Snap Mode Interval Mode / Realinne Mode / Default Snap Num 1 / 2 / 3 / Unlimited Snap Num 1 / 2 / 3 / Unlimited Snap Frequency 2 / customise Min Pixel 64 ~ 1080 (Default 64) Detection Type Pedestrian &/or Vehicle Detection Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD Narm Face Detection (FD)			Post Recording	5S / 10S / 20S / 30S
Alarm Out Tick / Untick Send Email Untick / Tick Detection Type Pedestrian &/or Vehicle Rub Number 1/2/3/4 Rub Switch Untick / Tick Rub Evend Untick / Tick Refresh / Save PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 56 / 108 / 00e/ Snap Num 1 / 2 / 3 / Unlimited Snap Num 1 / 2 / 3 / Unlimited Snap Frequency 2 / customise Min Pixel 64 ~ 1080 (Default 64) Detection Rage Full Screen / Customize Enable Record Untick / Tick Refresh / Sav			Sensitive	1/2/3/4
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 PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Post Recording 55 / 105 / 205 / 305 Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Email Untick / Tick Send Email Untick / Tick Snap Mode Interval Mode / Realtime Mode / Default Snap Num 1 / 2 / 3 / Unlimited Snap Frequency 2 / customize Min Pixel 64 ~ 1080 (Default 64) Detection Type Pedestrian &/or Vehicle Detection Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD Name Face Detection (FD) Switch Untick / Tick			Scene	Indoor
Detection TypePedestrian &/or Vehicle Rule NumberRule Number $1/2/3/4$ Rule SwitchUntick / TickRule Type $A>B/AB$ Enable RecordUntick / TickRefresh / SavePPD & VDNamePedestrian Detection (PD&VD)SwitchUntick / TickLatch TimeSS / 10S / 20S / 30SPost RecordingSS / 10S / 20S / 30SPost RecordingSS / 10S / 20S / 30SPost RecordingSS / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSanp ModeInterval Mode / Realtime Mode / DefaultSnap Num1 / 2 / 3 / UnlimitedSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehiceDetection RangeFull Sereen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickRefresh / SaveFDNameSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickRefresh / SaveFDSaritiveSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickRefresh / SaveFDSaritiveSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSensitive0 ~ 100 (Default 60)Alarm OutUn			Alarm Out	Tick / Untick
Rule Number 1/2/3/4 Rule Switch Untick / Tick Rule Type A>B / A <b a<b<="" td=""> Enable Record Untick / Tick Refresh / Save PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Sand Email Untick / Tick Send Email Untick / Tick Snap Mode Interval Mode / Realtime Mode / Default Snap Num 1 / 2 / 3 / Unlimited Snap Num 1 / 2 / 3 / Unlimited Snap Num 1 / 2 / 3 / Unlimited Detection Type Pedestrian &/or Velicle Detection Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD FD Name Face Detection (FD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Poost Recording SS / 10			Send Email	Untick / Tick
Rule Switch Untick / Tick Rule Type A>B / A <b a<b<="" td=""> 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 Veltick Detection Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD Name Face Detection (FD) Switch Untick / Tick Refresh / Save FD Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Refresh / Save FD Sensitive 0 ~ 100 (Default 60) <td< td=""><td></td><td></td><td>Detection Type</td><td>Pedestrian &/or Vehicle</td></td<>			Detection Type	Pedestrian &/or Vehicle
Rule Type A>B / A <b a<b="" a<b<="" td=""> Enable Record Untick / Tick Refresh / Save PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Snap Mode Interval Mode / Realtime Mode / Default Snap Num 1 / 2 / 3 / Unlimited Snap Num 1 / 2 / 3 / Unlimited Snap Num 1 / 2 / 3 / Unlimited Snap Frequency 2 / customize Min Pixel 64 ~ 1080 (Default 64) Detection Type Pedestrian &/or Vehicle Detection Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save Fold S / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60)<			Rule Number	1/2/3/4
Enable RecordUntick / Tick Refresh / SavePD & VDNamePedestrian Detection (PD&VD)SwitchUntick / Tick Latch TimeSS / 10S / 20S / 30S Post RecordingSS / 10S / 20S / 30S SensitiveO ~ 100 (Default 60) Alarm OutUntick / Tick Send EmailUntick / Tick CK Sap ModeSnap ModeEmailUntick / Tick CK Sap FrequencySnap Num1 / 2 / 3 / Unlimited Snap Frequency2 / customise Motion Mode / Default Sap FrequencyDetection TypePedestrian &/or Vehicle Detection TypePedestrian &/or Vehicle Detection ModeDetection RangeFull Screen / Customize Enable RecordUntick / Tick Untick / TickFDNameFace Detection (FD) SwitchUntick / Tick Untick / Tick Refresh / SaveFDNameFace Detection (FD) SwitchUntick / Tick Untick / Tick Eace Detection (FD) SwitchFDNameFace Detection (FD) SwitchUntick / Tick Untick / Tick 			Rule Switch	Untick / Tick
Refresh / Save PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 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 Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save For Name FD Name Face Detection (FD) Switch Untick / Tick Refresh / Save FD Name Face Detection (FD) Switch Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) <			Rule Type	A>B / A <b a<="">B
PD & VD Name Pedestrian Detection (PD&VD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Email Untick / Tick Send Email Untick / Tick Snap Mode Interval Mode / Default Snap Frequency 2 / customise Min Pixel 64 ~ 1080 (Default 64) Detection Type Pedestrian &/or Vehicle Detection Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD FD Name Face Detection (FD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Latch Time SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Ema			Enable Record	Untick / Tick
PD&VDSwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSnap ModeInterval Mode /Realtime Mode / DefaultSnap Num1 / 2 / 3 / UnlimitedSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch TimeSS / 10S / 20S / 30SPost RecordingSS / 10S / 20S / 30S			Refresh / Save	
Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 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 Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD FD Name Face Detection (FD) Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Post Recording SS / 10S / 20S / 30S Senative 0 ~ 100 (Default 60) Alarm Out Untick / Tick <t< td=""><td></td><td>PD & VD</td><td>Name</td><td>Pedestrian Detection</td></t<>		PD & VD	Name	Pedestrian Detection
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 Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD Switch Untick / Tick Latch Time 5S / 10S / 20S / 30S Post Recording 5S / 10S / 20S / 30S Post Recording 5S / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Latch Time 5S / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Email Untick / Tick Send Email Untick / Tick Send Email Untick / Tick Snap Mode Interva				(PD&VD)
Post Recording SS / 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 Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording 5S / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Latch Time SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Email Untick / Tick Snap Mode Interval Mode / Rea			Switch	Untick / Tick
Post Recording SS / 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 Range Full Screen / Customize Enable Record Untick / Tick Refresh / Save FD Switch Untick / Tick Latch Time SS / 10S / 20S / 30S Post Recording 5S / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Latch Time SS / 10S / 20S / 30S Sensitive 0 ~ 100 (Default 60) Alarm Out Untick / Tick Send Email Untick / Tick Snap Mode Interval Mode / Rea			Latch Time	5S / 10S / 20S / 30S
Sensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickSnap ModeInterval Mode / Realtime Mode / DefaultSnap Num1 / 2 / 3 / UnlimitedSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickFace EnhanceUntick / TickFace EnhanceUntick / TickSnap ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize				5S / 10S / 20S / 30S
Alarm OutUntick / TickSend EmailUntick / TickSnap ModeInterval Mode / Realtime Mode / DefaultSnap Num1 / 2 / 3 / UnlimitedSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickFace EnhanceUntick / TickSang ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Ange / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			ŭ	0 ~ 100 (Default 60)
Snap ModeInterval Mode / Realtime Mode / DefaultSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Alarm Out	Untick / Tick
Realtime Mode / DefaultSnap Num1/2/3 / UnlimitedSnap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDSwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Ange / CustomizeSnap Num1/2/3 / UnlimitedSnap Frequency2 / customize			Send Email	Untick / Tick
Snap Num1/2/3/UnlimitedSnap Frequency2/customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / StaticModeDetection RangeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1/2/3 / UnlimitedSnap Frequency2 / customize			Snap Mode	Interval Mode /
Snap Frequency2 / customiseMin Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			-	Realtime Mode / Default
Min Pixel64 ~ 1080 (Default 64)Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarn OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Snap Num	1 / 2 / 3 / Unlimited
Detection TypePedestrian &/or VehicleDetection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickSap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / Unlimited Snap FrequencySnap Frequency2 / customize			Snap Frequency	2 / customise
Detection ModeMotion Mode / Static ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / Unlimited Snap Frequency2 / customize			Min Pixel	64 ~ 1080 (Default 64)
ModeDetection RangeFull Screen / CustomizeEnable RecordUntick / TickRefresh / SaveFDFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Detection Type	Pedestrian &/or Vehicle
Detection RangeFull Screen / Customize Enable RecordEnable RecordUntick / Tick Refresh / SaveFDNameFace Detection (FD) SwitchSwitchUntick / Tick Latch Time5S / 10S / 20S / 30S Post RecordingPost Recording5S / 10S / 20S / 30S Sensitive0 ~ 100 (Default 60) Alarm OutAlarm OutUntick / Tick Face EnhanceUntick / Tick TickFace EnhanceUntick / Tick Face EnhanceSnap ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / Unlimited Snap Frequency2 / customize			Detection Mode	Motion Mode / Static
Enable RecordUntick / TickRefresh / SaveFDNameFace Detection (FD)SwitchUntick / TickLatch Time 5S / 10S / 20S / 30SPost Recording 5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize				Mode
Refresh / SaveFDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Detection Range	Full Screen / Customize
FDNameFace Detection (FD)SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Enable Record	Untick / Tick
SwitchUntick / TickLatch Time5S / 10S / 20S / 30SPost Recording5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Refresh / Save	
Latch Time 5S / 10S / 20S / 30SPost Recording 5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm Out Untick / TickSend Email Untick / TickFace Enhance Untick / TickSnap ModeInterval Mode / Realtime Mode / Optimal Mode Apply Mode Frontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize		FD	Name	Face Detection (FD)
Post Recording 5S / 10S / 20S / 30SSensitive0 ~ 100 (Default 60)Alarm Out Untick / TickSend Email Untick / TickFace Enhance Untick / TickSnap ModeInterval Mode / Realtime Mode / Optimal Mode Apply Mode Frontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Switch	Untick / Tick
Sensitive0 ~ 100 (Default 60)Alarm OutUntick / TickSend EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Latch Time	5S / 10S / 20S / 30S
Alarm Out Untick / Tick Send Email Untick / Tick Face Enhance Untick / Tick Snap Mode Interval Mode / Realtime Mode / Optimal Mode Mode / Optimal Mode Apply Mode Frontal View / Multi Angle / Customize Snap Num Snap Frequency 2 / customize			Post Recording	5S / 10S / 20S / 30S
Send EmailUntick / TickFace EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Sensitive	0 ~ 100 (Default 60)
Face EnhanceUntick / TickSnap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / Unlimited Snap Frequency2 / customize			Alarm Out	Untick / Tick
Snap ModeInterval Mode / Realtime Mode / Optimal ModeApply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize				Untick / Tick
Image: A point of the second structure of the s			Face Enhance	Untick / Tick
Apply ModeFrontal View / Multi Angle / CustomizeSnap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Snap Mode	Interval Mode / Realtime
Angle / Customize Snap Num 1 / 2 / 3 / Unlimited Snap Frequency 2 / customize				
Snap Num1 / 2 / 3 / UnlimitedSnap Frequency2 / customize			Apply Mode	
Snap Frequency 2 / customize				
			Snap Num	1 / 2 / 3 / Unlimited
Min Pixel 32 ~ 1080 (Default 32)				
			Min Pixel	32 ~ 1080 (Default 32)

Detection
Rule Ki
Detection
Enable
Refresh

6 Extra Resources

6.1 ZipNVR.com Website

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



6.2 Adding IP Cameras

How to guide on Adding IP Cameras:-

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

6.3 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.

7 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.

8 Specification

8.1 IPCAI020

Image Sensor	1/2.8" Progressive CMOS		
Resolution	2MP 1920(H)×1080(V)		
Lens Type	3.7mm Pinhole		
Shutter	1/5 ~ 1/20000s		
Day/Night	Electronic		
Min. Illumination	0.1 Lux		
Video Compression	H.264 / H.265		
Video Bitrate	8Kbps ~ 8 Mbps		
Stream Options	Mainstream, SubStream & MobileStream		
Smart Feature	Pedestrian and Vehicle Detection, Facial		
	Detection		
System Compatibility	ONVIF (Profile S, Profile G)		
Connection	RJ45 10M / 100M Ethernet PoE		
SD Card	No SD card slot		
Audio (RCA)	1 Input / 1 Output		
Input Voltage	PoE or 12V DC 150mA (PSU Required)		
Consumption	4W Max		
Operating Temperature	From -30 to 55 deg°C		
Use	Internal Use		

9 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.

© Copyright 2020 Zip is a registered trademark of System Q Ltd, Chesterfield. Derbyshire. S40 2WB

Index

- 2 -

2.1mm 3

- A -

Al Smart Features 6 Alarm 3 Audio 3

- C -

Checking27Cleaning27Connection4Connections3Consumption28

- D -

Dimensions 3 Download 1 DVR 26

- E -

Extras 1

- F -

Facial Detection15Facial Recognition15Firmware26

- | -

IP Rating 28

- L -

Lens 28 Line Crossing Detection 10

- M -

Maintenance 27 Manual 26

- N -

NVR 4, 26

- 0 -

Options 4

- P -

Pedestrian Detection12Perimeter Intrusion Detection8PoE Switch4

- R -

RJ45 3

- S -

SD Card 28 Setup 4 Size 3 Software 1 Specification 26, 28

- T -

TIPS 26 Tools 1

- V -

Vehicle Detection 12 Voltage 28

- Z -

Zip 26 ZipFinder 1

ZipNVR.com