



Instruction Manual

IP-CAM555W

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ZipNVR.com

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Introduction

1.1 Key Features - IP-CAM555W

The FacePLATE PowerZOOM with Built-In Auto Number Plate Recognition and Built-In Facial Detection & Recognition

- PowerZOOM 5-50mm Lens
- Audio In & Out
- Privacy Mask
- Superb 4K Resolution
- Smart Crowd Mapping
- Alarm In & Out
- Motion Detect
- Built-in ANPR (requires SD-CARD for stand-alone setup)
- Smart Intruder Detection
- Micro SD Slot
- IR Range up to 70M
- RS485 Output

1.2 Essential Tools and ZipFinder

To install this product you will need:

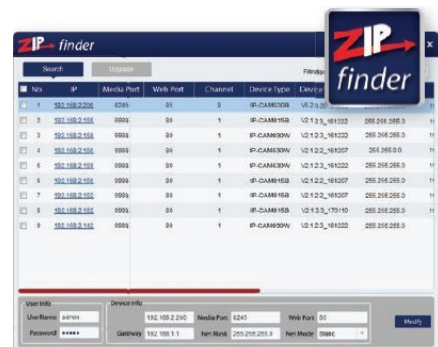
- Laptop / Windows PC
- Screwdriver
- Drill
- Hammer
- ZIP NVR or DVR
- PoE Switch / 12V DC power supply
- Ethernet CAT5/5e/6 Cable

ZipFinder - IP Camera Configuration Tool

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

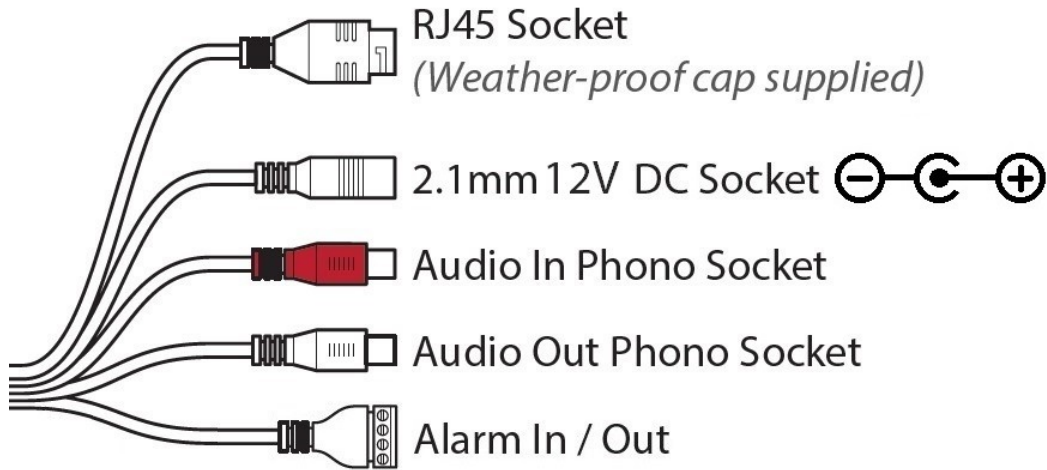
Use ZipFinder on non-PoE installs, to help problem solving issues such as forgotten or unknown IP Addresses.

To download visit ZipNVR.com



Connections and Dimensions

2.1 IP-CAM555W



Powering the camera

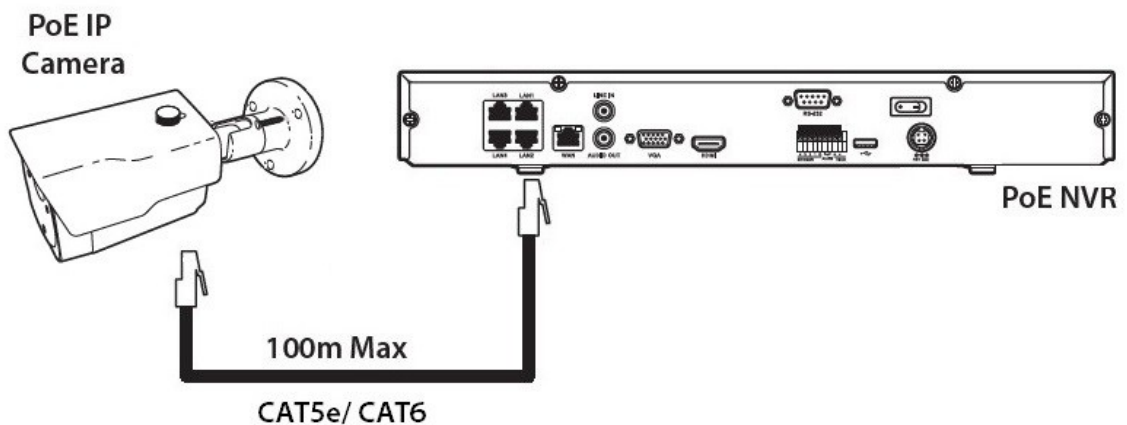
Option 1 - Power the camera from 12V DC (via the 2.1mm DC Socket), the current consumption is 420mA.

The camera is polarity sensitive so connections must be correctly made.

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

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

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



Dimensions



*Dimensions Exclude Bracket

Mounting and SD Card Installation

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

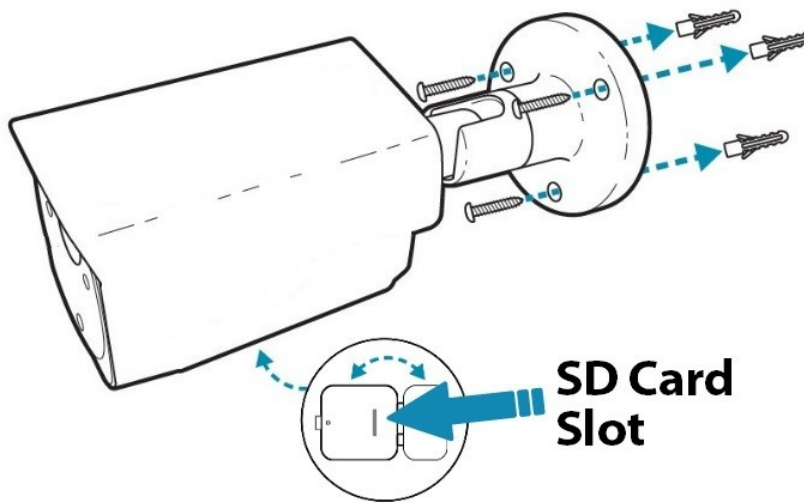
128GB SD Card (MAX) ≈ 124 hours

256GB SD Card (MAX) ≈ 248 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 Bullet



A template is provided in the box for marking the hole positions for the fixing screws.

Camera Positioning

This section describes some important information with regards to camera positioning, the field of view as determined by lens choice and angle of view. Some guidance follows advising how to improve performance.

Lighting

As ambient lighting is not sufficient for number plate recognition at dawn, dusk or night-time, the camera is equipped with built in Infra-Red (IR) LEDs.

Modern number plates are designed to be highly reflective so the IR light can take advantage of this fact at these times.

Field of View and Lens Positioning

A lens should be selected that results in a well cropped image eliminating unnecessary areas either side of the target vehicle, this will result in a larger more detailed view of the vehicle.

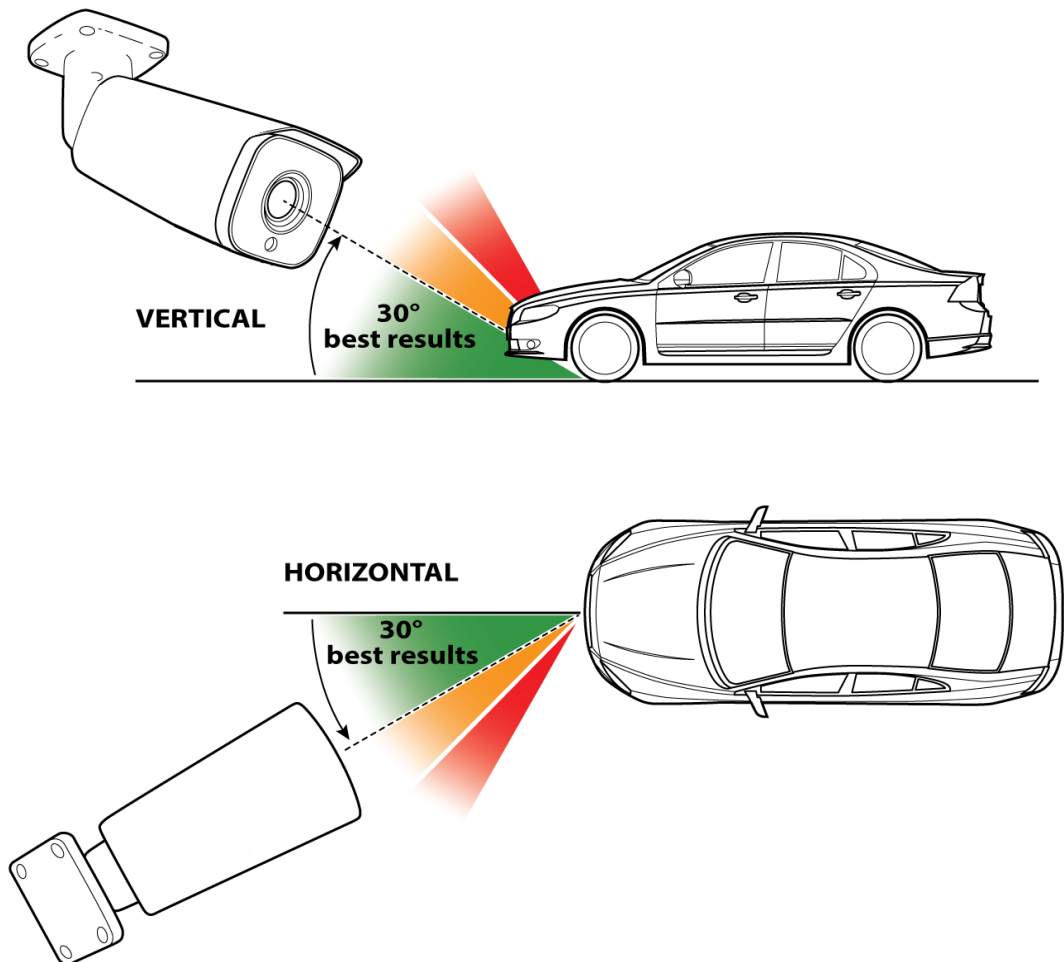
See [Zoom Controls](#)⁴¹ for more information.

Angle of View

Camera positioning is very important, and where-ever possible the camera should be positioned in front of a vehicle so that the vehicle 'approaches' the camera, it can be slightly above or to one side.

It is important to achieve an angle of view whereby the target vehicle stays in the Area of Interest for as long as possible such that a number of consecutive, identical results can be obtained, this is not likely to happen with a high angle of incidence to the vehicle whereby the vehicle 'passes by'.

The diagrams below shows typical positioning of the camera at which good results can be expected, as the angle of incidence increases, results will become less accurate.



Setup Options

5.1 PoE ZIP NVR

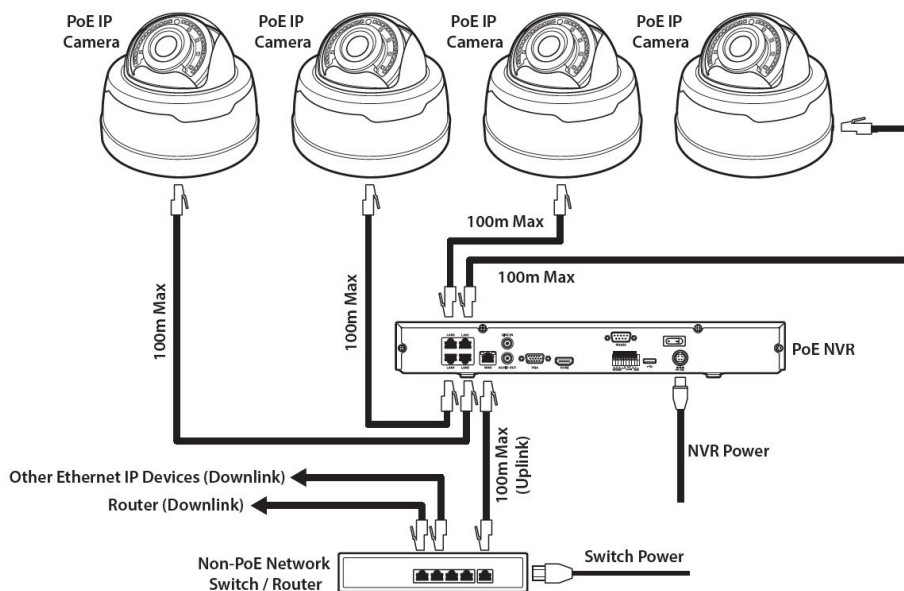
When connecting to a **ZIP PoE NVR** plug the camera directly into the NVR's built in PoE switch.

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.

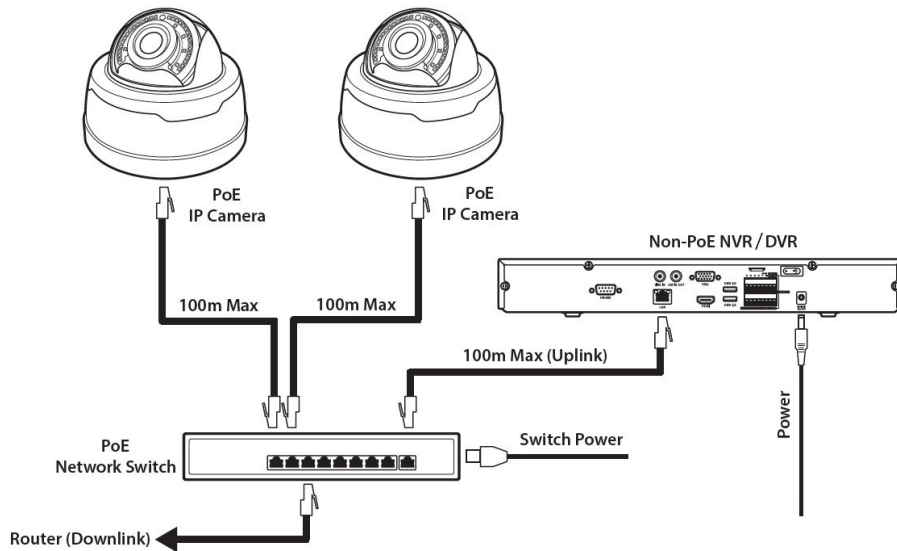
In the menu on a ZIP PoE NVR go to:-

Video > IP Channels > PoE Mode



5.2 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](#) ⁴³ for more information on **Adding IP Cameras manually** to a ZIP Recorder.

ANPR stand-alone with SD Card

For stand-alone ANPR use with a IP-CAM555 the camera will require installation of a Micro SD card.

The camera is able to take up to a 256Gb, and it is recommended to us a minimum of a 32Gb SD card.

The Micro SD Card is required for database logging of the licence plate registration files and database in order for the camera to perform ANPR function.

If the files on the SD Card are deleted or corrupt, the card may require formatting in order to continue using it.

6.1 Pre-Configuration

6.1.1 Finding and Assigning an IP address

The best option for networking an IP camera is to assign the camera with a "static" IP address. There are multiple reasons why you would do this:

- The IP address is known and it will stay the same, making logging into the camera's web interface simpler and reliable.
- The IP address is known, therefore it is easier if the camera is to be added to a DVR or other device (or software).
- If the router is rebooted (or the DHCP server) it could assign a different IP address to the devices on the network, therefore making a static IP address preferred.

There are a few options to find and assign an IP address to your IP camera.

- **Option A.** Ask the on site IT department or network administrator for guidance on the IP address information to assign to the IP camera. Go to Make a note of the IP Camera address onwards.

- **Option B.** Find a free IP address yourself using the instructions below on a best endeavours basis if option A is unavailable. (See Option B on next page for instructions)

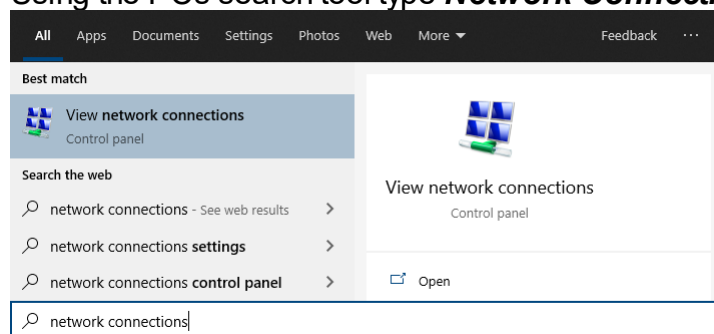
Option B - This section describes how to obtain a computers IP address, then using it find an available address to assign to a camera.

1. Identify the network adaptor
2. Identify if the PC has a static IP or automatically assigned address
3. Identify the PCs current address
4. Using CMD find an available address for the camera

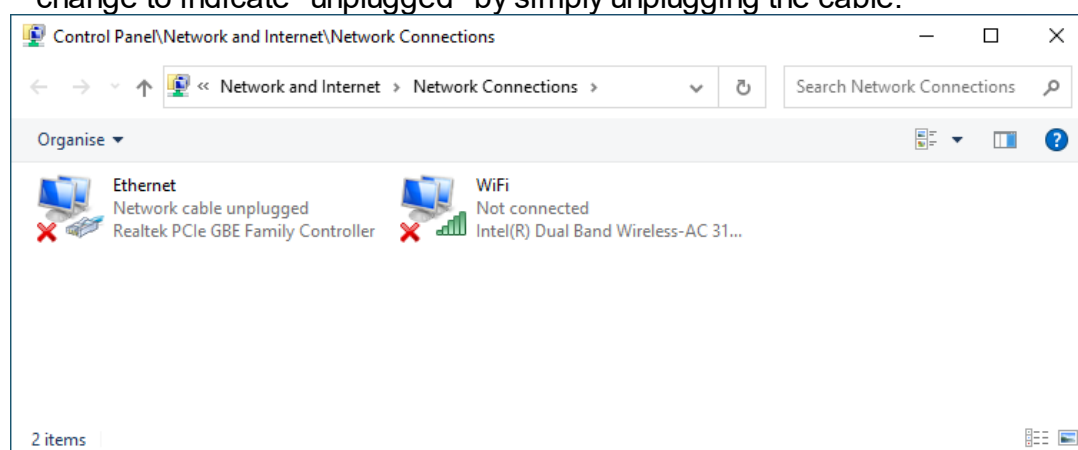
1. Identify the network adaptor the PC is currently using.

Close all programs currently in use.

Using the PCs search tool type **Network Connections**.

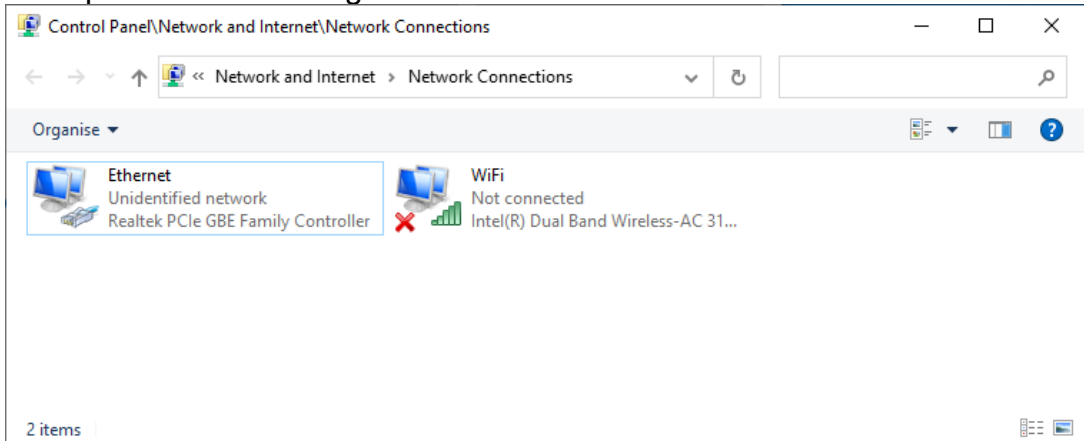


- If the hardware connection (Ethernet) is already connected, watch the icon change to indicate "unplugged" by simply unplugging the cable.

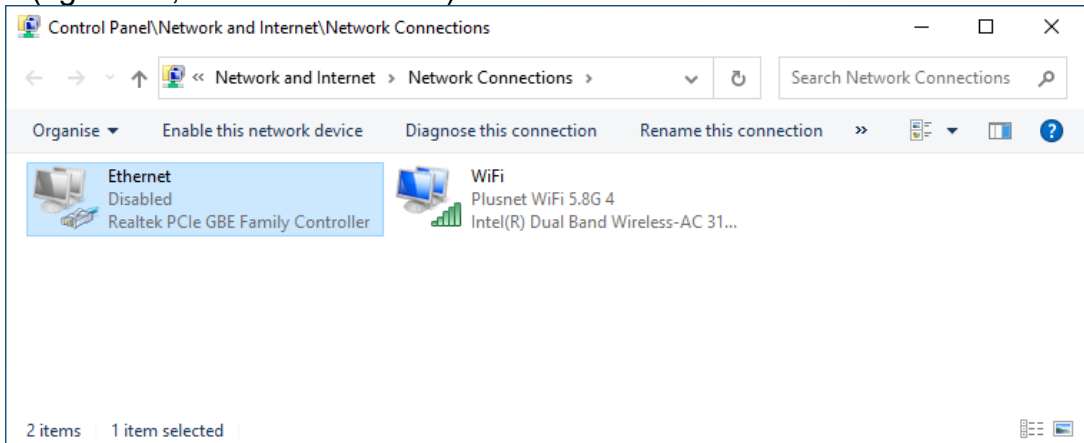


If you have multiple cabled adaptors, you can distinguish between them by connecting/ disconnecting the cable, the status should change.

- And plug back in to determine if that adaptor is being used, below shows the adaptor **Ethernet** being used.



- If using WiFi then ensure all other adaptors are unplugged and disabled (right click, then select disable).

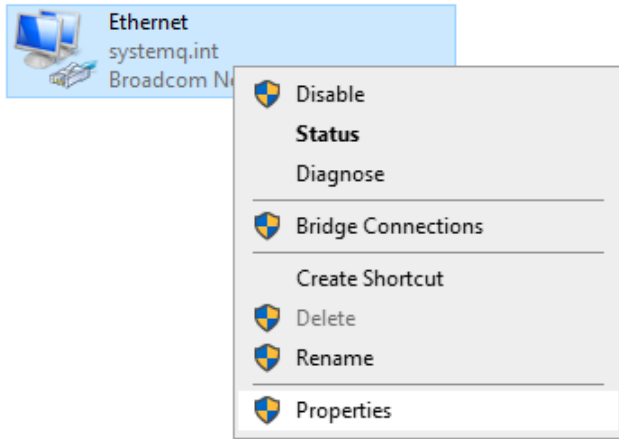


Make a note of the current "Connections:" type by name :

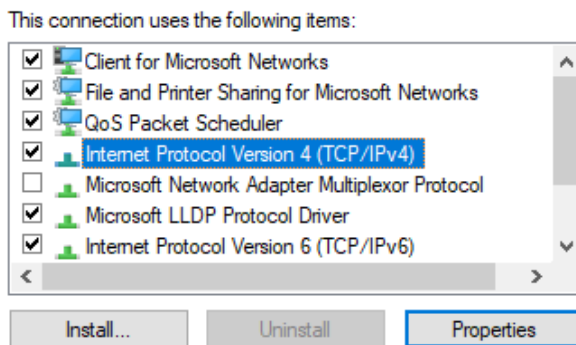
For example **Ethernet**

2. Identify if the PC is using a manually assigned static address or if the PC has obtained the address automatically using "DHCP".

Right-click on the connection type, select **Properties**.



Double click on **Internet Protocol Version 4 (TCP/IPv4)**.



- If **Obtain an IP address automatically** is selected then proceed to step 3.

Obtain an IP address automatically

Use the following IP address:

IP address:	<input type="text" value="."/> <input type="text" value="."/> <input type="text" value="."/> <input type="text" value="."/>
Subnet mask:	<input type="text" value="."/> <input type="text" value="."/> <input type="text" value="."/> <input type="text" value="."/>
Default gateway:	<input type="text" value="."/> <input type="text" value="."/> <input type="text" value="."/> <input type="text" value="."/>

- If **Use the following IP address** is selected then proceed to step 4.

Obtain an IP address automatically

Use the following IP address:

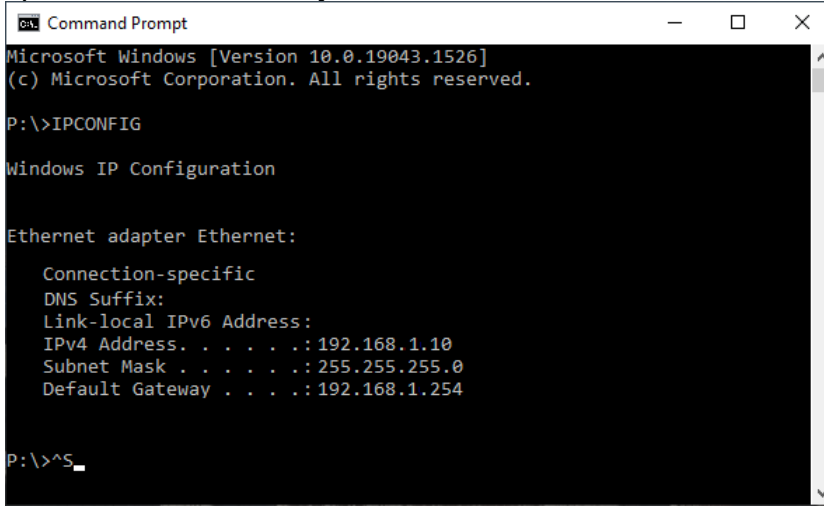
IP address:	<input type="text" value="192"/> <input type="text" value="."/> <input type="text" value="168"/> <input type="text" value="."/> <input type="text" value="1"/> <input type="text" value="."/> <input type="text" value="10"/>
Subnet mask:	<input type="text" value="255"/> <input type="text" value="."/> <input type="text" value="255"/> <input type="text" value="."/> <input type="text" value="255"/> <input type="text" value="."/> <input type="text" value="0"/>
Default gateway:	<input type="text" value="192"/> <input type="text" value="."/> <input type="text" value="168"/> <input type="text" value="."/> <input type="text" value="1"/> <input type="text" value="."/> <input type="text" value="254"/>

3. Find the PC's current IP address.

Using the PC's search tool type **CMD** then click enter to launch command prompt.

Type in **IPCONFIG** and click enter.

Look for the adaptor name identified in step 1, for example **Ethernet adaptor**. Scroll up or down if necessary



4. Make a note of this adaptors address settings here:

IP Address: _____

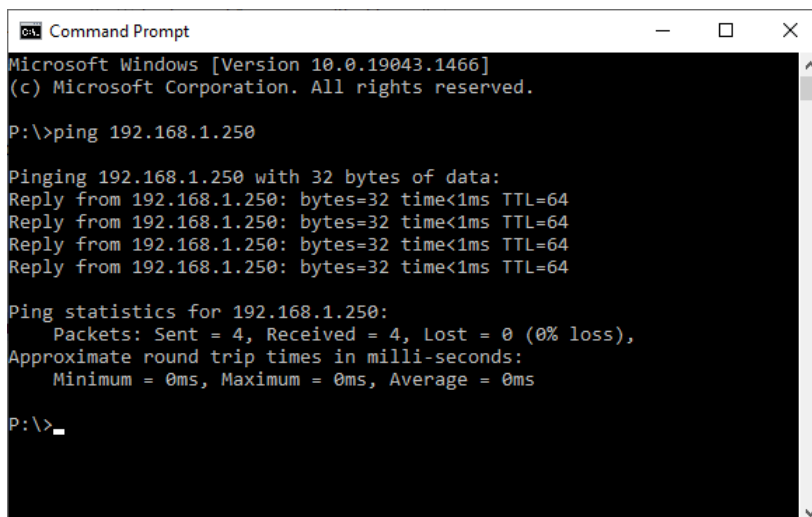
Subnet Mask: _____

Gateway: _____

5. Next try find an available IP address to assign to the camera using the ping command tool.

Use CMD (Command prompt) type in **ping**, space and then using the first three segments of the IP address of the PC, substituting the last segment with 250 at the end, then select enter.

For example: **ping 192.168.1.250**



```
Command Prompt
Microsoft Windows [Version 10.0.19043.1466]
(c) Microsoft Corporation. All rights reserved.

P:\>ping 192.168.1.250

Pinging 192.168.1.250 with 32 bytes of data:
Reply from 192.168.1.250: bytes=32 time<1ms TTL=64
Reply from 192.168.1.250: bytes=32 time<1ms TTL=64
Reply from 192.168.1.250: bytes=32 time<1ms TTL=64
Reply from 192.168.1.250: bytes=32 time<1ms TTL=64

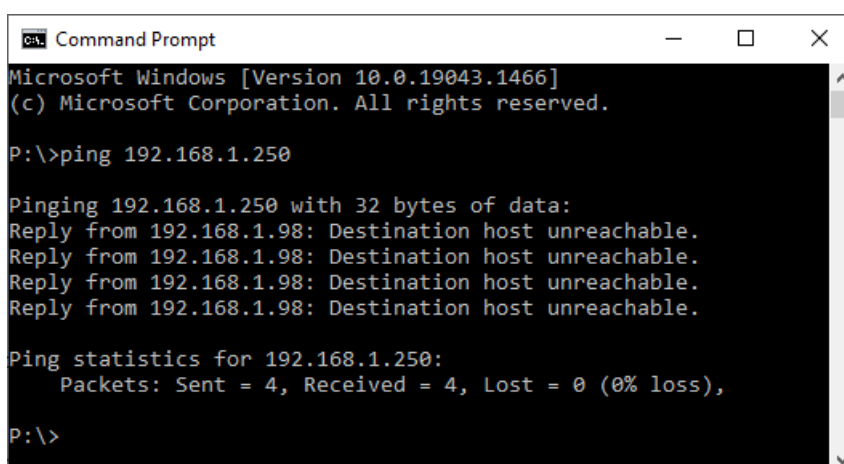
Ping statistics for 192.168.1.250:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

P:\>
```

- If the reply is **Reply from 192.168.1.250....** then the address is already taken on the network.

Simply search again but minus 1 from the last number.

For example: **ping 192.168.1.249** until **Destination host unreachable** is the reply.



```
Command Prompt
Microsoft Windows [Version 10.0.19043.1466]
(c) Microsoft Corporation. All rights reserved.

P:\>ping 192.168.1.250

Pinging 192.168.1.250 with 32 bytes of data:
Reply from 192.168.1.98: Destination host unreachable.
Reply from 192.168.1.98: Destination host unreachable.
Reply from 192.168.1.98: Destination host unreachable.
Reply from 192.168.1.98: Destination host unreachable.

Ping statistics for 192.168.1.250:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

P:\>
```

- If the message **Destination host unreachable** displays then this address is free to use for the IP camera.

Proceed to Make a note of the IP Camera address

6.1.2 How to Login via Browser

The camera can be configured in a ZIP recorder or directly in the browser interface of the camera (stand-alone)

Note: 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

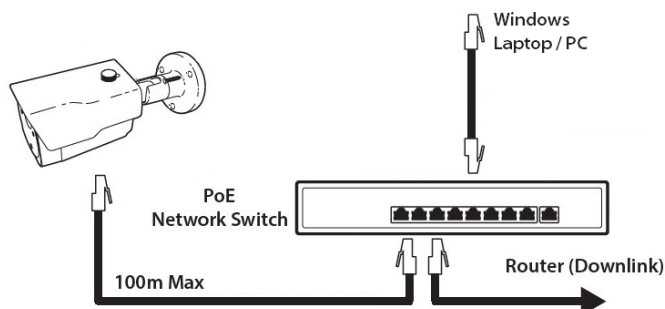
NOTE If the PC being used is on a different IP range to the PC then add the IP range of the camera to the PC using the below guide:-

PDF Version :- http://www.cctvmanuals.com/pdf/tips/How_to_add_an_IP_Range.pdf

HTML Version :-

http://www.cctvmanuals.com/tips/How_to_add_an_IP_Range/index.html

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. Enter the IP Address you have found can be used or have been assigned.



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

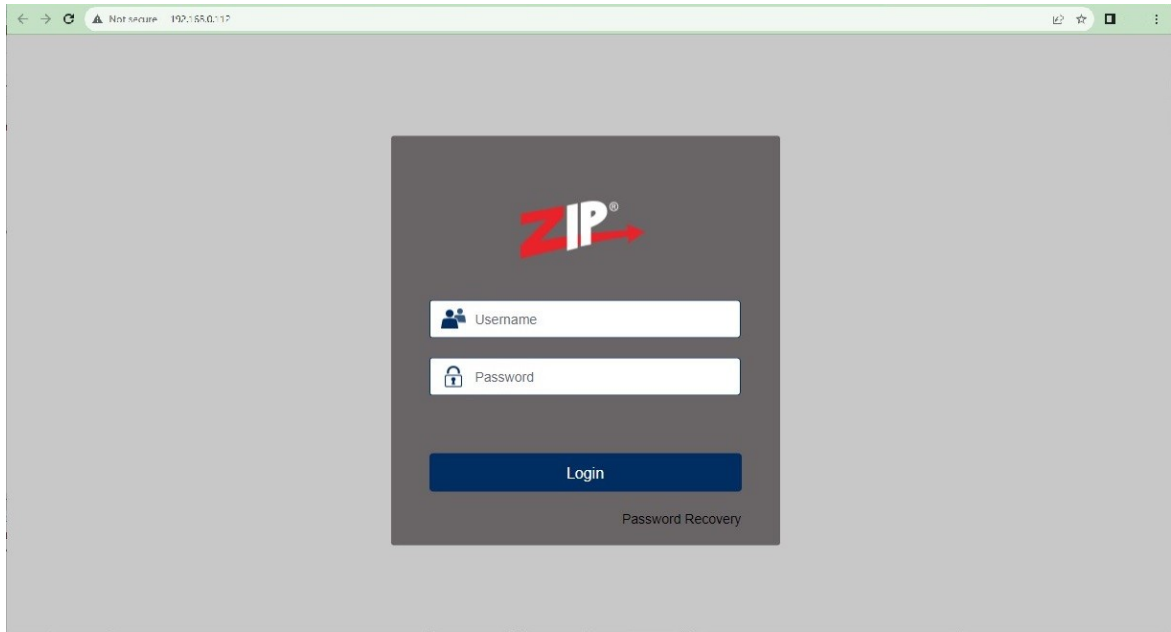


5. **Select** the IP address of the camera, then the browser interface will load up.



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

User Name	admin
Password	777777



6.1.3 SD Card

For stand-alone ANPR use with a IP-CAM555 the camera will require installation of a Micro SD card.

The camera is able to take up to a 256Gb, and it is recommended to us a minimum of a 32Gb SD card.

The Micro SD Card is required for database logging of the licence plate registration files and database in order for the camera to perform ANPR function.

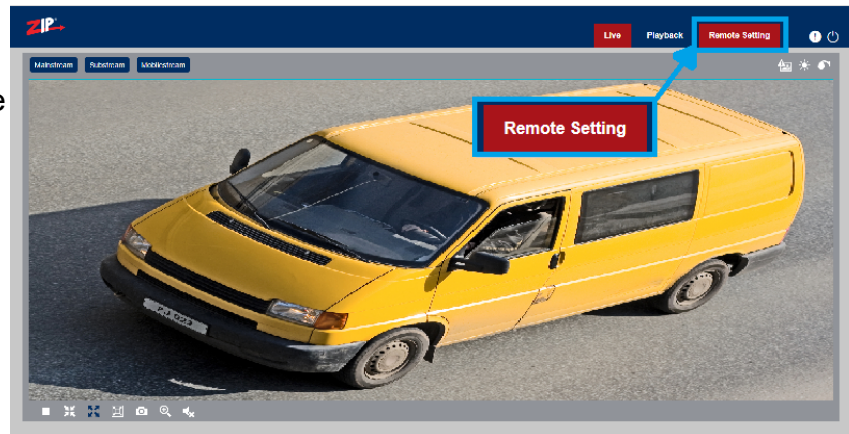
If the files on the SD Card are deleted or corrupt, the card may require formatting in order to continue using it.

1. Follow the instructions in [Mounting and SD Card Installation](#) first.

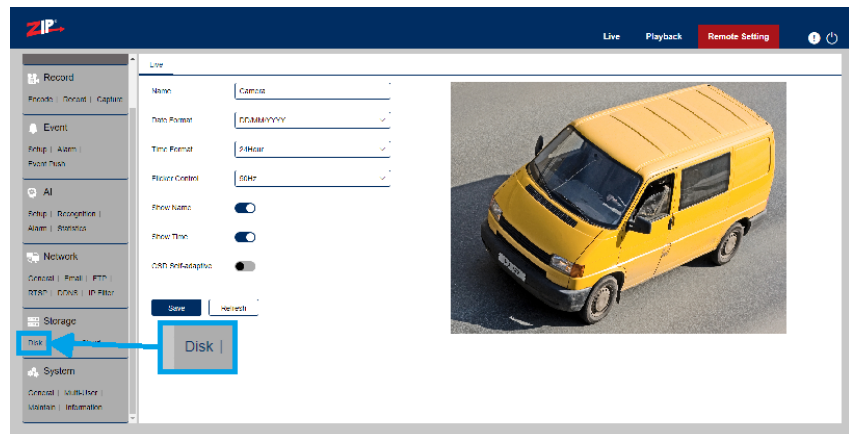
Ensure the camera is down-powered whilst inserting the SD Card and then re-power the camera once the SD card is installed.

2. Go to the web interface of the camera, this can be done following the steps in [How to Login via Browser \(2\)](#)

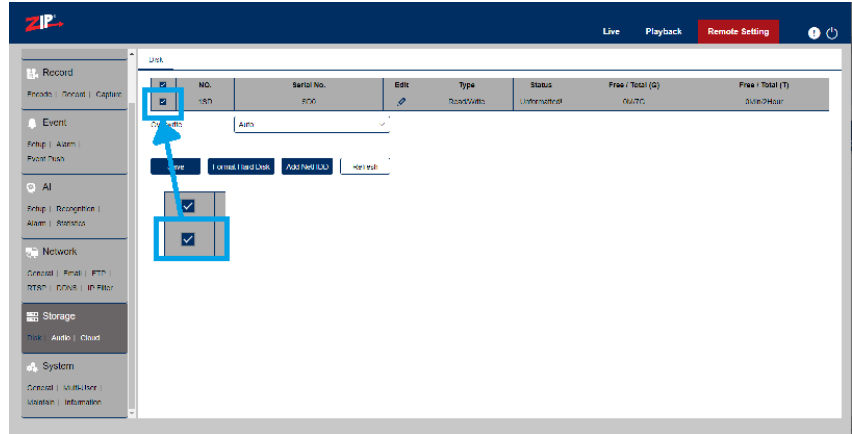
1. Go to the **"Remote Settings"** tab across the top of the page.



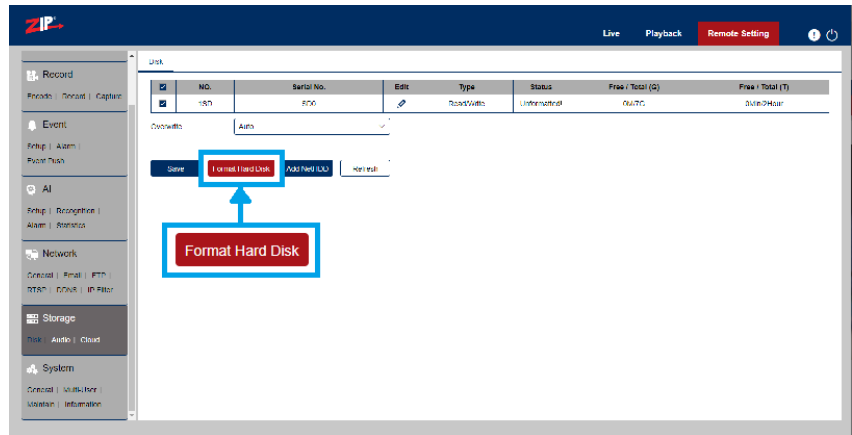
1. Go to **"Storage"** then **"Disk"**.



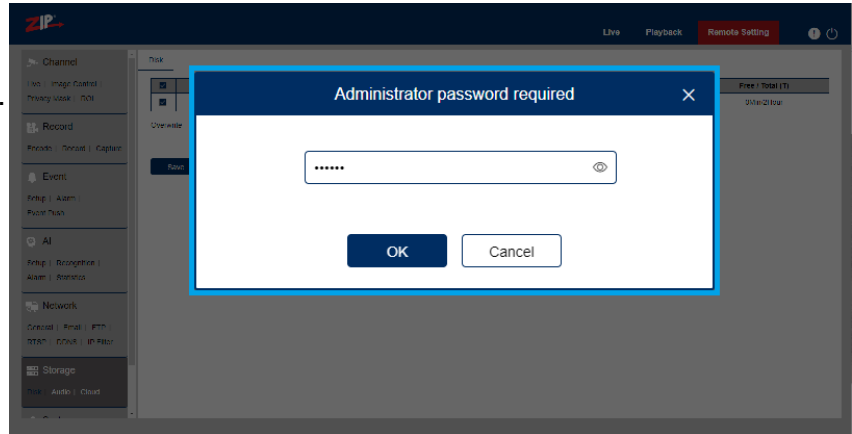
1. Select the **"Tick"** option for the SD Card in the disk table.



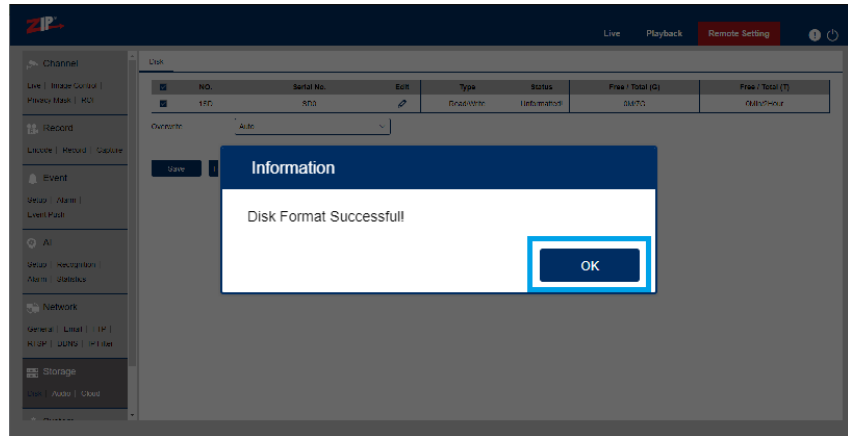
1. Select the **"Format Hard Disk"** button.



1. Enter the admin password for the camera's password.



1. Wait for the SD Card to format then, click the **"Ok"** Button when the message shows **"Disk Format Successful"**.



6.2 Camera Configuration

6.2.1 Date and Time

It is important that the date and time in the camera is always correct, to ensure accuracy of license plate recognition results, it is recommended to use an external time source to sync to the camera.

Navigate to: **Remote Settings > System > General > Date and Time**

Ensure the camera has internet access when using an online time source, it is recommended to set NTP Server synchronization.

The screenshot displays the 'Date and Time' configuration page in the ZIP camera's web interface. The interface includes a top navigation bar with 'Live', 'Playback', and 'Remote Setting' tabs. A left sidebar menu lists various configuration categories: Channel, Record, Event, AI, Network, Storage, and System. The 'System' category is expanded, showing 'General', 'Multi-User', 'Maintain', and 'Information' sub-menus. The main content area is titled 'Date and Time' and 'Daylight Saving Time'. It contains the following settings:

- Time setting mode:** Radio buttons for 'Static' and 'NTP server synchronization' (selected).
- Date Format:** A dropdown menu set to 'Day/Month/Year'.
- Time Zone:** A dropdown menu set to 'GMT'.
- Time Format:** A dropdown menu set to '24Hour'.
- System time:** Two input fields showing '22/11/2023' and '14 : 18 : 58'.
- Server Address:** A dropdown menu set to 'time.windows.com'.

At the bottom of the configuration area, there are three buttons: 'Save', 'Synchronize computer time', and 'Refresh'.

6.2.2 Device Name

It is recommended to set the camera up with a suitable device name, this is especially important when using multiple cameras on one network so each camera can be easily identified.

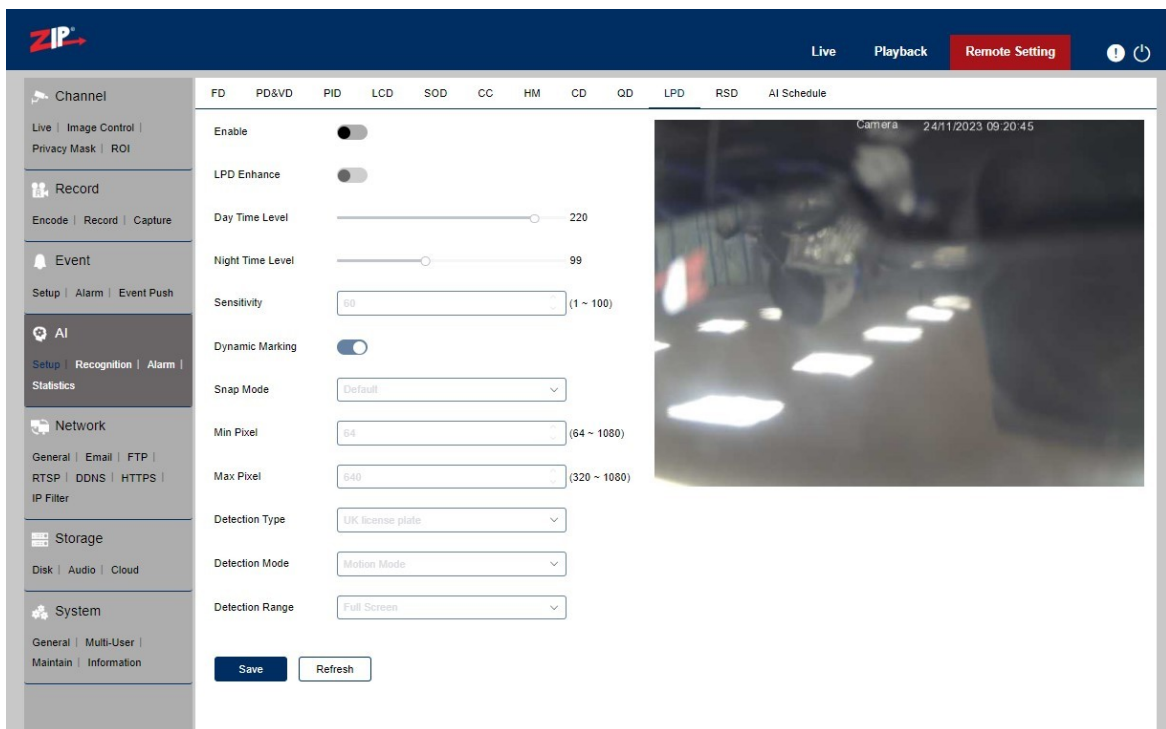
Navigate to: **Remote Settings > Channel > Live**


6.2.3 LPD - Detection Settings

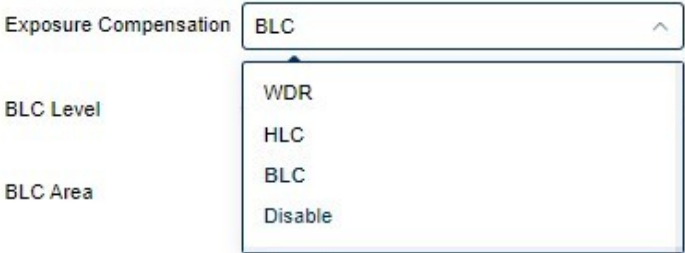
In order for Licence Plate Recognition to work, Licence Plate Detection needs to be setup first.

Navigate to: **Remote Settings > AI > Setup > LPD**

Note:- The camera requires a car / shape of a car AND number plate in order to properly perform Licence Plate Detection. If the camera does not detect a vehicle then it may not detect a licence plate, For example; if a licence plate is waved across the screen instead of a car (with a licence plate) then the camera will ignore this.



Field Name	Description
Enable	This needs to be enabled for licence plates to be detected by the camera.
LPD Enhance (Day Time Level / Night Time Level)	<p>Enable and adjust for the cameras built-in image sharpening to help improve picture quality on moving vehicles.</p> <p>If the error message "Please close Exposure Compensation" appears;</p> 

	<p>Then go to Channel > Image Control > Set Exposure Compensation to Disable</p> 
<p>Sensitivity</p>	<p>Set the Sensitivity of the detection. this can be set from 1-100.</p> <p>Note:- The default is 60, however may need to be lowered if there are false triggers, for example; when there is text on the side of a vehicle or signs that can interfere with detection.</p> <p>If the number plate only populates a small portion of the image, then the sensitivity can be increased, however this can cause false triggers.</p>
<p>Dynamic Marking</p>	<p>Allows for the camera to display on the Live Image a green detection square where the camera is detecting a number plate.</p> <p>Note:- this setting is good for testing, as it provides a visual representation on the live view if a numberplate is being detected.</p>
<p>Snap Mode - Set how the camera will capture thumbnail snapshots when triggered.</p>	<p>Realtime Mode - Will only capture when subjects are first detected. Additional thumbnail snapshots will only be captured if the subject leaves the camera's image and returns.</p> <p>Optimal Mode - Only capture from just before the subject leaves the image.</p> <p>Interval Mode - Customize how many and how often the subject is captured using the snap num and snap frequency fields.</p>
<p>Min Pixel / Max Pixel</p>	<p>Minimum Pixel - Set the minimum trigger size, this can be set as a width between 64 - 1080 pixels.</p> <p>Maximum Pixel - Set the maximum trigger area size, this can be set as a width between 320 - 1080 pixels.</p>
<p>Detection Type</p>	<p>For best results leave on the default setting - UK License plate.</p>
<p>Detection Mode - How the detection will handle motion</p>	<p>Motion mode - Will only detect moving subjects.</p>

and stationary objects.	Static mode - Will detect moving subjects but also stationary license plates in the alarm area.
Detection Range	Set to Full screen or a custom area
Click Save after making any changes	

6.2.4 LPR - Recognition Database

As default all licence plates that are detected will be classed as "Unknown" unless they match with licence plates which are entered into a group in the Recognition Database.

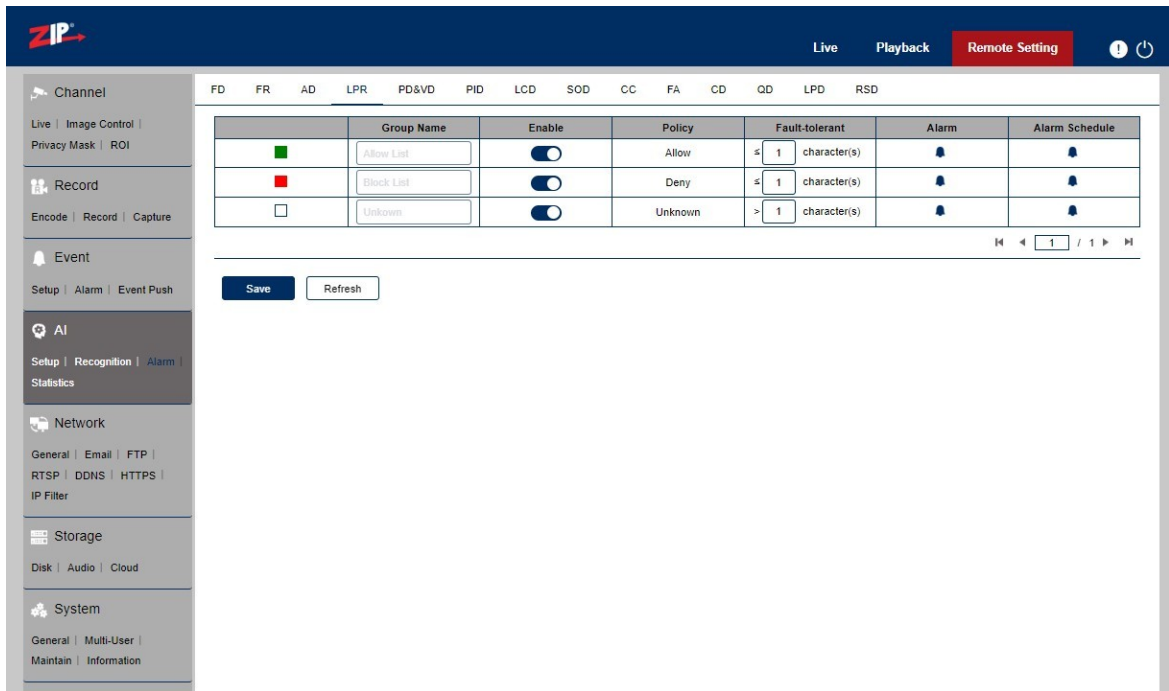
License plates can be added to the default "Allow" or "Block" list groups, additional groups can be added for specific scenarios if required.

6.2.5 LPR - Recognition Alarm

The camera can be used to trigger an "Alarm" when specific licence plates are detected.

Navigate to: **Remote Settings > AI > Alarm > LPR**

Note:- **Do not** setup any alarm triggers in **Remote Settings > AI > Alarm > LPD**, as these will override and interfere, with alarm triggers set in LPR.



Each group can have alarm triggers and a different schedule.

For example;

An Allow list scheduled between 8am and 5pm to trigger the alarm output of the camera, to open a barrier.

A block list could be scheduled at weekends to send an email via SMTP.

Field Name	Description
Group Name	Groups can be added or customised in LPR - Recognition Database ²⁷
Enable	Enable or disable the recognition alarm triggers for a specific group.
Policy	This is not adjustable and as default is set to Allow, Deny or Unknown depending on the group.
Fault-tolerant	A number of characters can be set, which allows the camera to still recognise a numberplate even if it misreads the numberplate.

	<p>This setting can be useful for fast moving vehicles or when the camera is positioned at an angle where the number plates may not be clear, and cause faults in the reading</p> <p>For example; If the camera recognises a number plate similar to one in the database but it misreads one character then this can still trigger recognition.</p>
Alarm	Triggers can be customised for each group list. These are detailed below
Alarm Schedule	Certain alarm triggers can have a custom schedule. As default this is set to all-day and all-week.

Allow List
×

Latch Time

Alarm Out

License Plate Capture

Send Email

FTP Picture Upload

Cloud Picture

Event Push

Field Name	Description
Latch Time	The Latch Time is the amount of time the alarm output remains active. You can set the Latch Time up to a maximum of 60 seconds using the drop down list.
Alarm Out	<p>Trigger alarm out to activate a 3rd party device such as a barrier.</p> <p>Note:- The alarm output from the camera is a normally open 0V relay. With a switching load capacity of 2A @ 30V DC.</p>
License Plate Capture	This setting allows for the triggering license plate data to be captured, and also sent in the data for certain triggers (Email or Event push).
Send Email	Enable when using SMTP to trigger email notifications of triggered license plates.
FTP Picture Upload	FTP requires a FTP server setup, this can be done via a 3rd party FTP server or using the RoboPlate

	<p>FTP Server ;</p> <p>https://softcctv.com/store/Item/SOFT1044</p>
Cloud Picture	A picture can be sent to the cloud - note this requires cloud and Email SMTP setup.
Event Push	<p>An event push can be sent to the built-in push notification server (for the ZipVision Pro app)</p> <p>Or via Event push (HTTP) which can be setup directly in the camera.</p>

Schedule
×

Alarm Out
 Send Email
 FTP Picture Upload
 Cloud Picture

OK
Cancel

Browser Menu Settings

7.1 IP-CAM555W

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

For AI Settings please see [AI Setup](#) ⁴³

Channel	Live	Name	Customise Name	
		Date Format	DD/MM/YYYY / MM/DD/YYYY / YYYY/MM/DD	
		Time Format	24Hour / 12Hour	
		Flicker Control	50Hz / 60Hz	
		Transparency	1 ~ 128 (Default 64)	
		Show Name	Enable / Disable	
		Show Time	Enable / Disable	
		OSD Self-adaptive	Enable / Disable	
		Refresh / Save		
		Image Control	IR-CUT Mode	Automatic Mode / Colour Mode / Black White Mode / Image Mode / Schedule
	Corridor Mode		Disable / Enable	
	Angle Trad		180 / 0	
	Mirror		Disable / Vertical / Horizontal / All	
	Exposure Compensation		Disable / HLC / BLC / WDR	
	White Balance		Automatic Mode / Manual	
	Shutter		Automatic Mode / Manual	
	Time Exposure		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	
	3D Noise Reduction		Auto / Disable / 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	Lowest / Lower / Low / Medium / Higher / Highest	

		Non-ROI Fps (1-19)	12	
		Refresh / Save		
Record	Encode	Mainstream	Resolution	3840 x 2160 / 3072 x 1728 / 2592 x 1944 / 2592 x 1520 / 2304x1296 / 1920x1080 / 1280 x 960 / 1280x720
			FPS	1 ~ 25 (Default 25)
			Video Code Type	H.265 / H.264
			Video Code Level	Main 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 / 16384
			I Frame Interval	1 ~ 100 (Default 50)
			Audio	Enable / Disable
			Refresh / Save	
		Substream	Resolution	1920 x 1080 / 1280x720 / 640x480 /
			FPS	1 ~ 25 (Default 25)
			Video Code Type	H.265 / H.264
			Video Code Level	Main Profile
			Bitrate Control	CBR / VBR
			Bitrate Mode	Predefined / User Defined
			Bitrate	128 / 160 / 192 / 224 / 256 / 320 / 384 / 448 / 512 /

				768 / 1024 / 1536 / 2048 / 3072 / 4096	
			Audio	Untick / Tick	
			I Frame Interval	1 ~ 100 (Default 50)	
			Refresh / Save		
			Mobilestream	Enable	Enable / Disable
				Resolution	640x480 / 320x240
				FPS	1 ~ 25 (Default 25)
				Video Code Type	H.265 / H.264
				Video Code Level	Main Profile
				Bitrate Control	CBR / VBR
				Bitrate Mode	Predefined / User Defined
				Bitrate	128 / 160 / 192 / 224 / 256 / 320 / 384 / 448 / 512 / 768 / 1024 / 1536
				Audio	Untick / Tick
				I Frame Interval	1 ~ 100 (Default 50)
			Refresh / Save		
Record / Capture	Stream Mode	MainStream / SubStream			
	Record	Enable / Disable			
	PreRecord	Enable / Disable			
	Netbreak	Disable / Enable			
Schedule	Customise Schedule				
	Refresh / Save / Default				
Event	Setup	Motion	Enable	Enable / Disable	
			Sensitivity	1 ~ 8 (Default 3)	
	Alarm	Motion	Latch Time	5s / 10s / 20s / 30s	
			Post Recording	OFF / 5s / 10s / 20s / 30s	
			Send Email	Enable / Disable	
			FTP Picture Upload	Enable / Disable	
			FTP Video Upload	Enable / Disable	
			Cloud Picture	Enable / Disable	
	Cloud Video	Enable / Disable			

			Alarm Out	Enable / Disable
			Enable Record	Enable / Disable
			Event Report	Enable / Disable
			Event Push	Enable / Disable
			Save / Schedule / Refresh	
		Sound Detection	Latch Time	5s / 10s / 20s / 30s
			Post Recording	OFF / 5s / 10s / 20s / 30s
			Send Email	Enable / Disable
			FTP Picture Upload	Enable / Disable
			FTP Video Upload	Enable / Disable
	Cloud Picture		Enable / Disable	
	Cloud Video		Enable / Disable	
	Alarm Out		Enable / Disable	
	Enable Record		Enable / Disable	
	Event Report		Enable / Disable	
		Event Push		
	Event Push	Enable	Enable / Disable	
		Name	Customise	
		Push Way	HTTP / UDP	
		Username	Customise	
Password		Customise		
Server Address		Customise		
Port		Customise (Default 123)		
URL		API/AlarmEvent/EventPush		
Method		POST / GET		
Interval		OFF / 1 Min / 5 Min / 10 Min		
	Save / Refresh			
AI – Setup	FD (Face Detection)	Enable	Enable / Disable	
		Dynamic Marking	Enable / Disable	
		Face Enhance	Optimal Mode / Realtime Mode / Interval Mode	
		Apply Mode	Frontal View / Multi View / Customize	
		Min Pixel	32 ~ 1080 (Default 64)	
		Max Pixel	320 ~ 1080 (Default 640)	
		Detection Mode	Static Mode / Motion Mode	
		Rule Kind	Rect / Line	
		Detection Range	Full Screen / Customize	
		Save / Refresh		
	PD & VD (Person &	Enable	Enable / Disable	

Vehicle Detection)	Sensitivity	0 ~ 100 (Default 60)
	Dynamic Marking	Enable / Disable
	Snap Mode	Default / Realtime Mode / Interval Mode
	Min Pixel	64 ~ 1080 (Default 64)
	Max Pixel	320 ~ 1080 (Default 640)
	Detection Type	Pedestrian & Vehicle / OFF / Person / Vehicle
	Detection Mode	Motion Mode / Static Mode
	Detection Range	Full Screen / Customize
	Save / Refresh	
PID (Perimeter Intrusion Detection)	Enable	Enable / Disable
	Sensitivity	1 to 4 (Default 2)
	Dynamic Marking	Enable / Disable
	Detection Type	Motion / Pedestrian & Vehicle / Person / Vehicle
	Rule Number	1 to 4
	Rule Enable	Enable / Disable
	Rule Type	A→B / B→A / A←→ B
Save / Refresh		
LCD (Line Crossing Detection)	Enable	Enable / Disable
	Sensitivity	1 to 4 (Default 2)
	Dynamic Marking	Enable / Disable
	Detection Type	Motion / Pedestrian & Vehicle / Person / Vehicle
	Rule Number	1 to 4
	Rule Enable	Enable / Disable
	Rule Type	A→B / B→A / A←→ B
Save / Refresh		
SOD (Stationary Object Detection)	Enable	Enable / Disable
	Sensitivity	1 to 4 (Default 2)
	Dynamic Marking	Enable / Disable
	Rule Number	1 to 4
	Rule Enable	Enable / Disable
	Rule Type	Legacy / Lost / Lost & Legacy
Save / Refresh		
CC (Cross Counting)	Enable	Enable / Disable
	Sensitivity	1 to 4 (Default 2)
	Dynamic Marking	Enable / Disable
	Type	Person / Motion / Vehicle
Alarm Number	1 to 255	

		Start Time	User definable
		End Time	User definable
		Rule Number	1
		Rule Enable	Enable / Disable
		Rule Type	A→B / B→A
		Save / Refresh / Reset Count	
		HM (Heat Map)	Enable
	Rule Number		1
	Rule Enable		Enable / Disable
	Save / Refresh		
	CD (Crowd Density)	Enable	Enable / Disable
		Sensitivity	1 to 4 (Default 2)
		Dynamic Marking	Enable / Disable
		Min Pixel	64 ~ 1080 (Default 64)
		Max Pixel	320 ~ 1080 (Default 640)
		Max Detection Number	1 ~ 500 (50)
		Detection Range	Customize / Full Screen
		Rule Number	1
		Rule Enable	Enable / Disable
		Save / Refresh	
	QD (Queue Depth)	Enable	Enable / Disable
		Sensitivity	1~ 4 (Default 60)
		Dynamic Marking	Enable / Disable
		Min Pixel	64 ~ 1080 (Default 64)
		Max Pixel	320 ~ 1080 (Default 640)
		Max Detection Number	1 ~ 500 (50)
		Max Pro Time	1 ~ 3600 (60)
		Detection Range	Customize / Full Screen
Rule Number		1	
Rule Enable		Enable / Disable	
LPD (License Plate Detection)	Enable	Enable / Disable	
	LDP Enhance	Enable / Disable	
	Day Time Level	0~ 255 (Default 220)	
	Night Time Level	0~ 255 (Default 99)	
	Sensitivity	1~ 100 (Default 60)	
	Dynamic Marking	Enable / Disable	
	Snap Mode	Default / Realtime Mode / Interval Mode	

		Min Pixel	64 ~ 1080 (Default 64)	
		Max Pixel	320 ~ 1080 (Default 640)	
		Detection Type	European license plate / American license plate	
		Detection Mode	Static Mode / Motion Mode	
		Detection Range	Customize / Full Screen	
		Save / Refresh		
	RSD (Rare Sound Detection)	Enable	Enable / Disable	
		Sensitivity	1~ 100 (Default 60)	
		Detection Type	Baby Crying Sound / Dog Barking / Gunshot	
		Save / Refresh		
	AI Schedule	Customise Schedule		
		Save / Refresh		
	Alarm - FD / LPR / PD&VD / PID / LCD / SOD / CC / CD / QD / LPD / RSD	Post Recording	OFF / 5s / 10s / 20s / 30s	
		Send Email	Enable / Disable	
		FTP Picture Upload	Enable / Disable	
		Cloud Picture	Enable / Disable	
		Alarm Out	Enable / Disable	
		Enable Record	Enable / Disable	
		Event Report	Enable / Disable	
		Save / Schedule / Refresh		
	Statistics	Human & Vehicle Detection	Select Date & Day / Intelligent / Search / Export	
		Cross Counting Statistics - Report Type	Daily Report / Weekly Report / Monthly Report / Annual Report	
		Detection Type	Motion / Person / Motor Vehicle / Non-motorised Vehicle	
		Cross Type	Cross In / Cross Out	
		System Time	Select Date	
		Column Chart / Line Chart		
		Heat Map Statistics – Report Type	Daily Report / Weekly Report / Monthly Report / Annual Report	
		Date	Customise	
		Start Hour	Customise	
		End Hour	Customise	
		Space Heat Map /Time Heat Map		
		Spatial Density Legend		
		Search		
Network		General	DHCP	Enable / Disable
	IP Address		192.168.10.1	Test
	Subnet Mask		255.255.255.0	

	Gateway	192.168.10.254	
	IPv6 DHCP	-	
	IPv6 Address	-	
	IPv6 Gateway	-	
	DNS 1	192.168.10.254	
	DNS 2	-	
	IPv6 DNS 1	192.168.10.254	
	IPv6 DNS 2	-	
	Multicast Main stream	Enable / Disable	
	Video Encryption Transmission	Enable / Disable	
	Save / Refresh		
PPPoE	Enable PPPoE	Enable / Disable	
	Username	User-definable	
	Password		
	IP Address		
	Save / Refresh		
SNMP	Enable	Enable / Disable	
	SNMP Version	User-definable	
	SNMP Port		
	Read Community		
	Write Community		
	Trap IP Address		
	Trap Port		
	Save / Refresh		
Port Configuration	HTTP Port	Enable / Disable	
	Client Port	User-definable	
	HTTPS Port		
	RTSP Port		
	Muticast Port	1024 – 65535	
	P2P Enable	Enable / Disable	
	Save / Refresh		
Email	Email	Enable / Disable	
	Encryption	Disable / SSL / TLS / Auto	
	SMTP Port	25 / Customise	
	SMTP Server	Customise	
	User Name		
	Password		
	Sender Email		
	Receiver1		
	Receiver2		
	Receiver3		
Interval	1Min / 3Min / 5Min / 10Min		

		Refresh / Save / Test			
	FTP Settings	FTP Enable	Untick / Tick		
		Server	Customise		
		Port	21 / Customise		
		Username	Customise		
		Password			
		DIR Name			
		Transfer Images	Untick / Tick		
			Refresh / Save		
	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		
	DDNS	DDNS	Untick / Tick		
		Server	NO_IP / DYNDNS		
		Host Name	Customise		
		Username			
		Password			
			Refresh / Save		
	IP Filter	Enable	Enable / Disable		
		Filter Mode	Allow all IP connections / Allow the selected IP connections / Block the selected IP connections		
			Refresh / Save		
Storage	Disk	Disk Information			
		Refresh / Save / Format Hard Disk			
	Audio	Enable Audio	Tick / Untick		
		Output Volume	0 ~ 10 (Default 5)		
		Input Volume	0 ~ 10 (Default 5)		
		Audio Code Type	G711A / G711U / G726 16K		
			Refresh / Save		
	Cloud	Cloud Storage	Enable / Disable		
		Cloud Type	Dropbox		
		Driver Name	Customise (Default IP-PTZ650W)		
		Refresh / Save / Activate Cloud			
System	General	Date and Time	Time Setting mode	Static / NTP server synchronization	
			Date Format	Day/Month/Year Year-Month-Day Month/Day/Year	
			Time Zone	GMT -12:00 to GMT + 13:00	

			Time Format	24Hour / 12 Hour	
			System Time	User-definable	
			Server Address	Time.windows.com / time.nist.gov / pool.ntp.org / Define User	
			Save / Synchronize computer time / Refresh		
	Daylight Saving Time			Daylight saving time	Enable / Disable
				Start Time	User-definable
				End Time	User-definable
				Time Offset	1Hour / 2 hours
			Save / Refresh		
	Multi-User	Customize Each user		Password (Edit)	Username
					Password
					Password Strength
					Confirm
			Refresh		
	Maintain	Log		Log Type	System / CON. / Alarm / Account / Record / Storage / Network / All
Start Time				User-definable	
End Time				User-definable	
Load Default				All / Video / Record/ Event / All / Network/ Storage / System	
				Save / Refresh	
Upgrade			Path	Search Local Files	
Save / Load				Import File	Search Local Files
				Export File Name	Search Local Files
Auto Reboot				Auto-maintenance	Enable / Disable
				Time	Date / Week / Month
				Mon / Tues / Wed / Thur / Fri / Sat / Sun	
				Time	
		Save / Refresh / Reboot			
Information			Device ID		
			Device Name		

		Device Type
		Hardware Version
		Software Version
		Web Version
		Mac Address
		P2P ID
		Refresh

Zoom Controls

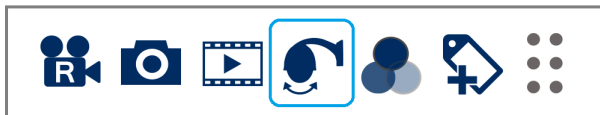
The IP-CAM555 & IP-CAM890 Cameras have built-in motorised zoom and focus controls.

This control can be made via the web (internet browser) interface of the camera or via the ZIP Recorder.

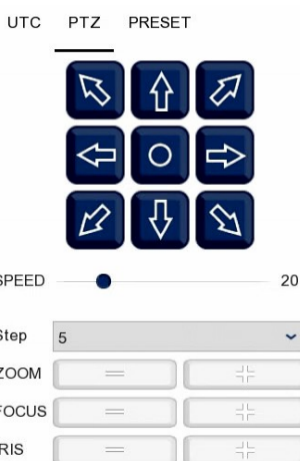
8.1 Control via ZIP Recorder

Via an DVR / NVR with a monitor & mouse direct to access the PTZ menu:-

1. Click on the image in Live view.
2. Click on the PTZ button at the bottom of the screen.



3. Use Zoom + and - to zoom in and out. The camera will automatically focus once zoom control has been completed.



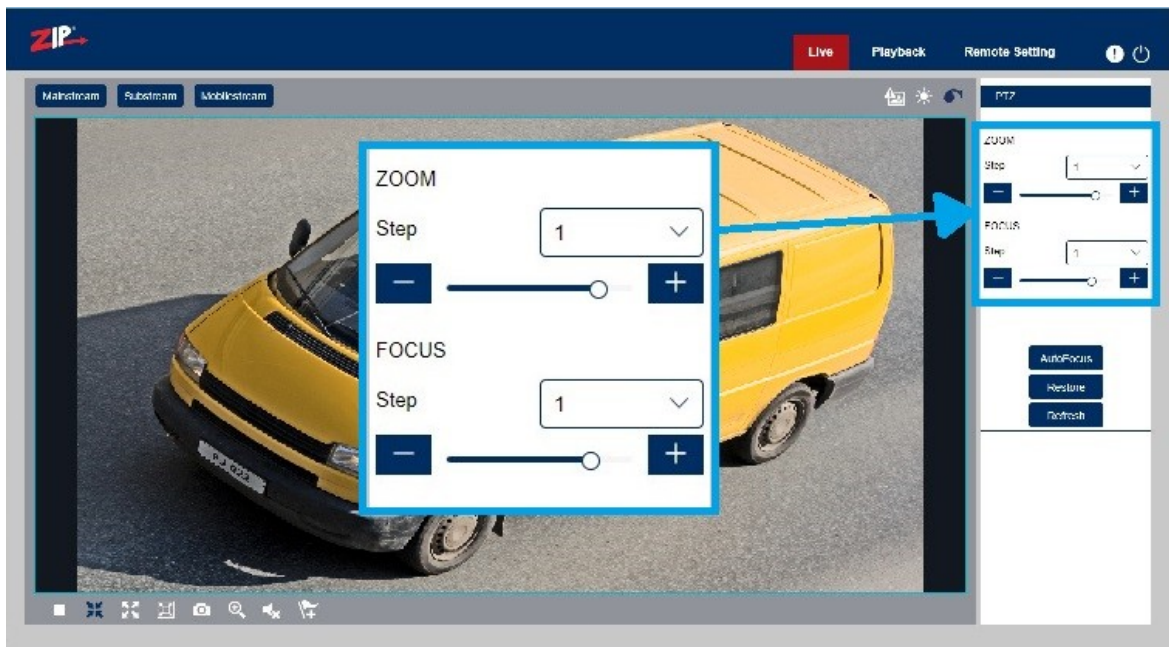
8.2 Control via Browser Interface

To adjust the zoom;

1. Navigate to Live View.
2. Select the PTZ icon at the top right of the viewing window.



3. Then select the Zoom + or - to adjust the zoom. The camera will automatically focus once zoom control has been completed.

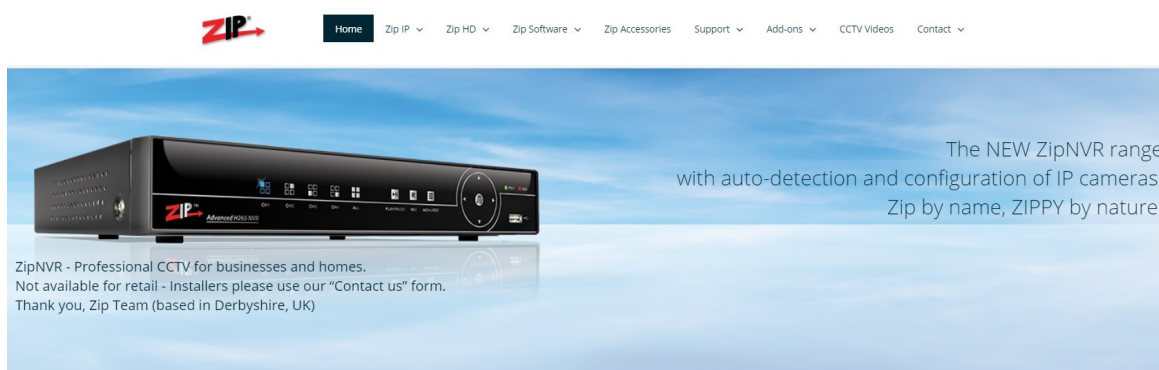


Extra Resources

9.1 ZipNVR.com Website

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

www.zipdvr.com



9.2 Adding IP Cameras to a ZIP recorder

How to guide on Adding IP Cameras:-

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

9.3 AI Setup

See the ZIP NVR full manual for more information on AI setup;

Note: AI Features will vary depending on model

Full Instruction Manual



<https://systemq.com/PDF/manual/xZIP4.pdf>

9.4 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.

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.

Specifications

11.1 IP-CAM555W

Image Sensor	1/ 2.8" Progressive CMOS
Resolution	4K (8MP) 3840(H)×2160(V)
Lens Type	5-50mm Motorised
Shutter	1/5 ~ 1/20000s
Day/Night	Mechanical (True Day-Night)
Min. Illumination	0 (With IR On)
IR Range	Up to 80m
Digital Noise Reduction	3D DNR
Video Compression	H.264 / H.265
Video Bitrate	8Kbps ~ 8Mbps
Stream Options	Mainstream, SubStream & MobileStream
Smart Feature	Perimeter Intrusion, Line Crossing, Pedestrian and Vehicle Detection, Facial Detection, Facial Recognition, Stationary Object detection, Cross Counting, Heat Map, Crowd Density, Queue Depth, Rare Sound Detection, License Plate Detection
System Compatibility	ONVIF (Profile S, Profile G, Profile T)
Connection	RJ45 10M / 100M Ethernet PoE
SD Card	Micro SD Card Slot (up to 256GB)
Alarm	1 Input / 1 Output
Audio (RCA)	1 Input / 1 Output
Input Voltage	PoE or 12V DC 1A (PSU Required)
Consumption	12W Max
Operating Temperature	From -30 to 60 deg°C
Backlight Control	BLC / D-WDR
Use	IP66 For External Use

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.



WEE/CG0783SS

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.



RoHS ✓

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