





# 4.7-104mm IP PTZ 22x Zoom - 2MP - White

# IP-PTZ622W

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ZipNVR.com

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# 1 Introduction

### 1.1 Key Features

The IP-PTZ622 has a 22x optical zoom with auto-focus and a 2MP (1080p) sensor.

The PTZ supports 360° endless rotation, up to 300 deg/sec pan speed, up to 100 deg/sec tilt speed. With on board features compatible with the Zip NVR and DVR.

# **1.2 Essential Tools and ZipFinder**

- 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

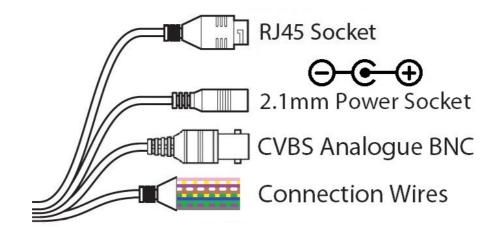
ZipFinder is a Windows PC software for discovering and configuring IP cameras a network.

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	(Uppgrade				Filman C:	nder	a
NO	P	Media Port	Web Port	Channel	Device Type	Device	nuer	Г
1	192.168.2.201	1241	.85	2	IP-CAMSSOR	V52020-11-11		
5 2	192 169 2 164	0003	80	1	IP.CAMRISH	12123_161222	265.255.265.0	- 3
3 3	102 160 2 168	6993	89	1	IP-CAMISOW	V2123_161222	265 256 255.0	
4	192 158 2 158	0003	94	1	P.CAM630W	V2122_161207	265.255.0.0	-
5	102 168 2 159	9993	80		IP-CAME30W	V2123_161222	255 255 265 0	19
1 4	102 168 2 154	1993	84	1	IP-CAMB150	V2122_161207	255 255 255.0	
1.7	192.158.2.152	0985	80	1	IP.CAM8158	12122_101007	255,255,255,0	*
1.1	102 168 2 162	9903	86	1	IP-CAM8158	V2.1.3.3_170110	255 255 255 0	3
•	<u>992 168 2 142</u>	9084	84	,	IP-CAMBBOW	V2.1.2.3_161222	255 216 255 3	
Vaerin	to ang admin	Device info	132 105 2 210	Media Port. 12	_	No Part 05	-	

# 2 Connections



### Powering the camera

**Option 1** - Power the camera from 12V DC / 24V AC (via the 2.1mm Power Socket).

**Option 2** - Power the camera using the PoE(48V) RJ45 Socket.

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

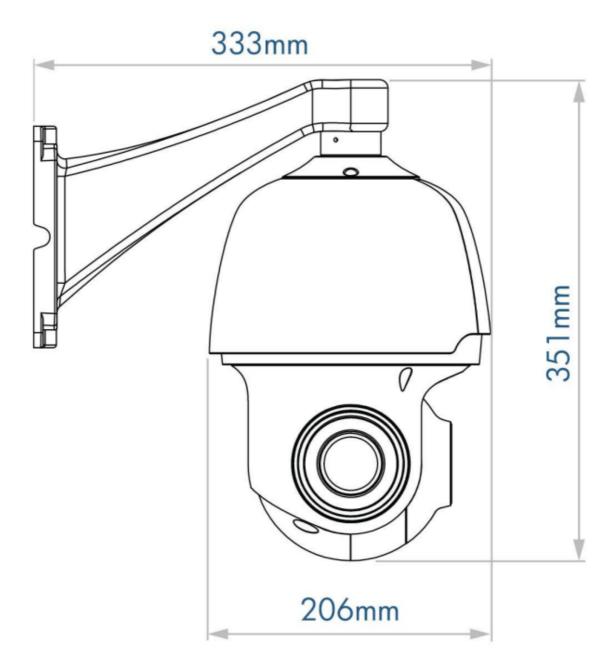
When connecting to a **ZIP Non-PoE NVR or DVR** plug the camera into a separate PoE switch

See <u>Setup Options</u>

### **Connection Wires**

AUDIO IN	Pink 📃
AUDIO OUT	White/Yellow
AUDIO GND	Purple
RS485+	White/Brown
RS485-	Brown
Ground	✓ Yellow/Green
ALARM IN	Blue
ALARM GND	Green/Purple
ALARM OUT+	Green
ALARM OUT-	Grey

# 3 Dimensions



## 4 Mounting

1. Mark the hole positions using the mounting bracket or using the measurements on the diagram to the right.

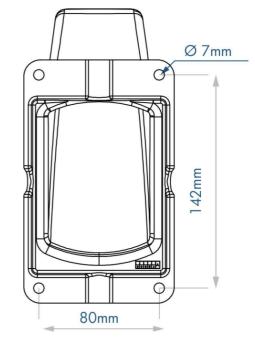
Drill the holes and install the wall plugs.

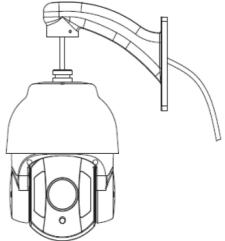
2. Feed the PTZ cable loom through the bracket, then secure using the short screws provided.

Attach the safety cable from the bracket to the dome.

3. Fit the PTZ to the wall using the screws provided. Ensure the PTZ cable enters via a lower position so that water does not run down to the camera.

Use silicon sealant around the base and where the cable enters the PTZ. The connections for the camera need to be installed in a waterproof box or similar.

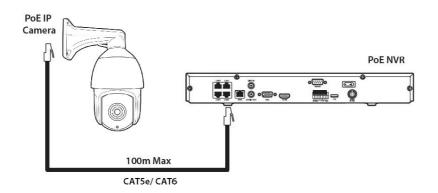




# 5 Setup Options

# 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.

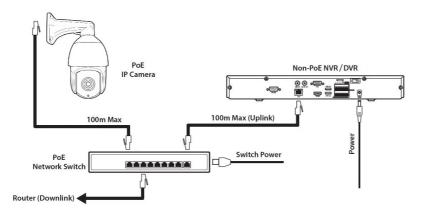
#### EPoE (Extended PoE)

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

# 6 PTZ Controls via ZIP NVR or DVR

The PTZ Control screen allows for adjust adjust the zoom, focus, PTZ movement and call presets or create new ones.

- 1. Click on the image in Live view
- 2. Click on the PTZ button



Camera can be selected using the channel option at the top left of the screen.



# 6.1 PTZ Controls Explained

The buttons on the left hand panel are used to control the camera's movement, zoom and focus

Icon/Control	Name	Function
	Directions	The direction buttons are used to control the left/right and up/down movement of the PTZ camera.
0	Auto Cruise	Press to start 360° auto scan. The PTZ will rotate constantly until pressed again. This is compatible with 2 speeds; Slow (speed = 0) , Fast (speed = anything above 0).
SPEED	Speed	Speed dictates how fast the camera moves around. Set the speed anywhere from 0 to 100 with 100 being the fastest.
STEP 5 ~	Step	The Step number determines how much the focus will change when focus +/- is used. A step number of 1 will only make minute adjustments allowing for fine tuning where as a step number of 20 will make larger more noticeable adjustments.
200M = 3	Zoom	Press + to zoom the camera lens in and - to zoom the camera lens out.
FOCUS =	Focus	As default the camera will use the built in auto-focus, however the camera can be manually focussed by pressing +/
IRIS =	Iris	As default the camera will automatically adjust its exposure with the built in iris, however Iris + and - allow you to manually open or close the camera's iris so you can control the amount of light hitting the image sensor.
Auto Focus	Auto Focus	The Auto Focus button will automatically focus the camera's image.
Restore	Restore	Clicking the Restore button will adjust the zoom back to the previous focal length. The camera's image can then be re-focused using the Auto Focus button.

### **6.2 PTZ Preset Controls**

The Preset screen is where you can create presets, call presets and manage cruises.



#### **Camera Selection**

You can select which camera you want to control from the Camera drop down list.

#### **Preset Controls Explained**

The buttons in the left hand panel are used to position the camera when saving preset locations, creating presets, calling presets, removing presets and starting/stopping cruises. The options available and functions may vary depending on the capabilities of the PTZ itself.

Icon/Control	Name	Function
	Directions	The direction buttons are used to control the left/right and up/down movement of the PTZ camera.
0	Auto Cruise	Press to start 360° auto scan. The PTZ will rotate constantly until pressed again. This is compatible with 2 speeds; Slow (speed = 0) , Fast (speed = anything above 0).

lcon/Control	Name	Function
No. 001	Preset Number	Enter a preset number to assign a new preset position or to call an existing preset.
Time 003	Dwell Time	When creating a new preset position the Dwell Time determines how long the PTZ will stay in that position during a cruise.
÷	Set Preset	After positioning the camera, entering the preset number and dwell time press to set a preset in the Preset List.
Î	Clear Preset	Press to delete the last saved preset
	Go To	Press to call the preset currently showing in the Preset Number field.
Start Cruise Stop Cruise	Start Cruise / Stop Cruise	The Start Cruise button will start to cycle through the saved preset positions in the Preset List. The PTZ will stay in each position for the defined Dwell Time then move on to the next position. The cruise will repeat until Stop Cruise is pressed.
Save	Save	Click Save to save the current Preset List.

#### **Total Presets**

The Total number shows the total number of presets currently in Preset List.

#### **Preset List**

The Preset List displays all of the previously set and saved presets in numeric order.

No.	Time	Clear	GO TO
1	10	Ô	5>
2	15	Ô	5
3	15	Ô	

**No.:** This column shows the Preset Number assigned to the previously saved camera position.

**Time:** The Time column shows how long the camera will stay in the preset position before moving on to the next position during a cruise.

**Clear:** The Clear button allows you to delete the a preset from the Preset List.

**Go To:** Clicking the arrow icon in the Go To column will move the camera to the previously saved position.

# 7 Preset Functions

Preset No.	Action
200	Start Tour 1
201	Start Tour 2
202	Start Tour 3
203	Start Tour 4
204	Start Pattern 1
205	Start Pattern 2
206	Start Pattern 3
207	Start Pattern 4
208	Start Pattern 1 Recording
209	Start Pattern 2 Recording
210	Start Pattern 3 Recording
211	Start Pattern 4 Recording
212	Stop Pattern Recording
213	Set Line Scan Start Point
214	Set Line Scan End Point
215	Start Line Scan at Low Speed
216	Start Line Scan at Medium Speed
217	Start Line Scan at High Speed
218	Start Default Cruise (360º Scan)

# 8 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 Contro	<b>50Hz</b> / 60Hz
		Transparency	1 ~ 128 (Default <b>64</b> )
		Show Name	· · · · · · · · · · · · · · · · · · ·
		Show Time	Untick / Tick
		Refresh / Save	)
	Camera		Auto / Colour Mode / Black White Mode /
	Settings		Schedule (B/W)
		<b>IR-CUT</b> Delay	1 ~ 36 (Default <b>2</b> )
		IR-LED	Auto / Off / On
		Flip	Untick / Tick
		Mirror	Untick / Tick
		Corridor Mode	Untick / Tick
		Angle Rotatior	180 / 0
		Backlight	Untick / Tick
		3D Noise	Auto / Disable / Manual
		Reduction	
		DWDR	Untick / Tick
		AGC	1 ~ 128 (Default <b>64</b> )
		White Balance	Auto / Manual / Indoor
		Shutter	Auto / Manual
		Time	1/5 / <b>1/8</b> / 1/15 / 1/25 / 1/50 / 1/100 / 1/150 /
		Exposure	1/180 / 1/200 / 1/240 / 1/250 / 1/300 /
		(max)	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
			Disable / Auto / Manual
		Refresh / Save	
	Privacy	Privacy Mark	
	Mask	Refresh / Save	
	ROI		MainStream / SubStream / MobileStream
		Region ID	1~8
		Enable	Disable / Enable
		Region	
		ROILevel	Worst / worse / bad / normal / better / best
		Non-ROI Fps	12
		(1-19)	
Record	Record	Refresh / Save	MainStream / SubStream
I VECOLO	Settings		
	Coungs	Record BroBooord	Tick / Untick
		PreRecord	Tick / Untick

	Normal	Customise S	chedule			
	Schedule	Refresh / Save / Default				
	Event	Customise Schedule				
	Schedule	Refresh / Save / Default				
Network	Network	Туре	DCHP / PPPoE	E / 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	1		
		DNS 2	Untick / Tick			
		UPNP	Untick / Tick			
		Multicast	Untick / Tick			
		P2P Switch	Untick / Tick			
		Port Range	1024 ~ 65535 (Client Port, HTTP Port)			
		Refresh / Sav	e	· · ·		
	Encoding	Mainstream	Resolution	<b>1920x1080</b> / 1280x960 / 1280x720		
			FPS	1 ~ 20 (Default <b>12</b> )		
			Video Code	<b>H.264</b> / H.265		
			Type	11.204 / 11.203		
			Video Code	Main Profile / Baseline /		
			Level	High Profile		
			Bitrate Control	CBR / VBR		
			Bitrate Mode	Predefined / User		
				Defined		
			Bitrate	256 / 320 / 384 / 448 /		
				512 / 640 / 768 / 896 /		
				1024 / 1280 / 1536 / 179		
				/ <b>2048</b> / 3072 / 4096 /		
				5120 / 6144 / 8192		
			Audio	Untick / Tick		
			I Frame Interval	1 ~ 80 (Default <b>24</b> )		
			Refresh / Save			
		SubStream	Resolution	<b>1280x720</b> / 640x480 /		
				320x240		
			FPS	1 ~ 20 (Default <b>10</b> )		
			Video Code Type	H.264 / H.265		
			Video Code	Main Profile / Baseline /		
			Level	High Profile		
			Bitrate Control	CBR / VBR		
			Bitrate Mode	<b>Predefined</b> / User Defined		
			Bitrate	128 / 160 / 192 / 224 / 256 / 320 / 384 / 448 /		

	1			
			512 / 640 / 768 / 896 /	
			<b>1024</b> / 1280 / 1536 / 1792	
			/ 2048 / 3072 / 4096	
		Audio	Untick / Tick	
			1 ~ 80 (Default <b>20</b> )	
		Refresh / Save		
	MobileStream		Tick / Untick	
		Resolution	<b>640x480</b> / 320x240	
		FPS	1 ~ 20 (Default <b>10</b> )	
		Video Code Type	<b>H.265</b> / 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 / <b>256</b> / 320 / 384 /	
			448/512/640/768/	
		Audio	896 / 1024 / 1280 / 1536 <b>Untick</b> / Tick	
			1 ~ 80 (Default <b>20</b> )	
		Refresh / Save	$1 \sim 60$ (Delault <b>20</b> )	
Email		Untick / Tick		
Settings		Disable / SSL / TLS / Auto		
Cettings		<b>25</b> / Customise		
	SMTP Server			
		Customise		
	-	Customise		
	Sender Email			
		Customise		
		Customise		
		Customise		
	Interval	1Min / 3Min / 5Min / 10Min		
		/ Test Email / Ca		
DDNS		Untick / Tick		
		NO IP / DYNDN	IS	
		Customise		
		Customise		
		Customise		
IP Filter	Refresh / Save			
			ections / Allow the selected	
			Block the selected IP	
		connections		
RTSP Port	RTSP	Tick / Untick		
	RTSP Port	1240 / Customis	e	

		Anonymous	Untick / Tick (No username or password	
		Login	required)	
			o://IP:Port/ch01/A A:0(MainStream),	
			, 2(MobileStream)	
		Refresh / Save	<u>)</u>	
	FTP Settings	FTP Enable	Untick / Tick	
		Server	Customise	
		Port	21 / Customise	
		Username	Customise	
		Password	Customise	
		DIR Name	Customise	
		Transfer Images	Untick / Tick	
		Refresh / Save		
Alarm	Motion	Enable	Untick / Tick	
	Detection	Sensitivity	1 ~ 8 (Default <b>3</b> )	
		Alarm Out	Untick / Tick	
		Latch Time	<b>5S</b> / 10S / 20S / 30S	
		Post	<b>5S</b> / 10S / 20S / 30S	
		Recording		
		Send Email	Untick / Tick	
		Enable Record	Tick / Untick	
		Refresh / Save		
	Alarm	Alarm Input	OFF / NC / NO	
	Settings	Latch Time	<b>5S</b> / 10S / 20S / 30S	
		Send Email	Untick / Tick	
		Alarm Out	Untick / Tick	
		Enable Record	Untick / Tick	
		Post Recording	0S / 5S / 10S / 20S / 30S	
		Refresh / Save	<u> </u>	
	Lens	Enable	Tick / Untick	
	Covered	Sensitivity	1 ~ 6 (Default <b>3</b> )	
		Send Email	Untick / Tick	
		Alarm Out	Untick / Tick	
		Latch Time	<b>5S</b> / 10S / 20S / 30S	
- ·		Refresh / Save		
Device	SD Card	SD Card Overwrite	Auto / Close	
		Refresh / Save		
	Audio	Enable Audio		
	Settings	Output Volume	0 ~ 10 (Default <b>5</b> )	
		Input Volume	0 ~ 10 (Default <b>5</b> )	
		Audio Code Type	<b>G711A</b> / G711U / G726 16K	

		Pofrach / Say	0		
		Refresh / Sav Major Type	Selectable Search		
	Log	Start Time	Selectable	Search	
		End Time			
	PTZ	Protocol	Selectable		
	PIZ		Pelco-D / Pelco-P		
		Baudrate	<b>9600</b> / 4800 / 2400 / 1200		
		Data Bit	8/7/6/5		
		Stop Bit	1/2		
		Parity	None / Odd / Even / Mark / Space		
		Address	1 ~ 254 (Default <b>254</b> )		
	PTZ Schedule	Enable	Untick / Tick		
		Туре	Line Scan / Tour / Pattern Scan / Restore		
		Customise S	chedule		
		Refresh / Save / Default			
System	Date/ Time	System Time	ne Customise		
		Date Format			
			MM/DD/YYYY		
		Time Format	<b>24Hour</b> / 12Hour		
		DST / NTP / S	Svnchronize		
		Daylight	Tick / Untick		
		Saving Time			
		Daylight	Week / Date		
		Saving Time			
		Time Offset	<b>1Hour</b> / 2Hour		
		Start Time	Customise		
		End Time	Customise		
		Refresh / Save			
	Users	Select User	Username	Customise	
			Password	Customise	
			Confirm	Customise	
			Active	Tick / Untick	
			Password	Tick / Untick	
			Refresh / Save		
	Info	Device Name			
		Serial No.			
		Hardware Version			
		Software Version			
		IE Client Version			
		MAC Address			
		MCU			
		P2P ID			
		Refresh			
	Smart Analysis	Report type	Daily report / Weekly report / Monthly report / Annual report		
		Alarm type	<b>Cross Counting (CC</b> ) / Perimeter Intrusion Detection (PID) / Line Crossing		

			Detection (LCD) (PD&VD) / Face	/ Pedestrian Detection			
		Statistical typ					
		Statistical type <b>Number of in</b> / Number of out / Number of in & out					
		Start time	Customise				
Fools	Firmware	List / Histogram / Line chart Upgrade file path					
10015	Update	Scan					
		Upgrade					
	Load Default						
		Record	Untick / Tick				
		Network	Untick / Tick				
		Alarm	Untick / Tick				
		Device	Tick / Untick				
		System	Tick / Untick				
		Tools	Tick / Untick				
		Smart	Tick / Untick				
		Simple / All / Save					
	Reboot	Auto Reboot	Untick / Tick				
		Reboot	Customise				
		Refresh / Save / Reboot					
Smart	Detection	PID	Name	Perimeter Intrusion			
				Detection (PID)			
			Switch	Untick / Tick			
			Latch Time	<b>5S</b> / 10S / 20S / 30S			
			Post Recording	<b>5S</b> / 10S / 20S / 30S			
			Sensitive	1/ <b>2</b> /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	<b>A&gt;B</b> / A <b a<="">B</b>			
			Enable Record	Untick / Tick			
			Refresh / Save				
		LCD	Name	Line Crossing Detectior (LCD)			
			Switch	Untick / Tick			
			Latch Time	<b>5S</b> / 10S / 20S / 30S			
			Post Recording				
			Sensitive	1/2/3/4			
			Scene	Indoor			
			Alarm Out	Tick / Untick			
			Send Email	Untick / Tick			
			Detection Type	Pedestrian &/or Vehicle			
			Rule Number	<b>1</b> /2/3/4			

		Rule Switch	<b>Untick</b> / Tick
		Rule Type	<b>A&gt;B</b> / A <b a<="">B</b>
		Enable Record	<b>Untick</b> / Tick
		Refresh / Save	
	PD & VD	Name	Pedestrian Detection
			(PD&VD)
		Switch	Untick / Tick
		Latch Time	<b>5S</b> / 10S / 20S / 30S
		Post Recording	<b>5S</b> / 10S / 20S / 30S
		Sensitive	0 ~ 100 (Default <b>60</b> )
		Alarm Out	Untick / Tick
		Send Email	Untick / Tick
		Snap Mode	Interval Mode / Realtime
			Mode / Default
		Snap Num	<b>1</b> / 2 / 3 / Unlimited
		Snap Frequency	
		Min Pixel	64 ~ 1080 (Default <b>64</b> )
			Pedestrian &/or Vehicle
		Detection Mode	Motion Mode / Static
			Mode
		Detection	Full Screen / Customize
		Range Enable Record	Untick / Tick
		Refresh / Save	
	FD	Name	Face Detection (FD)
		Switch	Untick / Tick
		Latch Time	<b>5S</b> / 10S / 20S / 30S
			<b>5S</b> / 10S / 20S / 30S
		Sensitive	0 ~ 100 (Default <b>60</b> )
			Untick / Tick
		Send Email	Untick / Tick
		Face Enhance	Untick / Tick
		Snap Mode	Interval Mode / Realtime
			Mode / Optimal Mode
		Apply Mode	Frontal View / Multi
			Angle / Customize
		Snap Num	1/2/3/ Unlimited
		Snap Frequency	
		Min Pixel	32 ~ 1080 (Default <b>32</b> )
			Motion Mode / Static
			Mode
		Rule Kind	Rect / Line
		Detection	Full Screen / Customize
		Range	
			<b>Untick</b> / Tick
			•
		Refresh / Save	

## 9 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

How to guide on Adding IP Cameras:-

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

#### 9.3 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.

# 10 Specification

1/2.8" Progressive CMOS			
2MP (1920x1080)			
22X Optical Zoom (4.7mm – 104mm)			
1/5 ~ 1/20000s			
Mechanical (True Day-Night)			
AGC On: Color: 0.5 lux, B/W: 0.05 lux, 0 lux with IR			
H.264 / H.265			
CVBS (Analogue) BNC Output			
1 Input / 1 Output			
1 Input / 1 Output			
RJ45 10M / 100M Ethernet PoE			
TCP/IP,HTTP,DHCP,DNS,DDNS,RTSP,PPPoE,			
SMTP,NTP,UPnP,FTP			
Max 5 Simultaneous User Logins			
RS485 or Ethernet PTZ Control			
Up to 100m			
BLC / D-WDR			
360°endless			
255			
Max.300°/sec			
IP66 For External Use			
-30°C~+60°C			
Approximately 2kg			
PoE (48V) / 24V AC / 12V DC (12V PSU Supplied)			
Max 24W			

# 11 Conditions

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



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

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