



Add more **ZIP**™ to your CCTV!...

...zippy to fit & zippy to learn!



FREE UK Managed DDNS



...Quick Start Guide

4, 8, 16 & 32ch Zip NVR Models

- Up To 8MP 4K Recording
- H.265 Compression
- PoE

# Introduction



Zip104



Zip108, Zip208



Zip226

Zip NVRs are designed for installation by a professional CCTV installer, for further support, please contact:

The Zip range of NVRs (Network Video Recorders) allow the user to view, record and playback ultra HD 4K CCTV footage.

Using the latest H.265 encoding, the Zip NVR is able to compress the larger 4K recordings into half the storage space compared to inferior H.264 systems. In effect you can record for twice as long.

PoE (Power over Ethernet) models can also power up to 16 IP cameras so you don't have to worry about a local power supply or running extra cabling, saving you time and money.

It has FREE software and mobile apps for linking to a router so your CCTV cameras can be viewed over the Internet and even on your mobile!

The Zip NVR is really easy to set up thanks to its built-in help menus, getting you up and running as quickly as possible, it even has an Autoport feature that configures your router for you. Every Zip NVR also comes with a FREE dynamic DNS which means you can connect to the Internet without having to fork out for a static IP address too.

Timed relays and the Kontrol & Kommand function allow you to control lights, gates, loudspeakers and many other third-party devices over the Internet using your Zip NVR as the control device.

With an intelligent operating system and client software that allows endless possibilities for the user, with a Zip NVR you really can...

“add more **ZIP** to your CCTV”

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The following questions are some of the most commonly asked when setting up and operating a Zip NVR. Hopefully the answers given on these pages, and information supplied throughout this quick-start guide, can resolve any problems you may have.

## 1 What is the default username & password?

The default username for your Zip NVR is 'admin' and the default password is '555555'.

## 2 How do I change the default admin password?

The easiest way to change the default admin password is during 'Smart Setup' on page 18. It can also be changed in the 'Setup' menu under the 'User' tab page 24.

## 3 Where is my ZipVision licence key?

You will find this on the ZipVision software CD itself.

## 4 How many PCs can I activate with my ZipVision licence key?

You can activate up to five PCs with your licence. Additional licences can be purchased via your installer or through resellers on [www.SoftCCTV.com/zipvision](http://www.SoftCCTV.com/zipvision).

## 5 How do I add IP cameras to the NVR?

IP cameras need to be setup on the same network as the NVR or connected directly to one of the PoE sockets if you have a PoE NVR. They can then be added to the NVR during 'Smart Setup' (see page 18) or through the 'Video' menu (see page 26).

## 6 How do I set it up to record?

By default the NVR will automatically record 24/7, however, there are multiple ways to set the NVR to record. The simplest way is to do it during 'Smart Setup' on page 18. To setup a recording schedule see page 25. Finally for manual recording see the front panel on page 6 or the IR remote control on page 13.

## 7 How long can I record for?

Recording times depend on the Hard Drive you have fitted and some of the record settings on the NVR. It is easy to record for over a month on an Zip NVR but to calculate your exact drive requirements, try using the HD Calculator tool at [ZipNVR.com](http://ZipNVR.com).

## 8 How do I back up an incident for the Police?

It is easy to back up recorded footage onto a USB drive either at the NVR itself or using ZipVision software on your PC (locally or remotely). See how to backup to a USB drive on page 40.

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### Can I add alarm inputs to my Zip NVR?

Yes, you can add alarm inputs such as PIRs, door contacts, break beams or any NO/NC relay to trigger an alarm. For wiring information, please refer to our **'How To - Add Alarm Inputs'** guide on **page 36**.

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### Can I control other devices using my Zip NVR?

Yes, even over the Internet, the Zip NVR can control third-party equipment such as lights, sirens, gates and the popular VoiceOff loudspeaker. The Kontrol & Kommand timed relay allows for control of up to 248 different devices. Find out **'How To - Control 3rd Party Equipment'** on **page 46**.

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### Can I get a phone app to view my CCTV footage?

Yes, Zip NVR have both Android, iPhone and iPad apps so you can view your CCTV footage from anywhere in the world. Find out **'How To - Setup The Android Phone & iPhone App'** on **page 44** or **How To - Setup The Android Tablet & iPad App'** on **page 45**.

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### Can I install a bigger Hard Drive?

Most Zip NVRs take a minimum of a 6TB drive and some models take more than one drive. Find out **'How To - Install A 3.5" SATA Hard Drive'** on **page 41** of this guide.

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### What do I need to view my CCTV footage over the Internet?

You'll need a network cable (straight patch not crossover) and a router. See **'How To - Select A Network Address For Your NVR'** on **page 30** and **'How To - Set The Network Address Of Your NVR'** on **page 31**.

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### Do I need a static IP address?

No, Zip NVRs come with free dynamic DNS as standard so this will save you the cost and hassle of setting up a static IP. Find out **'How To - Configure Zip DDNS (Dynamic DNS)'** on **page 33**.

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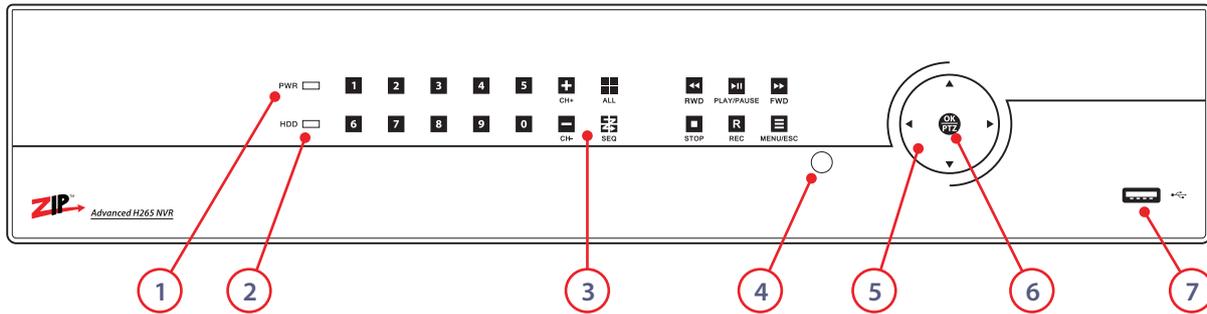
### How do I set up my router for port forwarding?

The Zip NVR has an Autoport feature which sets up port forwarding for you on compatible routers. You can also set the port forwarding manually. Find out **'How To - Configure Port Forwarding'** on **page 32**.

For more information on setting up port forwarding see online **Tip 58** for Netgear routers or **Tip 216** for BT routers.

# Front Panel

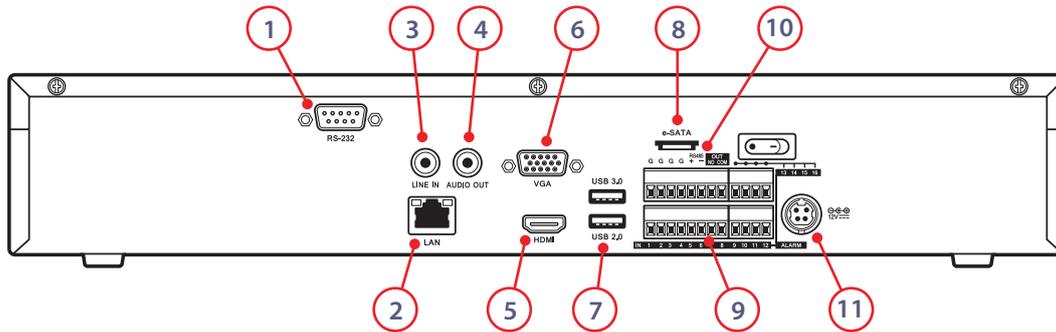
Zip NVR Front Panel (32ch PoE Model Shown)



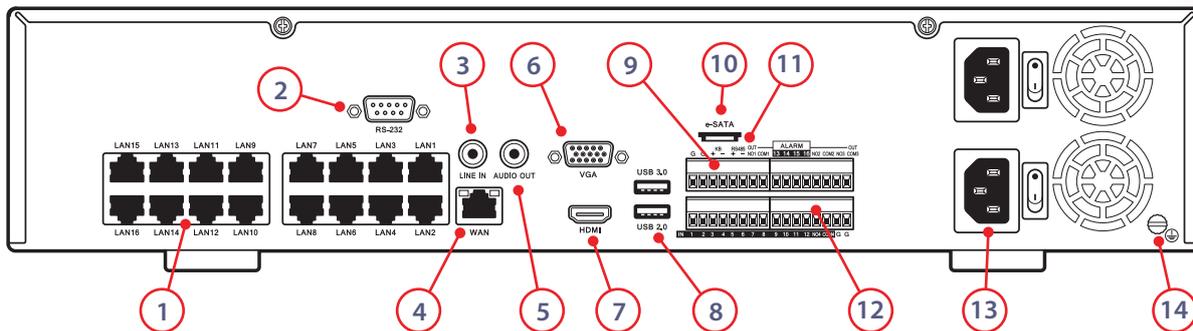
No.	Name	Icon / Appearance	Function / Description
1	POWER		Power indicator turns green when powered on.
2	HARD DISK DRIVE		HDD indicator turns red when a HDD is detected. Flashed red when any channel is recording.
3	CHANNEL SELECTION		Displays the channel indicated channel full screen. <i>(On selected models)</i>
	DISPLAY MODE		Cycle to next display mode with each press. Single channel full screen / 2x2 / 3x3 / 4x4 / 5x5 / All channels <i>(Available display modes depends on NVR model)</i>
	CHANNEL SELECTION / NUMERIC INPUT		Display selected channel full screen / Numeric input in a text field. <i>(On selected models)</i>
	CHANNEL UP / DOWN		Cycle up / down through available channels.
	SEQUENTIAL SWITCHING		Start / Stop sequential switching. Automatically switch between available channels. Dwell on each channel for up to 300 seconds.

No.	Name	Icon / Appearance	Function / Description
3 (Cont)	FAST FORWARD / REWIND		Fast Forward / Rewind video during playback.
	PLAY / PAUSE		Display playback screen. Play / Pause video during playback.
	STOP		Stop video playback / Stop manual recoding on selected channel.
	RECORD		Start manual recording of selected channel.
	MENU / ESCAPE		Display main menu / Exit current menu/screen.
	SEARCH		Display the video playback search screen.
	MUTE / UN-MUTE		Mute / un-mute audio during live view and playback. <i>(On selected models)</i>
4	IR RECEIVER		Receiver for IR remote control commands.
5	NAVIGATION		Directional keys for navigating through the NVR's menu system.
6	OK/PTZ		Confirm selection / Display PTZ controls.
7	USB INTERFACE		USB socket for mouse or backup device.

# Rear Connections - Standard NVRs



No.	Name	Function / Description
1	RS232	Connector for RS232 devices such as the VoiceOff (see pg46).
2	LAN Interface	Connector for LAN (Local Area Network). Also used for connecting up to 16 IP cameras.
3	AUDIO IN	RCA/Phono connector for audio input.
4	AUDIO OUT	RCA/Phono connector for audio output.
5	HDMI	HDMI video and audio output.
6	VGA	DB15 connector for VGA output. Display local video output and menu.
7	USB Interface	USB 3.0 and 2.0 ports for connecting up to 2 USB mouse or USB flash memory devices.
8	e-SATA Interface	e-SATA for added external HDD connections.
9	Alarm In/Out	Connection for 16 alarm inputs and four alarm outputs.
10	RS485 Interface	External keyboard control allows the NVR to be locked away securely.
11	Power	12V DC operation.



No.	Name	Function / Description
1	VIDEO IN (PoE)	Up to 16 RJ45 sockets for video input and PoE output for up to 16 cameras.
2	RS232	Connector for RS232 devices such as the VoiceOff (see pg46).
3	AUDIO IN	RCA/Phono connector for audio input.
4	LAN/WAN Interface	Connector for LAN (Local Area Network) or WAN (Wider Area Network). Also used for connecting up to 32 IP cameras.
5	AUDIO OUT	RCA/Phono connector for audio output.
6	VGA	DB15 connector for VGA output. Display local video output and menu.
7	HDMI	HDMI video and audio output.
8	USB Interface	USB 3.0 and 2.0 ports for connecting up to two USB mouse or USB flash memory devices.
9	Keyboard Interface	External keyboard control allows the NVR to be locked away securely.
10	e-SATA Interface	e-SATA for added external HDD connections.
11	RS485 Interface	Connector for RS485 devices. Connect the D+ and D- terminals to T+ and T- of PTZ receiver respectively.
12	Alarm In/Out	Connection for 16 alarm inputs and four alarm outputs.
13	Power	240V AC or 48V DC Operation (depending on model).
14	GND	Ground (needs to be connected when NVR starts up).

# System Setup & Connection Diagram



- 1 Connect Your Monitor**  
Connect and turn on your monitor(s).
- 2 Power Up Your NVR**  
Once your monitors are connected, power up your NVR.
- 3 Program Using Smart Setup**  
When the NVR boots up the **'Smart Setup'** menu will be displayed. In this menu you can quickly configure a lot of the key settings for the NVR. **page 18**
- 4 Advanced Programming**  
Now is a good time to set alarm triggers and schedules. This is the most effective way to capture footage. Setting different alarm types and recording schedules lets you choose when and what to record. This is done via the **'Setup', 'Video'** and **'Schedule'** options on the main menu. **page 24-26**
- 5 Network And Remote Monitoring**  
Networking your NVR allows you to backup footage using client software, receive email notifications, view real-time video, playback footage and control the NVR using a PC, mobile or tablet. Step by step guides on networking, remote monitoring, DDNS and port forwarding can be found in the **'How To'** section of the Main menu. **page 29**

# Ways To Control Your Zip NVR - *By mouse*

The simplest way to program and set up your Zip NVR is using a mouse, the on-screen keypad and the Disc menu. **We recommend** you connect the mouse to the rear USB port of the NVR, leaving the front USB port free for fast backing up of footage.



On Screen Soft Keypad

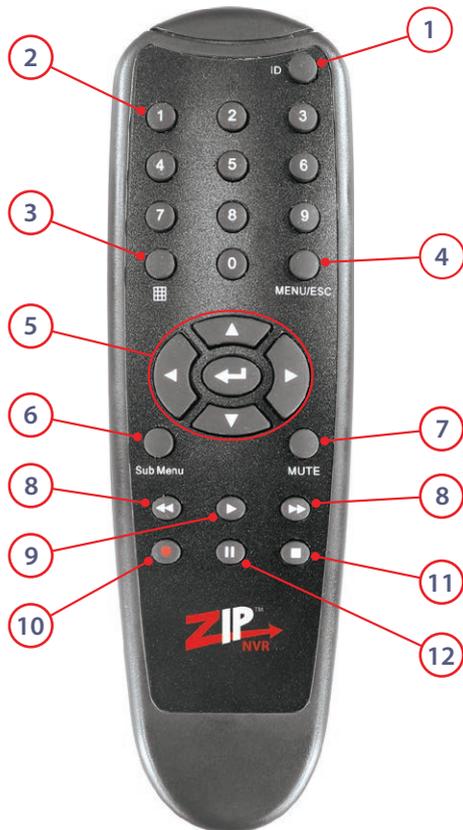
Key	Function / Description
Delete	Delete character to left of the cursor.
Enter	Confirm input.
Shift	Switch keyboard to upper case letters and symbols.
Space	Insert a space.
← →	Move cursor left / right.



USB 3 Button Mouse (Supplied)

Name	Action	Function / Description
Left-Click	Single Click	Live view: display Quick Setting toolbar. Menu: select and enter.
	Click & Drag	Privacy Masking and Motion Detection: select target area. Digital zoom-in: zoom in to target area. Live view: drag channel
Right-Click	Single Click	Live view: show menu. Menu: exit current menu to upper level menu.
Scroll-Wheel	Scrolling Up	Scroll up through highlighted field / drop down list
	Scrolling Down	Scroll up through highlighted field / drop down list

# Ways To Control Your Zip NVR - By IR Remote Control



No.	Button	Name	Function / Description
1	ID	ID	Control a specific NVR. Press 'ID' ► 'Device ID' e.g.1 ► 'Select' (Only used when multiple NVRs are present. See Tools / Info on pg27)
2	1	NUMERIC BUTTONS	Display selected channel full screen. Numeric input in a text field.
3	7	DISPLAY MODE	Cycle to next display mode with each press. Single channel full screen / 2x2 / 3x3 / 4x4 / 5x5 / All channels (Available display modes depends on NVR model)
4	MENU/ESC	MENU / ESCAPE	Display Main Menu / Exit current menu/screen. Exit current menu / screen / selection.
5	Directional keys	NAVIGATION	Directional keys for navigating through the NVR's menu system.
	SELECT	SELECT	Confirm selection. Display Live View menu.
6	SUBMENU	SUBMENU	Display Live View menu. Display Quick Setting toolbar.
7	MUTE	MUTE	Mute / un-mute audio during live view and playback.
8	REWIND / FAST FORWARD	REWIND / FAST FORWARD	Fast Forward / Rewind during playback.
9	PLAY	PLAY	Display playback screen. Resume video when paused.
10	RECORD	RECORD	Start recording of selected channel.
11	STOP	STOP	Stop video playback. Stop recording on selected channel.
12	PAUSE	PAUSE	Pause video during playback.



Three clicks completes most actions!

## Main Menu - Disc Menu System

Every Zip NVR has our ultra easy to use Disc menu system. With its clear and simple layout, it's easy to navigate and find all the features the Zip NVR has to offer.

This quick-start guide gives you a brief overview of the Disc menu and each submenu. For more in-depth information about the Zip NVR's menu system and settings, please refer to the full Zip NVR instruction manual supplied on the CD with the NVR.

- Power Up & Shutdown pg15
- Live View pg16
- Smart Setup pg18
- Playback pg21
- Playback Toolbar pg22
- Setup pg24
- Schedule pg25
- Video pg26
- Tools pg27
- Backup pg28
- How To pg29



### Turn Off

**Username**

**Password**

**Turn Off** **Reboot** **Log Off**

Shutdown Interface

**Default Admin Password: 555555**

## New Password Reminder

We strongly recommend that you change the default password, please feel free to use this box to write down a password reminder to jog your memory.

**Proper startup and shutdown procedures are crucial for extending the life of the device.** The hard drive spins at around 7000rpm, cutting power to the NVR stops the hard drive instantly which can cause damage. When shut down correctly the hard drive slows down gradually to prevent this.

## Power Up

With the NVR plugged into the mains socket, power the NVR using the switch on the rear.



The power LED on the front of the NVR should show green indicating the device is getting power.

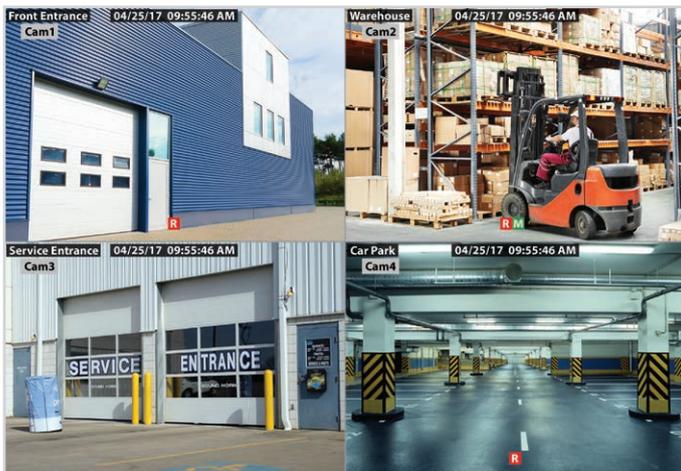
## Shutdown

To power down the NVR, enter the **'Turn Off'** menu. As an added security feature you will be asked to enter your username and password to prove you are attempting an authorised shutdown. When entered you can then click **'Turn Off'** and the NVR will shutdown.

From the Turn Off menu you can also Logout or Reboot the NVR.



**Prevent loss of your recorded footage caused by power cuts by fitting a UPS with your NVR.**



Live View Interface

Live View shows you the video image for each camera in real time. The device automatically enters Live View mode when powered up. It is also at the very top of the menu hierarchy, thus pressing the 'MENU' (Exit) button a number of times (depending on which menu you're on) always brings you to the Live View mode.

## Live View Icons

In the Live View mode, there are icons at the bottom of the screen for each channel showing the status of the record and motion detection for each channel. This enables you to confirm when the unit is triggering a motion event and whether the unit is recording for that channel.

Icon	Function / Description
<b>R</b>	<b>Record</b> (manual record, schedule record, motion detection, smart or alarm triggered record)
<b>M / M</b>	<b>Motion Detection</b> (Green - motion detected in a user defined area / Red - recording from motion trigger)
<b>S / S</b>	<b>Smart</b> (Green - activity detected by a user defined smart analytics / Red - recording from smart trigger)

## Quick Setting Toolbar

On the screen of each channel, there is a quick setting toolbar which shows when you left-click the mouse on the camera.



Quick Setting Toolbar

## Quick Setting Toolbar Explained

In Live View mode, left click the mouse button on any channel to see the Quick Setting Toolbar.

Icon							
Description	Toolbar Handle	Manual Record	Capture Image*	Instant Playback	Digital Zoom	Image Settings	PTZ Control

*\*Available on all 8, 16 and 32ch NVRs.*

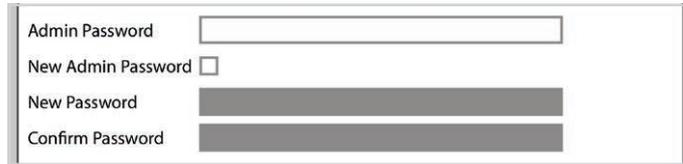
## Live View Menu

In Live View mode, right click the mouse button on any channel to see the Live View Menu.

	<b>Menu</b>
	<b>Single Screen</b>
	<b>Multi Screen</b>
	<b>Add IP Camera</b>
	<b>Start Auto-Switch</b>
	<b>Volume</b>
	<b>PTZ Tour</b>
	<b>Stream Switch</b>
	<b>Realtime</b>
	<b>Playback</b>
	<b>Info</b>

Name	Function / Description
Menu	Goes back to the main menu.
Single Screen	Switch to the single full screen by choosing a channel number from the drop-down list.
Multi Screen	Adjust the screen layout by choosing from the drop-down list.
Add IP Camera	Enter the 'Quick Add' dialogue box to quickly add IP cameras to the NVR.
Start Auto-Switch	Start/Stop automatic switching between available cameras.
Volume	Adjust the audio volume of the NVR.
PTZ Tour	Start/Stop PTZ cameras performing a pre-defined tour.
Stream Switch	Switch between Main and Substream.
Realtime	Switch display performance. Realtime (for fast networks), Balanced (for slower networks with slight lag) and Smooth (for slow networks with major lag).
Playback	Enter playback interface. See page 23 for more information.
Info	Displays the NVR's device information.

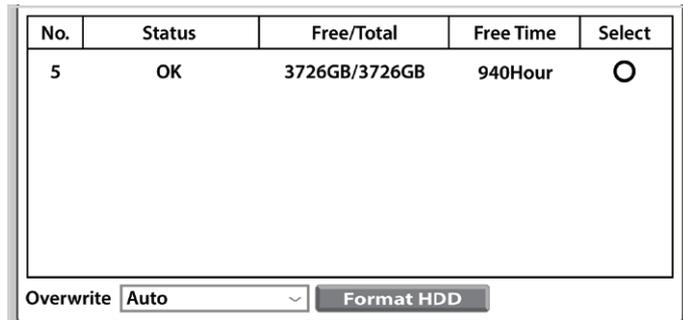
# Smart Setup



Admin Password Setup form with fields for Admin Password, New Admin Password (checkbox), New Password, and Confirm Password.

Admin Password Setup

Default Admin Password: 555555



Time & Date Setup table with columns: No., Status, Free/Total, Free Time, Select. Includes Overwrite dropdown (Auto) and Format HDD button.

No.	Status	Free/Total	Free Time	Select
5	OK	3726GB/3726GB	940Hour	<input type="radio"/>

Overwrite:  Format HDD

Time & Date Setup

Smart Setup is a quick and easy way to configure some of the key settings on the Zip NVR. This is a useful tool when using the NVR for the first time.

The Smart Setup will display every time the NVR is turned on. To disable the Smart Setup simply check “**Disable Smart Setup after Reboot**” at the bottom of the Smart Setup window. If you need to enable Smart Setup at a later date just go to the “**Setup**” menu ([page 24](#)) and check “**Show Smart Setup**”.

Settings which can be configured during Smart Setup:

## Admin Password

As all our NVRs come with the same admin password you will be asked to set your own unique admin password for extra security. If you don't do this during Smart Setup you will be asked to do change it the first time you log on. Doing this during Smart Setup ensures you NVR is secure right from the get-go. (See Admin Password Setup on the left.) You can also change the admin username in the “**Setup**” menu, see [page 24](#).

## HDD Information

The HDD Information screen allows you to configure all hard drives installed in the NVR. Here you can see the HDD status, total size, space available and estimated recording time, based on current settings. You can also format hard drives and set if and when data is overwritten. “**Off**” (never overwrite), “**Auto**” (overwrite hard drive when full) or set how many days (1~90) before data is overwritten.

Camera

Alarm Record  Motion Record  Normal Record

0 2 4 6 8 10 12 14 16 18 20 22 24

Sun  
Mon  
Tue

Record Schedule

Date

Time

Date Format

Time Format

Video Format

Auto Logout

System Setup

PPPoE    
  DHCP    
  Static

Client Port      HTTP Port

IP Address

Subnet Mask

Default Gateway

DNS

DNS2       Autoport UPnP

Network Setup

## Record Schedule

In the Record Schedule each camera can be set to start recording when an alarm is triggered, when motion is detected or for a set length of time (Normal). To speed things up, settings can be copied from one camera and applied to others. For more information on setting up scheduled recordings see [page 25](#).

## System Setup

The System Setup screen is where you configure key information such as time (NTP is on by default), date, video format. It is vitally important that the NVR is set to the correct time and date. The wrong time and/or date will cause schedules to start and stop at the wrong time and result in the incorrect time and date being overlayed on to recorded footage.

## Network Setup

Setting your NVR up on a network will allow you to connect to IP cameras on the same network. You can also remotely monitor the NVR from a PC, Mac, tablet or mobile phone once port forwarding has been configured.

If your router supports UPnP you can simply tick 'Enable UPnP' and the NVR will automatically configure port forwarding for you.

### Port Settings

Client: 9988

HTTP: 80

<input type="checkbox"/>	Camera	Edit	Status	Edit IP Address	IP Address/Domain	Subnet Mask
<input type="checkbox"/>	Cam1					192.168.2.27 255.255.255.000
<input type="checkbox"/>	Cam2					192.168.2.160 255.255.255.000
<input type="checkbox"/>	Cam3					192.168.2.253 255.255.255.000
<input type="checkbox"/>	Cam4					192.168.2.101 255.255.255.000

Record Schedule

Email	<input checked="" type="checkbox"/>
SSL	<input checked="" type="checkbox"/>
SMTP Port	<input type="text" value="00587"/>
SMTP Server	<input type="text" value="smtp.gmail.com"/>
Sender	<input type="text" value="zip100@gmail.com"/>
Sender Password	<input type="password" value="*****"/>
Recipient	<input type="text" value="john.smith@zipnvr.com"/>
Interval	<input type="text" value="3 Min"/> <input type="button" value="Test Email"/>

System Setup

DDNS	<input checked="" type="checkbox"/>
DDNS Type	<input type="text" value="ZIP DDNS"/>
Domain	<input type="text" value="ZIP12345.ippostcode.com"/>
Email	<input type="text" value="john.smith@zipnvr.com"/>
Password	<input type="password" value="*****"/>
<input type="button" value="Test DDNS"/>	

Network Setup

## IPC Setup

The IPC (Internet Protocol Camera) Setup screen allows you to add/remove IP cameras, see their current status and edit their address settings. You can choose to automatically assign IP addresses to all cameras or assign them manually. The total bandwidth available and bandwidth used is also displayed at the bottom of the window.

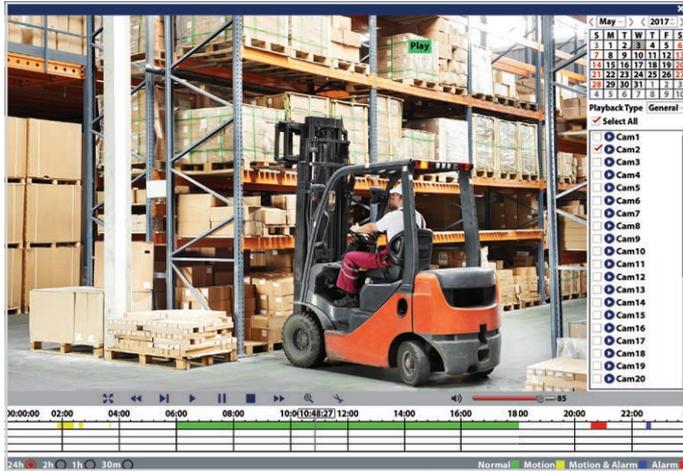
## Email Setup

By configuring email settings the NVR can be setup to send an email to an operator when certain events occur. Snapshots can be sent from the NVR when motion is detected so that the operator can instantly assess the situation (see [page 38](#)). You can also send email notifications when the NVR encounters an “Exception” such as video loss, a hard drive error or a full hard drive (see [page 39](#)). You can even send a “Super Password” if forget your login details so you can safely log back into your NVR.

## Zip DDNS Setup

Each Zip NVR comes with a free, three year Zip DDNS subscription. This free Dynamic DNS service allows you to quickly setup the NVR for remote monitoring without the expense or hassle of setting up a static IP.

The domain will already be filled in for you. Simply enter the operator's email address and the password will be automatically sent to the address given. Once the password has been received, enter it into the password field and you're good to go.



Example Of Playback Interface

## Playback Overview

The easy to use playback screen offers quick access and backup of all footage stored on the NVR. There are two playback types available: General playback and Event playback.

The toolbar features all the traditional functions for controlling playback, play/pause, fast forward, rewind etc. along with digital zoom and a snipping tool. For more information on the toolbar functions see 'Playback Toolbar Explained' overleaf.

## General Playback

The General playback screen is a really fast way to review footage. Using the calendar in the side bar just choose the year, month and day you would like to review.

Recordings for that day are then displayed on the time-line as coloured bars. The colour of the bar gives an indication as to what triggered the recording, a normal schedule, motion detection, and alarm trigger or motion detection and an alarm trigger (as explained on [page 22](#)).

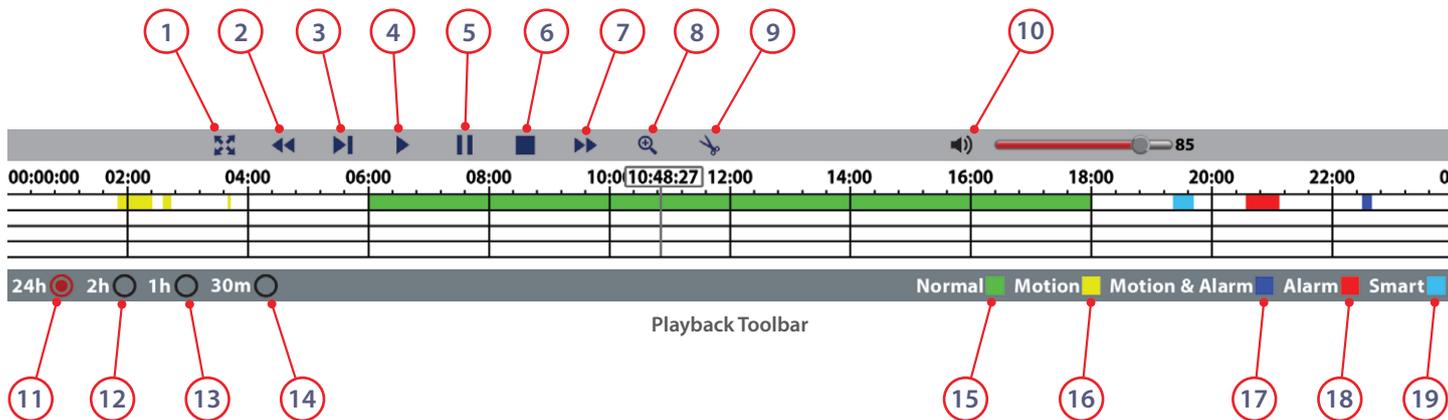
## Event Playback

Event playback allows you to search for, playback and backup event triggered recordings. Searches can be narrowed down by camera and event type so it's easy to find exactly what you're looking for.

From the search result list you can instantly play recordings by simply clicking on them. To back-up single or multiple recordings just tick the check box next to the recording(s) and click the save icon .

See overleaf for more information ►►►

# Playback Toolbar Explained



No.	Icon	Function
1		Enter and exit fullscreen playback.
2		Rewind. 2x, 4x, 8x and 16x normal speed.
3		Slow motion. 1/2, 1/4, 1/8 and 1/16 normal speed.
4		Play selected recording / Resume playback.
5		Pause playback.
6		Stop playback.

No.	Icon	Function
7		Fast forward. 2x, 4x, 8x and 16x normal speed.
8		Digital zoom. Click and drag over the area of the image you wish to zoom in to.
9		Snipping tool. Clip out and backup a section of footage. Click to start clipping, click again to save.
10		Audio control. Use the slider to set the audio volume between 0 and 100.
11	<input checked="" type="checkbox"/> 24h	Check to display 24 hour time-line.
12	<input checked="" type="checkbox"/> 2h	Check to display 2 hour time-line.

No.	Icon	Function
13		Check to display 1 hour time-line.
14		Check to display 30 minute time-line.
15		A recording coloured green shows that it was triggered by a normal recording schedule.
16		A recording coloured yellow shows that it was triggered by motion detection.

## Full Screen Playback Controls

To display the playback controls during full screen playback, move the mouse cursor to the bottom of the screen. The playback controls and time-line will then pop up along the bottom edge of the screen.

## How To Exit Full Screen Mode

There are multiple ways to exit full screen viewing. You can simply right-click the mouse, press the **'Menu'** button on the front of the NVR or click the **'Full Screen'** icon on the playback toolbar.

No.	Icon	Function
17		A recording coloured blue shows that it was triggered by motion detection and an alarm.
18		A recording coloured red shows that it was triggered by an alarm.
19		A recording coloured cyan shows that it was triggered by a smart setting detection.

## Snipping Tool

The snipping tool is really handy as it allows you to backup a small section of footage rather than the entire recording which could potentially be hours long.

To start just click the **'Snipping Tool'** icon during playback at the time you want the clipping to begin. The **'Snipping Tool'** icon will then change to a **'Save'** icon. Continue to watch the video playback and click the **'Save'** icon when you want the clipping to end. Alternatively you can click on the time-line where you would like the clipping to end and then click the **'Save'** icon.



Setup Interface

## Setup Submenu Overview

The Setup menu is where all major settings are configured from network settings to user accounts.

In the **General** tab all of the basic device settings can be adjusted such as system time/date, video format and daylight saving time.

The **Network** tab is where you will enter all network information like the IP address, DDNS settings, switch mode and email settings for email notifications.

In the **User** tab, as the administrator you can create new accounts and choose what permissions users have both locally and remotely. You can also edit and

delete current users. On initial setup there will only be the administrator account.

The **User** tab is where you go to change the **Admin password** and **username**.

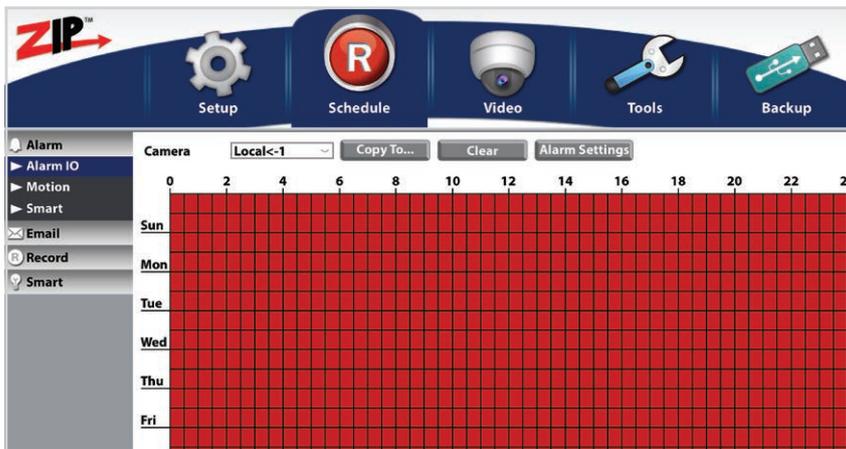
Under the **Alarm** tab you can set what effect an alarm trigger has from triggering an alarm output, or recording a specific channel, to sending an email.

The **RS232** tab allows you to adjust NVR's RS232 settings to the settings required by the connected RS232 device.

The **Exceptions** tab allows you to set how exceptions are handled such as a full HDD and video loss.

Settings which can be configured inside the Setup menu:

- **System Settings**
- **Network Settings**
- **User Accounts**
- **Alarm Inputs & Outputs**
- **RS232 Configuration**
- **Exception Handling**



Schedule Interface

## Schedule Submenu Overview

In the Schedule menu you can create or edit recording, alarm, smart detection and email notification schedules.

Schedules for each channel are set independently, giving you total control. Schedules can then be copied to other channels for a speedy setup.

In the **Alarm** tab you can set when motion detection, smart detection and alarm inputs are active. Recordings can only be triggered by either motion or an alarm input during active time periods of the schedule.

The **Email** tab allows you to schedule when email notifications are sent warning of motion detection, smart detection, an alarm input or an exception such as video loss. This could be used to only send notifications when the operator is away from site.

The **Record** tab is where you configure the recording schedule and settings. You can tell the NVR to record as normal, on motion detection or an alarm trigger.

In the **Smart** tab you can configure the recording schedule for smart detection triggered recordings.

Functions available through the Schedule submenu:

- Alarm Schedules
- Email Notification Schedules
- Recording Schedules
- Smart Schedules



Three options are available when creating a recording schedule. 'Normal' will record for as long as it is scheduled. 'Motion' records when motion is detected and 'Alarm' records when an alarm is triggered.



Video Interface

## Video Submenu Overview

The Video menu is where you can configure the camera, PTZ and video settings to suit your requirements.

Under the **Output** tab you're able to choose the HDMI/VGA output resolution, the automatic sequential switcher layout and dwell time, even the NVR menu's transparency.

In the **PTZ** tab you can set the key information for each PTZ connected like baud rate, protocol etc. You can also add and delete presets, tours and patterns.

The **Camera** tab is where you can manage your IP cameras, delete current cameras or add new ones. You can configure each camera's settings and OSD

menu. Privacy masking and motion detection are both setup here too.

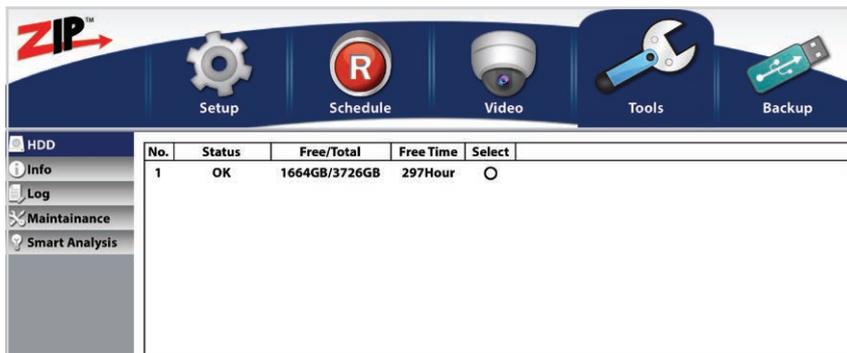
The **Playback** tab gives you access to an advanced playback search so you can quickly find the footage you need.

The **Encoding** tab lets you specify the main stream, sub stream and mobile stream settings.

Finally the **Smart** tab is where you set the parameters for smart detection. Here you can configure perimeter intrusion, line crossing, stationary object, pedestrian detection, face detection and cross counting.

Functions available through the Video submenu:

- **Output Resolution**
- **Auto Sequences Setup**
- **PTZ Settings**
- **PTZ Presets, Tours & Patterns**
- **Manage IP Cameras**
- **Video Encoding**
- **Camera OSD Configuration**
- **Privacy Masking**
- **Motion Detection**
- **Advanced Playback Search**
- **Smart Detection Configuration**



Tools Interface

## Tools Submenu Overview

The Tools menu is where you can view all the important system information such as model and serial number. You can also see key information on cameras, recordings, alarms, networks and hard drives.

The **HDD** tab shows the current state of installed hard drives. You can see the status, free space available, total space available and the maximum estimated record time (free time) based on current settings. You can also set the overwrite behaviour, format hard drives and on 8, 16 & 32ch NVRs set-up recording to an eSATA drive.

Under the **Info** tab you can find all the useful information you may need for the device such as ports, status, stream, privacy masking and motion detection settings. There's also information on recordings like state, stream type, frame rate, bit rate and

resolution. You can also set the device ID so the NVR can be controlled independently with the IR remote control when multiple NVRs are present and device name.

The **Log** tab is where the NVR keeps a record of important events so you can see what happened and when. The log shows when recordings started and stopped, when the NVR started up and shut down, when alarms are triggered and what caused them.

The **Maintenance** tab is important as it allows you to save the current NVR configuration, load a previously saved configuration, restore default settings and update the firmware of the NVR and compatible cameras.

The **Smart Analysis** tab shows a log of all smart detection triggers and allows you to search for events.

Functions available through the Tools submenu:

- View HDD Status & Format Drives
- View Device, Camera & Recording Info
- View System & Smart Logs Of Key Events
- Load/Save System Configurations
- Default System Settings
- Update NVR & Camera Firmware



The screenshot shows the Backup Interface with a navigation bar at the top containing icons for Setup, Schedule, Video, Tools, and Backup. Below the navigation bar, there are search filters for Date (05/04/2017), Time (00:00:00 to 23:59:59), Camera (All), and Type (All). A table lists recorded footage with the following data:

Camera	Type	Date	Start Time	End Time	Size	Playback	
<input type="checkbox"/>	Cam5	M	05/04/2017	10:18:21	10:18:59	1MB	
<input type="checkbox"/>	Cam5	M	05/04/2017	11:47:35	11:38:02	1MB	
<input type="checkbox"/>	Cam1	N	05/04/2017	13:30:00	15:30:00	132MB	
<input type="checkbox"/>	Cam8	A	05/04/2017	16:04:57	16:05:12	1MB	
<input type="checkbox"/>	Cam7	N	05/04/2017	17:15:00	18:00:00	89MB	
<input type="checkbox"/>	Cam3	N	05/04/2017	19:45:00	20:30:00	87MB	
<input type="checkbox"/>	Cam5	M	05/04/2017	20:34:42	20:35:22	1MB	
<input type="checkbox"/>	Cam2	A	05/04/2017	22:57:17	22:58:49	1MB	
<input type="checkbox"/>	Cam4	N	06/04/2017	06:00:00	08:30:00	305MB	
<input type="checkbox"/>	Cam8	A	06/04/2017	08:33:35	08:34:09	1MB	
<input type="checkbox"/>	Cam1	M	06/04/2017	09:58:28	09:59:01	1MB	
<input type="checkbox"/>	Cam8	A	06/04/2017	12:03:15	12:05:18	4MB	
<input type="checkbox"/>	Cam6	N	06/04/2017	14:00:00	19:00:00	612MB	
<input type="checkbox"/>	Cam4	N	06/04/2017	21:30:00	23:00:00	167MB	
<input type="checkbox"/>	Cam7	N	06/04/2017	23:00:00	01:30:00	310MB	
<input type="checkbox"/>	Cam3	N	07/04/2017	06:00:00	08:00:00	245MB	

At the bottom of the interface, there are buttons for Turn Off, How To, Backup, and Cancel.

Backup Interface

## Backup Submenu Overview

The Backup menu is where you can export recorded footage to either USB memory stick or USB CD/DVD writer.

There are two options when backing up footage, a quick backup and a precise backup.

A quick backup is ideal when archiving recordings as it exports all recorded footage to the selected USB device.

When doing precise backup you can search for footage by date, start and end time, camera and recording type. This allows you to find the exact footage you are looking for making it an ideal method for evidence backup.

Functions available through the backup submenu:

- Search & Export
- Quick Export

How To: Help and Information on how to use this device

Networking

Selecting a Network Address

Alarm Record

Motion Detection

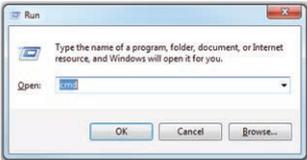
Email Setup

Backup Recordings

Recommended Bitrate

### Networking- Selecting a network address

1 First you need to find the 'Default Gateway' (the routers internal IP Address) and the 'Subnet Mask' for the network. These are the same for all devices on the network so the NVR will need to be set the same.



2 A black window will appear. You should see the IP address and 'Default Gateway' address of the network.



To do this on a Windows PC press the **Windows key** and the **R key** together. This will bring up a small 'Run' prompt asking what you would like to open. Type 'cmd' and press 'OK'.

3 The NVR comes with the IP address set to 192.168.001.240. The first 3 numbers will need to match your 'Default Gateway'. The last number (240) must be unique on the network.

4 To see if the IP address is correct, you can type 'ipconfig' into the address window that appears.

## How To Interface

### How To Submenu Overview

The How To pages are the Zip NVR's inbuilt help documents. Here you will find step by step guides on how to setup everything from networks to backing up recordings.

You can find some useful **How To** guides on the following pages which cover:

- [Selecting A Network Address pg30](#)
- [Setting A Network Address pg31](#)
- [Configuring Port Forwarding pg32](#)
- [Configuring Zip DDNS pg33](#)
- [Adding IP Cameras pg34](#)
- [Searching For An Event pg35](#)
- [Adding Alarm Inputs pg36](#)
- [Recording On An Alarm Trigger pg37](#)
- [Recording On Motion Detection pg38](#)
- [Setting Up Email Notifications pg39](#)
- [Backing Up Recordings pg40](#)
- [Installing a 3.5" SATA Hard Drive pg41](#)
- [Connecting An NVR To A PC pg42](#)
- [Setting Up Android Phone & iPhone App pg44](#)
- [Setting Up Android Tablet & iPad App pg45](#)
- [Controlling 3rd Party Equipment pg46](#)

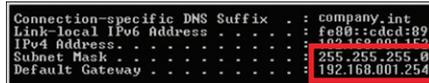


# How To - Select A Network Address For Your NVR

- 1 On a Windows PC connected to the network you want to connect the NVR to, press the 'Windows' key and the 'R' key together. When the 'Run' box pops up type 'cmd' and press 'OK'.



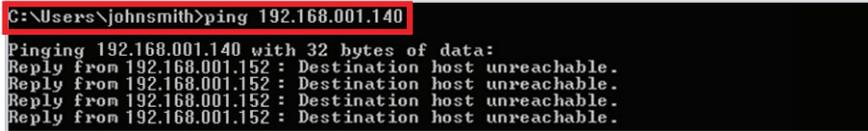
- 2 In the Command Prompt window type 'ipconfig' and press 'enter'. Make note of the 'Subnet Mask' and 'Default Gateway'. This will be just under the 'IPv4 Address' which is the address of the PC that you are on.



- 3 The NVR's 'Default Gateway' must be the same as the network's from step 2. The NVR's default IP address is 192.168.001.240. The first 3 numbers must match your 'Default Gateway' (e.g. 192.168.001). The last number (240) must be unique on the network.

IP Address	192.168.001.240
Subnet Mask	255.255.255.000
Default Gateway	192.168.001.254

- 4 To see if the address is free you need to ping it. When pinging make sure the NVR is **NOT** plugged into the network. In Command Prompt type 'ping address' e.g. 'ping 192.168.001.240'



If the response is 'Destination Host Unreachable' the address is not in use and can be used. If the response has a time then the address is in use and you will need to try another until you find a free one to use in the NVR.

## Note these settings for later

Selected IP Address:

Subnet Mask:

Default Gateway:



# How To - Set The Network Address Of Your NVR



- 1 Connect the **LAN** socket of the NVR to your router using the blue patch cable supplied.

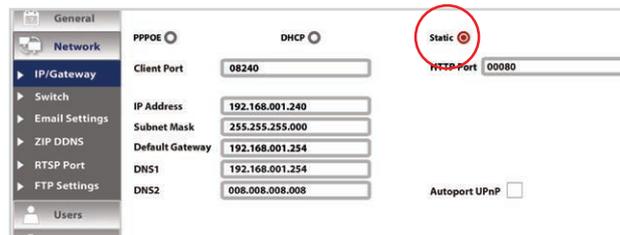


**Note:** Do not use a crossover cable for the connection to the router this is for direct connection to a PC.

- 3 Check the '**IP Address**,' '**Subnet Mask**' and '**Default Gateway**' match the settings you chose on the previous page '**Select A Network Address For Your NVR**'. Set the '**DNS1**' address to match the '**Default Gateway**' and set the '**DNS2**' address to '**008.008.008.008**' then click '**Save**'.

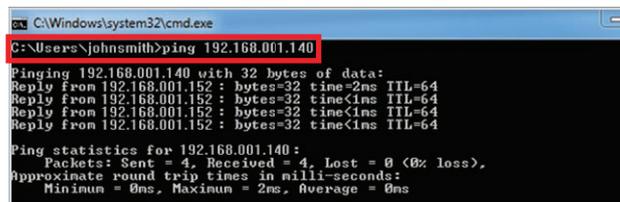
<b>IP Address</b>	<input type="text" value="192.168.001.240"/>
<b>Subnet Mask</b>	<input type="text" value="255.255.255.000"/>
<b>Default Gateway</b>	<input type="text" value="192.168.001.254"/>
<b>DNS1</b>	<input type="text" value="192.168.001.254"/>
<b>DNS2</b>	<input type="text" value="008.008.008.008"/>

- 2 Enter the '**Setup**' menu of the NVR. Select the '**Network**' tab on the left hand side.



Ensure you have '**Static**' selected.

- 4 Make sure the NVR is now plugged into the network. Ping the NVRs IP address from the PC using the address you have set in the NVR. This time you should get a response showing a time in milliseconds. **See step 4 in on the previous page.**



# ? How To - Configure Port Forwarding

## UPnP - Automatic Port Forwarding

The easiest way to configure port forwarding is to use UPnP automatic port forwarding. If this works then you do not need to access the router setup.

- 1 Enter the Main Menu of the NVR. Select 'Setup' and then click the 'Network' tab on the left hand side. Check 'Autoport UPnP' and click 'Save'.

PPPOE  DHCP  Static

Client Port  HTTP Port

IP Address

Subnet Mask

Default Gateway

DNS1

DNS2

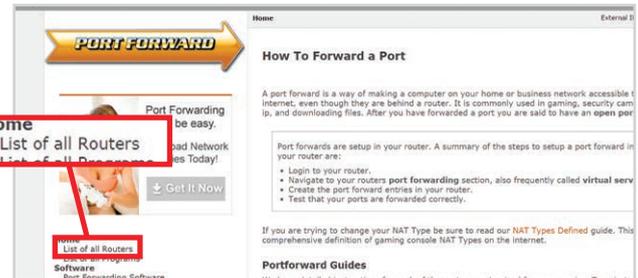
Autoport UPnP

- 2 On a PC open up a web browser and go to [www.zipnvr.com/connect](http://www.zipnvr.com/connect). In the Zip NVR port checker click 'Use This IP' to enter your IP address. Check the ports are correct and then click 'Test Now'. If the ports show open then we are finished, if not you will need to uncheck 'Autoport UPnP' and click 'Save'.

## Manual Port Forwarding

If UPnP did not work then we will have to manually enter the port forwarding in the router.

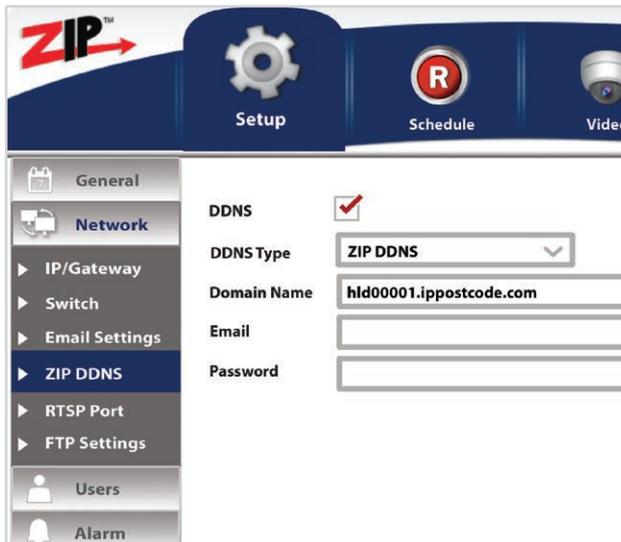
- 1 Go to [www.portforward.com](http://www.portforward.com). On the side menu choose 'List of all Routers'. Select the manufacturer and model of the your router.



- 2 Scroll down to 'step 4' and choose 'D-Link DCS-930L' from the list of programs. Follow the guide changing the three port numbers it suggests to the port numbers you are using (80, 1240 and 8240 by default). The IP address you are forwarding to is the NVR's IP address (192.168.001.240 by default). Once completed test the port forwarding as explained in step 2 for 'UPnP - Automatic Port Forwarding'.

Every Zip NVR is supplied with a free, three year Dynamic DNS service for its user. This allows you to quickly set up the NVR for remote monitoring, without the added expense or hassle of setting up a static IP.

- 1 Enter the Main Menu of the NVR. Select '**Setup**' and then the '**Network**' tab on the left hand side. Select the '**DDNS**' sub menu and enable '**DDNS**'.



- 2 Leave the '**DDNS Type**' on Zip DDNS and enter your email address in the '**Email**' address box. A password will now be emailed to you. Enter this password into the '**Password**' box to ensure that the NVR keeps updating the server.

- 3 To access your NVR remotely on your browser, ZipVision or mobile app you can now use the serial number of the NVR followed by .ippostcode.com e.g. abc00001.ippostcode.com.



**Note:** The emailed password is only for updating the DDNS server and no other purpose. To sign on to the NVR remotely you use the same username and password as you would at the NVR.

# ? How To - Add IP Cameras To Your NVR

When using Zip cameras on a Zip PoE NVR simply set the switch to 'Auto' in network setup (pg24) and your cameras will automatically connect. For non PoE NVRs or if you're using other makes of camera just follow these steps.

1 Before adding an IP camera you will need to set its IP address (refer to the manual supplied with the cameras).

The cameras need to be on the same network segment as the NVR. The **default NVR address** is **192.168.1.254**. This means camera IP addresses all need to start with **192.168.1**. The last number has to be different for each camera.

3 If all the cameras have the same user name and password like the Zip range then you can use 'Add All' and enter the **Username and Password**. The NVR will search the network and add all of the cameras.

**Add all IP Camera**

Username

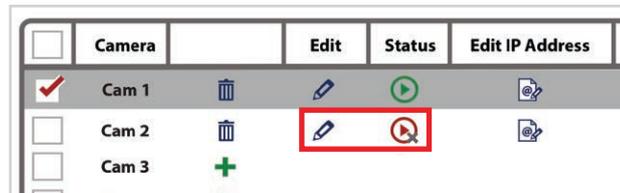
Password

**OK** **Cancel**

2 To add multiple cameras, right click on the screen then choose 'Add IP Camera' or if you are in the menu select 'Video' on the top bar, click 'Camera' and then select the 'IP Cameras' tab down the left hand side.



4 If any camera has different log-on details they will be added but not viewable (**the status indicator will be red not green**) until they are edited and the correct sign details entered. This can be done by clicking on the **edit icon** next to the relevant camera, on this screen.



# ? How To - Search For And Playback An Event

- 1 From the Main Menu select 'Video', then select 'Playback' on the left.



- 2 Select the Camera, Event Type, Month and Year then click 'Search'. Now choose a date on which footage was recorded (indicated by an orange corner marker).

Camera:  TYPE:

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

- 3 If you want to view all footage from your search just click 'Play'. To view a specific camera and time of day choose the camera(s), enter the Start Time and End Time then click 'Play'.

Playback Camera   1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16

Start Time

End Time

Play



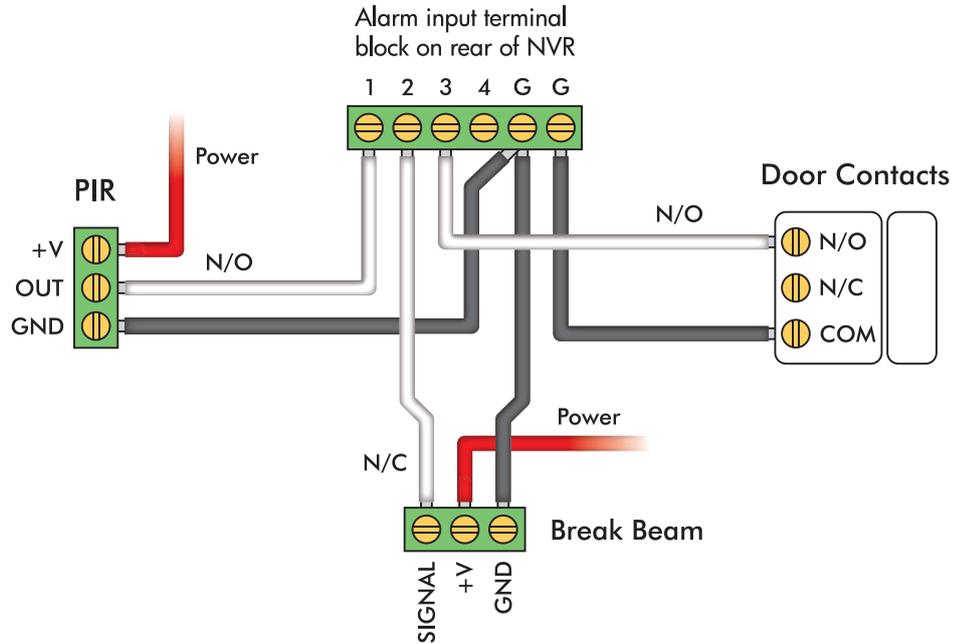
# ? How To - Add Alarm Inputs

It's easy to add alarm inputs such as PIRs, door contacts and break beams to a Zip NVR. Using alarm inputs can greatly enhance your security system.

Alarm inputs can be used to trigger the NVR to record a specific channel. This is a simple way to extend the record time of your NVR as it will only record small clips rather than all day.

An alarm trigger could also be used to give a command to a PTZ or VoiceOff unit. For example a PTZ could be set to look at a certain area such as a doorway. A VoiceOff unit could be configured to welcome customers or warn off intruders.

On the right is an example of how you may wire the alarm inputs on an Zip NVR.



See online tip 311 for more information on connecting and configuring alarms at [ZipNVR.com](http://ZipNVR.com)



# How To - Record When An Alarm Is Triggered

- 1** Select **'Setup'** from the Main Menu then click the **'Alarm'** tab. Choose the Alarm Input you wish to configure and set the Alarm Type. Next set the Dwell Time, Audio Warning and Post Recording time as required.

<b>Alarm Input</b>	Local<-1
<b>Alarm Type</b>	Normally-Open
<b>Dwell Time</b>	10 s
<b>Audio Warning</b>	OFF
<b>Post Recording</b>	30 s

- 3** Select **'Schedule'** on the top bar, click the **'Record'** tab on the left then click the **'Record Schedule'** tab. Choose the camera you require and select **'Alarm Record'**.

Camera:

Alarm  Motion  Normal

- 2** Choose how the user is alerted and which channel(s) to record. Click **'Trigger Alarm Out'** and select which Alarm Outputs (if any) to trigger, Click **'OK'** then click **'Save'**.

<b>Display Message</b>	<input checked="" type="checkbox"/>
<b>Send Email</b>	<input checked="" type="checkbox"/>
<b>Camera</b>	<input type="checkbox"/> 1 <input type="checkbox"/> 2

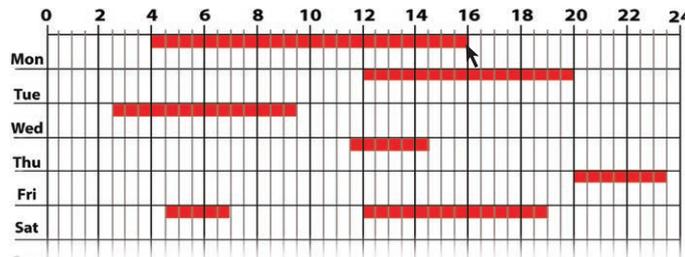
Alarm ID:

**Trigger Alarm Output**

Select All

Local->1

- 4** Click and drag the mouse across the days and times you wish alarm triggered recording to be active and click **'Save'**.





# How To - Record When Motion Is Detected

- From the main menu select **'Video'**, click on the **'Camera'** tab and select **'Motion Detection'**. Choose the camera to configure and tick **'Enable'**. Adjust the Sensitivity, Audio Warning, Post Recording and Dwell Time as required.

Camera

Enable

Sensitivity  Audio Warning

Post Recording  Dwell Time

- Choose how the user is alerted and which channel(s) to record. Click **'Trigger Alarm Out'** and select which Alarm Outputs (if any) to trigger, Click **'OK'** then click **'Save'**.

Display Message

Send Email

Camera  1  2

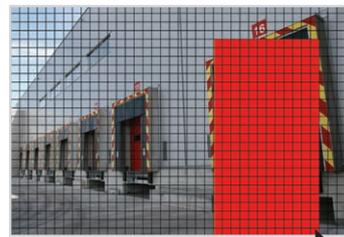
Alarm IC

**Trigger Alarm Output**

Select All

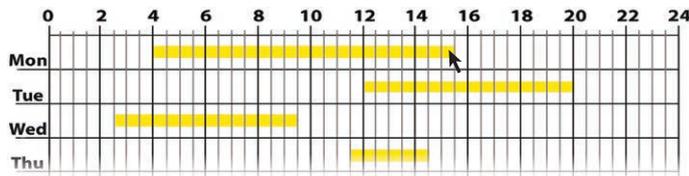
Local->1

- Click the **'Setup'** button to enter the area selection screen. Click and drag the mouse to highlight the area you wish to monitor. To monitor the whole image simply highlight the entire screen.

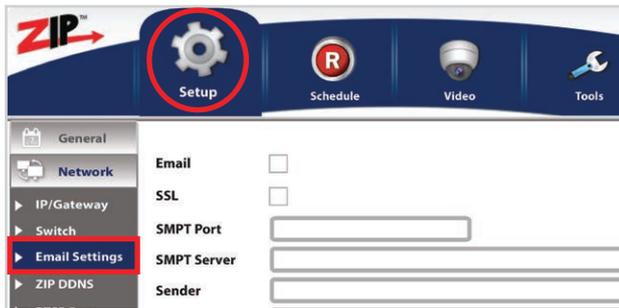


- Select **'Schedule'** on the top bar, click the **'Record'** tab on the left then click the **'Record Schedule'** tab. Choose the camera you require and select **'Motion Record'**.

Click and drag the mouse across the days and times you wish motion recording to be active and click **'Save'**.



- 1 Select 'Setup' on the top bar, click 'Network' and then select the 'Email' tab.



- 3 Next enter the User Name, Password, Sender, up to 3 Receivers and set the interval time. Click 'Save' then click 'Test Email' to check email alerts are working.

User Name	<input type="text" value="Zip1"/>
Password	<input type="password" value="*****"/> <input type="checkbox"/> Show
Sender	<input type="text" value="Zip NVR"/>
Receiver1	<input type="text" value="user1@email.com"/>
Receiver2	<input type="text" value="user2@email.com"/>
Receiver3	<input type="text" value="user@email.com"/>
Interval	<input type="text" value="3 Min"/> <input type="button" value="Test Email"/> <input type="button" value="Email Schedule"/>

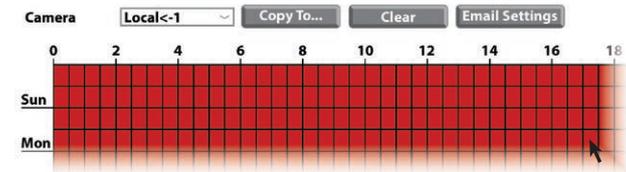
- 2 Ensure 'Email' is enabled.

Enter the SMTP Port and Server. For **Gmail** the SMTP Port is **465** and the SMTP Server is: **smtp.gmail.com**. For **Hotmail/Outlook** the SMTP Port is **587** and the SMTP Server is: **smtp.live.com**

Email	<input checked="" type="checkbox"/>
Encryption	<input type="text" value="Disable"/>
SMTP	<input type="text" value="465"/>
SMTP Server	<input type="text" value="smtp.gmail.com"/>
User Name	<input type="text"/>
Password	<input type="password"/> <input type="checkbox"/> Show

- 4 To schedule email alerts, for example outside business hours only, click the 'Email Schedule' button.

Select the camera and the type of event(s) you want to be alerted to. **Click and drag** the mouse across the days and times you wish notifications to be active and click 'Save'.



# ? How To - Backup Recordings

- 1 Insert your USB stick and wait a few seconds for the NVR to register that the USB has been plugged in.

**Note:** USB sticks must be formatted to FAT32.



- 3 To back up a specific event choose the Date, Time, Camera and the Event Type. Click **'Search'**, then select the footage required and press **'Backup'**.

**Note:** To select all footage highlight checkbox in the top title bar.

<input type="checkbox"/>	Camera	Type	Date	Start Time	End Time	Size	Playback	Lock
<input checked="" type="checkbox"/>	Cam 1	N	12/05/2017	08.25.43	10.25.43	102MB		
<input type="checkbox"/>	Cam 1	A	12/05/2017	11.45.23	12.00.32	60MB		
<input type="checkbox"/>	Cam 1	A	12/05/2017	13.04.11	15.33.13	150MB		
<input type="checkbox"/>	Cam 1	N	12/05/2017	13.25.43	16.22.59	100MB		

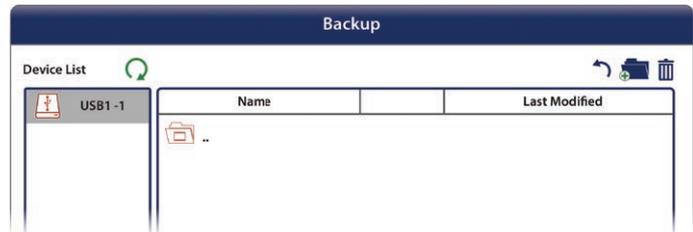
- 2 From the main menu of the device select **'Backup'**.  
For Quick backup fill in the Date, Time, Camera, Event Type and click **'Search'**.

To backup an entire day's recordings press **'Quick Backup'** button.

Date  Time  -   
Camera  TYPE

- 4 Select the video encoding format. In the new window select **'USB1-1'** from the Device list and click **'OK'**.

**Note:** If USB device isn't showing try clicking refresh.



# ? How To - Install A 3.5" SATA Hard Drive

To record higher quality video, or to record for longer periods of time, you may wish to add an extra hard drive to your NVR. This process is a lot easier than you may think. After removing the top casing of the NVR just follow our quick step by step guide.

**Note:** Zip NVRs are designed to house 3.5" SATA hard drives.

**TIP**  
**301**

*See online tip 301 for a more in depth guide to installing a 3.5 inch SATA hard drive at [ZipNVR.com](http://ZipNVR.com)*



Connect the power cable to the power socket on the hard drive. Connect the other end (White plug) to the power socket on the PCB.



Now connect the SATA cable to the SATA socket on the hard drive. Connect the other end to the SATA socket on the PCB then place the drive in the NVR case.



Screw through the holes in the base of the NVR or hard drive shelf, and into the four fixing holes in the bottom of the hard drive. (Screws supplied with hard drive.)

# ? How To - Connect Your NVR To A PC

Every Zip NVR comes with a free copy of the ZipVision client software. ZipVision can be used to control and monitor multiple Zip NVRs and IP cameras locally, or over the internet, creating a comprehensive remote monitoring solution.

ZipVision allows live viewing, playback, detailed search, relay control, remote configuration, multi-layered mapping and alarm notifications.



If a wired connection is required, connect an RJ45 crossover cable between the LAN port on the rear of the NVR and the LAN port on the PC/laptop.

- 1 Install the ZipVision software following the instructions given in the information pack supplied with your NVR.



- 2 Select '**ZipVision Client for Windows**' from the list. Click on the '**Install Software**' button and follow the on-screen prompts.



- 3 Run the ZipVision client. Enter your login details when prompted. The default login is:

## ZipVision Default Login Details

**Username:** admin

**Password:** 666666

- 4 In the wizard click '**Next**' to move to the device import screen or, if not using the wizard, click on the '**Device Setup**' tab.

- 5 Click '**Online device**'. In the '**Online Device**' window highlight the NVR and click '**Add Device**'.



# How To - Connect Your NVR To A PC

No.	Addr	IP/Domain	Port	Channel No.
1	No	192.168.1.245	8245	32

Device Information

IP Address: 192.168.1.245  
Port: 8245  
Sub NetMask: 255.255.255.0  
MAC Address: 00-23-63-68-54-B8  
IE Port: 8247  
Device Name: ZIP NVR  
Channel NO.: 32  
Version: V5.2.0-20170401

Refresh Add Device Exit

6 In the 'Manual Add' window enter a 'Device Name' and the NVRs 'User Name' and 'Password'. Now click 'Import' to add the NVR to the devices list.

Manual Add

Device Name:

IP/Domain: 192.168.1.245

Media Port: 8245

User Name:

Password:

Channels: 32

Import Cancel

7 The final step is to add the NVR to the UK group. Highlight the NVR and click 'Import All'. The NVR will now be in the 'UK' group. Click 'Finish' to exit the wizard.

Wizard

1 Import → 2 Completed

You can add devices using the device setup panel. You can also setup multiple groups within the Groups panel on the right of this screen.  
Quick Tip: To import all DVRs/NVRs to a selected group simply click Import All

Devices + Manual Add Online devi

Groups UK ZIP NVR

Remote Settings  
Import  
Import All  
Export Data  
Import Data  
Sort A-Z

Do not show this message again Cancel Finish



Once connected, you can learn more about how to use ZipVision at [ZipNVR.com](http://ZipNVR.com). Look in our support section for great tips on backing up footage and setting up a basic eMap in ZipVision.

# ? How To - Setup The Android Phone & iPhone App

The Phone app allows you to remotely monitor and control your NVR whilst on the go. This useful little app boasts remote viewing, remote playback, remote record, PTZ control and relay control.



Port forwarding and Zip DDNS must be setup in order for the Android and iPhone app to work.



- 1 To download the app just search for 'Zip Vision' in the Play store on an Android phone or the App store on an iPhone.

Alternatively you can just scan the relevant QR code below.



- 2 Install the app and open.
- 3 In the app tap the 'Menu' button on the top tab bar (three lines) and select 'Device'.

- 4 Click the '+' to add a new device. Enter the following details and tap the 'Save' icon when done.

**Device Name:**  
(choose device name)

**Login Type:**  
(switch to "IP/DOMAIN")

**IP/Domain:**  
(Enter a static IP address if you have one or your NVR's domain which is your serial number followed by @ippostcode.com e.g. ZIP12345@ippostcode.com)

**Port:**  
(default 8240)

**Username:**  
(default 'admin')

**Password:**  
(default '555555')

**No. of Cameras:**  
(Max number of cameras NVR can accept e.g. 4, 8, 16 or 32)

The tablet app allows you to remotely monitor and control your NVR whilst on the go & boasts remote viewing, remote playback, remote record, PTZ control and relay control.

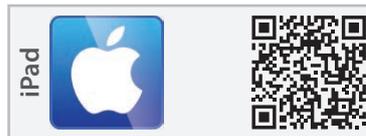


Port forwarding and Zip DDNS must be setup in order for the Android tablet and iPad app to work.



- 1 To download the app just search for 'Zip Vision' in the Play store on an Android tablet or the App store on an iPad.

Alternatively you can just scan the relevant QR code below.



- 2 Install the app and open.
- 3 In the app tap the 'System Setup' on the top tab bar and select 'Device'.

- 4 Click the '+' to add a new device. Enter the following details and tap the 'Save' icon when done.

**Device Name:**  
(choose device name)

**Login Type:**  
(switch to "IP/DOMAIN")

**IP/Domain:**  
(Enter a static IP address if you have one or your NVR's domain which is your serial number followed by @ippostcode.com e.g. ZIP12345@ippostcode.com)

**Port:**  
(default 8240)

**Username:**  
(default 'admin')

**Password:**  
(default '555555')

**No. of Cameras:**  
(Max number of cameras NVR can accept e.g. 4, 8, 16 or 32)

# ? How To - Control 3rd Party Equipment

By just using your Zip NVR and the free ZipVision software you can create a comprehensive security system.

You can achieve anything from a basic setup to a more advanced system. From alarm triggers turning on lights and sirens, to operators being able to control heating systems and security gates.

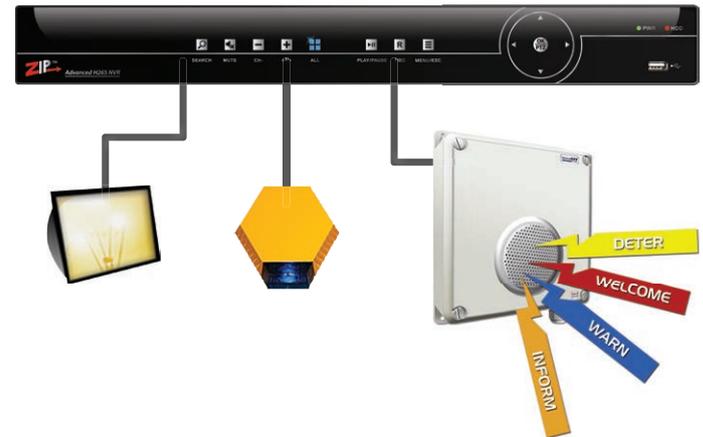
When using an Zip NVR you have three options for controlling third party equipment; alarm outputs, RS232 and RS485 connections.



For more information on controlling 3rd party equipment see online tip 312 at [ZipNVR.com](http://ZipNVR.com)

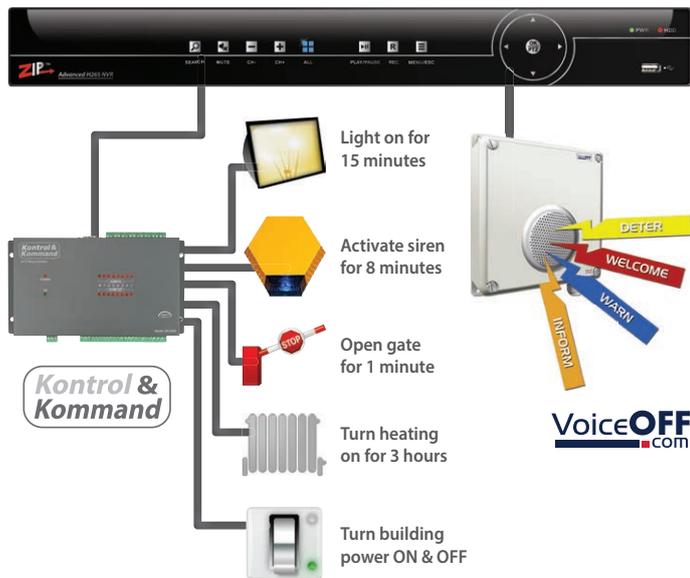
## Alarm Outputs (non timed relays)

Alarm outputs can be set to trigger equipment such as security lights, sirens, door locks or up to 10 audio messages with the VoiceOff audio unit.



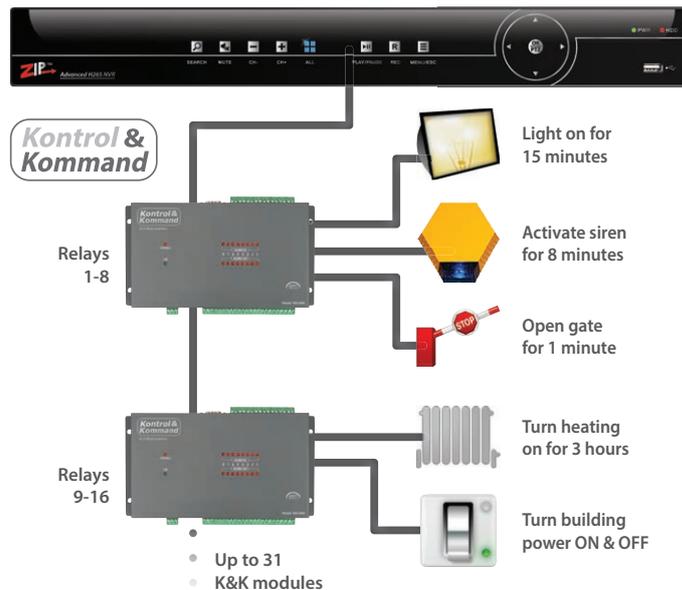
## RS232 Connection

With an RS232 connection you can remotely control the VoiceOff audio unit to trigger up to 9999 audio messages via ZipVision. Alternatively you could control up to eight timed relays with a single Kontrol & Kommand module.



## RS485 Connection

With an RS485 connection you can remotely control up to 31 Kontrol & Kommand modules via ZipVision. This means you can control up to 248 timed relays. This also frees up the RS232 port for other devices such as a VoiceOff audio unit.



## External Anti-vandal 4MP Varifocal Dome Camera



**MiRs**  
Maximum IR  
Sensitivity ✓

- 4 Mega Pixel
- 2.8-12mm Varifocal Lens
- H.265 Encoding
- Onvif 2.6 Compatible
- PoE Compatible
- Mechanical IR Cut Filter
- Motorised Lens
- 40m IR Range
- Extra Tough - Vandalproof
- IP66 Externally Rated

An ever popular dome camera built to the highest quality. It has an extra tough, metal, weatherproof body rated at IP66 and a 40m IR range for ultimate performance in any environment.

A motorised lens allows you to control the camera's zoom and focus from the NVR so you can achieve the perfect picture after installation.

The IP-CAM535 also features a 2.8 - 12mm lens, 4MP resolution, a mechanical IR cut filter and can be powered with 12V DC or PoE.

Order Code: **IP-CAM535B** Black

Order Code: **IP-CAM535W** White

## External Varifocal 4MP All-In-One IR Camera



**MiRs**  
Maximum IR  
Sensitivity ✓

- 4 Mega Pixel
- 2.8-12mm Varifocal Lens
- H.265 Encoding
- Onvif 2.6 Compatible
- PoE Compatible
- Mechanical IR Cut Filter
- Motorised Lens
- Auto Focus
- 60m IR Range
- IP66 Externally Rated

A versatile, externally rated all-rounder with 2 hidden high power IR LEDs providing an impressive 60m range.

A clever mechanical IR automatically inserts or removes an IR filter depending on light levels to provide optimum brightness and colour reproduction night and day.

The IP-CAM930 also features a 2.8 - 12mm motorised lens with auto focus, 4MP resolution and can be powered via PoE or a 12V DC PSU.

Order Code: **IP-CAM930B** Black

Order Code: **IP-CAM930W** White

## Varifocal Eyeball Camera With Hidden IR LEDs



- 4 Mega Pixel
- 2.8-12mm Varifocal Lens
- H.265 Encoding
- Onvif 2.6 Compatible
- PoE Compatible
- Mechanical IR Cut Filter
- 2 High Power IR LEDs
- 40m IR Range
- Wide Dynamic Range
- IP66 Externally Rated

An external varifocal eyeball camera to suit 90% of CCTV installations. The flexible design ensures you will always get the right angle.

Two high power IR LEDs concealed behind the faceplate produce a 40m IR range perfect for night time surveillance.

The 4 Mega Pixel IP-CAM870 also features a 2.8 - 12mm varifocal lens, a mechanical IR cut filter, wide dynamic range and can be powered via PoE or with a 12V DC connection.

Order Code: **IP-CAM870B** Black

Order Code: **IP-CAM870W** White

## Mini 3.6mm Fixed Lens Dome Camera



- 4 Mega Pixel
- 3.6mm Fixed Lens
- H.265 Encoding
- Onvif 2.6 Compatible
- PoE Compatible
- Mechanical IR Cut Filter
- 10m IR Range
- Wide Dynamic Range
- Compact Size
- IP66 Externally Rated

The mini dome camera is ideal for retail and commercial systems as its compact design means it doesn't feel intrusive.

With a 3.6mm fixed lens and 10m IR range the IP-CAM570 is great for internal surveillance. Its crystal clear 4 Mega Pixel resolution makes the mini dome a high performance, low cost IP solution.

The IP-CAM570 also features a mechanical IR cut filter, wide dynamic range, an IP66 rating and can be powered via PoE or a 12V DC PSU.

Order Code: **IP-CAM570B** Black

Order Code: **IP-CAM570W** White

# PoE Switches & Splitters

## PoE Switches



**ScatterBox™**  
.. distributes signals

- Supports Up To 1000mbps
- 240V AC (PSU Supplied)
- Up To 16 Down Links
- Rack/Wall Mountable

This new range of ScatterBox PoE switches are designed for both powering and connecting IP CCTV cameras to a network. The switches have been specifically tailored for CCTV use but they will work with standard network equipment and power other suitable POE devices.

Order Code: **POE401** 1 Up Link, 4 Down Links (100mbps / Wall Mount)

Order Code: **POE801** 1 Up Link, 8 Down Links (100mbps / Rack Mount)

Order Code: **POE162** 2 Up Links, 16 Down Links (1000mbps / Rack Mount)

## Mini PoE Splitter



Simple, reliable low cost in-line splitter takes just seconds to connect, simply plug in your IP camera at one end and the network cable at the other. This compact in-line splitter measures just 75mm long so lends itself to being installed near the IP camera itself.

Order Code: **POE001**

- Overload Protection
- Great Value Compact Size
- Supports 10 & 100Mbps
- 12V DC 1A Output

## Switched Output PoE Splitter



This compact wall-mount PoE splitter is ideal for use with IP CCTV cameras but also a wide range of IP equipment thanks to its adjustable output voltage of 5 to 12V DC. A substantial output current of Two amps make it functional for powering multiple devices too.

Order Code: **POE002**

- Overload Protection
- Great Value Compact Size
- Supports 10 & 100Mbps
- 12V DC 1A Output

## Wall Mount PoE Splitter

- Easy Fit, Click In Design
- Internal Connections
- Supports 10 & 100Mbps
- Wall Mount Design

The POE003 isn't just a wall mount PoE splitter, its IP44 rated ABS case protects the electronics inside making it a great choice for use in outbuildings or under porches.

With a click-in removable insert, simply connect the unit to the network with the RJ45 socket then connect your IP camera to the attached fly lead using the 2.1mm DC plug and RJ45 plug. Then simply click the insert into the outer wall mounted box for a neat installation.

Order Code: **POE003**



**ScatterBox**<sup>TM</sup>  
.. distributes signals

## PoE Injector



**ScatterBox**<sup>TM</sup>  
.. distributes signals

- Supports Up To 1000mbps
- Up To 30W Output Power
- 52V Output
- 220V AC (PSU Supplied)

It may be on certain networks that are encountered, Power over Ethernet is not available to supply power when adding IP CCTV cameras. In this instance a useful addition is a PoE injector that works by adding a power source into the network run.

The POE200 injector works as a mid or end span device after upper network switches and devices and before cameras adding or injecting up to 30W of power into the Ethernet cable allowing PoE cameras to be added to the run thereafter. Typical cable runs of 100m into the device and 100m out of the device are easily achievable on a standard 100Mbps network.

Order Code: **POE200**

# PoE Extenders

## In-line 1ch PoE Extender



- Supports 10 & 100Mbps
- 100m Max Input & Output
- Use 2 Units For 300m Runs
- Can Be Used With Splitters

This small in-line device can extend a network cable run up to 300 metres. Requiring no additional power source it can be installed in ceiling voids and cable ducts to create a longer cable run by simply connecting the RJ45 plugs in and out.

Each extender can be added to an existing 100m run to boost power and data for another 100m and two units can be used to achieve an overall 300m PoE network cable run. A single unit can also be used with a single PoE splitter (models POE001,002,003 on page 32) to power non PoE cameras over longer network runs.

Order Code: **POE100**

## Wall Mount 4ch PoE Extender



- Supports 10 & 100Mbps
- 100m Max Input & Output
- 22W Max Total Output
- 15W Max Per Channel

A simple way to extend a network cable run and power up to four IP CCTV cameras. A cable run of 100m can be extended a further 100m run to add and power up to four 8 Mega Pixel cameras.

The unit is easy to wall mount and no power or additional set up is required. Suitable for use at the end of a network run as an "end span" unit with additional switches before it in the run and can also be used with a PoE Splitter for a non-PoE camera.

The unit has a power input rated at 25.5W and can supply up to 22W overall output with a maximum of 15W on any one output.

Order Code: **POE104**

## RJ45 Straight Patch Leads



<b>NET901B</b> 1M Black	<b>NET901W</b> 1M White
<b>NET902B</b> 2M Black	<b>NET902W</b> 2M White
<b>NET905B</b> 5M Black	<b>NET905W</b> 5M White
<b>NET910B</b> 10M Black	<b>NET910W</b> 10M White
<b>NET915B</b> 15M Black	<b>NET915W</b> 15M White
<b>NET920B</b> 20M Black	<b>NET920W</b> 20M White
<b>NET925B</b> 25M Black	<b>NET925W</b> 25M White
<b>NET930B</b> 30M Black	<b>NET930W</b> 30M White
<b>NET950B</b> 50M Black	<b>NET950W</b> 50M White
<b>NET959B</b> 100M Black	<b>NET959W</b> 100M White

## CAT5e Pro Cable

- Made To Support 1000Mbps
- Protects Against Crosstalk

Quality AntiHum CAT5e Pro cable supports faster data transfer than standard CAT5.

- Order Code: **CAB200** 100m Black
- Order Code: **CAB250** 100m White
- Order Code: **CAB400** 200m Black
- Order Code: **CAB450** 200m White



## RJ45 To 8 Screw Terminal



8 way terminal strip allowing quick and easy conversion into an RJ45 plug.

- Order Code: **CON803** 1pc
- Order Code: **CON812** 10pcs

## RJ45 Rubber Boot



- Order Code: **RG45BB** Blue
- Order Code: **RG45BG** Green
- Order Code: **RG45BR** Red
- Order Code: **RG45BW** White
- Order Code: **RG45BY** Yellow

## RJ45 Plug (8P8C)



A popular network connection plug found on routers & IP cameras. 8P8C (8 position 8 contact) crimp on.

- Order Code: **CON800** 1pc
- Order Code: **CON801** 100pcs

## RJ45 Ratchet Crimp



A ratchet crimp tool for crimping RJ45 plugs onto network cable with built-in wire cutters & stripper.

- Order Code: **TOO960**

## Kontrol & Kommand Module



- Control Third Party Electrical Equipment
- Create Building Automation With A Zip NVR
- 8 Time Controlled Relays
- Use Up To 31 Modules Per NVR
- Control Up To 248 Devices Per NVR

The Kontrol & Kommand module allows remote control of third party electrical equipment/systems via the Zip NVR and our ZipVision.

ZipVision sends a signal to the NVR which forwards the signal on to the Kontrol & Kommand module. Each Module has eight relays that can be opened or closed for adjustable lengths of time.

You may send a signal to open RELAY 1 for 2 minutes, this may open a gate for a visitor. Or you may send a signal to RELAY 9 (second K & K module) to close for 3 hours which overrides a central heating controller. You might even open RELAY 3 for 9 minutes to trigger a siren because you have spotted intruders.

You can assign "groups" to the relays. You can even name each function and button in the software so that it's really easy to use.

Order Code: **REL008**

## KitVault - NVR Enclosure



Order Code: **CCT245**  
Order Code: **FAN012**  
(12V Fan Kit)



- Hinged Lid For Easy Installation And Access
- Lockable To Prevent Unauthorised Access
- Easy Fit Fan Kits For Extra Cooling
- Wall And Desk Boltholes
- Extra Deep Design To Suit Most NVRs

*For more information on the KitVault see online tip 258 at [ZipNVR.com](http://ZipNVR.com)*

## Portable DVD Writer



- Compatible With The Zip NVR Range
- USB 2.0/3.0 Connection
- Plug And Play

With this portable DVD writer you can easily backup and copy recordings from your Zip NVR to disc.

Order Code: **DVD306**

## AlienCCTV HDMI & VGA Monitors



- HDMI & VGA Inputs
- Full HD 1920 x 1080 (21.5", 24" & 32")
- LED Backlight
- Anti-glare

Order Code: **LCD818** (18.5")  
 Order Code: **LCD821** (21.5")  
 Order Code: **LCD823** (24")  
 Order Code: **LCD832** (32")

## USB Memory Sticks



Order Code: **MEM608** (8GB)  
 Order Code: **MEM616** (16GB)  
 Order Code: **MEM632** (32GB)

## HDMI Leads



Order Code: **VID501** (1M)  
 Order Code: **VID502** (2M)  
 Order Code: **VID503** (3M)  
 Order Code: **VID505** (5M)  
 Order Code: **VID510** (10M)

## VoiceOff Voice Annunciator



**ATTENTION!**  
 "You are being  
 Recorded On CCTV  
 Please leave the area"

**VOICEOFF**  
 .COM

- Trigger Up To 9999 Sounds
- 10 Alarm Inputs Trigger 10 Recordable Warnings
- Removable SD Card
- Talkback Function
- RS485 & RS232 Connection
- Weatherproof
- Activate Remotely Over The Internet
- Built-in Relay
- Additional Sound Files Can Be Downloaded at [www.voiceoff.com](http://www.voiceoff.com)

The VoiceOff is an alarm activated voice or sound warning unit that has 10 separate alarm inputs, to trigger up to 10 different recorded sound files. RS485 and RS232 inputs trigger up to 9999 sounds! Over 1000 pre-recorded sounds and messages are available for use at [voiceoff.com](http://voiceoff.com).

Warning messages can be downloaded or recorded in MP3 format and stored on the removable SD card. These sounds can be used to welcome visitors, deter intruders, warn or inform people as they enter certain areas.

Order Code: **VOX300**



For a guide on recording your own VoiceOFF files see online tip 287 at [ZipNVR.com](http://ZipNVR.com)

# Specifications

	ZIP104 (4CH)	ZIP108 (8CH)	ZIP116 (16CH)	ZIP204 (4CH)	ZIP208 (8CH)	ZIP216 (16CH)	ZIP226 (32CH)
Onvif Version	2.6						
Compression	H.265 / H.264						
Network Interface	RJ45 - 100Mbps	RJ45 - 1000Mbps		RJ45 - 100Mbps	RJ45 - 1000Mbps		
Cameras	4 Max (Network)	8 Max (Network)	16 Max (Network)	4 Max (Network)	8 Max (Network)	16 Max (Network)	32 Max (Network)
PoE Cameras	No	No	No	Yes - 4 Max (RJ45)	Yes - 8 Max (RJ45)	Yes - 16 Max (RJ45)	
Recording Resolution	8MP(4K) / 5MP / 3MP / 2MP(1080P) / 1.3MP(960P) / 1MP(720P)						
Recording Bandwidth	40Mbps <i>Max Per Channel</i>	100Mbps <i>Max Per Channel</i>	320Mbps <i>Max Per Channel</i>	40Mbps <i>Max Per Channel</i>	100Mbps <i>Max Per Channel</i>	320Mbps <i>Max Per Channel</i>	
Video Outputs	1x HDMI / 1x VGA						
Output Resolution	HDMI - 4K (Max) / VGA - 1080p (Max)						
Audio Inputs	1x Phono						
Audio Outputs	1x Phono						
Alarm Inputs	4x Hardwired	8x Hardwired	16x Hardwired	4x Hardwired	8x Hardwired	16x Hardwired	
Alarm Outputs	1x Hardwired						
Hard Drive*	6TB Max (1x 6TB)	12TB Max (2x 6TB)	24TB Max (4x 6TB)	12TB Max (2x 6TB)		24TB Max (4x 6TB)	48TB Max (8x 6TB)
eSATA	No	Yes - 4TB Max		No	Yes - 4TB Max		
Communication	RS485 / RS232						
Power	12V DC / 2A	12V DC / 5A		48V DC / 1.2A	48V DC / 2A	52V DC / 2.5A <i>(Built-in)</i>	52V DC / 2.5A 12V DC / 5A <i>(Built-in)</i>
Dimensions	300 x 217 x 53mm	378 x 330 x 50mm	378 x 325.8 x 70mm	378 x 325.8 x 50mm		378 x 325.8 x 70mm	440 x 450 x 98mm

\*Our NVRs take the latest 8 and 10TB sizes but we've based our table on a maximum capacity drive size of 6TB as they currently represent the best value for money.

All specifications are approximate. We 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, we 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.



WEW/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 collection point as defined by your local council.