

## NVRs and DVRs - Cameras - Connecting to Third Party Cameras

Ensure the camera supports ONVIF, and this protocol needs to be turned on in your camera.

The ZIP DVRs and NVRs as standard use an "ONVIF Enhanced" protocol, which is designed to work with the ZIP advanced features like AI, and adjusting the settings on the cameras.

Third party cameras won't work with the enhanced protocol, use ONVIF standard (this is the basic protocol which provides the picture and recording).

[Connecting to PoE NVRs](#)  <sub>2</sub>

[Connecting to Non-PoE NVRs or DVRs](#)  <sub>6</sub>

### Note:

This guide is provided on a best endeavours basis as we do not fully support nor can we help setup 3rd party IP cameras.

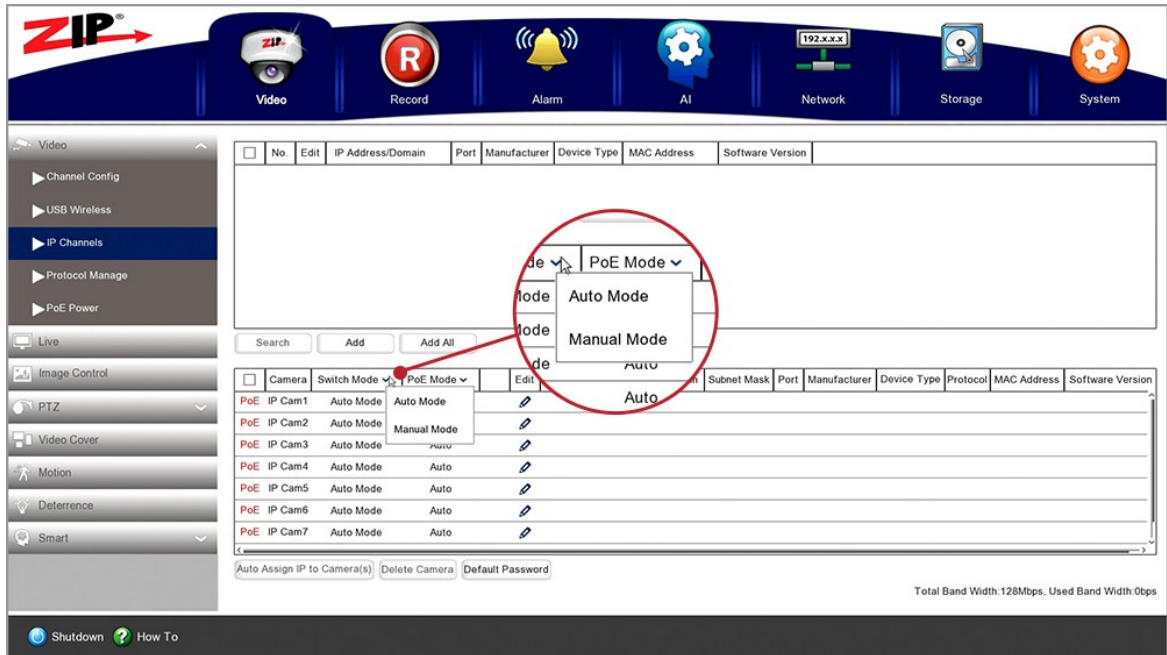
Under no circumstances shall System Q Ltd or its affiliates, partners, suppliers or licensors be liable for any indirect, incidental, consequential, special or exemplary damages arising out of or in connection with your access or use of or inability to access or use a 3rd party IP camera and any third party content and services, whether or not the damages were foreseeable and whether or not System Q Ltd was advised of the possibility of such damages.

## 1.1 Connecting to PoE NVRs

### 1. PoE NVR Switch setting

For PoE NVRs set the Switch Mode / Enable Mode to Manual Mode.

Go to Menu > Video > Video > IP Channels



The screenshot shows the ZIP NVR web interface. The top navigation bar includes icons for Video, Record, Alarm, AI, Network, Storage, and System. The left sidebar shows the menu structure: Video > IP Channels. The main content area displays a table of IP Channels. The 'PoE Mode' dropdown menu is open, showing 'Auto Mode' and 'Manual Mode'. A red circle highlights the 'Manual Mode' option.

No.	Edit	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version
PoE IP Cam1	Auto Mode	Auto Mode					
PoE IP Cam2	Auto Mode	Manual Mode					
PoE IP Cam3	Auto Mode	Auto Mode					
PoE IP Cam4	Auto Mode	Auto Mode					
PoE IP Cam5	Auto Mode	Auto Mode					
PoE IP Cam6	Auto Mode	Auto Mode					
PoE IP Cam7	Auto Mode	Auto Mode					

Auto Assign IP to Camera(s) Delete Camera Default Password

Total Band Width: 128Mbps, Used Band Width: 0bps

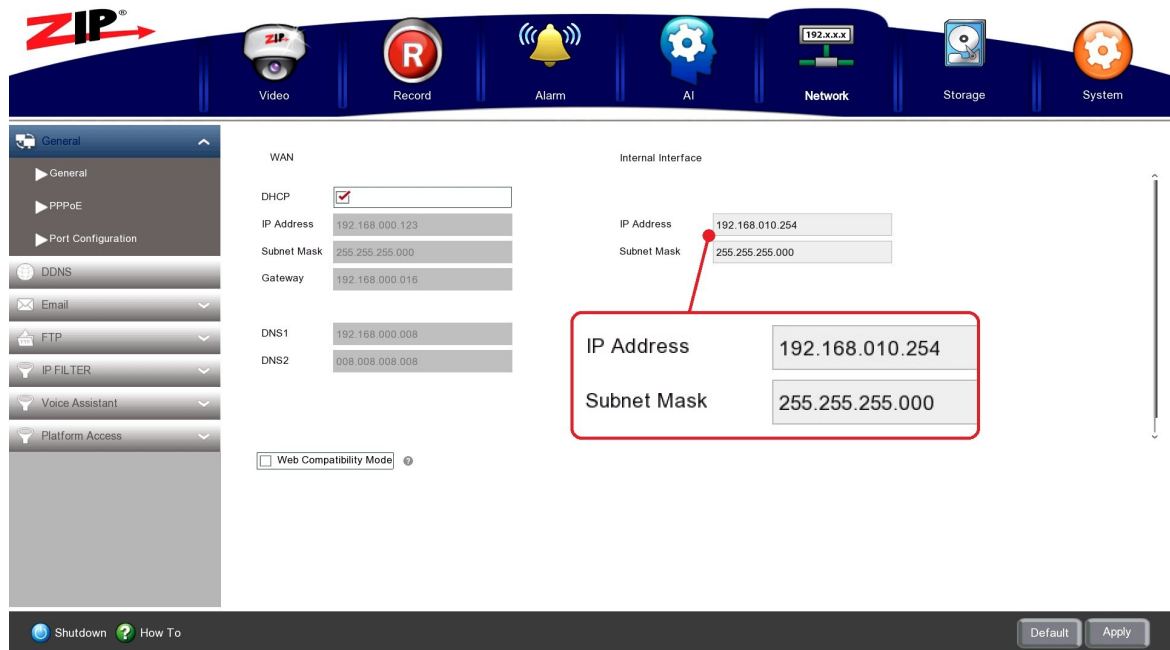
## 2. Check and set the camera IP range

Cameras need to be on the same range as the NVR's PoE switch or "Internet Interface", as default the IP address of the switch is 192.168.010.254.

Go to Menu > Network > General > General

The range of addresses available in this subnet is 192.168.010.001 - 253.

The cameras need to be assigned in this range, for example; 192.168.010.151.



### 3. Add the camera IP to the NVR

Enter the login details for the camera into IP channels page.

Go to Menu > Video > Video > IP channels > Add (or +)

- Enter the IP address of the camera
- Set the port to 80 (Note this may be different depending on model)
- Set the Protocol to Onvif\_standard
- Enter the username and password of the camera (not the NVR's password)

Then click Add

IP Address/Domain	<input type="text" value="192.168.010.151"/>
Camera Name	<input type="text" value="IP Cam1"/>
Port	<input type="text" value="80"/>
Protocol	<input type="text" value="Onvif_standard"/> ▼
Connect Mode	<input type="text" value="General"/> ▼
Username	<input type="text" value="admin"/>
Password	<input type="text" value="123456"/> <input checked="" type="checkbox"/> Show Password

Search

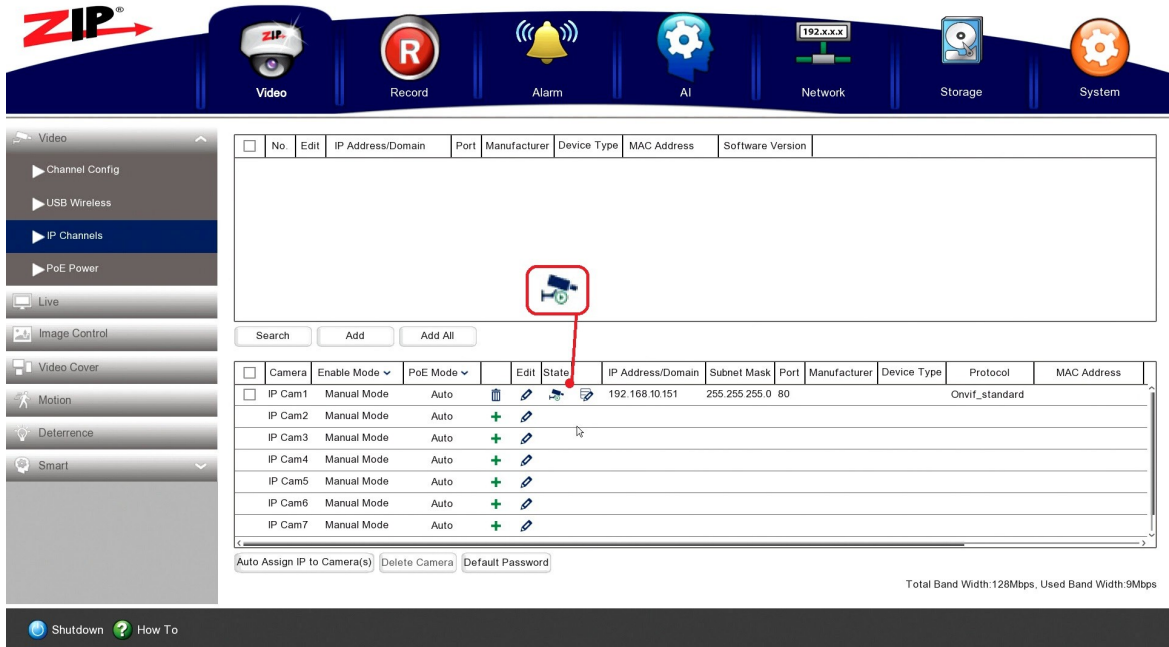
Default Password

Add


Cancel

4. Check the camera is connected.

The status symbol will a green status symbol when connected.



The screenshot shows the ZIP NVR web interface. The top navigation bar includes icons for Video, Record, Alarm, AI, Network, Storage, and System. The left sidebar lists various settings like Channel Config, USB Wireless, IP Channels, PoE Power, Live, Image Control, Video Cover, Motion, Deterrence, and Smart. The main content area displays a table of camera status. A red box highlights the camera icon in the 'State' column for IP Cam1, which is green, indicating it is connected. Below the table, there are buttons for 'Auto Assign IP to Camera(s)', 'Delete Camera', and 'Default Password'. The bottom status bar shows 'Shutdown' and 'How To' options.

No.	Edit	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version				
											
<input type="text"/> Search <input type="button" value="Add"/> <input type="button" value="Add All"/>											
Camera	Enable Mode	PoE Mode	Edit	State	IP Address/Domain	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address
<input type="checkbox"/> IP Cam1	Manual Mode	Auto				192.168.10.151	255.255.255.0	80		Onvif_standard	
<input type="checkbox"/> IP Cam2	Manual Mode	Auto									
<input type="checkbox"/> IP Cam3	Manual Mode	Auto									
<input type="checkbox"/> IP Cam4	Manual Mode	Auto									
<input type="checkbox"/> IP Cam5	Manual Mode	Auto									
<input type="checkbox"/> IP Cam6	Manual Mode	Auto									
<input type="checkbox"/> IP Cam7	Manual Mode	Auto									

Auto Assign IP to Camera(s)   Delete Camera   Default Password

Total Band Width: 128Mbps, Used Band Width: 9Mbps

Shutdown   ? How To

If the NVR can't connect to the camera then the symbol will be red. 

Check the settings in the camera - select edit, to re-enter the settings.

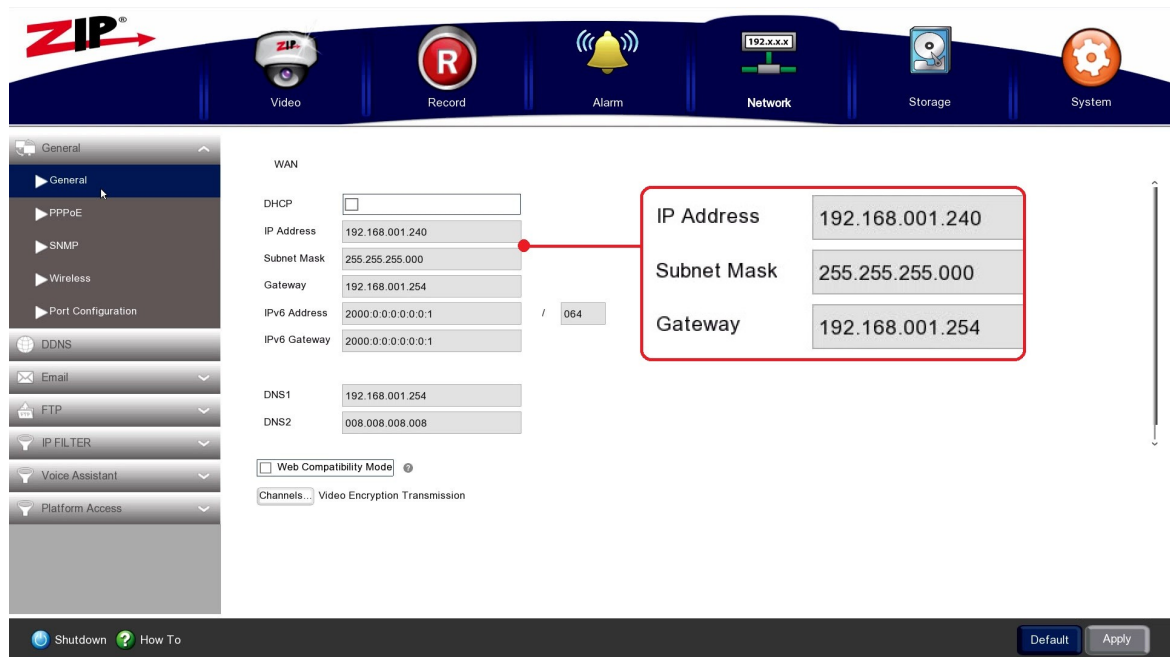
## 1.2 Connecting to Non-PoE NVRs or DVRs

### 1. Check and set the camera IP range

Cameras need to be on the same range as the ZIP recorder, this will totally depend on the network range and address that the recorder is currently on.

Go to Menu > Network > General > General

For example; if the recorder is set to 192.168.001.240, the cameras need to be assigned in this range, for example; 192.168.001.151.



## 2. Add the camera IP to the NVR

Enter the login details for the camera into IP channels page.

Go to Menu > Video > Video > IP channels > Add (or +)

- Enter the IP address of the camera
- Set the port to 80 (Note this may be different depending on model)
- Set the Protocol to Onvif\_standard
- Enter the username and password of the camera (not the NVR's password)

Then click Add

IP Address/Domain	<input type="text" value="192.168.001.151"/>
Camera Name	<input type="text" value="IP Cam1"/>
Port	<input type="text" value="80"/>
Protocol	<input type="text" value="Onvif_standard"/> ▼
Connect Mode	<input type="text" value="General"/> ▼
Username	<input type="text" value="admin"/>
Password	<input type="text" value="123456"/>

☒ Show Password

Search

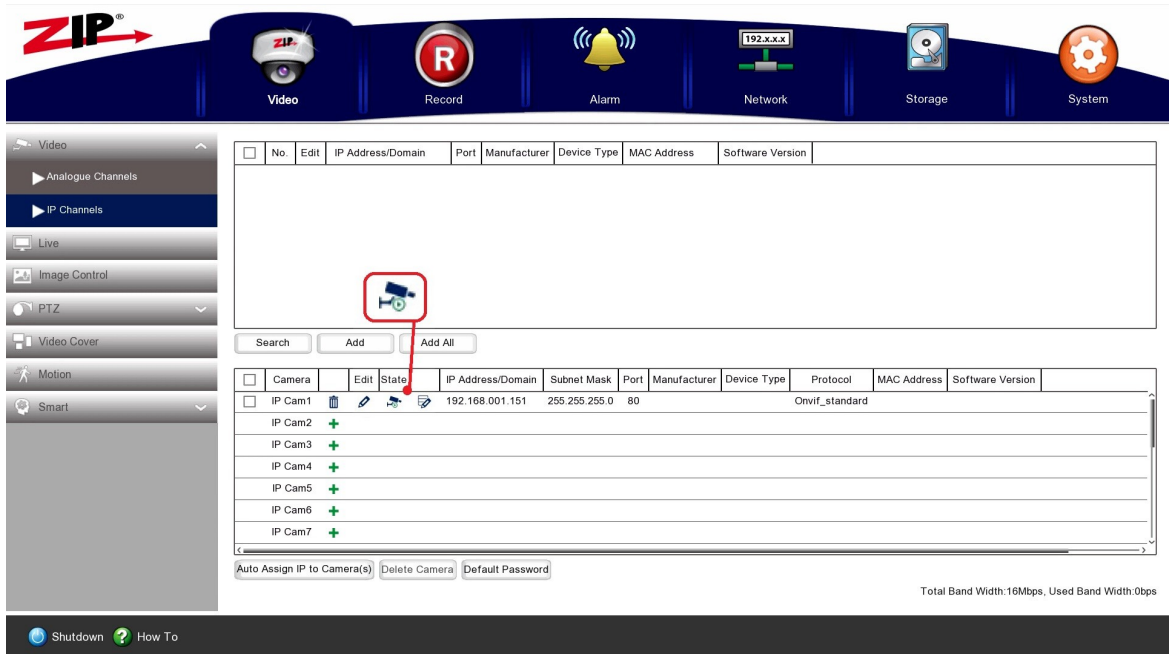
Default Password

Add

Cancel

### 3. Check the camera is connected.

The status symbol will a green status symbol when connected.



The screenshot shows the ZIP NVR web interface. The top navigation bar includes icons for Video, Record, Alarm, Network, Storage, and System. The left sidebar lists various functions like Video, IP Channels, Live, Image Control, PTZ, Video Cover, Motion, and Smart. The main content area displays a table of camera status. A red box highlights a green camera icon in the 'State' column, indicating a successful connection.

No.	Edit	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version
IP Cam1		192.168.001.151	255.255.255.0	80	Onvif_standard		
IP Cam2	+						
IP Cam3	+						
IP Cam4	+						
IP Cam5	+						
IP Cam6	+						
IP Cam7	+						

Buttons: Search, Add, Add All

Auto Assign IP to Camera(s) Delete Camera Default Password

Total Band Width: 16Mbps, Used Band Width: 0bps

Shutdown ? How To

If the NVR can't connect to the camera then the symbol will be red.



Check the settings in the camera - select edit, to re-enter the settings.