



# VIPER: How to add a Redvision RVX PTZ camera

VISTA  
KNOWLEDGE  
BASE

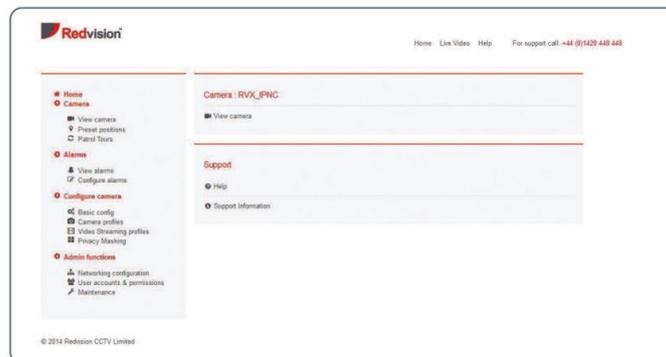
## INTRODUCTION

The following Procedure explains how to add a Redvision PTZ IP camera to a VIPER NVR

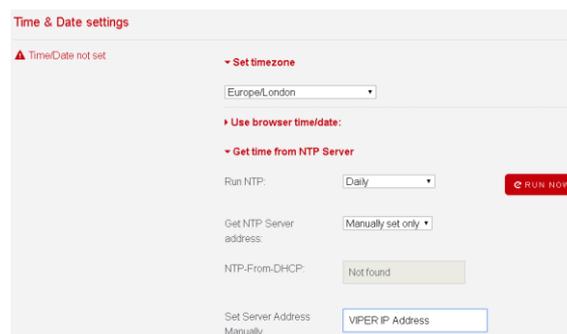
*Note: A separate PC & switch will be needed to do the initial set up of the camera. To discover the IP Address please Refer to the camera's manual. In this procedure the Camera is set to out of Box Defaults {As default camera login details are admin/9999} Default password on VIPER [admin/admin]*

### Initial Set up of Camera

- Once you know the IP address of the camera, open the web interface page of Camera. [Recommended browser is "Chrome"]  
As default camera login details are admin/9999



- Select "Admin Functions" > "Networking Configuration" (you will need to login to access) Set IP address of camera to same range as the VIPER
- Make sure Time & Date are correct
  - Point Time setting to the Network address of the VIPER, as below.





- Next go to "Configure camera" > "Video Streaming Configuration" to set up stream profiles [example below]

**Video Streaming Configuration**

Imager Mode: 1080p25

Stream + codec combination: Dual H.264

Apply & Restart Streaming: **APPLY & RESTART**

Video Encoder Configuration - Stream 1	Video Encoder Configuration - Stream 2
rtsp://172.16.0.185:5540	rtsp://172.16.0.185:8554/1
<b>Parameters fixed at stream start</b>	<b>Parameters fixed at stream start</b>
You must use the "Restart" button above for these to take effect.	You must use the "Restart" button above for these to take effect.
Size: 1080p	Size: D1
H.264 Profile: Main	H.264 Profile: High (default)
Stream Port: 554	Stream Port: 8554
Multicast: Disabled	Multicast: Disabled
<b>Parameters changed on-the-fly</b>	<b>Parameters changed on-the-fly</b>
Note: Some may have no effect if fixed params above do not allow them.	Note: Some may have no effect if fixed params above do not allow them.
Framerate: 18	Framerate: 7
Bitrate: 4595000 <small>Note that the bitrate will be limited by the frame rate for low frame rates.</small>	Bitrate: 512000 <small>Note that the bitrate will be limited by the frame rate for low frame rates.</small>
Rate Control Algorithm: VBR	Rate Control Algorithm: VBR
IDR-Frame Interval - Default: 25	IDR-Frame Interval - Default: 25
Frame Max Size Ratio - 0 = Auto	Frame Max Size Ratio - 0 = Auto
Gradual Decoder Refresh (GDR)	Gradual Decoder Refresh (GDR)
Gradual Decoder Refresh: Disabled	Gradual Decoder Refresh: Disabled
GDR Duration - MUST be less than GDR Interval	GDR Duration - MUST be less than GDR Interval
GDR Interval: 30	GDR Interval: 30
Save / Apply settings: <b>APPLY &amp; RESTART</b>	Save / Apply settings: <b>APPLY &amp; RESTART</b>

Note: You need to click "Apply & Restart" after each of the above steps

- Once these settings are completed click on the "ONVIF Sync"

**ONVIF Profile Sync**

For NVR clients which cannot populate ONVIF profiles, this will automatically create profiles to match the current streaming settings. You should set the streaming settings on this page BEFORE syncing the ONVIF profiles.

Please note this will over-write any existing ONVIF profiles.

**SYNC**

- Finally go to "Maintenance" > "Lock ONVIF Profiles"

**Lock ONVIF Profiles**

Some systems can set conflicting configurations in ONVIF profiles, this prevents modification of the video streaming settings via ONVIF.

Locked

- The Redvision PTZ dome supports Wiper and Multiple Camera Profiles, these are used to optimise the camera performance by default there is 5 profiles: - Daytime, Indoors, Low-Light, Zero-Light & User [See Redvision manual for more details]

- These Profiles and the Wiper control can be mapped to presets, if this is required go to "Configure Camera" > "Basic Config" > "Shortcuts" and set up as per the below example

- Wiper - Preset 10
- Day/Night toggle - Preset 11
- Daytime - Preset 12
- Indoors - Preset 13
- Low-Light - Preset 14
- Zero-Light - Preset 15
- User - Preset 16

- Then you can change/force Camera Profile or operate Wiper via Presets from the VIPER NVR



**Shortcuts**

Selecting a preset as a shortcut activates the named function instead of going to the position (if set).

Wash Shortcut	[Not set] ▼
Wiper Shortcut	10 : Toggle Wiper (Daytime) ▼
Day/Night Toggle Shortcut	11 : Day/Night Mode Toggle ▼

**Camera profile override:**  
This allows the user to force the camera to a given profile. Selecting the shortcut a 2nd time will restore the camera to the normal profile for the current settings. You can also use the "Cancel forced profile" shortcut to restore the default profile.

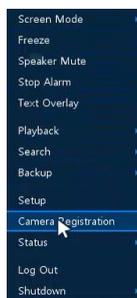
Force to profile 1 (Daytime)	12 : Force Profile 1 ▼
Force to profile 2 (Indoors)	13 : Force Profile 2 ▼
Force to profile 3 (Low-Light)	14 : Force Profile 3 ▼
Force to profile 4 (Zero-Light)	15 : Force Profile 4 ▼
Force to profile 5 (User)	16 : Force Profile 5 ▼
Cancel forced profile	17 : Cancel Profile Override ▼

Save settings SAVE ALL

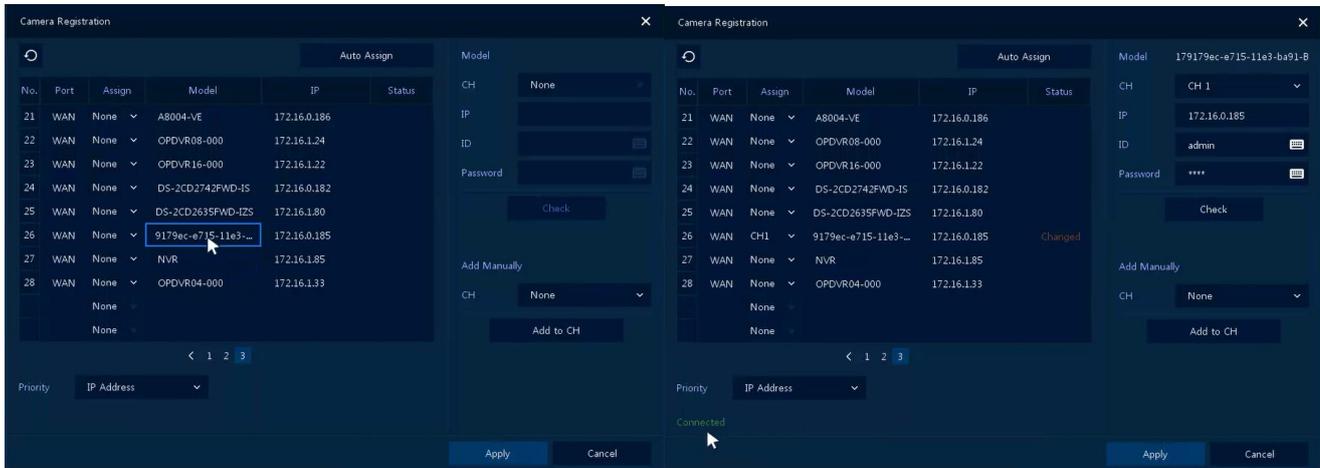
- Once these settings are completed connect camera to same network as the VIPER NVR

### How to Connect Camera

- Login into VIPER {admin/admin} then "Right click" the on any camera window and select Camera Registration



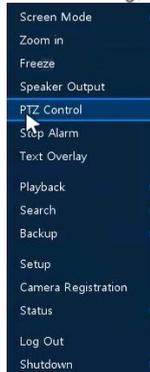
- List of cameras discovered is displayed
  - Select required camera {note the Redvision dome does not display the Model but the HW ID "this is a dome issue not VIPER" need to check IP Address is correct}
  - Assign Channel
  - Enter camera login details User/Password [admin/9999]
  - Click check if details are correct the camera will show connected



- Click Apply 
- Once added if you reselect "Camera Registration" you will see the correct Model is displayed



- Exit Menu and check the camera is displayed and PTZ is working, to enable PTZ select camera and right click > select PTZ



This completes the guide.