

VIPER: How to add a Redvision RVX PTZ camera

VISTA KN©WLEDGE 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

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• 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

# Home	Camera : RVX_IPNC
View camera Preset positions Patrol Tours	BR View camera
O Alarma	
A View alarms	Support
Configure alarms	@ Help
O Configure camera	O Support Information
Camera profiles	
Video Streaming profiles Privacy Masking	
O Admin functions	
 Metworking configuration User accounts & permissions Maintenance 	

- 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
 - o Point Time setting to the Network address of the VIPER, as below.





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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://172.16.0.185:554/0		rtsp://172.16.0.185:8554/1	
Parameters fixed at stream start		Parameters fixed at stream start	
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	1090p •	Size	D1 V
H.264 Profile	Main	H.264 Profile	High (default) V
Stream Port	554	Stream Port	8554
Multicast	Disabled T	Multicast	Disabled V
Parameters changed on-the-fly		Parameters changed on-the-fly	
Note: Some may have no effect if fixed params above do not allow them	I	Note: Some may have no effect if fixed params above do not allow then	n
Framerate	18	Framerate	E7
Bitrate	4595000 Note that the bitrate will be limited by the frame rate for low frame rates.	Bitrate	512000 Note that the bitrate will be limited by the frame rate for low frame rates.
Rate Control Algorithm	VBR •	Rate Control Algorithm	VBR
IDR-Frame Interval - Default: 25		IDR-Frame Interval - Default: 25	-C
Frame Max Size Ratio - 0 = Auto	60	Frame Max Size Ratio - 0 = Auto	60
Gradual Decoder Refresh (GDR)		Gradual Decoder Refresh (GDR)	
Gradual Decoder Refresh	Disabled	Gradual Decoder Refresh	Disabled
GDR Duration - MUST be less than GDR Interval	<u> </u>	GDR Duration - MUST be less than GDR Interval	G
GDR Interval	-0-30	GDR Interval	
Save / Apply settings	APPLY & RESTART	Save / Apply settings	APPLY & RESTART

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

•	Once thes	e settings are completed click on t	he "ONVIF Sync"
		ON/IF Profile Sync	 For NVR clients which cannot populate ONVF profiles, this will automatically create profiles to match the current streaming settings. You should set the streaming settings on this page EEFORE syncing the ONVF profiles. Please note this will over-write any existing ONVF profiles.
			SYNC
•	Finally go	to "Maintenance" > "Lock ONVIF F	Profiles"
		Lock ONVIF Profiles	
		Some systems can set conflicting configu	rations in ONVIF profiles, this prevents modification of the video streaming settings via ONVIF.
		Locked V	

• 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

1.	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

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



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Shortcuts	
Selecting a preset as a shortcut activates the named function instead of going to the position (it 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 th shortcut to restore the default profile.	he camera to the normal profile for the current settings. You can also use the "Cancel forced 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

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• 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}
 - o Assign Channel
 - o Enter camera login details User/Password [admin/9999]
 - o Click check if details are correct the camera will show connected





Camer	a Regis	tration							×	Came	era Regis	tration							×
Ð					Auto	Assign				Ð					Auto	Assign		179179ec-e715-11e	3-ba91-B
No.								None				Assign						СН 1	
21	WAN	None 🗸	A8004-VE	172.16.0	0.186						WAN	None 🗸	A8004-VE	172.16	.0.186			172.16.0.185	
22	WAN	None 🗸	OPDVR08-000	172.16.1							WAN	None 🗸	OPDVR08-000	172.16	.1.24			admin	
23	WAN	None 🗸	OPDVR16-000	172.16.1							WAN	None 🗸	OPD/VR16-000	172.16	.1.22				
24	WAN	None 🗸	DS-2CD2742FWD-IS	172.16.0							WAN	None 🗸	DS-2CD2742FWD-IS	172.16	.0.182				
25	WAN	None 🗸	DS-2CD2635FWD-IZS	172.16.1						25	WAN	None 🗸	DS-2CD2635FWD-IZS	172.16				Check	
26	WAN	None 🗸	9179ec-e715-11e3	172.16.0	0.185					26	WAN	сн1 🗸	9179ec-e715-11e3	172.16	.0.185				
27	WAN	None 🗸	NVR	172.16.1	1.85		Add Manual			27	WAN	None 🗸	NVR	172.16	.1.85			lly	
28	WAN	None 🗸	OPDVR04-000	172.16.1	1.33			None		28	WAN	None 🗸	OPDVR04-000	172.16	.1.33			None	
		None 🤍										None							
		None						Add to CH				None						Add to CH	
			< 1 2 3																
Priority		IP Address										IP Address							
											•								
							Apply	Cancel									Apply	Canc	el

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

Came	era Regist	tration			
Ð				Aut	to Assign
	Port	Assign	Model	IP	Status
	WAN	сн1 🗸	RVX-IP30-IRWL-W	172.16.0.185	

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

Screen Mode Zoom in Freeze Speaker Output PTZ Control Stop Alarm Text Overlay Playback Search Backup Setup Camera Registration Status Log Out Shutdown

This completes the guide.

