

TIMESPACE



X500/R500 IP Camera Setup Guide

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1 Introduction

This setup guide has been produced to help users of the Timespace X500 and R500 digital video recorders (DVRs) to set up IP cameras on the DVRs.

The guide provides specific setup details for cameras which, at the time of issue of this document, have been tested by Timespace and are confirmed as compatible with the X500 and R500 DVRs.

X500 and R500 DVRs are shipped with pre-configured default settings for the cameras included in this setup guide. The default settings are contained in the DVR's TSCONFIG file, which will periodically be updated by Timespace. The updated TSCONFIG file will then form part of subsequent DVR software releases.

Further information on DVR configuration and menu settings can be found in the X500/R500 Instruction Manual, Timespace document number TT0913, which can be obtained from Timespace on 01480 414147 or support@tspace.co.uk.

2 Axis M3114-R

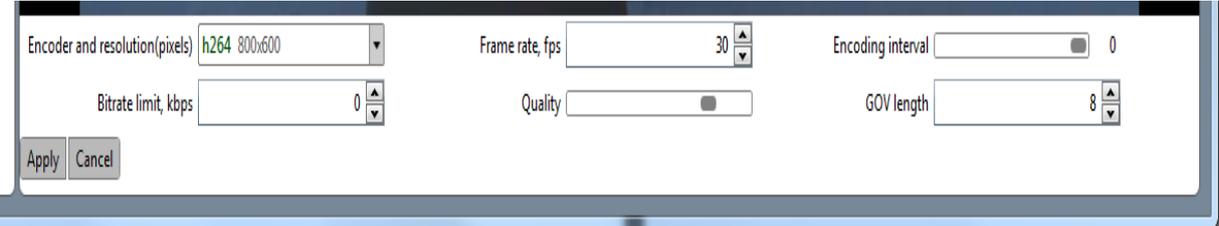
2.1 Setting up Axis M3114-R camera

Connect to camera using ONVIF Manager.

Select Profile <quality h264> via Profiles menu and then set stream via Video Streaming menu:

Primary stream (Recorded stream):

- 30 fps
- 800 x 600
- H.264



The screenshot shows the video streaming configuration interface. The settings are as follows:

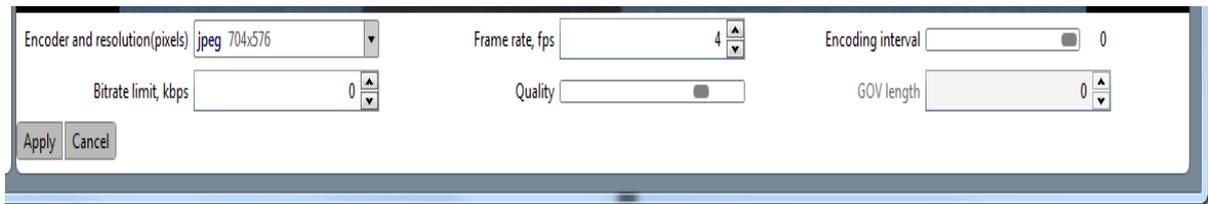
Parameter	Value
Encoder and resolution(pixels)	h264 800x600
Frame rate, fps	30
Encoding interval	0
Bitrate limit, kbps	0
Quality	Quality (radio button selected)
GOV length	8

Buttons: Apply, Cancel

Select Profile <quality jpeg> via Profiles menu and then set stream via Video Streaming menu:

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG



Select Network- Settings to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

2.2 X500/R500 Set up for Axis M3114-R

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Axis M3114-R selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: `onvif-media/media.amp?profile=quality_h264`

JPEG stream 2: `onvif-media/media.amp?profile=quality_jpeg`

USER: root

PASSWORD: root

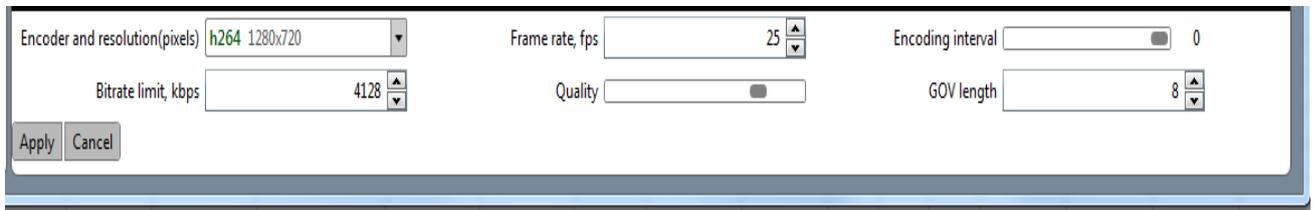
3 AXIS P12/M20

3.1 Setting up AXIS P12/M20 camera

Connect to camera using ONVIF Manager.

Primary stream (Recorded stream):

- 25 fps
- 1280 x 720
- H.264



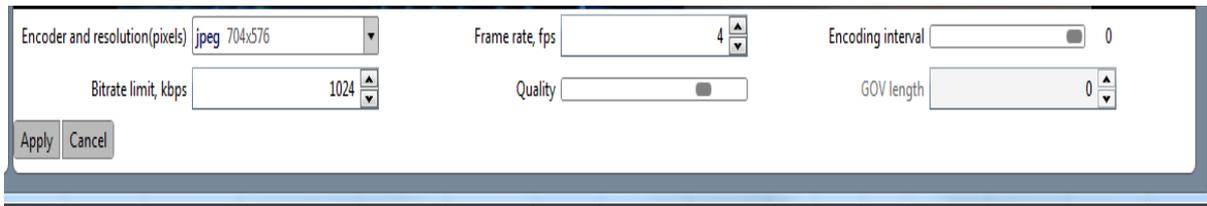
The screenshot shows a configuration window for the primary stream with the following settings:

Parameter	Value
Encoder and resolution(pixels)	h264 1280x720
Frame rate, fps	25
Encoding interval	0
Bitrate limit, kbps	4128
Quality	0
GOV length	8

Buttons: Apply, Cancel

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG



Select Network Settings to get to the IP address menu

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0.

3.2 X500/R500 set up for AXIS P12/M20

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have AXIS P12/M20 selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: onvif-media/media.amp?profile=profile_1_h264

JPEG stream 2: onvif-media/media.amp?profile=profile_1_jpeg

USER: root

PASSWORD: root

4 Bosch Dinion 7000

4.1 Setting up Bosch Dinion 7000 HD camera

Connect to camera using browser interface and select Configuration->Camera->Encoder Streams->Stream 1 to get to the following menu.

Primary stream (Recorded stream):

- H.264 MP 720p fixed

Encoder Streams

Video 1
Camera 1

Stream 1

Property	H.264 MP 720p fixed
Non-recording profile	Configured by ONVIF
Current profile	Configured by ONVIF

Stream 2

Property	H.264 MP SD
Non-recording profile	5: SD Balanced
Current profile	SD Balanced

JPEG stream

Resolution	768 x 432
Max. frame rate	5 fps
Picture quality	Low <input type="range"/> High

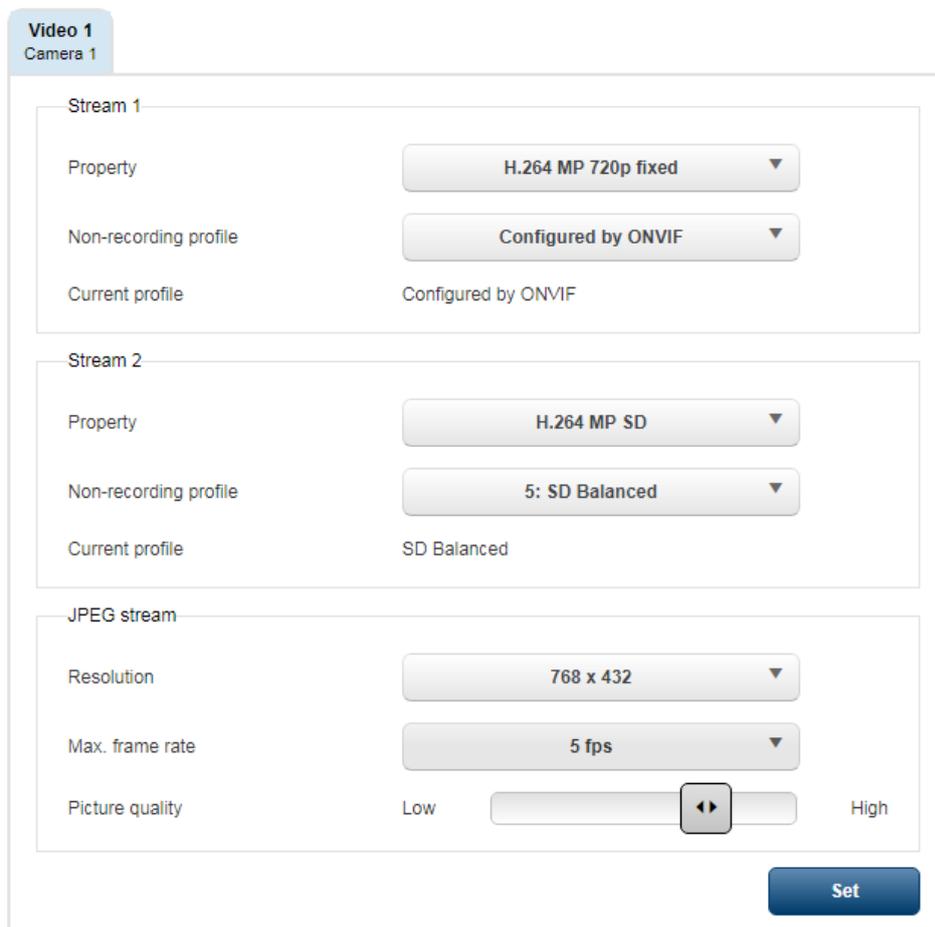
Set

Select Configuration->Camera->Encoder Streams->JPEG stream to get to the following menu.

Secondary Stream (Live View):

- 5 fps
- 768 x 432
- MJPEG

Encoder Streams



The screenshot displays the 'Encoder Streams' configuration page for 'Video 1' and 'Camera 1'. It is divided into three sections:

- Stream 1:** Property is set to 'H.264 MP 720p fixed', Non-recording profile is 'Configured by ONVIF', and Current profile is 'Configured by ONVIF'.
- Stream 2:** Property is set to 'H.264 MP SD', Non-recording profile is '5: SD Balanced', and Current profile is 'SD Balanced'.
- JPEG stream:** Resolution is '768 x 432', Max. frame rate is '5 fps', and Picture quality is a slider set between 'Low' and 'High'.

A 'Set' button is located at the bottom right of the configuration area.

Select Configuration->Network->Network Access to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

4.2 X500/R500 Set up for Bosch Dinion 7000 HD

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Bosch Dinion 7000 HD and then apply.

This should set the X500/R500 as follows:

H264 stream 1: rtsp_tunnel?h26x=4&line=1&inst=1

JPEG stream 2: rtsp_tunnel?h26x=0&line=1

USER: live

PASSWORD: admin

5 Bosch Dinion 8000

5.1 Setting up Bosch Dinion 8000 MP camera

Connect to camera using browser interface and select Configuration->Camera->Encoder Streams->Stream 1 to get to the following menu.

Primary stream (Recorded stream):

- 3840 x 2160 (UHD)

The Bosch 8000 camera can be set up to output at 4k resolution (3840 x 2160) on the main stream which is then recorded to the X500/R500 disk. Playback of this footage only runs on PCLink when installed with a Windows 64 bit operating system. **The Windows 32 bit operating system may not support 4k playback on PCLink.**

Encoder Streams

Video 1
 Camera 1

Stream 1

Property	3840x2160 (UHD) ▼
Non-recording profile	Configured by ONVIF ▼
Active profile	0: Configured by ONVIF

Stream 2

Property	Copy Stream 1 ▼
Non-recording profile	1: UHD Image Optimized ▼
Active profile	2: UHD Balanced

JPEG stream

Resolution	768 x 432 ▼
Max. frame rate	5 fps ▼
Picture quality	Low ◀▶ High

Select Configuration->Camera->Encoder Streams->JPEG stream to get to the following menu.

Secondary Stream (Live View):

- 5 fps
- 768 x 432
- MJPEG

Encoder Streams

Video 1
 Camera 1

Stream 1

Property	3840x2160 (UHD) ▼
Non-recording profile	Configured by ONVIF ▼
Active profile	0: Configured by ONVIF

Stream 2

Property	Copy Stream 1 ▼
Non-recording profile	1: UHD Image Optimized ▼
Active profile	2: UHD Balanced

JPEG stream

Resolution	768 x 432 ▼
Max. frame rate	5 fps ▼
Picture quality	Low ◀▶ High

Select Configuration->Network->Network Access to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

5.2 X500/R500 Set up for Bosch Dinion 8000 MP

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Bosch Dinion 8000 MP and then apply.

This should set the X500/R500 as follows:

H264 stream 1: rtsp_tunnel?h26x=4&line=1&inst=1

JPEG stream 2: rtsp_tunnel?h26x=0

USER: live

PASSWORD: root

6 CANON VB-H45

6.1 Setting up CANON VB-H45 camera

Connect to camera using browser interface and select Video to get to the following menu.

Primary stream (Recorded stream):

- 30 fps
- 1920 x 1080
- H.264

Secondary Stream (Live View):

- 4 fps
- 480 x 270
- MJPEG

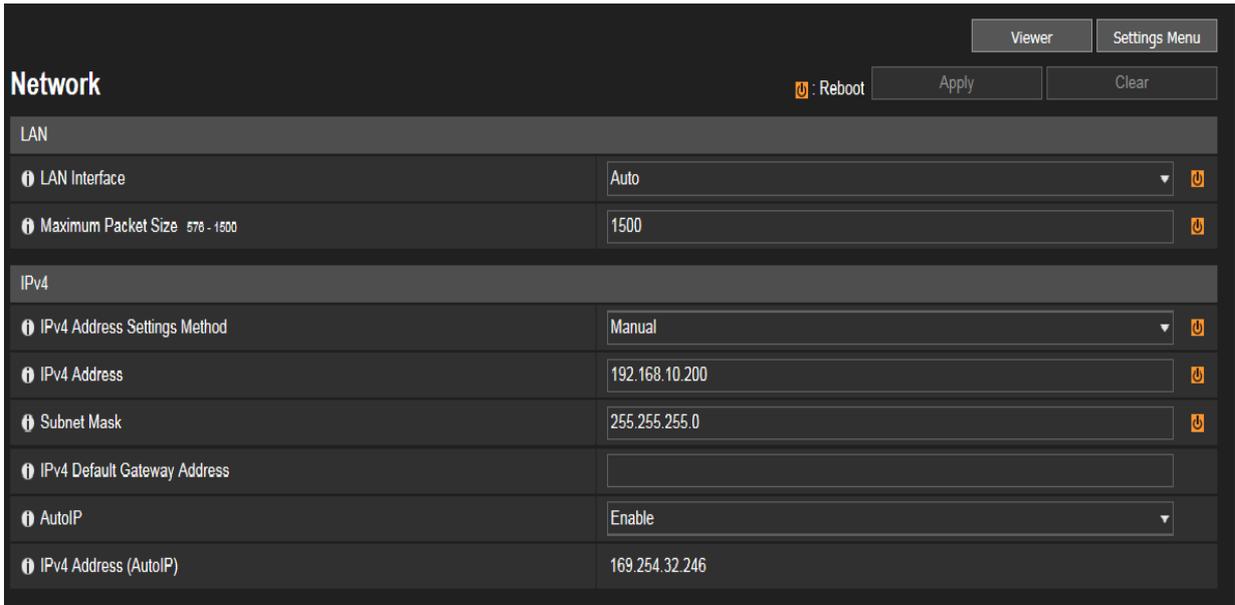
All Videos	
Video Size Set	1920 x 1080 / 960 x 540 / 480 x 270
JPEG	
Video Quality: 480 x 270	4
Video Quality: 960 x 540	4
Video Quality: 1920 x 1080	4
Video Quality: Digital PTZ	4
Video Size: video Transmission	480 x 270
Maximum Frame Rate: Video Transmission 0.1 - 30	4.0
Video Size: Upload / Memory card	480 x 270
H.264(1)	
Video Size	1920 x 1080
Bit Rate Control	Use bit rate control (constant bit rate)
Target Bit Rate (kbps)	3072
Frame Rate (fps)	30
I Frame Interval (sec)	0.5

Select Network to get to the IP address menu

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0.



The screenshot shows the Network configuration page. At the top right, there are buttons for 'Viewer', 'Settings Menu', 'Reboot', 'Apply', and 'Clear'. The page is divided into two sections: LAN and IPv4.

LAN	
LAN Interface	Auto
Maximum Packet Size 576 - 1500	1500

IPv4	
IPv4 Address Settings Method	Manual
IPv4 Address	192.168.10.200
Subnet Mask	255.255.255.0
IPv4 Default Gateway Address	
AutoIP	Enable
IPv4 Address (AutoIP)	169.254.32.246

6.2 X500/R500 Set up for CANON VB-H45

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have CANON VB-H45 selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: stream/profile1=r

JPEG stream 2: stream/profile0=r

USER: admin

PASSWORD: password

7 David Horn FWN-GY_L6

7.1 Setting up David Horn FWN-GY_L6 camera

Connect to camera using browser interface and select Admin->Device Configuration->Camera & Motion to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264

Select Camera & Motion/Secondary Stream to get to the following menu.

Secondary Stream (Live View):

- 3.57 fps
- 704 x 480
- MJPEG

Camera & Motion Configuration

Max Frame Rate		<input type="radio"/> 30 fps <input checked="" type="radio"/> 25 fps
Video with Flexible Extra System data		<input type="checkbox"/> Enable
Video with user defined message		<input type="checkbox"/> Enable
Video with PPP status		<input type="checkbox"/> Enable
Video with camera name		<input type="checkbox"/> Enable
Video with server name		<input type="checkbox"/> Enable
Video with IP address		<input type="checkbox"/> Enable
Time Stamp		<input type="radio"/> On <input checked="" type="radio"/> Off
TV Out		<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Primary Stream	Frame Rate	25 fps ▾
	Image Size	1920 x 1080 ▾
	Encoding Standard	<input type="radio"/> M-JPEG <input checked="" type="radio"/> H.264
	Audio	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Secondary Stream	Frame Rate	3.57 fps ▾
	Image Size	704 x 480 ▾
	Encoding Standard	<input checked="" type="radio"/> M-JPEG <input type="radio"/> H.264
	Audio	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Tertiary Stream	Frame Rate	25 fps ▾
	Image Size	320 x 176 ▾
	Encoding Standard	<input type="radio"/> M-JPEG <input checked="" type="radio"/> H.264
	Audio	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

Select Network Configuration->Network Configuration to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

7.2 X500/R500 Set up for David Horn FWN-GY_L6

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have David Horn FWN-GY_L6 selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: cam0_0

JPEG stream 2: cam0_1

USER: root

PASSWORD: root

8 Harris Tech Pericam

8.1 Setting up Harris Tech Pericam camera

Connect to camera using browser interface and select Configuration->Video/Audio->Main Stream(Normal) to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264

Video	Audio	ROI
Stream Type	Main Stream(Normal) ▼	
Video Type	Video Stream ▼	
Resolution	1920*1080P ▼	
Bitrate Type	Variable ▼	
Video Quality	Medium ▼	
Frame Rate	25 ▼	fps
Max. Bitrate	4096	Kbps
Video Encoding	H.264 ▼	
H.264+	OFF ▼	
Profile	High Profile ▼	
I Frame Interval	50	
SVC	OFF ▼	
Smoothing	<input type="range" value="50"/> 50 [Clear<->Smooth]	



Select Configuration->Video/Audio->Sub-Stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG

Video	Audio	ROI
Stream Type	Sub-stream ▼	
Video Type	Video Stream ▼	
Resolution	704*576 ▼	
Bitrate Type	Variable ▼	
Video Quality	Medium ▼	
Frame Rate	4 ▼	fps
Max. Bitrate	1024	Kbps
Video Encoding	MJPEG ▼	
I Frame Interval	50	

 Save

Select Comms: Configuration->Network->Basic Settings to get to the IP address menu:

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0.

8.2 X500/R500 set up for Harris Tech Pericam

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Harris Tech Pericam selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/101?transportmode=unicast&profile=Profile_1

JPEG stream 2: Streaming/Channels/102?transportmode=unicast&profile=Profile_2

USER: admin

PASSWORD: HIK12345

9 HIK DS-2CD2510F

9.1 Setting up HIK DS-2CD2510F camera

Connect to camera using browser interface and select Basic Configuration->Video/Audio->Main Stream(Normal) to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1280 x 960
- H.264

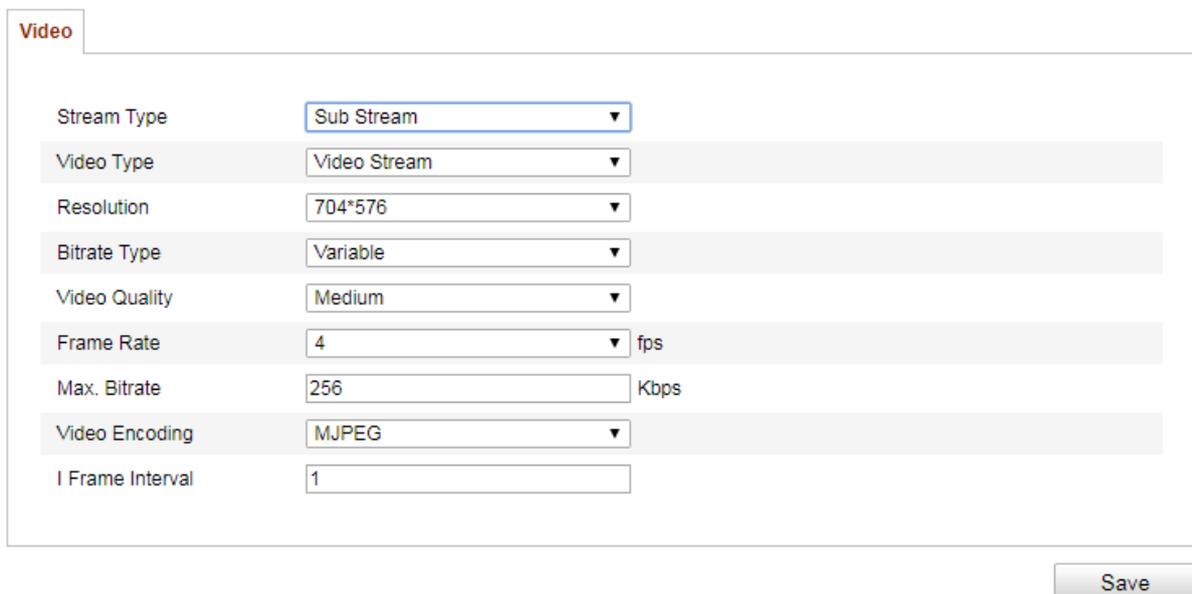
Video

Stream Type	Main Stream(Normal)	▼
Video Type	Video Stream	▼
Resolution	1280*960	▼
Bitrate Type	Constant	▼
Video Quality	Medium	▼
Frame Rate	25	▼ fps
Max. Bitrate	6144	Kbps
Video Encoding	H.264	▼
Profile	Main Profile	▼
I Frame Interval	50	
SVC	OFF	▼
Smoothing	<input type="range" value="50"/>	50 [Clear<->Smooth]

Select Basic Configuration->Video/Audio->Sub-stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG



The screenshot shows a configuration window titled "Video" with the following settings:

Stream Type	Sub Stream
Video Type	Video Stream
Resolution	704*576
Bitrate Type	Variable
Video Quality	Medium
Frame Rate	4 fps
Max. Bitrate	256 Kbps
Video Encoding	MJPEG
I Frame Interval	1

Save

Select Configuration->Basic Configuration->Network to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

9.2 X500/R500 Set up for HIK DS-2CD2510F

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have HIK DS-2CD2510F selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/101?transportmode=unicast&profile=Profile_1

JPEG stream 2: Streaming/Channels/102?transportmode=unicast&profile=Profile_2

USER: admin

PASSWORD: Password

10 HIK DS-2CD2542FWD-IS

10.1 Setting up HIK DS-2CD2542FWD-IS camera

Connect to camera using browser interface and select Configuration->Video/Audio->Main Stream(Normal) to get to the following menu.

Primary stream (Recorded stream):

- 12 fps
- 1920 x 1080
- H.264

Stream Type	<input type="text" value="Main Stream(Normal)"/>	▼
Video Type	<input type="text" value="Video Stream"/>	▼
Resolution	<input type="text" value="1920*1080P"/>	▼
Bitrate Type	<input type="text" value="Constant"/>	▼
Video Quality	<input type="text" value="Medium"/>	▼
Frame Rate	<input type="text" value="12"/>	▼ fps
Max. Bitrate	<input type="text" value="12288"/>	Kbps
Video Encoding	<input type="text" value="H.264"/>	▼
H.264+	<input type="text" value="OFF"/>	▼
Profile	<input type="text" value="Main Profile"/>	▼
I Frame Interval	<input type="text" value="24"/>	
SVC	<input type="text" value="OFF"/>	▼
Smoothing	<input type="range" value="50"/>	50 [Clear<->Smooth]

 Save

Select Configuration->Video/Audio->Sub-stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 640 x 360
- MJPEG

Stream Type	<input type="text" value="Sub Stream"/>	▼
Video Type	<input type="text" value="Video Stream"/>	▼
Resolution	<input type="text" value="640*360"/>	▼
Bitrate Type	<input type="text" value="Variable"/>	▼
Video Quality	<input type="text" value="Medium"/>	▼
Frame Rate	<input type="text" value="4"/>	▼ fps
Max. Bitrate	<input type="text" value="256"/>	Kbps
Video Encoding	<input type="text" value="MJPEG"/>	▼
I Frame Interval	<input type="text" value="1"/>	



Select Configuration->Network->Basic Settings to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

10.2 X500/R500 Set up for HIK DS-2CD2542FWD-IS

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have HIK DS-2CD2542FWD-IS selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/101?transportmode=unicast&profile=Profile_1

JPEG stream 2: Streaming/Channels/102?transportmode=unicast&profile=Profile_2

USER: admin

PASSWORD: Password

11 HIK DS-2CD4B26FWD-IWZ

11.1 Setting up HIK DS-2CD4B26FWD-IWZ camera

Connect to camera using browser interface and select Configuration->Video/Audio->Main Stream(Normal) to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264

Video	Audio	ROI	Display Info. on Stream	Target Cropping
Stream Type			Main Stream(Normal)	▼
Video Type			Video Stream	▼
Resolution			1920*1080P	▼
Bitrate Type			Constant	▼
Video Quality			Medium	▼
Frame Rate			25	▼ fps
Max. Bitrate			8192	Kbps
Video Encoding			H.264	▼
H.264+			OFF	▼
Profile			Main Profile	▼
I Frame Interval			50	
SVC			OFF	▼
Smoothing			 50	[Clear<->Smooth]



Select Configuration->Video/Audio->Sub-stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG

Video	Audio	ROI	Display Info. on Stream	Target Cropping
Stream Type	Sub-stream			
Video Type	Video Stream			
Resolution	704*576			
Bitrate Type	Variable			
Video Quality	Medium			
Frame Rate	4			fps
Max. Bitrate	512			Kbps
Video Encoding	MJPEG			
I Frame Interval	50			



Select Configuration->Network->Basic Settings to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

11.2 X500/R500 Set up for HIK DS-2CD4B26FWD-IWZ

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have HIK DS-2CD4B26FWD-IWZ selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/1

JPEG stream 2: Streaming/Channels/2

USER: admin

PASSWORD: Password

12 HIK DS-2CD6510D-IO

12.1 Setting up HIK DS-2CD6510D-IO camera

Connect to camera using browser interface and select Basic Configuration->Video/Audio->Main Stream(Normal) to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1280 x 960
- H.264

Video	Audio	ROI	Display Info. on Stream
Stream Type			Main Stream(Normal) ▼
Video Type			Video Stream ▼
Resolution			1280*960 ▼
Bitrate Type			Constant ▼
Video Quality			Medium ▼
Frame Rate			25 ▼ fps
Max. Bitrate			4096 Kbps
Video Encoding			H.264 ▼
Profile			Main Profile ▼
I Frame Interval			50
SVC			OFF ▼
Smoothing			 50 [Clear<->Smooth]



Select Configuration->Video/Audio->Sub-stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG

Video	Audio	ROI	Display Info. on Stream
Stream Type	Sub Stream ▼		
Video Type	Video Stream ▼		
Resolution	704*576 ▼		
Bitrate Type	Variable ▼		
Video Quality	Medium ▼		
Frame Rate	4 ▼	fps	
Max. Bitrate	256	Kbps	
Video Encoding	MJPEG ▼		
I Frame Interval	1		



Select Configuration->Network->Basic Settings to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

12.2 X500/R500 Set up for HIK DS-2CD6510D-IO

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have HIK DS-2CD6510D-IO selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/101?transportmode=unicast&profile=Profile_1

JPEG stream 2: Streaming/Channels/102?transportmode=unicast&profile=Profile_2

USER: admin

PASSWORD: Password

13 HIK DS-2DE4215IW-DE

13.1 Setting up HIK DS-2DE4215IW-DE camera

Connect to camera using browser interface and select Configuration->Video/Audio->Main Stream(Normal) to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264

Video	ROI	Display Info. on Stream
Stream Type	Main Stream(Normal) ▼	
Video Type	Video Stream ▼	
Resolution	1920*1080P ▼	
Bitrate Type	Constant ▼	
Video Quality	Medium ▼	
Frame Rate	25 ▼	fps
Max. Bitrate	8192	Kbps
Video Encoding	H.264 ▼	
H.264+	OFF ▼	
Profile	Main Profile ▼	
I Frame Interval	50	
SVC	OFF ▼	
Smoothing	<input type="range" value="50"/> 50 [Clear<->Smooth]	

Select Configuration->Video/Audio->Sub-stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG

Video	ROI	Display Info. on Stream
Stream Type	<input type="text" value="Sub-stream"/>	
Video Type	<input type="text" value="Video Stream"/>	
Resolution	<input type="text" value="704*576"/>	
Bitrate Type	<input type="text" value="Constant"/>	
Video Quality	<input type="text" value="Medium"/>	
Frame Rate	<input type="text" value="4"/>	fps
Max. Bitrate	<input type="text" value="1024"/>	Kbps
Video Encoding	<input type="text" value="MJPEG"/>	
I Frame Interval	<input type="text" value="25"/>	



Select Configuration->Network->Basic Settings to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

13.2 X500/R500 Set up for HIK DS-2DE4215IW-DE

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have HIK DS-2DE4215IW-DE selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/1

JPEG stream 2: Streaming/Channels/2

USER: admin

PASSWORD: Password

14 KNC HDi47

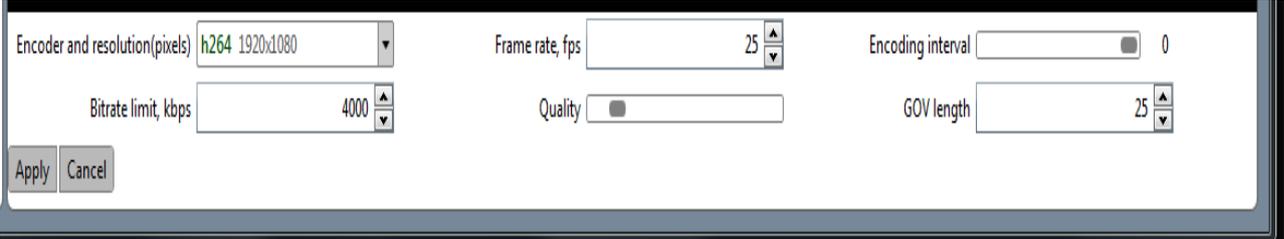
14.1 Setting up KNC HDi47 camera

Connect to camera using ONVIF Manager.

Select Profile 1 via Profiles menu and then set stream via Video Streaming menu:

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264



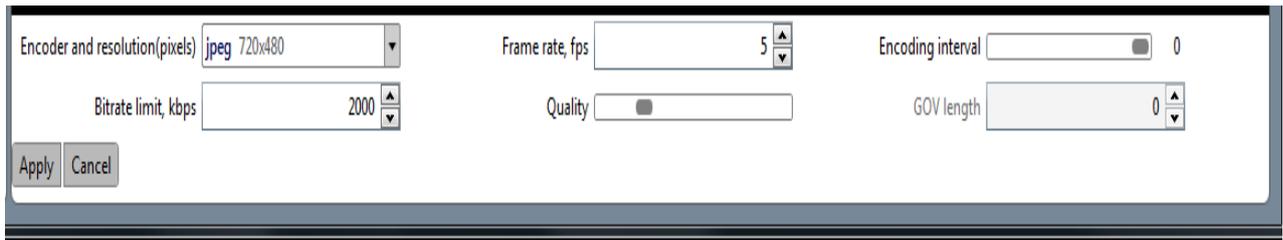
Encoder and resolution(pixels)	h264 1920x1080	Frame rate, fps	25	Encoding interval	0
Bitrate limit, kbps	4000	Quality		GOV length	25

Apply Cancel

Select Profile 2 via Profiles menu and then set stream via Video Streaming menu:

Secondary Stream (Live View):

- 5 fps
- 720 x 480
- MJPEG



Select Network Settings to get to the IP address menu

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0.

14.2 X500/R500 Set up for KNC HDi47

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have KNC HDi47 selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: stream0

JPEG stream 2: stream1

USER: admin

PASSWORD: admin

15 KNC LDDi45

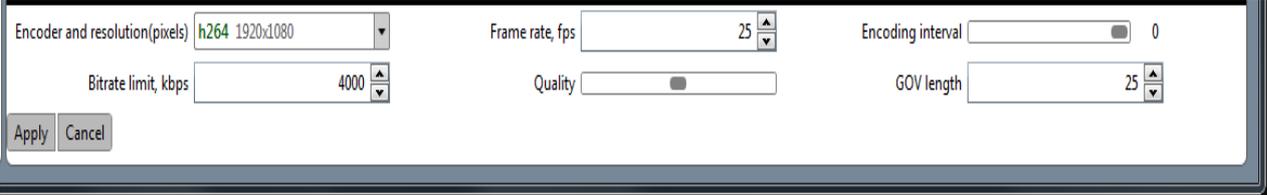
15.1 Setting up KNC LDDi45 camera

Connect to camera using ONVIF Manager.

Select Video Streaming menu for 0:H264:

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264



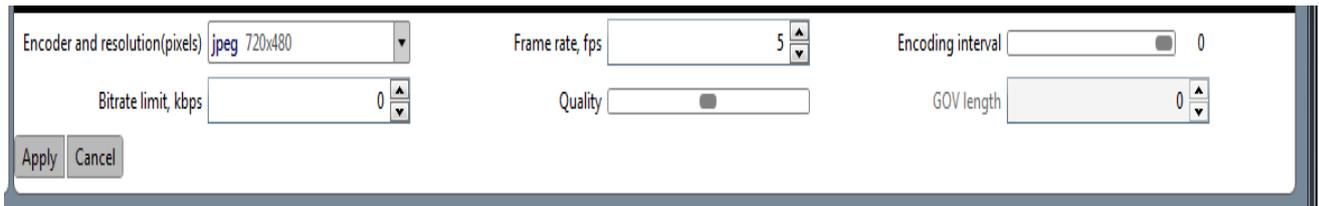
Encoder and resolution(pixels)	h264 1920x1080	Frame rate, fps	25	Encoding interval	0
Bitrate limit, kbps	4000	Quality	25	GOV length	25

Apply Cancel

Select Video Streaming menu for 1:MJPEG:

Secondary Stream (Live View):

- 5 fps
- 720 x 480
- MJPEG



The screenshot shows a configuration panel for video streaming. It includes the following fields and controls:

- Encoder and resolution(pixels):** A dropdown menu set to "jpeg 720x480".
- Frame rate, fps:** A numeric input field set to "5".
- Encoding interval:** A numeric input field set to "0".
- Bitrate limit, kbps:** A numeric input field set to "0".
- Quality:** A slider control.
- GOV length:** A numeric input field set to "0".
- Buttons:** "Apply" and "Cancel" buttons are located at the bottom left.

Select Network Settings to get to the IP address menu

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0.

15.2 X500/R500 Set up for KNC LDDi45

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have KNC LDDi45 selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: h264

JPEG stream 2: mjpeg

USER: admin

PASSWORD: admin

16 Milesight MS-C2973-PB

16.1 Setting up Milesight MS-C2973-PB camera

Connect to camera using browser interface and select Basic Settings->Video->Primary Stream to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264

Video Codec:	<input type="text" value="H.264"/>
Frame Size:	<input type="text" value="1080P(1920*1080)"/>
Maximum Frame Rate:	<input type="text" value="25"/> fps
Bit Rate:	<input type="text" value="4096"/> kbps
Bit Rate Control:	<input type="text" value="CBR"/>
Profile:	<input type="text" value="Main"/>
I-frame Interval:	<input type="text" value="25"/> frame(1-120)

Save

Select Basic Settings->Video->Secondary Stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 576
- MJPEG

Enable:	<input checked="" type="checkbox"/>
Video Codec:	MJPEG ▼
Frame Size:	704*576 ▼
Maximum Frame Rate:	4 ▼ fps
Bit Rate:	1024 ▼ kbps
Bit Rate Control:	CBR ▼
JPEG Quality:	Medium ▼
I-frame Interval:	50 frame(1-120)

[Save](#)

Select Basic Settings->Network to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

16.2 X500/R500 Set up for Milesight MS-C2973-PB

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Milesight MS-C2973-PB selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: main

JPEG stream 2: sub

USER: admin

PASSWORD: Password

17 Synectics SY-FDEF3

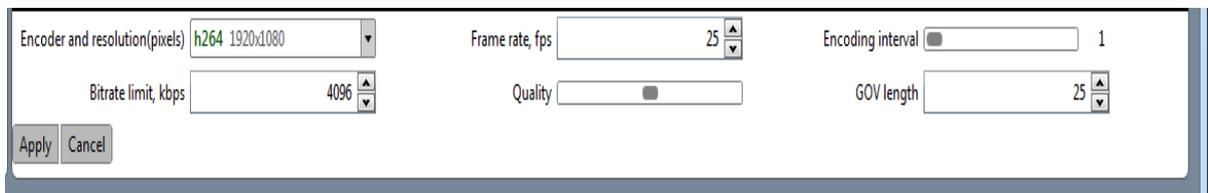
17.1 Setting up Synectics SY-FDEF3 camera

Connect to camera using ONVIF Manager.

Select Profile <Profile 1> via Profiles menu and then set stream via Video Streaming menu:

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264



The screenshot shows the configuration interface for the primary stream. It includes the following settings:

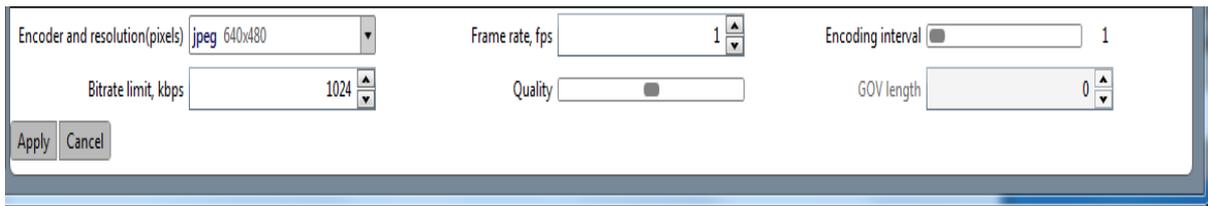
Encoder and resolution(pixels)	h264 1920x1080	Frame rate, fps	25	Encoding interval	1
Bitrate limit, kbps	4096	Quality	<input type="checkbox"/>	GOV length	25

Buttons: Apply, Cancel

Select Profile <Profile 2> via Profiles menu and then set stream via Video Streaming menu:

Secondary Stream (Live View):

- 1 fps
- 640 x 480
- MJPEG



Encoder and resolution(pixels) jpeg 640x480

Frame rate, fps 1

Encoding interval 1

Bitrate limit, kbps 1024

Quality 0

GOV length 0

Apply Cancel

Select Network- Settings to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

17.2 X500/R500 Set up for Synectics SY-FDEF3

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Synectics SY-FDEF3 selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: h264

JPEG stream 2: jpeg

USER: admin

PASSWORD: admin

18 Synectics S-VRMDF4-2MP

18.1 Setting up Synectics S-VRMDF4-2MP camera

Connect to camera using browser interface and select Streaming->Video Format->Video Resolution to get to the following menu.

H.264 + MJPEG

Primary Stream (Recorded Stream)

H.264 Format: 1920 x 1080

Secondary Stream (Live View)

MJPEG format: 720 x 576

Video Format

Video Resolution :

H.264 + MJPEG ▼

H.264 format : 1920 x 1080 (13 fps) ▼

MJPEG format : 720 x 576 (25 fps) ▼

BNC support : N/A

Save

Note :

Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.

Video Rotate Type :

180 degree rotate ▼

Save

GOV Settings :

H.264-1 GOV Length : 25 H.264-2 GOV Length : 25

H.264-3 GOV Length : 25 H.264-4 GOV Length : 25

Save

H.264 Profile :

H.264-1 : Main profile ▼ H.264-2 : Main profile ▼

H.264-3 : Main profile ▼ H.264-4 : Main profile ▼

Save

Select Streaming->Video Frame Rate to get to the following menu.

MJPEG Frame Rate: 4

H264-1 Frame Rate: 13

Video Frame Rate

MJPEG Frame Rate Setting:

MJPEG frame rate :

H264-1 Frame Rate Setting:

H264-1 frame rate :

H264-2 Frame Rate Setting:

H264-2 frame rate :

H264-3 Frame Rate Setting:

H264-3 frame rate :

H264-4 Frame Rate Setting:

H264-4 frame rate :

Select System->Network->Basic to get to the IP address menu

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0.

18.2 X500/R500 Set up for Synectics S-VRMDF4-2MP

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Synectics S-VRMDF4-2MP selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: h264

JPEG stream 2: jpeg

USER: admin

PASSWORD: admin

19 Trendnet TV-IP311PI

19.1 Setting up Trendnet TV-IP311PI camera

Connect to camera using browser interface and select Advanced->Video Format->Main Stream to get to the following menu.

Primary stream (Recorded stream):

- 25 fps
- 1920 x 1080
- H.264

Video Format

Stream Type :	<input type="text" value="Main Stream(Normal)"/>
Video Encoding :	<input type="text" value="H.264"/>
Resolution :	<input type="text" value="1920*1080P"/>
Bitrate Type :	<input type="text" value="Constant"/>
Video Quality :	<input type="text" value="Medium"/>
Frame Rate :	<input type="text" value="25"/> frames per second
Max. Bitrate :	<input type="text" value="4096"/> Kbps
I Frame Interval :	<input type="text" value="50"/>

Select Advanced->Video Format->Sub Stream to get to the following menu.

Secondary Stream (Live View):

- 4 fps
- 704 x 480
- MJPEG

Video Format

Stream Type :	Sub Stream ▼
Video Encoding :	MJPEG ▼
Resolution :	704*480 ▼
Bitrate Type :	Constant ▼
Video Quality :	Medium ▼
Frame Rate :	4 ▼ frames per second
Max. Bitrate :	384 Kbps
I Frame Interval :	60

Select Advanced->Network->TCP/IP to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

19.2 X500/R500 Set up for Trendnet TV-IP311PI

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Trendnet TV-IP311PI selected and then apply.

This should set the X500/R500 as follows:

H264 stream 1: Streaming/Channels/1?transportmode=unicast&profile=Profile_1

JPEG stream 2: Streaming/Channels/2?transportmode=unicast&profile=Profile_2

USER: admin

PASSWORD: admin

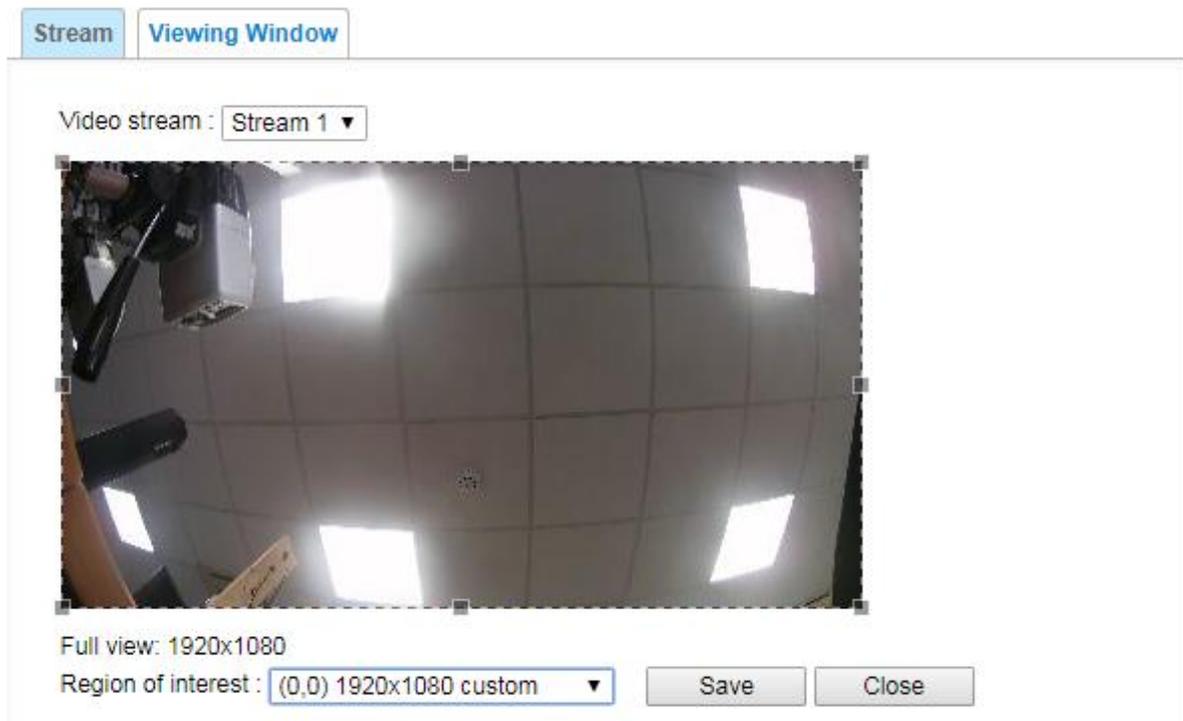
20 Vivotek MD8562

20.1 Setting up Vivotek MD8562 camera

Connect to camera using browser interface and select Configuration->Media->Video->Stream 1 to get to the following menu.

Primary stream (Recorded stream):

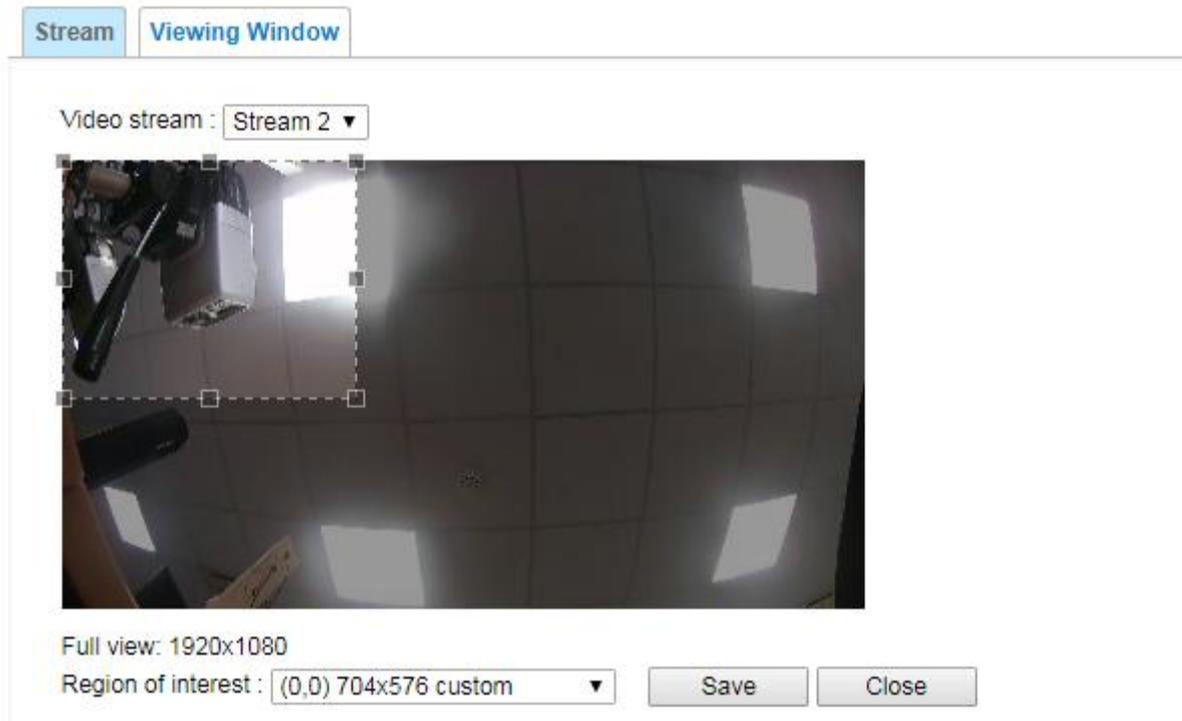
- 1920 x 1080



Select Configuration->Media->Video->Stream 2 to get to the following menu.

Secondary Stream (Live View):

- 704 x 576



Select Configuration->Network->General Settings->Network Type to get to the IP address menu.

Set the IP address. Timespace recommends this is set to one of the default IP addresses which range from 192.168.10.200 – 203, or to your chosen IP address.

NB each camera will need a unique address in the same subnet.

Set Subnet mask to 255.255.255.0

20.2 X500/R500 Set up for Vivotek MD8562

- On the DVR, set IP address of camera in MAIN MENU > IP CAMERAS

Note this has to be on the same subnet as VLAN2

- Set selected type to have Vivotek MD8562 and then apply.

This should set the X500/R500 as follows:

H264 stream 1: live.sdp

JPEG stream 2: live2.sdp

USER: root

PASSWORD: root

end of document