

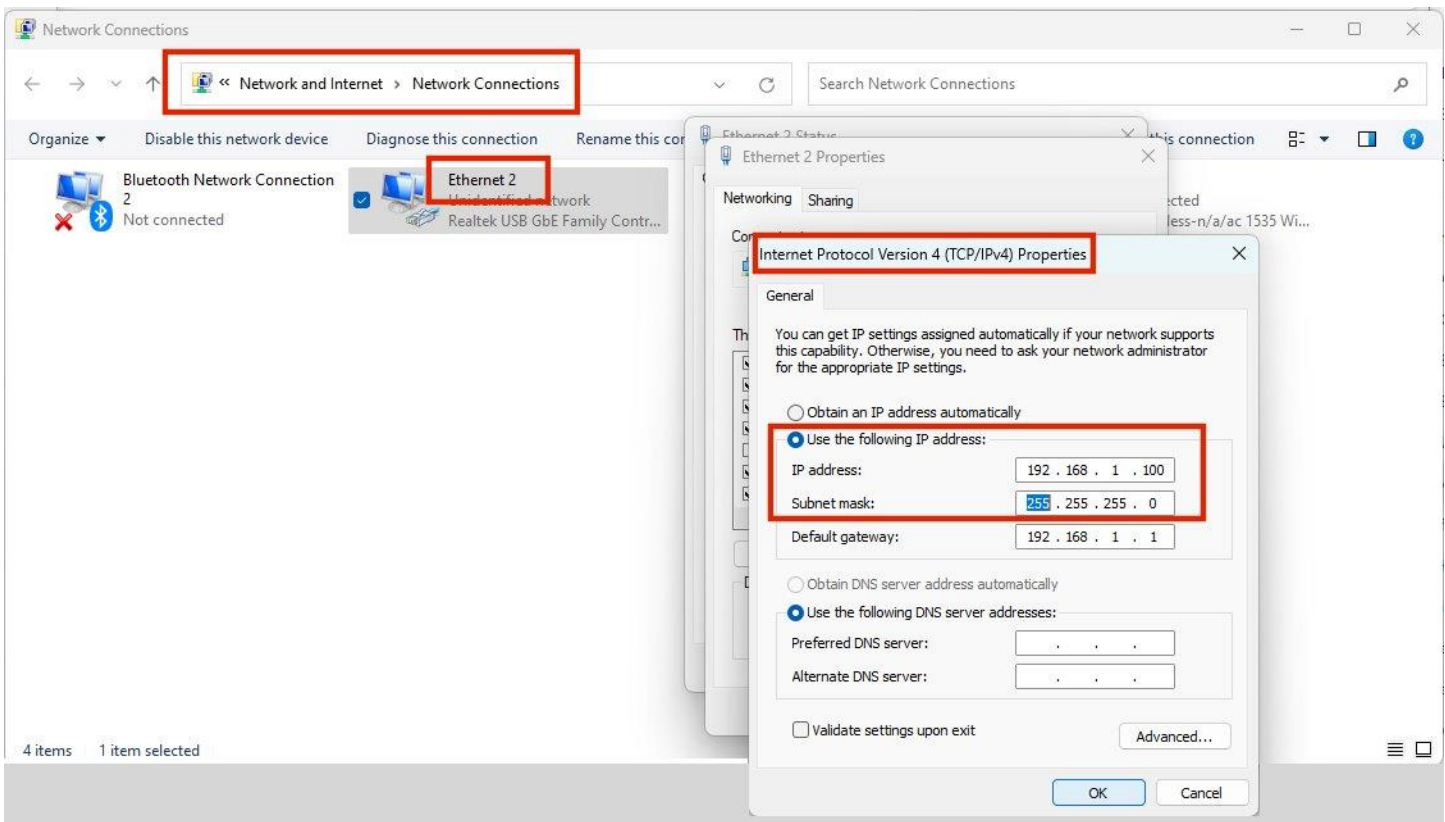
Infinium Encoders

Quick setup

Configure the Infinium to stream

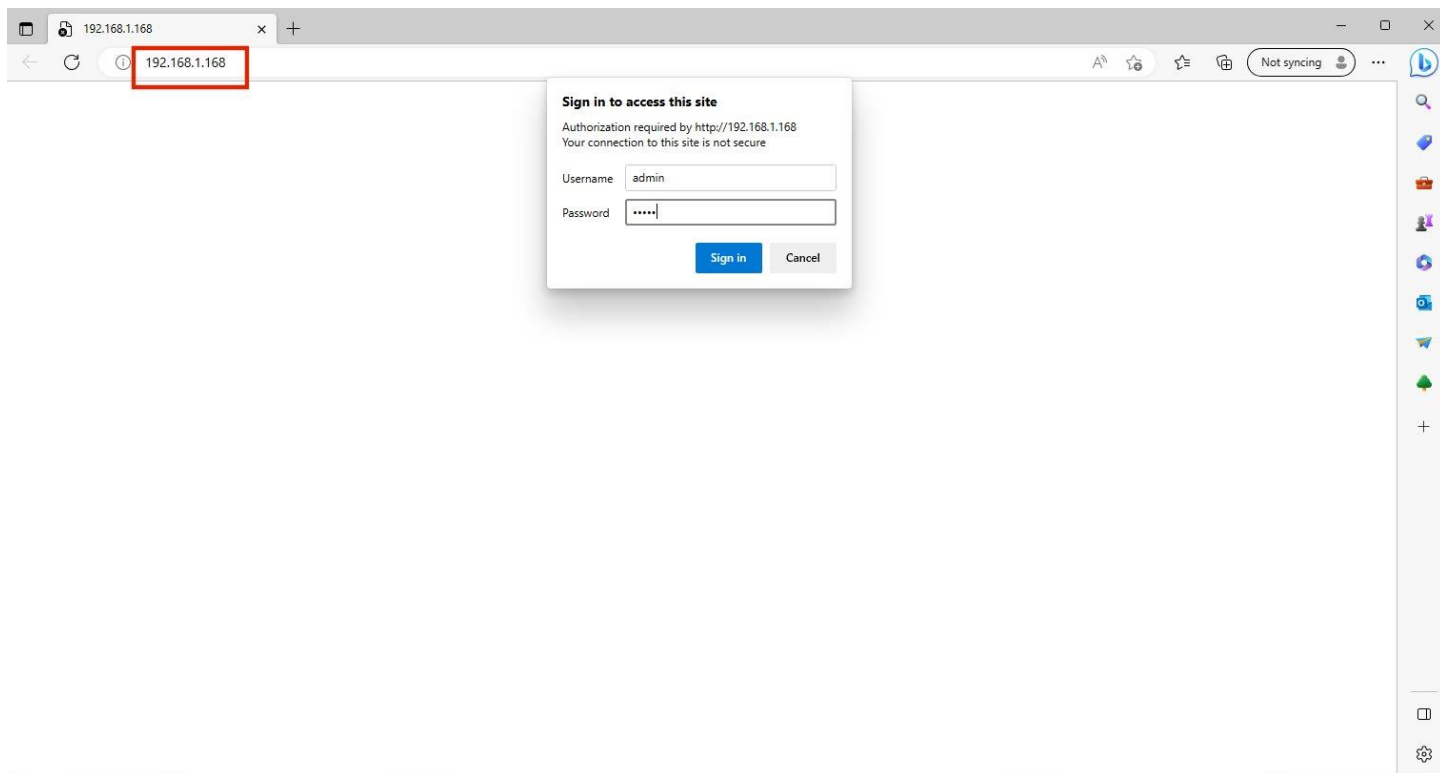
The Infinium encoders needs to be set to the final IP_ADDRESS and the final MULTICAST IP ADDRESS

- 1) Configure your computer to a static IP address 192.168.1.100



- 2) Connect your computer ethernet to the first Infinium encoder ethernet port
- 3) Open your computer browser and enter in the link bar 192.168.1.168
- 4) If all is configured as expected, the WEB INTERFACE of the encoder module should display
IF NOT, please check your computer settings for a static ip address as above.
IF THE INFINIUM MODULE IS NOT NEW, the ip address might have been changed, so it is necessary to reset the module to factory by holding the micro reset button (mini hole) on the encoder card panel for 30 seconds. This way the IP address will go back to 192.168.1.168 default and you will need to set the module again from scratch to your ip addresses and other settings.

5) Login to the encoder web interface with user name “admin” and password “admin”

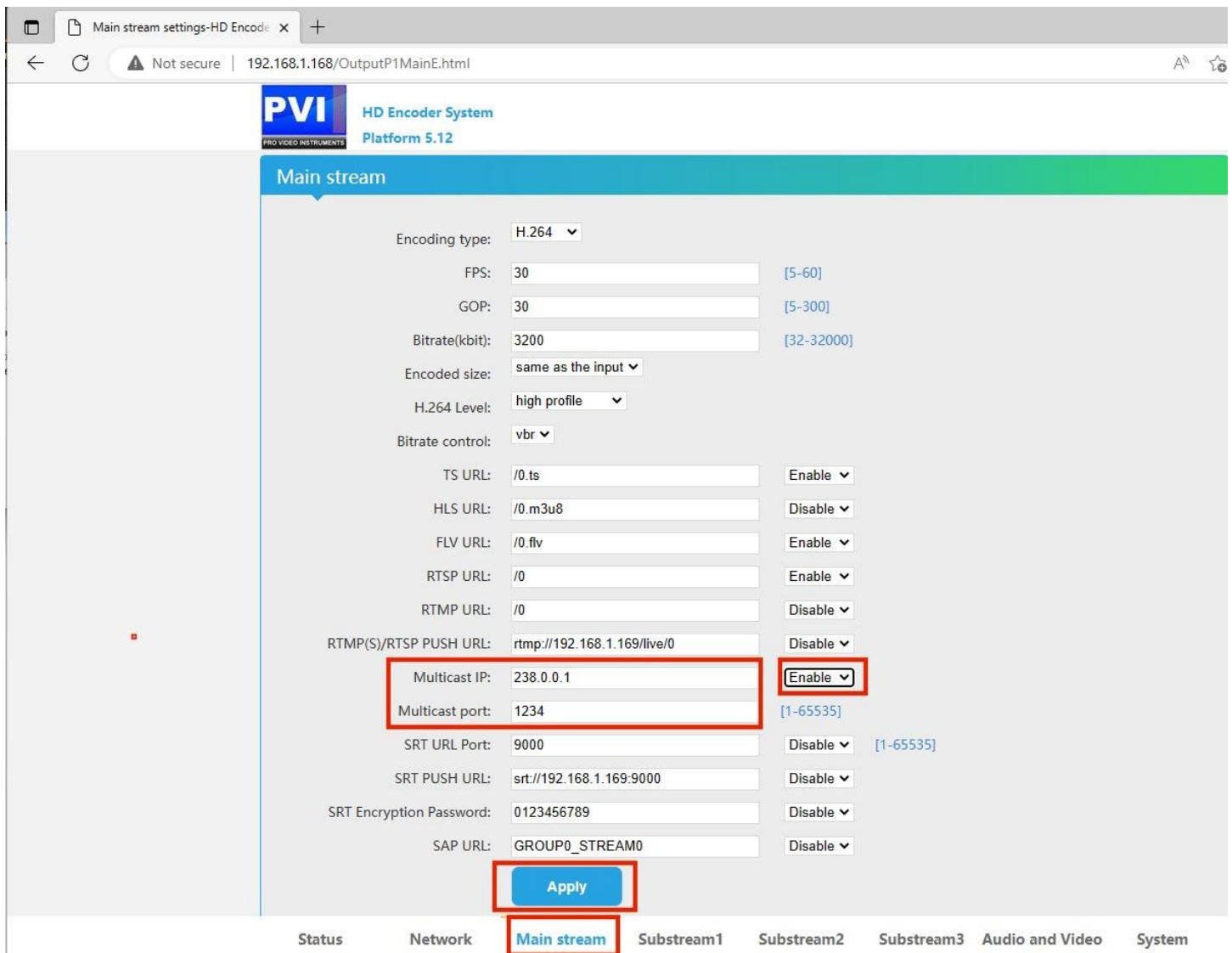


- 6) On the encoder go to the MAIN STREAM and set the MULTICAST IP ADDRESS to use for this channel. In our example we use 238.0.0.1 and port 1234

Please **MAKE SURE NOT TO USE THE SAME ADDRESS ON EACH ENCODER OR THEY WILL CONFLICT !!!**

As example use 238.0.0.1 on the first encoder, then 238.0.0.2 on the second, then 238.0.0.3 on the third encoder card, and so on. There is no need to change the port which can be 1234 for all encoders.

Remember to **ENABLE** the multicast via the drop down selector on the right of the multicast line, and to **APPLY** to save on the bottom of the page.



PVI HD Encoder System Platform 5.12

Main stream

Encoding type: H.264 ▼

FPS: 30 [5-60]

GOP: 30 [5-300]

Bitrate(kbit): 3200 [32-32000]

Encoded size: same as the input ▼

H.264 Level: high profile ▼

Bitrate control: vbr ▼

TS URL: /0.ts Enable ▼

HLS URL: /0.m3u8 Disable ▼

FLV URL: /0.flv Enable ▼

RTSP URL: /0 Enable ▼

RTMP URL: /0 Disable ▼

RTMP(S)/RTSP PUSH URL: rtmp://192.168.1.169/live/0 Disable ▼

Multicast IP: 238.0.0.1 Enable ▼

Multicast port: 1234 [1-65535]

SRT URL Port: 9000 Disable ▼ [1-65535]

SRT PUSH URL: srt://192.168.1.169:9000 Disable ▼

SRT Encryption Password: 0123456789 Disable ▼

SAP URL: GROUP0_STREAM0 Disable ▼

Apply

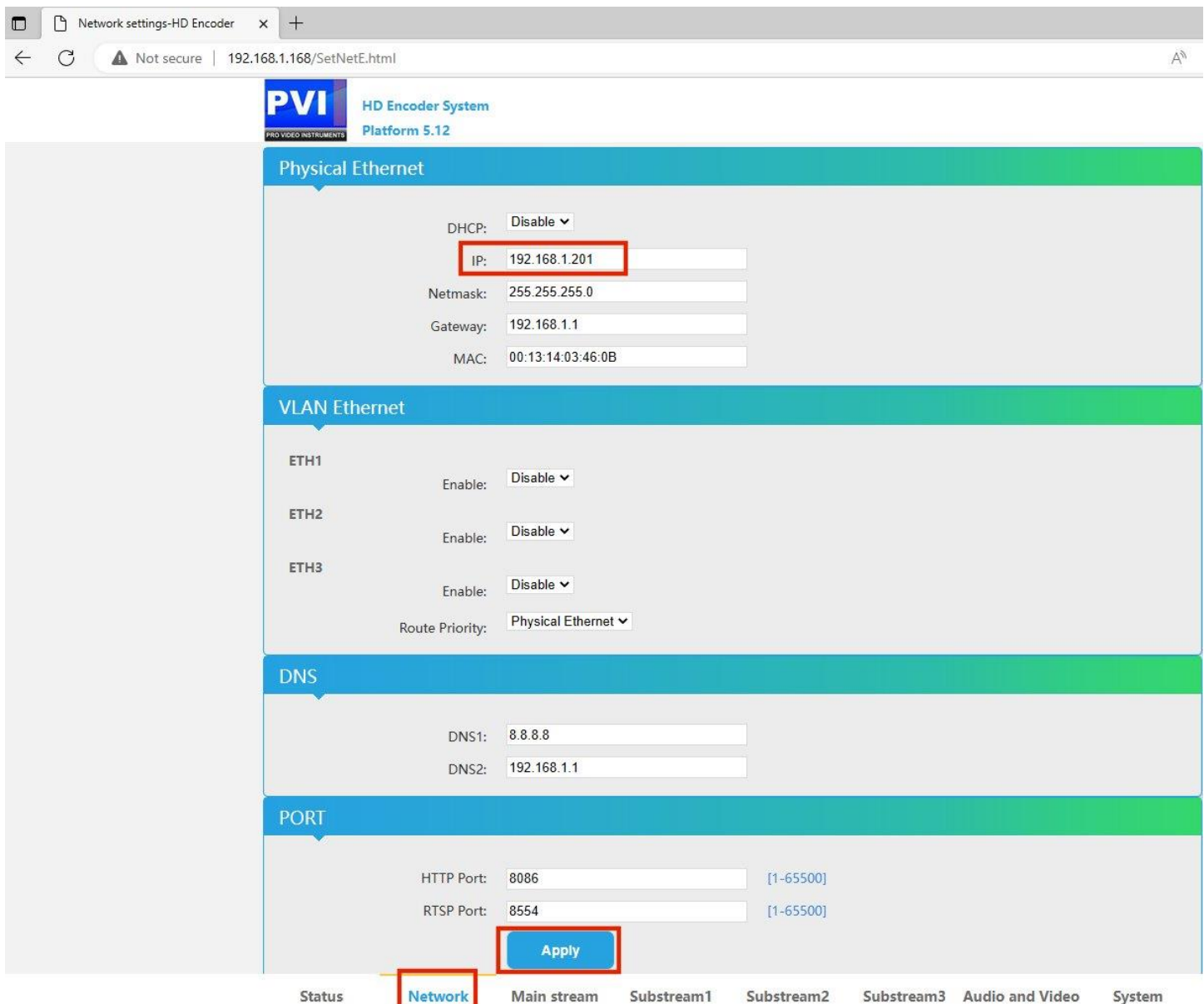
Status Network **Main stream** Substream1 Substream2 Substream3 Audio and Video System

- 7) On the ENCODER NETWORK TAB make sure to change the web interface IP ADDRESS so each **encoder has a DIFFERENT IP and will not conflict**

As example you can use 192.168.1.201 on the first encoder, then 192.168.1.202 on the second encoder, 192.168.1.203 on the third and so on..

Click APPLY on the bottom of the page to save.

Remember the ip address you set per each module or you won't be able to access the web interfaces after you apply



Network settings-HD Encoder x +

Not secure | 192.168.1.168/SetNetE.html

PVI HD Encoder System
Platform 5.12

Physical Ethernet

DHCP: Disable ▾

IP: 192.168.1.201

Netmask: 255.255.255.0

Gateway: 192.168.1.1

MAC: 00:13:14:03:46:0B

VLAN Ethernet

ETH1 Enable: Disable ▾

ETH2 Enable: Disable ▾

ETH3 Enable: Disable ▾

Route Priority: Physical Ethernet ▾

DNS

DNS1: 8.8.8.8

DNS2: 192.168.1.1

PORT

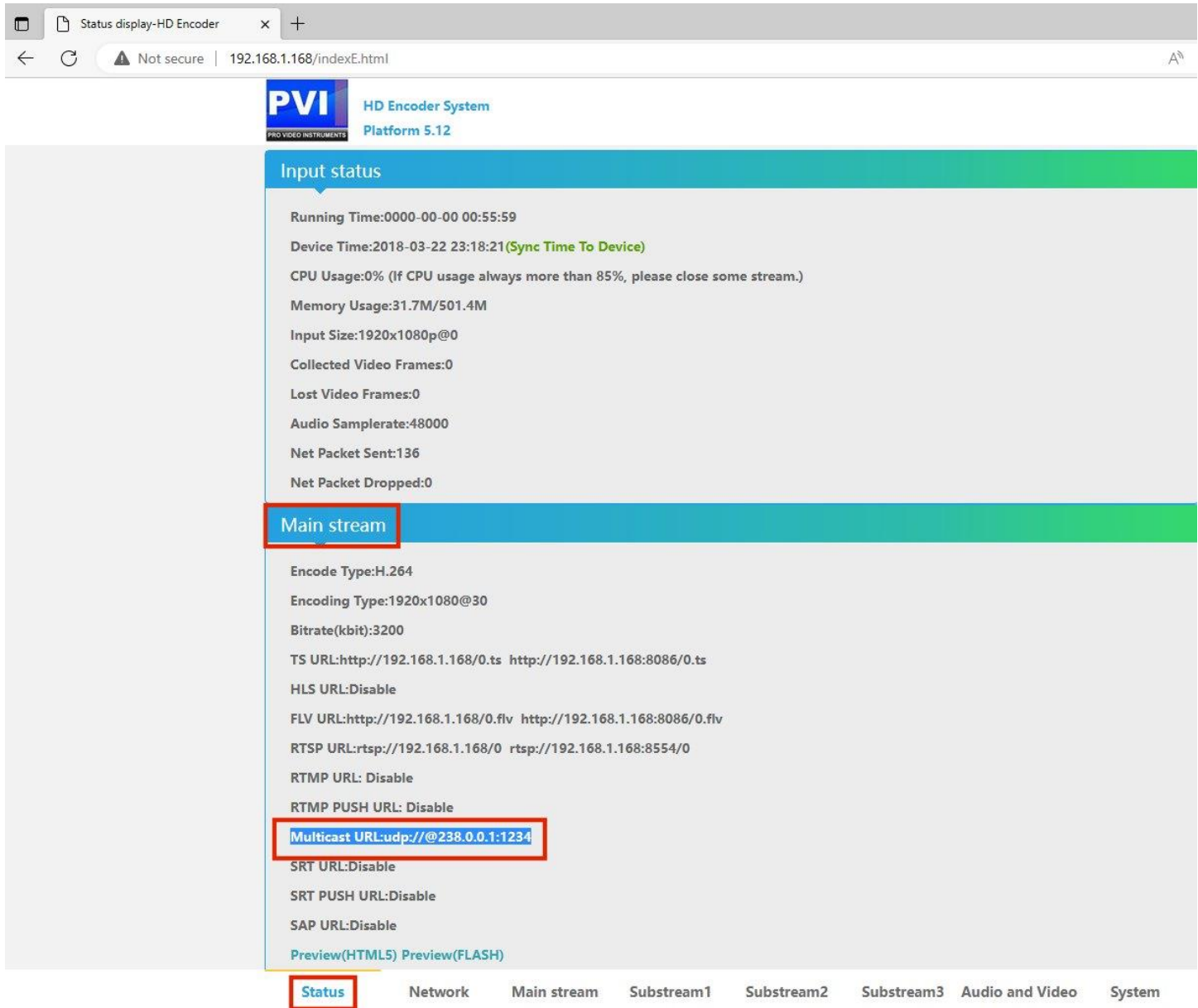
HTTP Port: 8086 [1-65500]

RTSP Port: 8554 [1-65500]

Apply

Status **Network** Main stream Substream1 Substream2 Substream3 Audio and Video System

- 8) On the STATUS PAGE of the encoder you can check if the MULTICAST of this encoder card has been properly configured and see the multicast address it is streaming on



The screenshot displays the PVI HD Encoder System status page. The browser address bar shows the URL 192.168.1.168/indexE.html. The page header includes the PVI logo and 'HD Encoder System Platform 5.12'. The main content area is divided into two sections: 'Input status' and 'Main stream'. The 'Input status' section lists various system metrics such as Running Time, Device Time, CPU Usage, Memory Usage, Input Size, Collected Video Frames, Lost Video Frames, Audio Samplerate, Net Packet Sent, and Net Packet Dropped. The 'Main stream' section lists streaming details including Encode Type, Encoding Type, Bitrate, TS URL, HLS URL, FLV URL, RTSP URL, RTMP URL, RTMP PUSH URL, Multicast URL, SRT URL, SRT PUSH URL, SAP URL, and Preview options. The 'Multicast URL' is highlighted with a red box, showing 'udp://@238.0.0.1:1234'. The 'Status' tab is also highlighted with a red box.

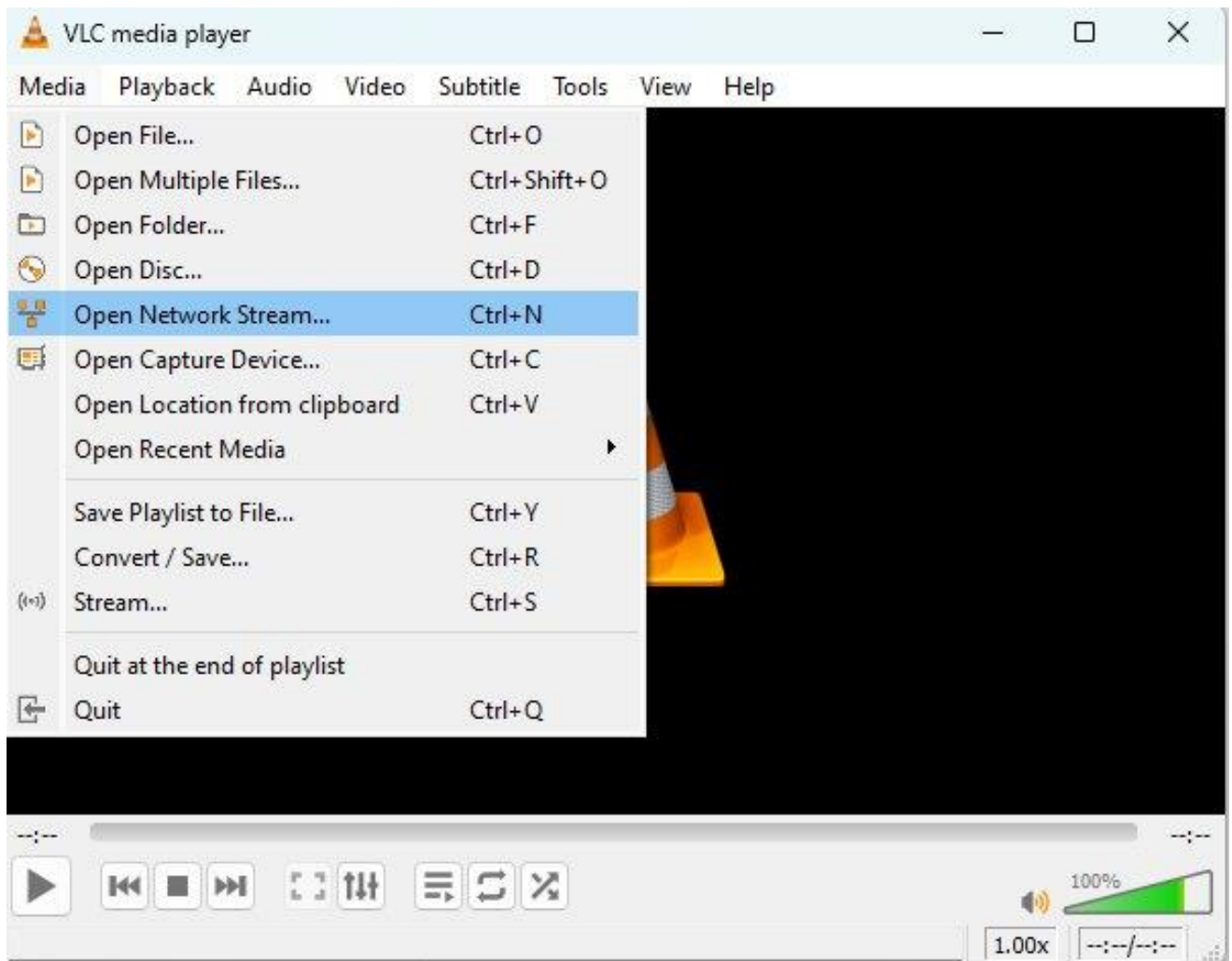
- 9) Repeat steps 1 through 7 per each encoder card of your system
- 10) Connect the Encoders to a NETWORK SWITCH. If the encoders are streaming their own TEST PATTERN each related LED on the switch will start flashing continuously indicating there is streaming coming from that encoder card.

- 11) Connect your Computer to the switch and Use VLC VIDEOLAN software to test / play each stream to verify all is working. In this example we test the stream from the first encoder 238.0.0.1 port 1234

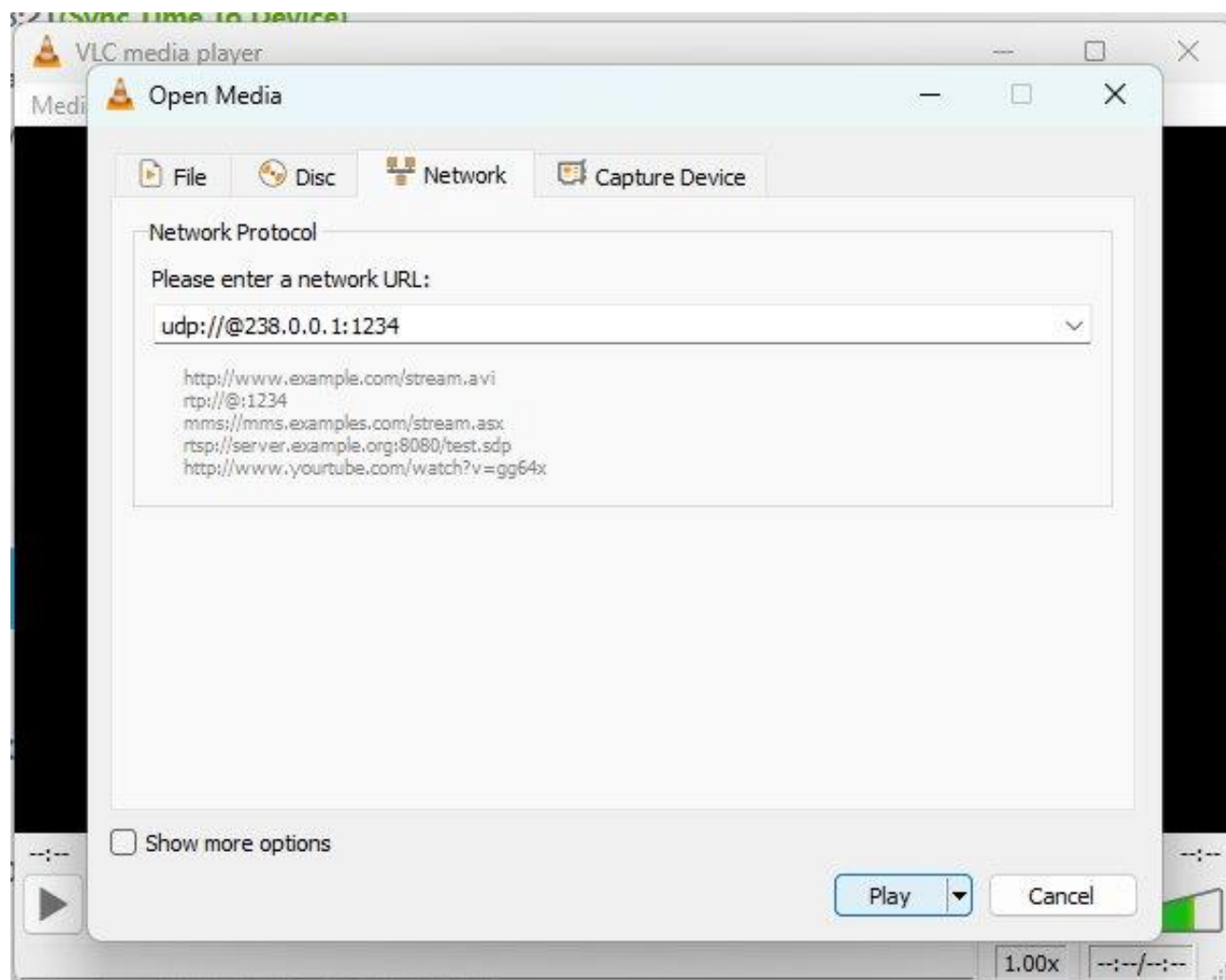
we can take the test link from the STATUS PAGE of the encoder as per step #8 above.

udp://@238.0.0.1:1234

- 12) On VLC software click FILE > OPEN NETWORK STREAM



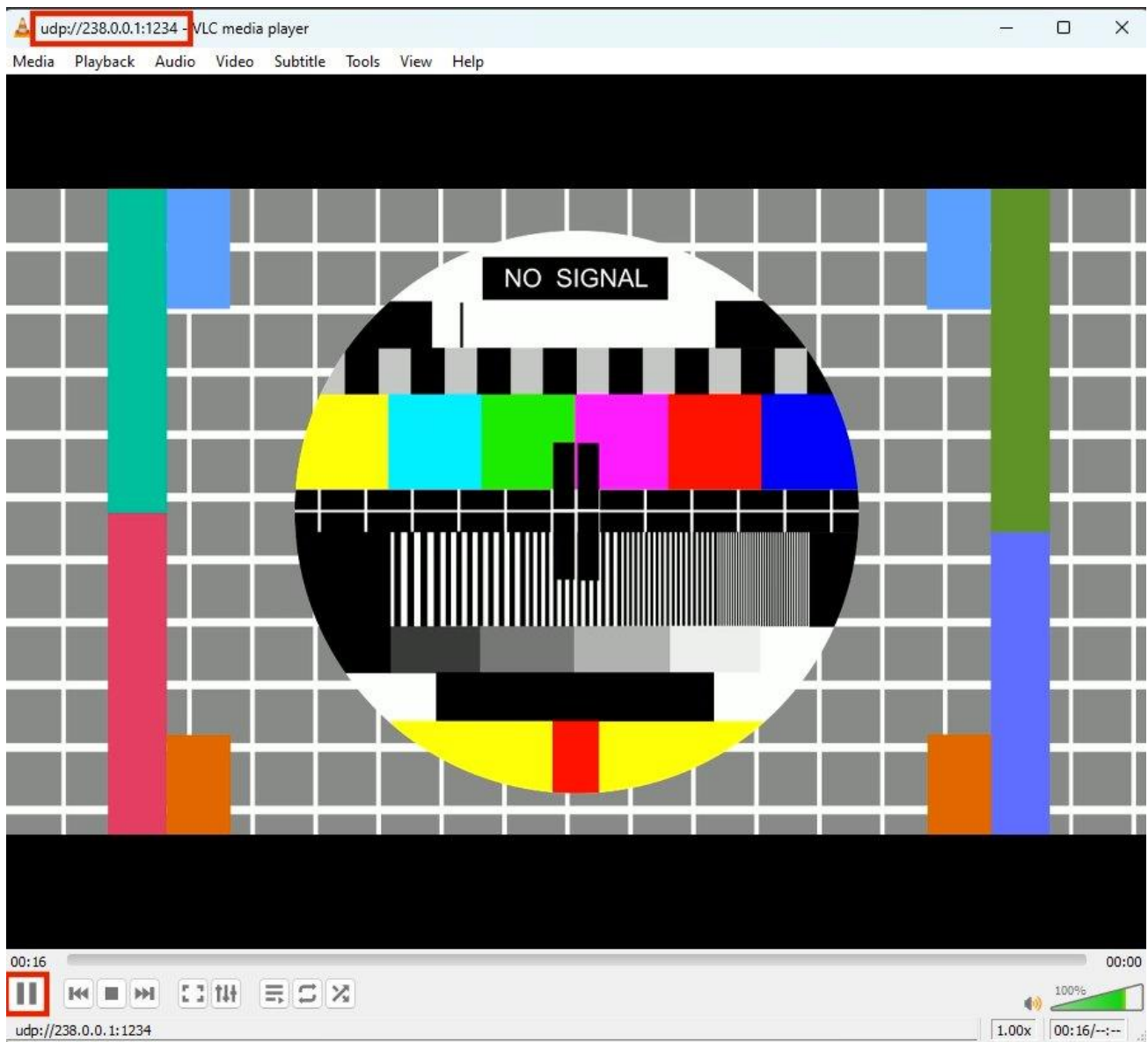
13) Enter the UDP multicast address `udp://@238.0.0.1:1234`



14) Hit PLAY

VLC will start playing the stream coming from this encoder.

Repeat the same test for all encoder using the proper multicast ip address UDP://@238.0.0.2:1234 then UDP://@238.0.0.3:1234 then UDP://@238.0.0.4:1234 and so on, so you can test each encoder IS streaming



For any other setting on the encoders, please follow the MAIN instruction manual.