

AVerMedia F239+ User Manual

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Disclaimer and Copyright

Disclaimer

All the screenshots in this documentation are only example images. The images may vary depending on the product and software version. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

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Pictures shown may vary from actual product.

Important Safety Instructions

- Keep these instructions
- Pay attention to all warnings
- Follow all instructions
- Do not use this apparatus near water
- Clean only with dry cloth
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third rounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus
- Only use the attachments/accessories specified by the manufacturer
- Unplug this apparatus during lightning storms or when unused for long periods of time
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped

WARNING

To prevent fire or shock hazard do not expose the unit to rain or moisture. Dangerously high voltages are present inside the unit. Do not open the unit. Refer servicing to qualified personnel only.

AVerCaster Manager

Installation of AVerCaster Manager

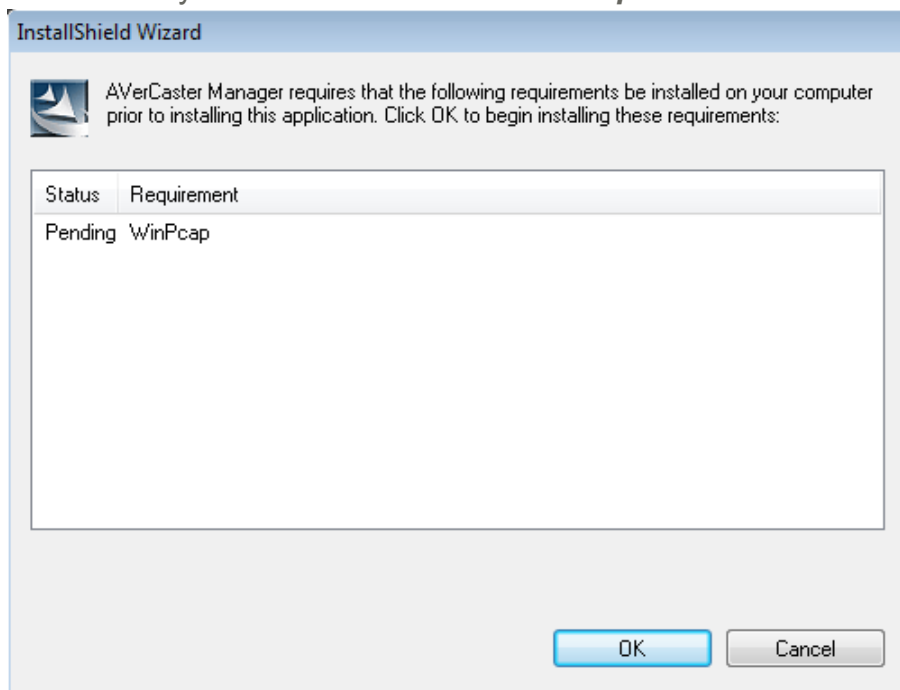
F239+ by default assigns IP addresses using DHCP. If no DHCP server is available, F239+ will fall back to auto IP, which randomly assigns IP address from the range 169.254.0.0–169.254.255.255, as specified in RFC 3927.

For easier management, assigning fixed IP address to F239+ is a good practice.

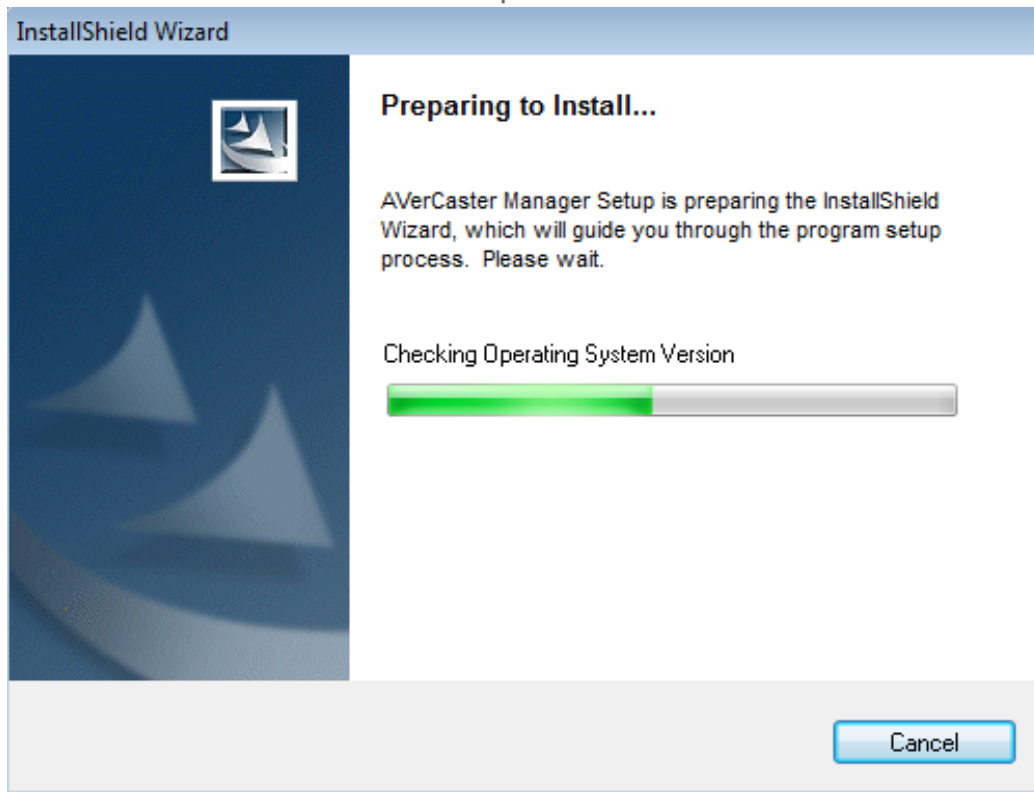
Either way, AVerCaster manager is the application you need to discover the IP address of F239+ in your local area network. Please note that AVerCaster manager cannot locate F239+ across network segments between which no multicast traffic is routed. Locating our products across Internet is not supported.

You can contact our support email: Video.Solutions@avermedia.com, to receive a copy of AVerCaster Manager. Download and double-click the installer to start installation.

AVerCaster Manager requires **WinPcap** package to run. If prompted, just click “OK” to automatically download and install **WinPcap**.

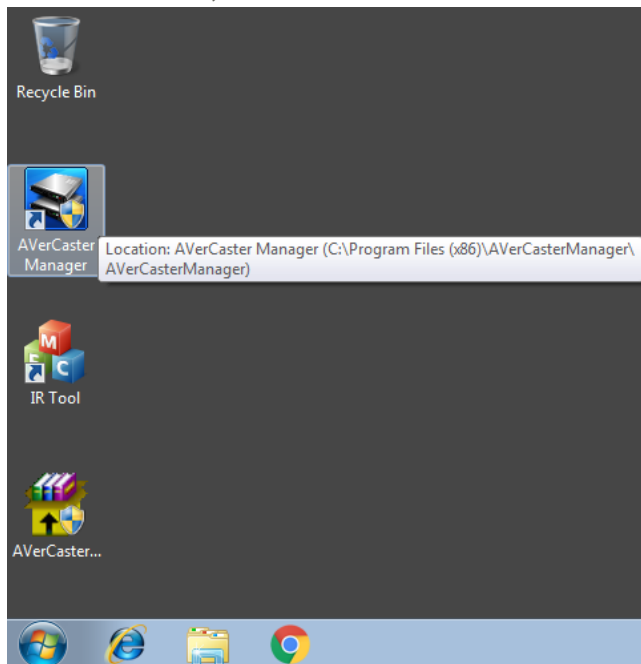


After **WinPcap** is installed, the wizard will continue on the installation of AVerCaster Manager. Follow onscreen instruction to complete the installation.

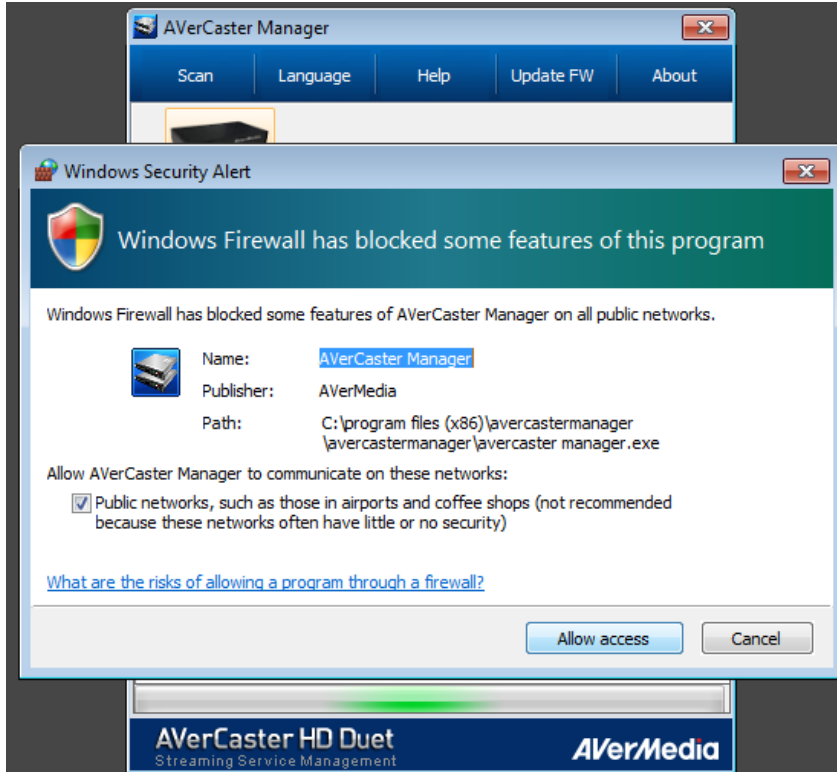


Launch AVerCaster Manager

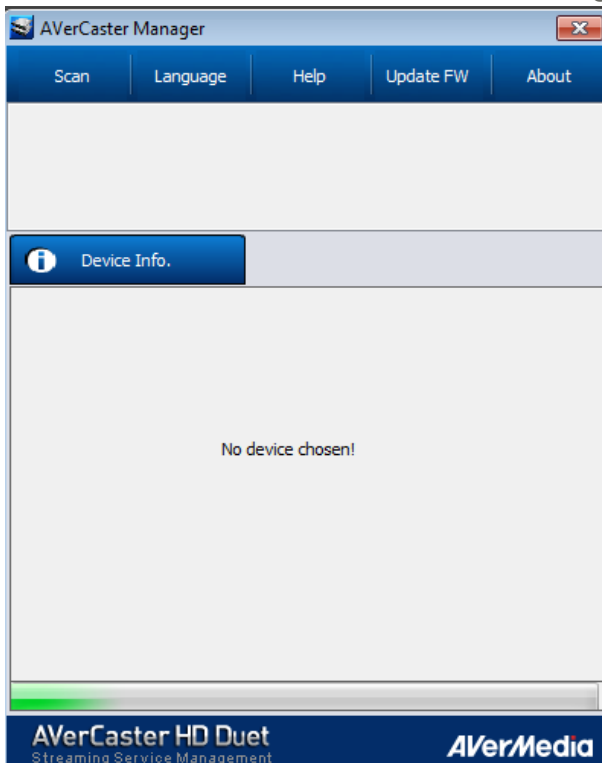
Once installed, click on the icon on the desktop to launch AVerCaster Manager:



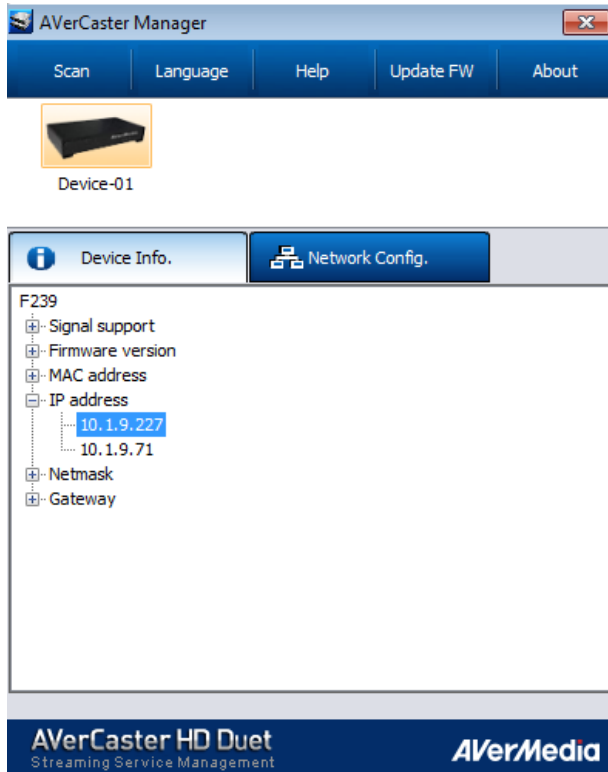
If presented with a “Windows Firewall has blocked....” Dialogue, please click on “Allow access” so AVerCaster Manager can deploy multicast technology to discover the F239+ in the local area network.



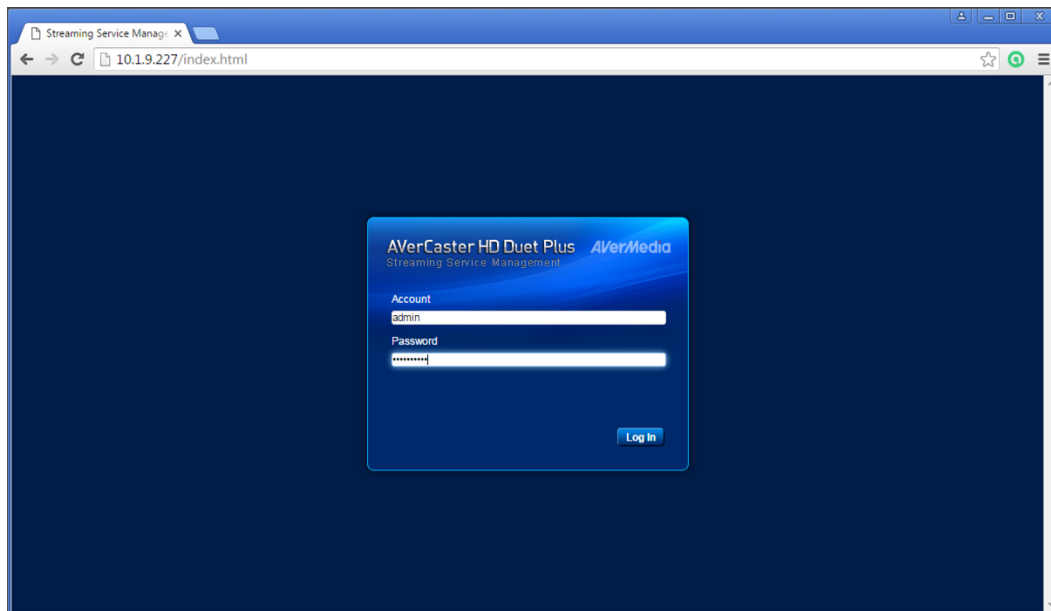
Wait a few seconds for AVerCaster Manager to search for our products.



When finished, the products found will be listed with information and settings for your reference.



Click on one of the IP address will open the web management interface of F239+ in your default browser.



For the first installation, login with the default account “admin” and password “avercaster”. For F239+ firmware starting with v1.11 or released since 2016, the default account and password are “admin” and “admin”.

Firmware update

AVerCaster Manager can be used to update F239+'s firmware.

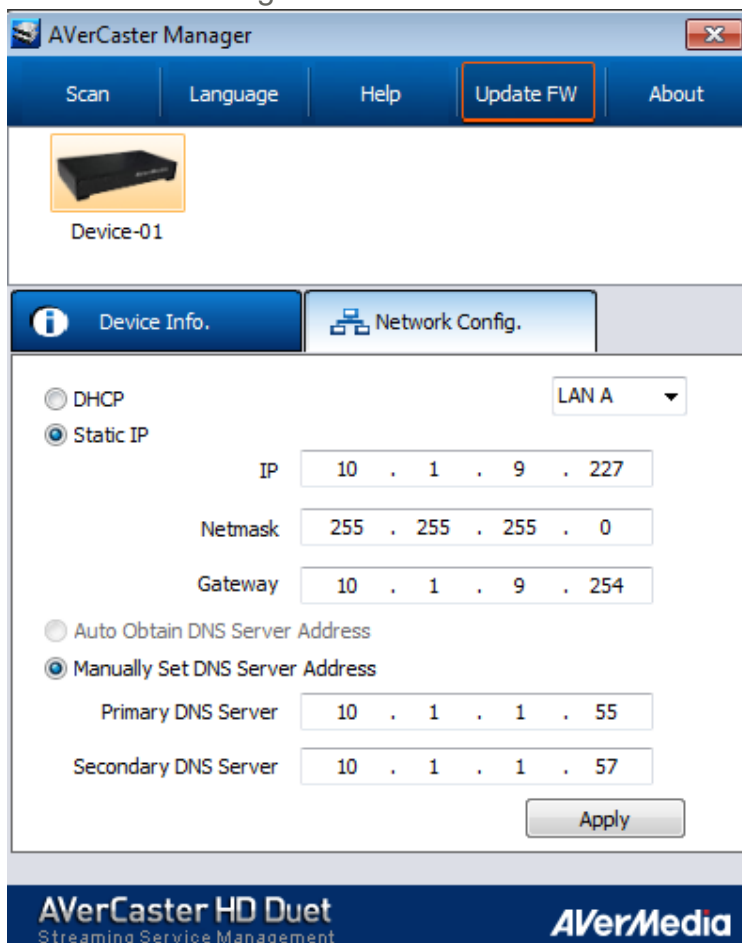
Please contact Video.Solutions@avermedia.com or visit product page

http://www.avermedia.com/professional/product/f239_plus/overview for the download link of new firmware.

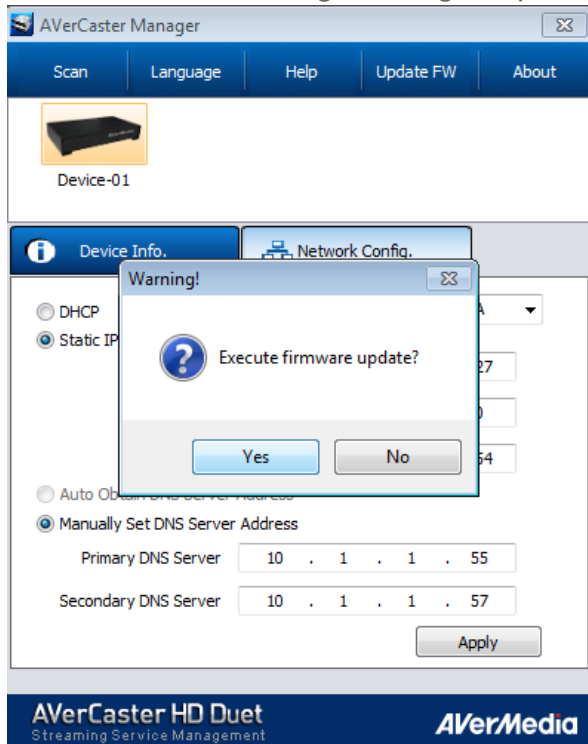
Also note the following implications:

1. Firmware update is supported from lower version numbers to higher version numbers.
Rollback to previous firmware is not supported.
2. After a firmware update, all settings (including account and password) and streaming tasks might be erased and reverted back to factory default.

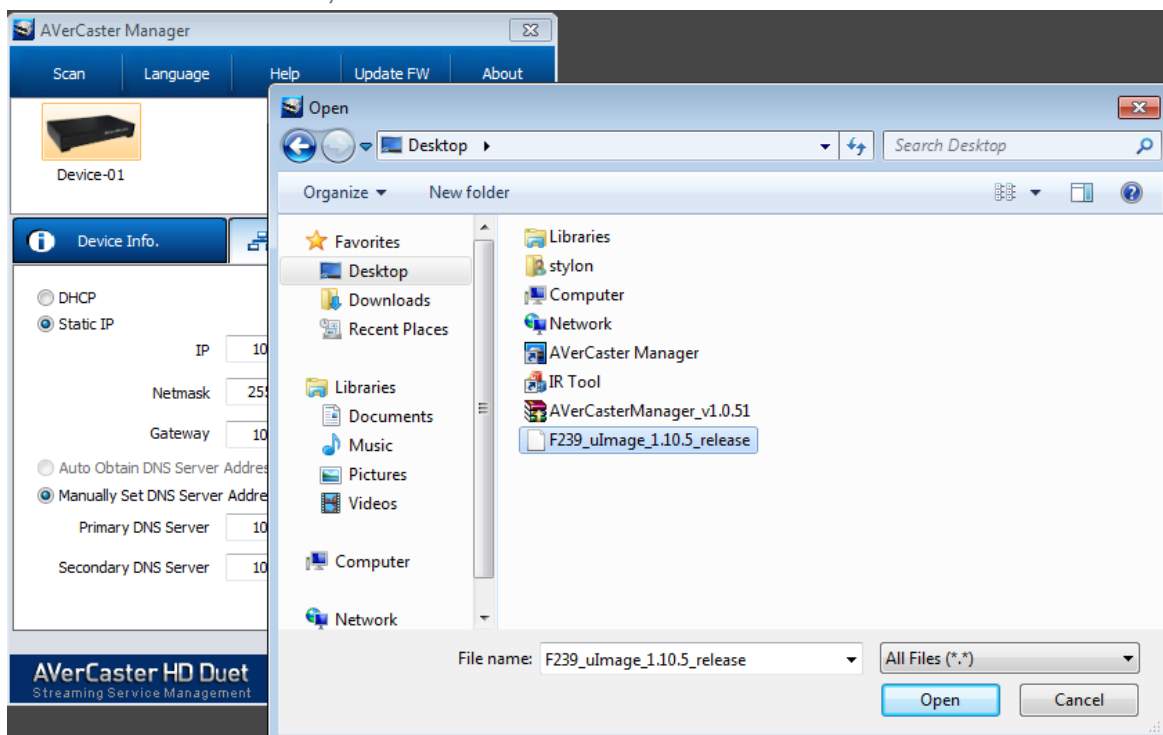
Select an F239+ for which you would like its firmware updated, and click “Update FW” in AVerCaster Manager.



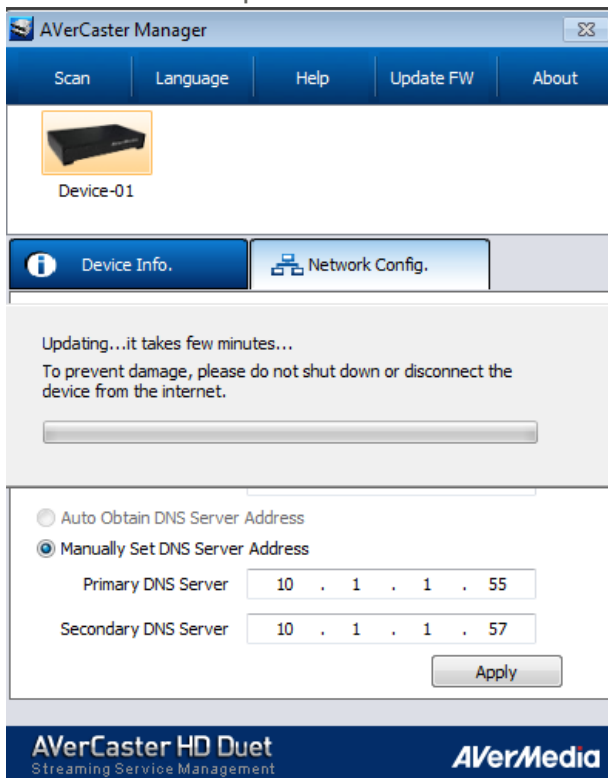
Confirm on the warning message to proceed.



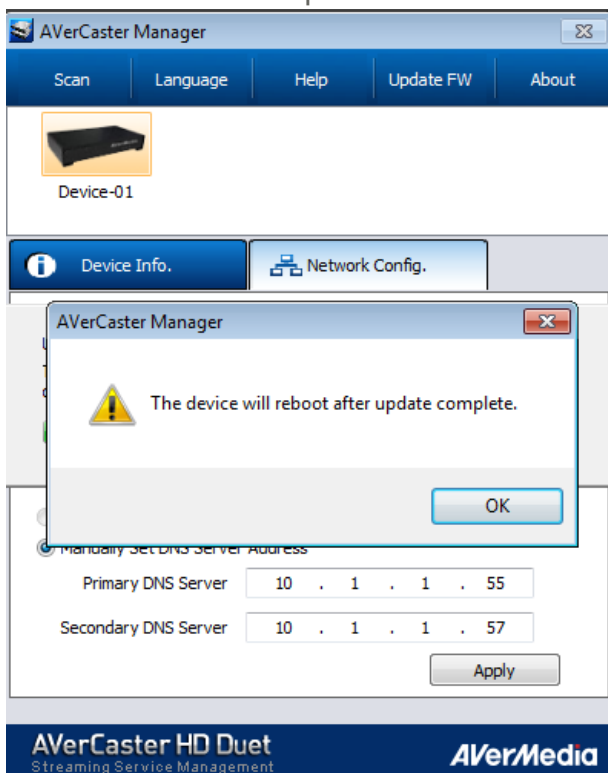
Select the firmware file,



Wait for several minutes for the update to finish. Do not turn off the power or remove network cables until the update is finished.



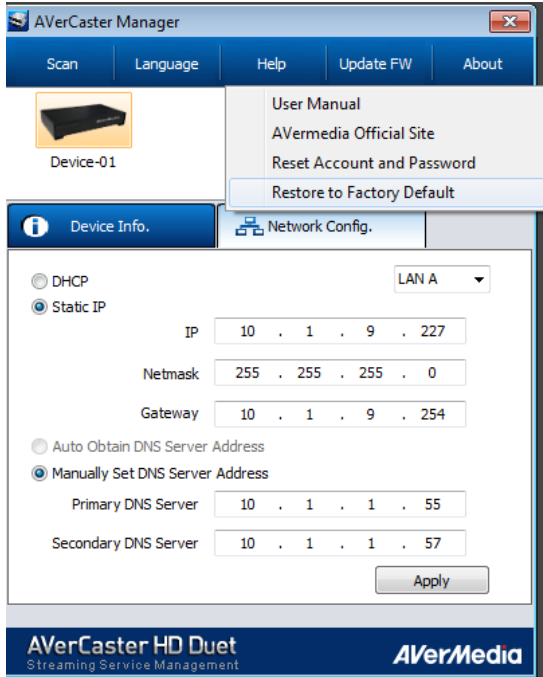
After update is finished, you will be prompted that F239+ will need a reboot. Click “OK” and wait for it to come back into operation in several minutes.



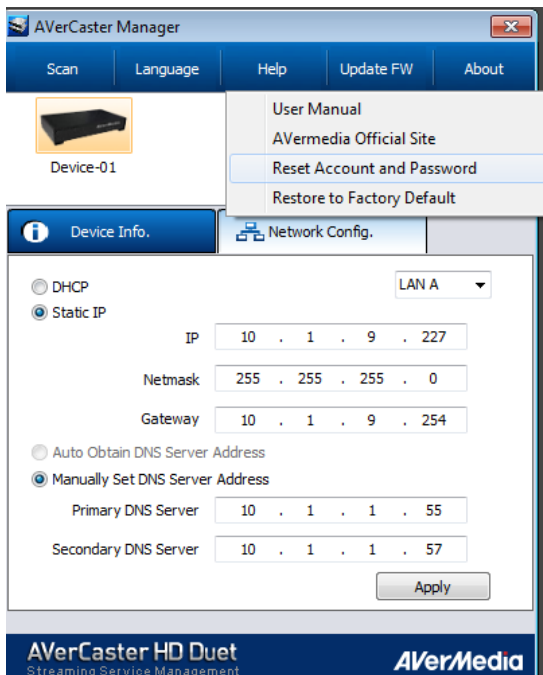
Restore settings to default

There are likely two occasions in which you will need to reset F239+ to its default settings.

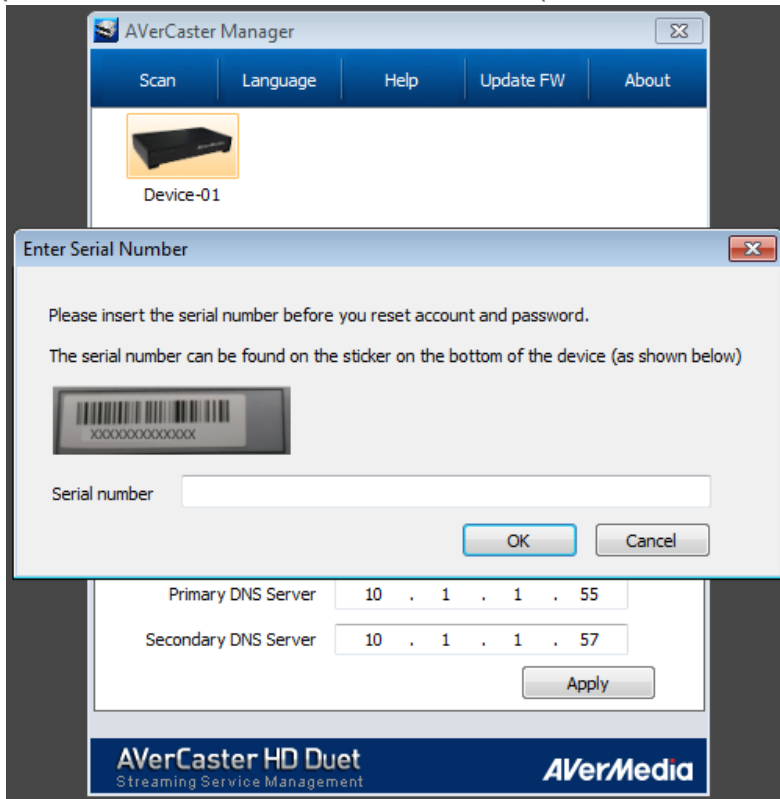
The first of which is when you need to wipe out the settings and streaming tasks. Click on the “Restore to Factory Default” button in AVerCaster Manager. When prompted, enter your account and password to confirm this operation.



The second is when you forgot the account or password. Click on the “Reset Account and Password” button in AVerCaster Manager.



Locate the serial number at the bottom of the F239+ to confirm this operation. The account and password will be reset to the defaults (“admin” and “avercaster”).



Management Web Page

After logging in to the management web page, you will see four tabs at the top of screen: Broadcast List, Configuration, Encoding Profile, and Administration.

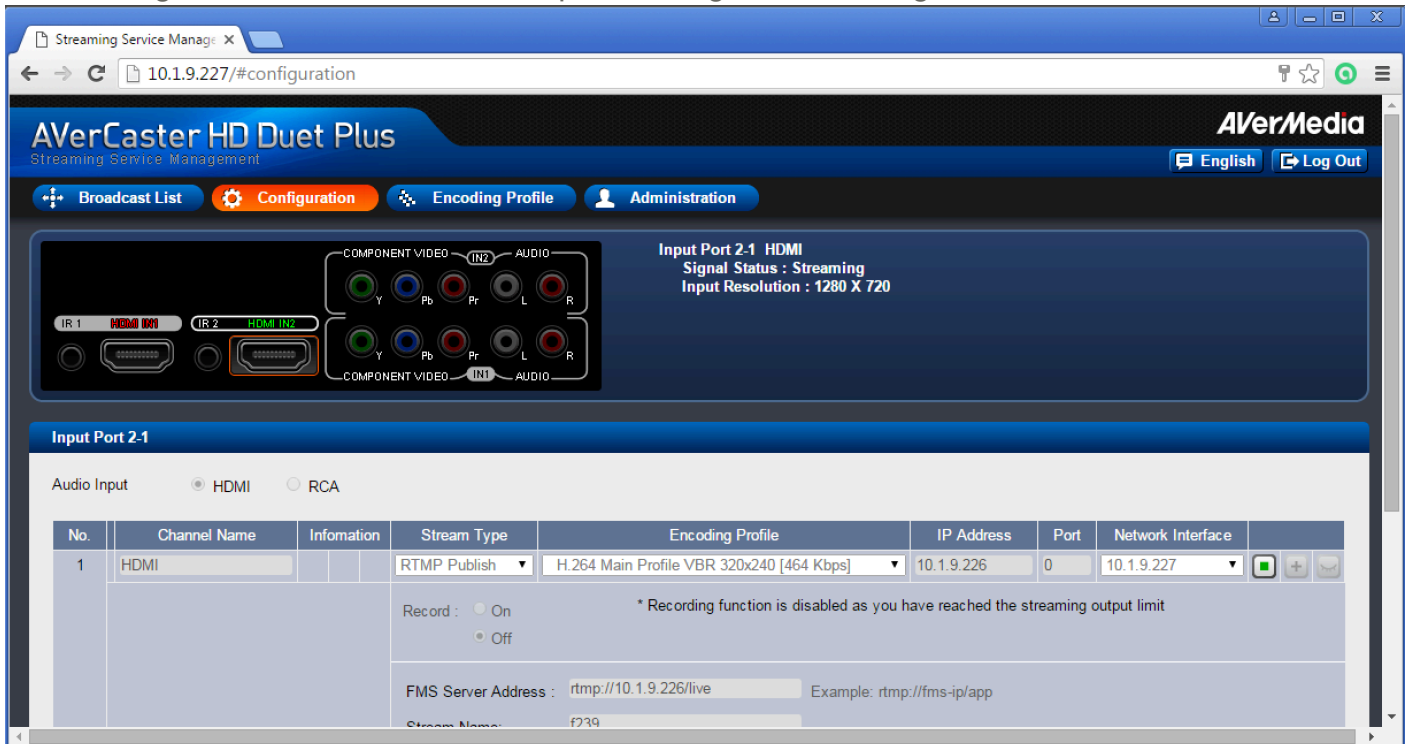
The “Broadcast list” tab monitors the status of all streaming and recording tasks. This is the place to check if streaming is encountering any issue.

The screenshot displays the AVerCaster HD Duet Plus Streaming Service Management web interface. The browser address bar shows the URL `10.1.9.227/#broadcastlist`. The page features a navigation bar with four tabs: **Broadcast List** (selected), **Configuration**, **Encoding Profile**, and **Administration**. Below the navigation bar, there is a section for input ports. On the left, a diagram shows two HDMI inputs (IR 1 and IR 2) and two sets of component video and audio ports (IN1 and IN2). On the right, the status for **Input Port 2-1 HDMI** is shown as **Signal Status : Streaming** and **Input Resolution : 1280 X 720**. Below this, the **Broadcast List** section contains a table with the following data:

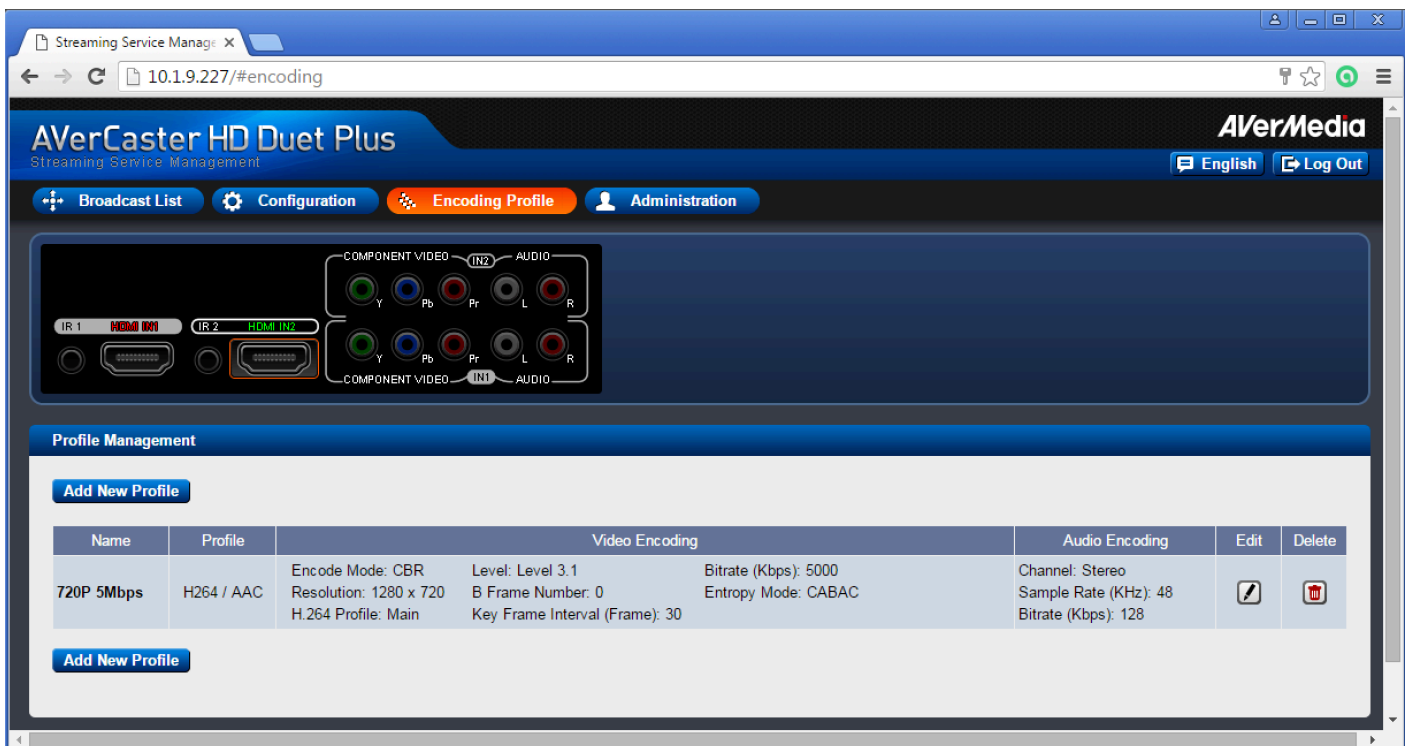
No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	tcp://10.1.9.227:1234 tcp://10.1.9.71:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...
2	HDMI	HDMI 2-1	FMS URL : rtmp://10.1.9.226/live Stream : f239	H.264 Main Profile VBR 320x240 [464 Kbps]	Streaming...

At the bottom of the page, a copyright notice reads: Copyright 1991 - 2016, AVerMedia Technologies Inc. All Rights Reserved.

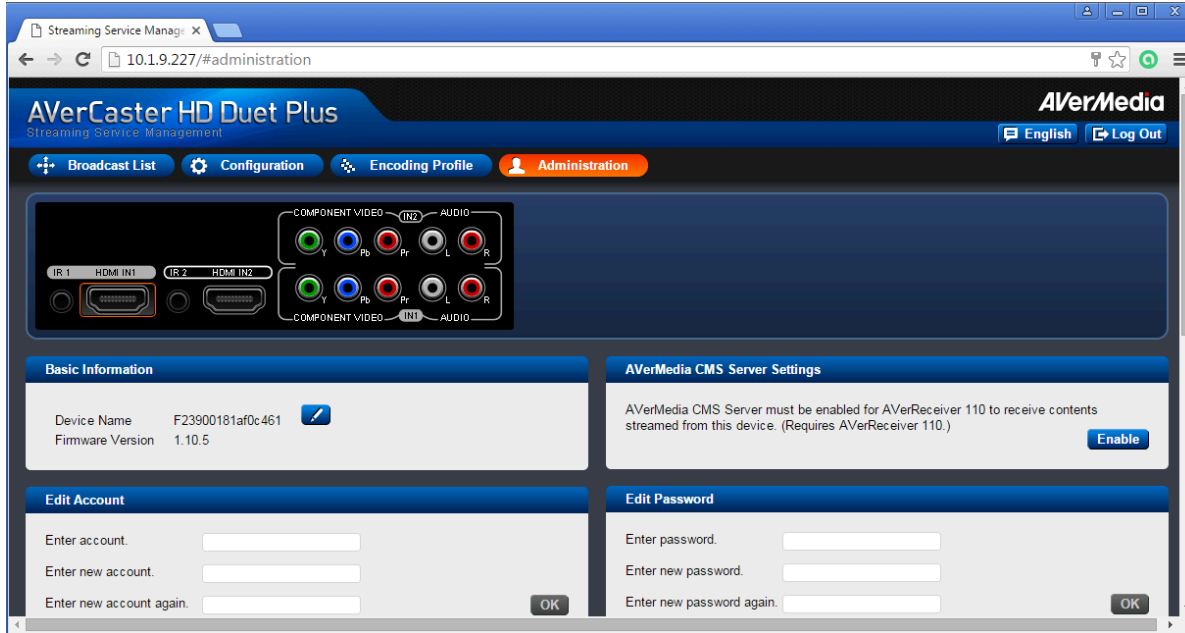
The “Configuration” tab is used to set up streaming and recording tasks.



The “Encoding Profile” tab creates customized encoding profiles to adjust to different quality, bandwidth and storage requirements.

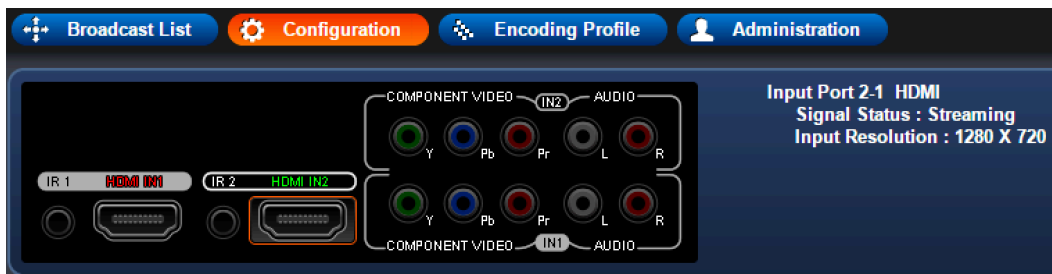


The “Administration” tab is where you change the network settings, identify firmware version, adjust date/time/time zone, change the account and password and perform other administration tasks.



Below the four tabs are the input selection icons, which resembles the connectors in the back of F239+. They give you an intuitive way of selecting video and audio inputs by clicking on the connectors.

This is an example after clicking the “HDMI IN 2”, which corresponds to the 2nd HDMI port which is connected to a 1280x720 video camera.



Here’s another example, after clicking the “HDMI IN 1”, which corresponds to the 1st HDMI port, which is not connected to any video source.



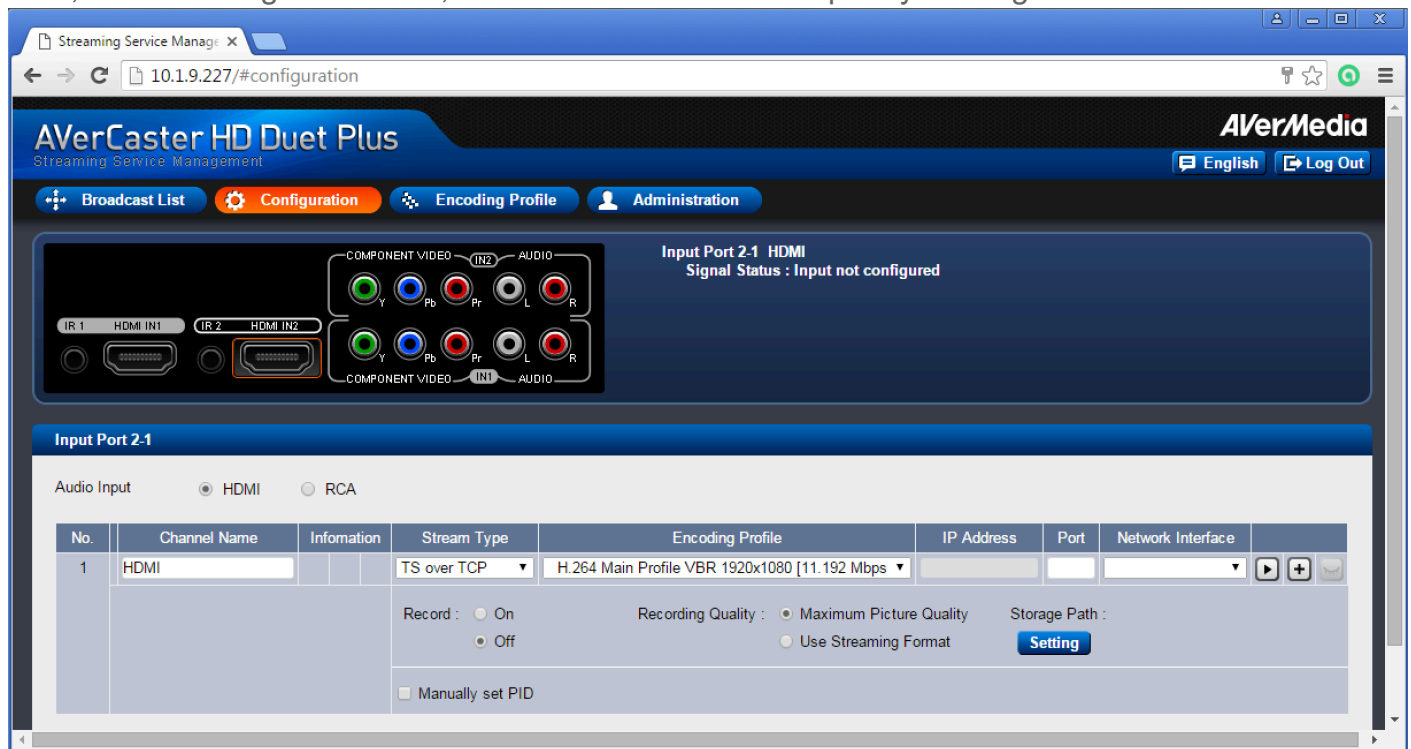
Setting up Streaming

Streaming with UDP Multicast (TS Multicast)

UDP multicast is often used to deliver streaming to hundreds or thousands of players/clients in a local area network. The major benefit is that your network bandwidth will not be consumed or exhausted as the number of player and clients grows.

The requirement is that your network switch and router must properly support IGMP. Please consult the manufacturer of your network equipment for a detailed qualification and setting procedures.

First, in the “Configuration” tab, select the desired video input by clicking on the connector icons.



Select “TS Multicast” as the “Stream Type”.

IP Address must be a multicast address within the range 224.0.0.0–239.255.255.255. Choose a port number in 1024–65535. This combination of IP address and port is the destination your streaming is going to be.

Adjust TTL value to determine how much router hops this streaming can cross, assuming your router is also configured to relay multicast traffic. Setting TTL to “1” limits multicast streaming within your local network.

SAP is like an electronic program guide in the network, with which the player/clients can be notified of what video content are currently streaming and can be received by the player/clients. The default group name is “AVerCaster” and can be changed in the “Administration” tab. Channel name can be edited here and is default to the name of the video input.

After all settings are ready, click the play icon to start streaming.

Input Port 2-1

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		TS Multicast	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	239.1.1.1	1234	10.1.9.227	▶ + ✉
			Record : <input type="radio"/> On <input checked="" type="radio"/> Off Recording Quality : <input checked="" type="radio"/> Maximum Picture Quality <input type="radio"/> Use Streaming Format Storage Path : Setting					
			TTL : 64					
			SAP : <input checked="" type="checkbox"/> Enable <input type="checkbox"/> Manually set PID					

To receive this TS multicast streaming, go to “Broadcast List” and look up the “Output Location” for the streaming URL.

⚙ Broadcast List ⚙ Configuration ⚙ Encoding Profile 👤 Administration

IR 1 HDMI IN1 IR 2 **HDMI IN2**

COMPONENT VIDEO IN2 AUDIO L R
Y Pb Pr L R
COMPONENT VIDEO IN1 AUDIO L R
Y Pb Pr L R

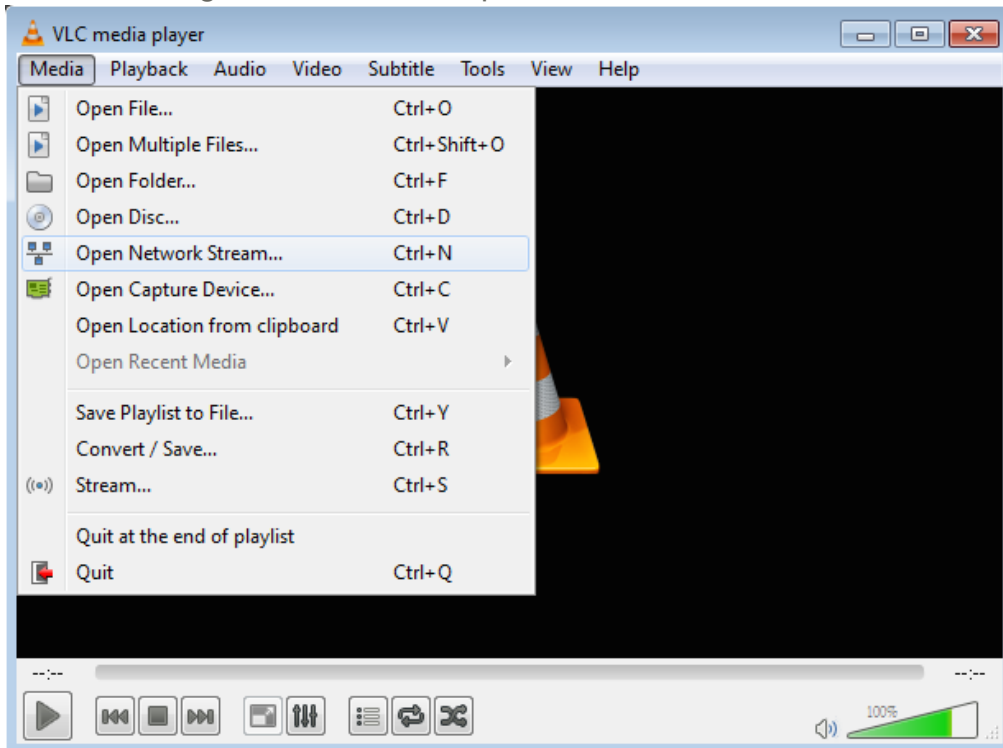
Input Port 2-1 HDMI
Signal Status : Streaming
Input Resolution : 1280 X 720

Broadcast List

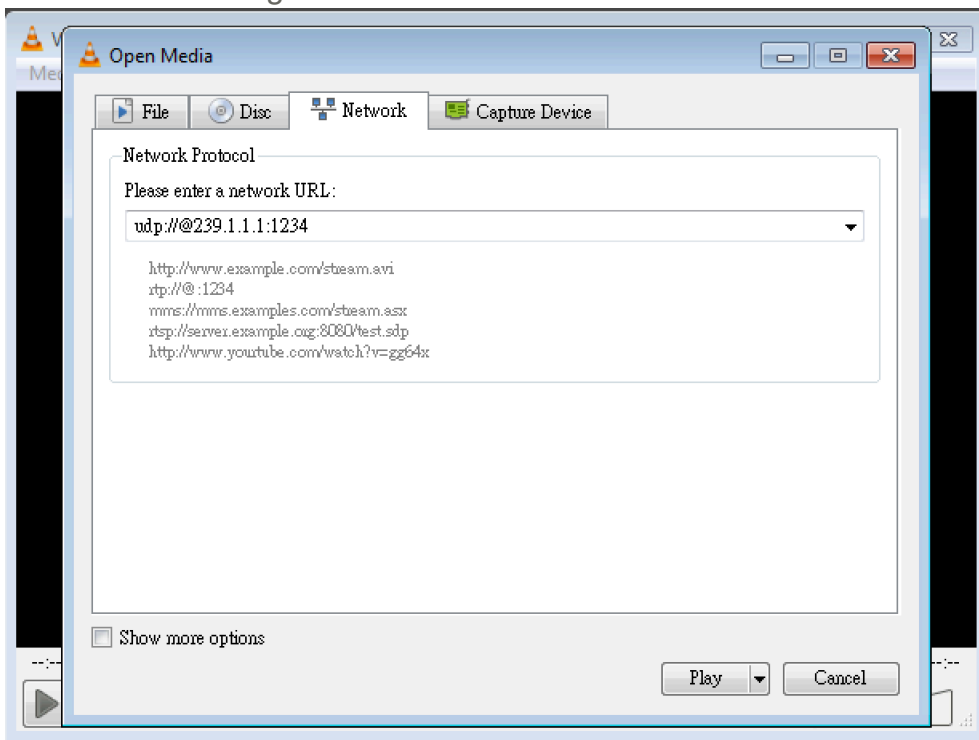
▶ ⏸ ⏹

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 2-1	udp://@239.1.1.1:1234	H.264 Main Profile VBR 320x240 [464 Kbps]	Streaming...

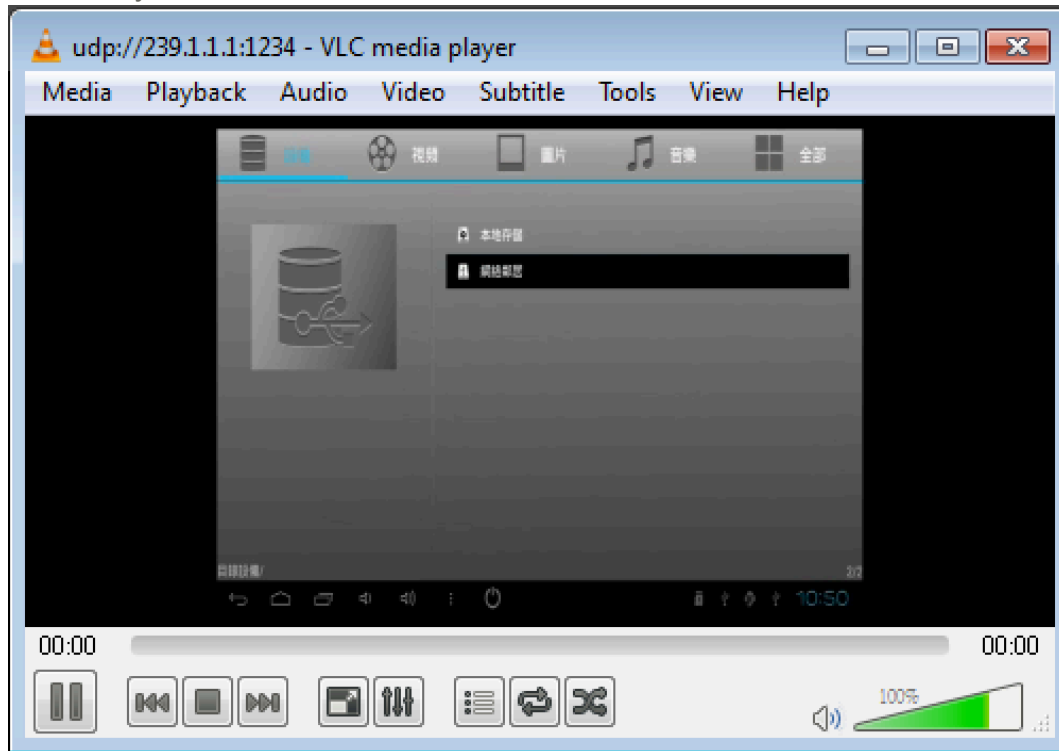
Launch VLC, go to “Media” → “Open Network Stream”.



Enter the streaming URL.



Click “Play”.

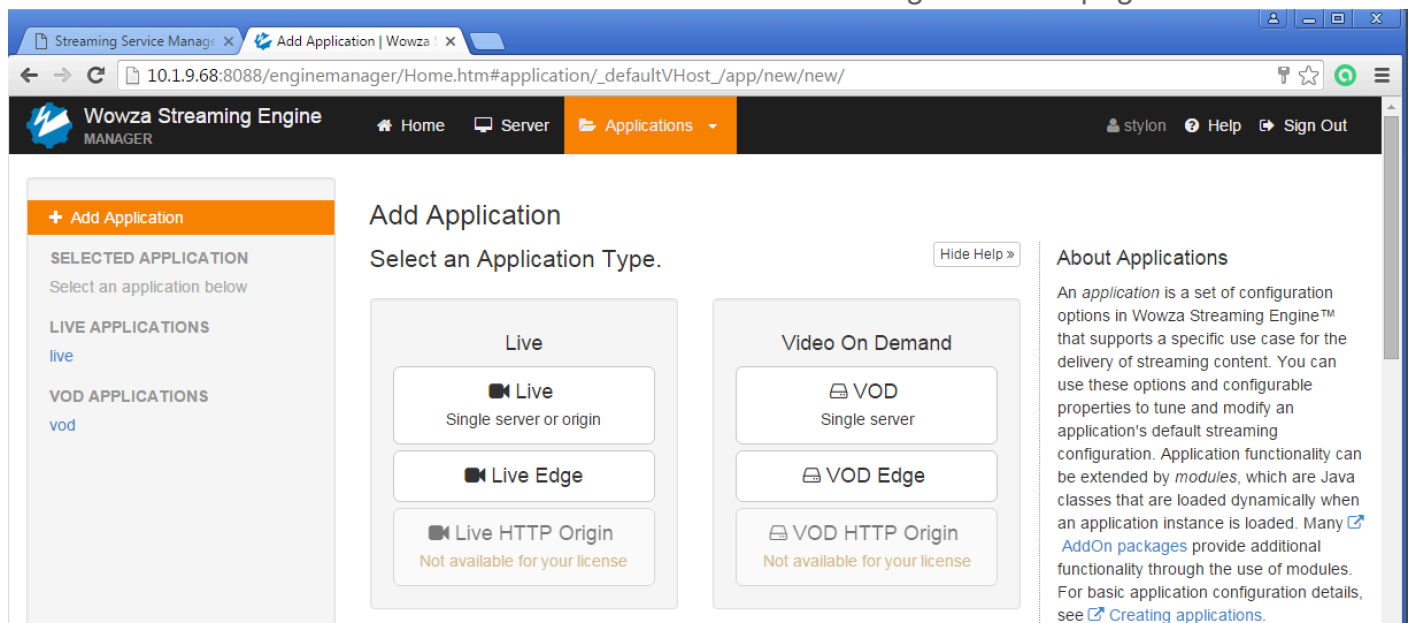


Streaming to RTMP server

RTMP (Real Time Messaging Protocol) streaming is often deployed when you need a centralized server or server farm to dispatch media content to thousands of clients. Commercial RTMP servers are available from Wowza, Adobe, Microsoft Azure, Amazon, and NGINX. Video services such as YouTube, Ustream, Akamai and CDNVideo also supports RTMP.

Go to “Configuration” tab. After selecting video and audio input, select “RTMP Publish” as the “Stream Type”.

To deliver streams to RTMP, we need the RTMP URL and stream name (stream key) from the video service providers. In the following example we will stream to a Wowza streaming server, with the IP address 10.1.9.68. Here is a screenshot of Wowza management webpage.



In the default installation of Wowza, we often have the “live” application enabled. All we need to do is choose a stream name “f239”. Some RTMP servers require authentication. If so, enable “RTMP Authentication” and provide the account and password.

Likewise, click the “Play” icon to start streaming.

Input Port 1-1

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile CBR 1280x720 [2.0 Mbps]	10.1.9.68	0	10.1.9.227	▶ + ✉
Record : <input type="radio"/> On <input checked="" type="radio"/> Off * Recording function is disabled as you have reached the streaming output limit								
FMS Server Address : <input type="text" value="rtmp://10.1.9.68:1935/live"/> Example: rtmp://fms-ip/app								
Stream Name: <input type="text" value="f239"/>								
<input checked="" type="checkbox"/> Enable RTMP Authentication (If needed)								
Account: <input type="text" value="admin"/>								
Password: <input type="password" value="****"/>								
Confirm Password: <input type="password" value="****"/>								
<small>*Available bit rate combinations are determined by the following streaming limitations:</small>								

In the “Broadcast List” tab, note the Streaming Status going from “Activating...” to “Streaming...”.

Broadcast List

▶ ▶ ▶

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	FMS URL : rtmp://10.1.9.68:1935/live Stream : f239	H.264 Main Profile CBR 1280x720 [2.0 Mbps]	Activating...

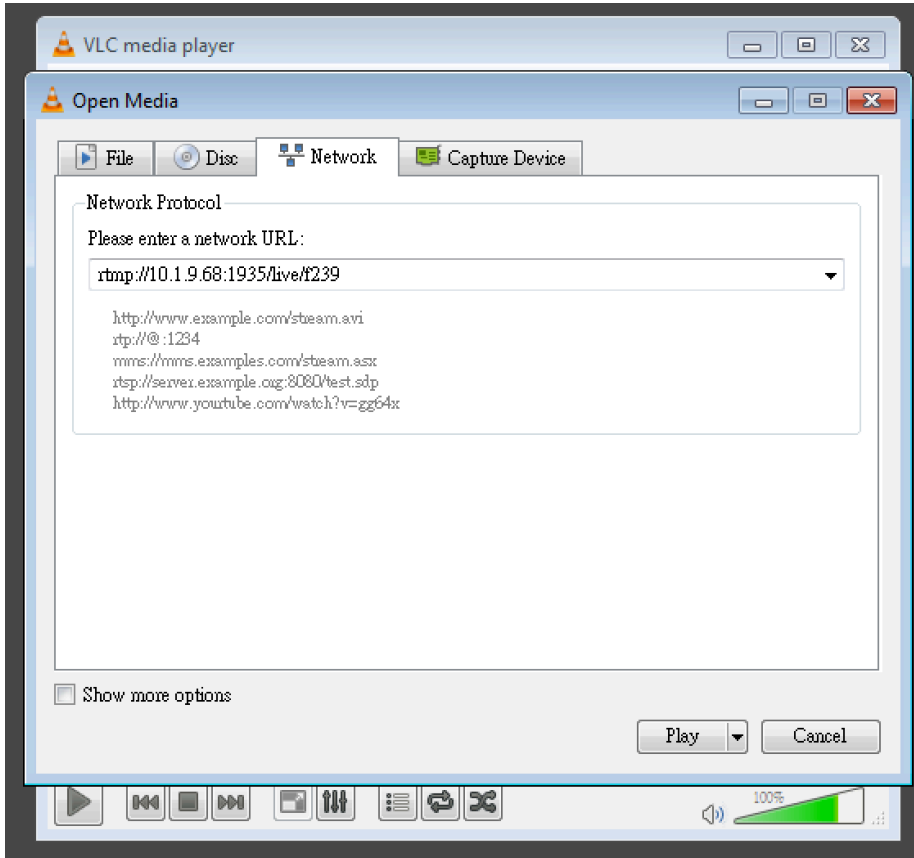
Broadcast List

▶ ▶ ▶

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	FMS URL : rtmp://10.1.9.68:1935/live Stream : f239	H.264 Main Profile CBR 1280x720 [2.0 Mbps]	Streaming...

RTMP server can do a lot more than just dispatching the media content. So the playback URL may not be the same as the one displayed under “Output Location”. To be sure, consult your service providers or operators for detail.

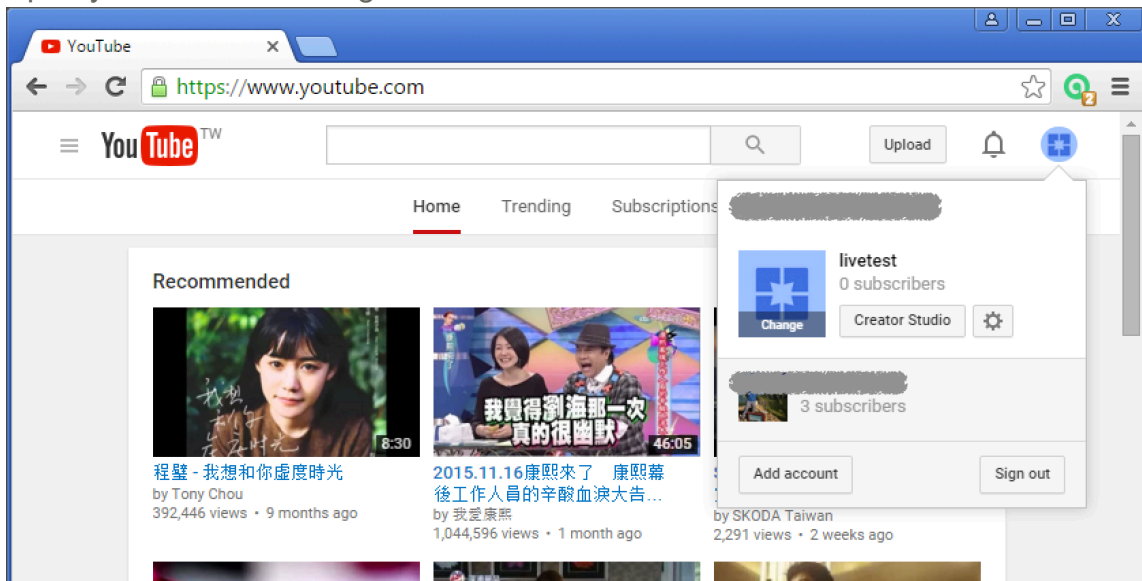
In the above example, a playback URL “rtmp://10.1.9.68:1935/live/f239” can be provided to VLC.



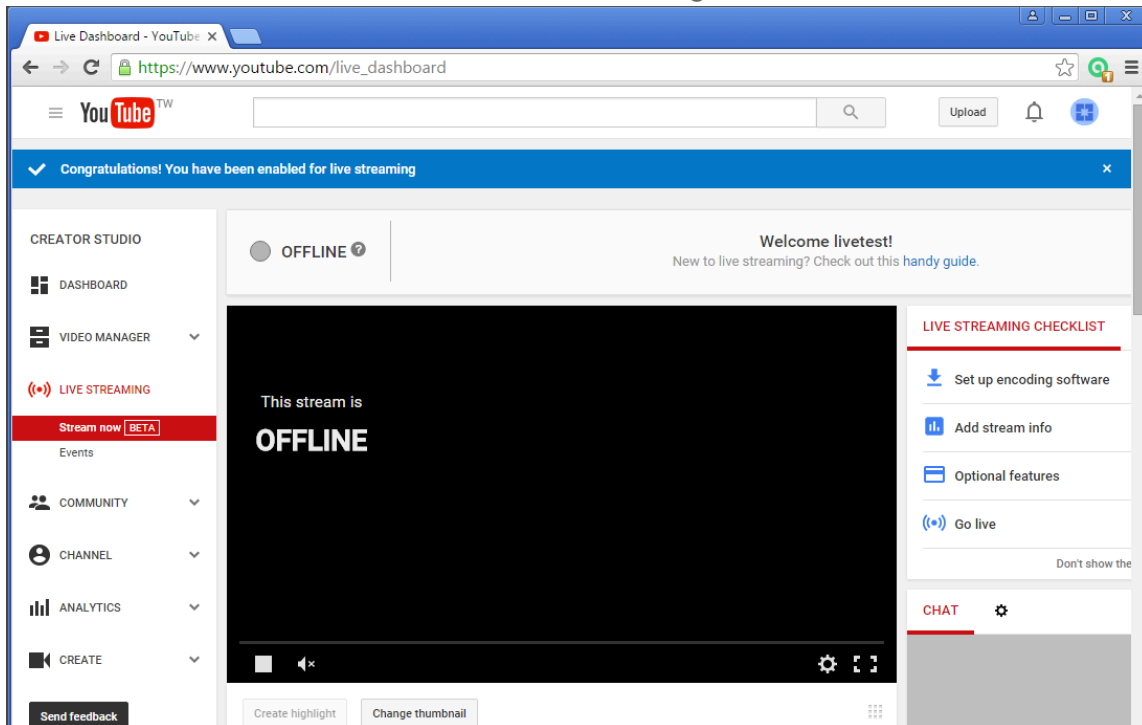
Streaming to YouTube Live (available at firmware v1.11.x)

Your YouTube account may have to go through additional processes to be eligible for live streaming. This process is outside of the scope of this document and may involve authentication of your identity using your mobile phone.

Streaming to YouTube Live is the same as streaming to an RTMP server. To acquire the streaming URL and name, open a web browser and go to your YouTube page: <http://www.youtube.com>. Open your account settings and click on “Creator Studio”.



In Youtube Creator Studio, select “Live Streaming”.



Scroll down to the bottom to receive your RTMP URL and stream name.

ENCODER SETUP

Server URL

Stream name/key

Copy the “Server URL” to “FMS Server Address” and the “Stream name” to “Stream Name” in F239+. Disable “RTMP Authentication”.

Input Port 1-1

Audio Input
☒ HDMI
☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile CBR 1280x720 [2.0 Mbps]	10.1.9.68	0	10.1.9.227	<input type="button" value="Play"/> <input type="button" value="+"/> <input type="button" value="X"/>

Record : ☐ On ☒ Off
Recording Quality : Adjust automatically according to streaming bitrate
Storage Path :

FMS Server Address : Example: rtmp://fms-ip/app
Stream Name:
☐ Enable RTMP Authentication (If needed)

Click the “Play” icon to start streaming.

To retrieve the playback URL for your audience, go to YouTube Creator Studio again. Scroll down to the bottom right and find the URL there.

SHARE

View on watch page

Link to

YouTube

Want a custom URL? [Learn more](#)

Dual Streaming in duet mode

F239+ has 2 channels with independent audio/video receivers and encoders, which means it could perform like 2 encoders working independently. Some usage scenarios are shown below.

1. Perform streaming from 2 sets of cameras with different angles.
2. Perform streaming from 1 set of HDMI camera and a media player with component video connection.

Under “Configuration” tab, we first create a stream from HDMI port 1 to RTMP.

Input Port 1-1 HDMI
Signal Status : Streaming
Input Resolution : 1920 X 1080

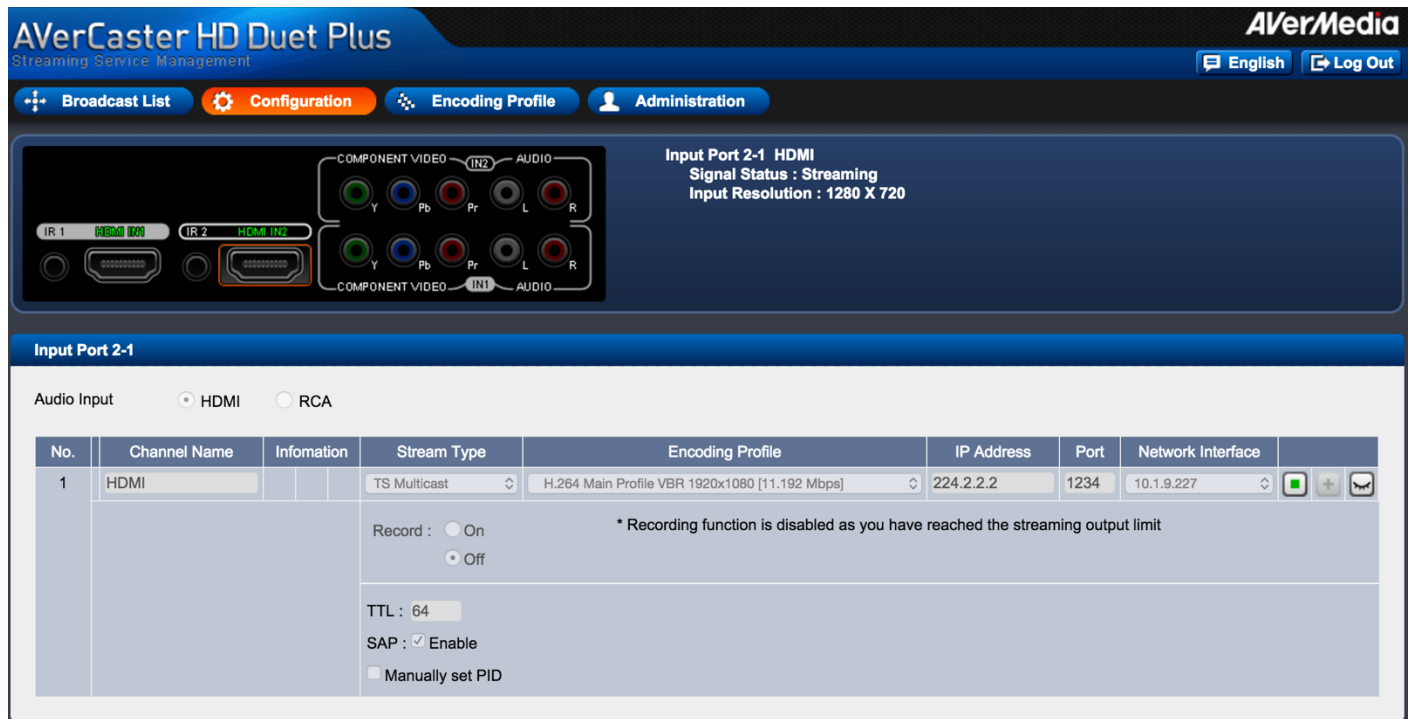
Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile VBR 720x480 [4.692 Mbps]	10.1.9.227	0	10.1.9.227	

Record : ☐ On ☒ Off
* Recording function is disabled as streaming bitrate is over 4 Mbps.

FMS Server Address : Example: rtmp://fms-ip/app
Stream Name:
☐ Enable RTMP Authentication (If needed)

Then click on the “HDMI IN2” icon to select HDMI port 2 for streaming. In this case we use TS Multicast to 224.2.2.2:1234.

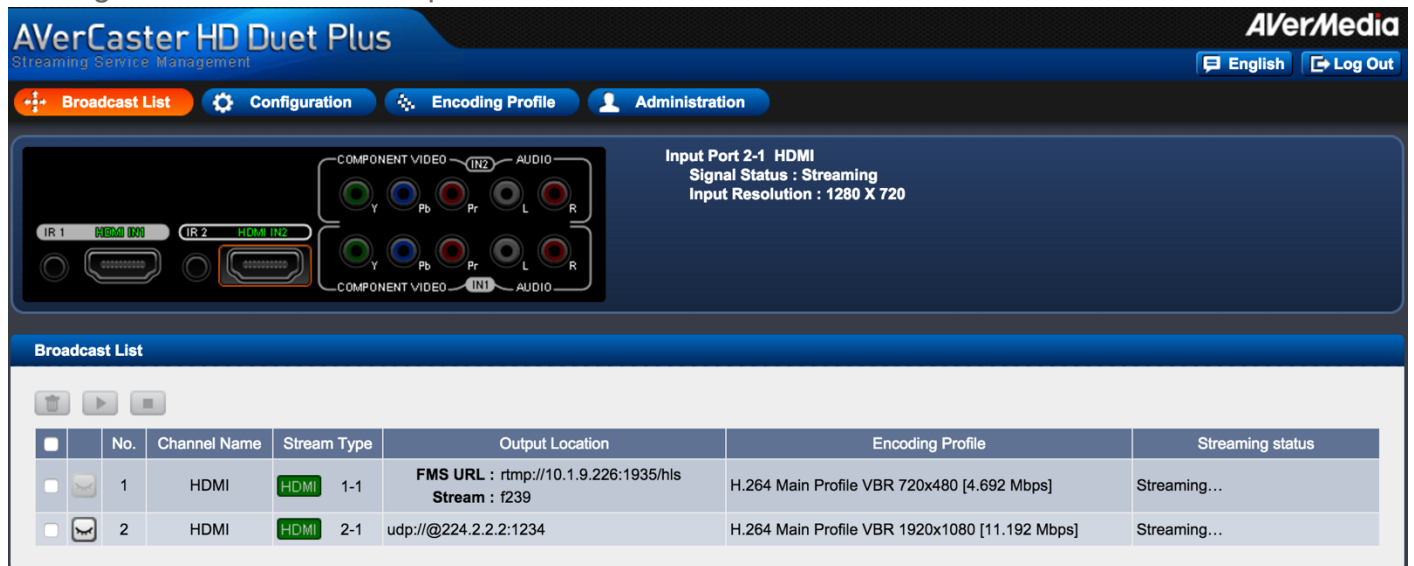


The screenshot shows the AVerCaster HD Duet Plus Streaming Service Management interface. The top navigation bar includes "Broadcast List", "Configuration", "Encoding Profile", and "Administration". The "Configuration" tab is active, showing the "Input Port 2-1" settings. The interface displays a diagram of the device's ports (HDMI IN1, HDMI IN2, Component Video, and Audio) with "HDMI IN2" selected. The "Input Port 2-1 HDMI" section shows "Signal Status : Streaming" and "Input Resolution : 1280 X 720". Below this, the "Audio Input" is set to "HDMI". A table lists the streaming configuration for "HDMI" input:

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		TS Multicast	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	224.2.2.2	1234	10.1.9.227

Additional settings for the stream include: Record (On/Off), TTL (64), SAP (Enable), and a note: "* Recording function is disabled as you have reached the streaming output limit".

In the “Broadcast List” tab, you can see in “Stream Type” column that the two streaming task are coming from different video inputs.



The screenshot shows the AVerCaster HD Duet Plus Streaming Service Management interface with the "Broadcast List" tab active. The top navigation bar includes "Broadcast List", "Configuration", "Encoding Profile", and "Administration". The "Broadcast List" tab shows a table of streaming tasks:

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	FMS URL : rtmp://10.1.9.226:1935/hls Stream : f239	H.264 Main Profile VBR 720x480 [4.692 Mbps]	Streaming...
2	HDMI	HDMI 2-1	udp://@224.2.2.2:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

Dual Streaming in splitter mode




Besides working as 2 sets of independent encoders, F239+ can receive one audio/video content, from one of the HDMI or component inputs, then encode to different profiles and send to different streaming services. Some usage scenarios are shown below.

1. Provide one stream in lower video resolution (320x240) for mobile devices and another in higher video resolution for big screen TV and notebooks.
2. Live broadcast your event from camera to YouTube Live and Ustream at the same time.
3. Provide one stream via UDP multicast to classrooms in campus and another stream to YouTube Live for parents to watch the event live.







Under “Configuration” tab, first we set up a RTMP streaming. After the first one started, click the “+” button to add a second stream from the same video input.

Input Port 1-1

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile VBR 720x480 [4.692 Mbps]	10.1.9.226	0	10.1.9.227	  
			Record : <input type="radio"/> On <input checked="" type="radio"/> Off * Recording function is disabled as streaming bitrate is over 4 Mbps.					
			FMS Server Address : <input type="text" value="rtmp://10.1.9.226:1935/hls"/> Example: rtmp://fms-ip/app Stream Name: <input type="text" value="f239"/> <input type="checkbox"/> Enable RTMP Authentication (If needed)					
			*Available bit rate combinations are determined by the following streaming limitations: 1. The total limit for RTMP video stream is 8 Mbps at one time. 2. The limit for non-RTMP stream is 15 Mbps when sharing with RTMP stream.					
			* Recording quality is adjusted based on the streaming bitrate: 1. When bitrate is over 4 Mbps, recording function will be disabled.					

Here is the second stream from the same video input. We set this up as TS Multicast and start streaming.

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile VBR 720x480 [4.692 Mbps]	10.1.9.226	0	10.1.9.227	  
			Record : <input type="radio"/> On <input checked="" type="radio"/> Off * Recording function is disabled as you have reached the streaming output limit					
			FMS Server Address : <input type="text" value="rtmp://10.1.9.226:1935/hls"/> Example: rtmp://fms-ip/app Stream Name: <input type="text" value="f239"/> <input type="checkbox"/> Enable RTMP Authentication (If needed)					
			*Available bit rate combinations are determined by the following streaming limitations: 1. The total limit for RTMP video stream is 8 Mbps at one time. 2. The limit for non-RTMP stream is 15 Mbps when sharing with RTMP stream.					
			* Recording quality is adjusted based on the streaming bitrate: 1. When bitrate is over 4 Mbps, recording function will be disabled.					
	HDMI		TS Multicast	H.264 Main Profile VBR 1280x720 [8.192 Mbps]	239.1.1.2	1234	10.1.9.227	  
			Record : <input type="radio"/> On <input checked="" type="radio"/> Off * Recording function is disabled as you have reached the streaming output limit					

Under “Broadcast List” tab, the two streams share the same video and audio input (HDMI 1-1). The first stream is sent to RTMP server for transcoding and dispatching while the second stream is sent to local network to players.

AVerCaster HD Duet Plus
Streaming Service Management

English Log Out

Broadcast List Configuration Encoding Profile Administration

Input Port 1-1 HDMI
Signal Status : Streaming
Input Resolution : 1920 X 1080

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	FMS URL : rtmp://10.1.9.226:1935/hls Stream : f239	H.264 Main Profile VBR 720x480 [4.692 Mbps]	Streaming...
2	HDMI	HDMI 1-1	udp://@239.1.1.2:1234	H.264 Main Profile VBR 1280x720 [8.192 Mbps]	Streaming...

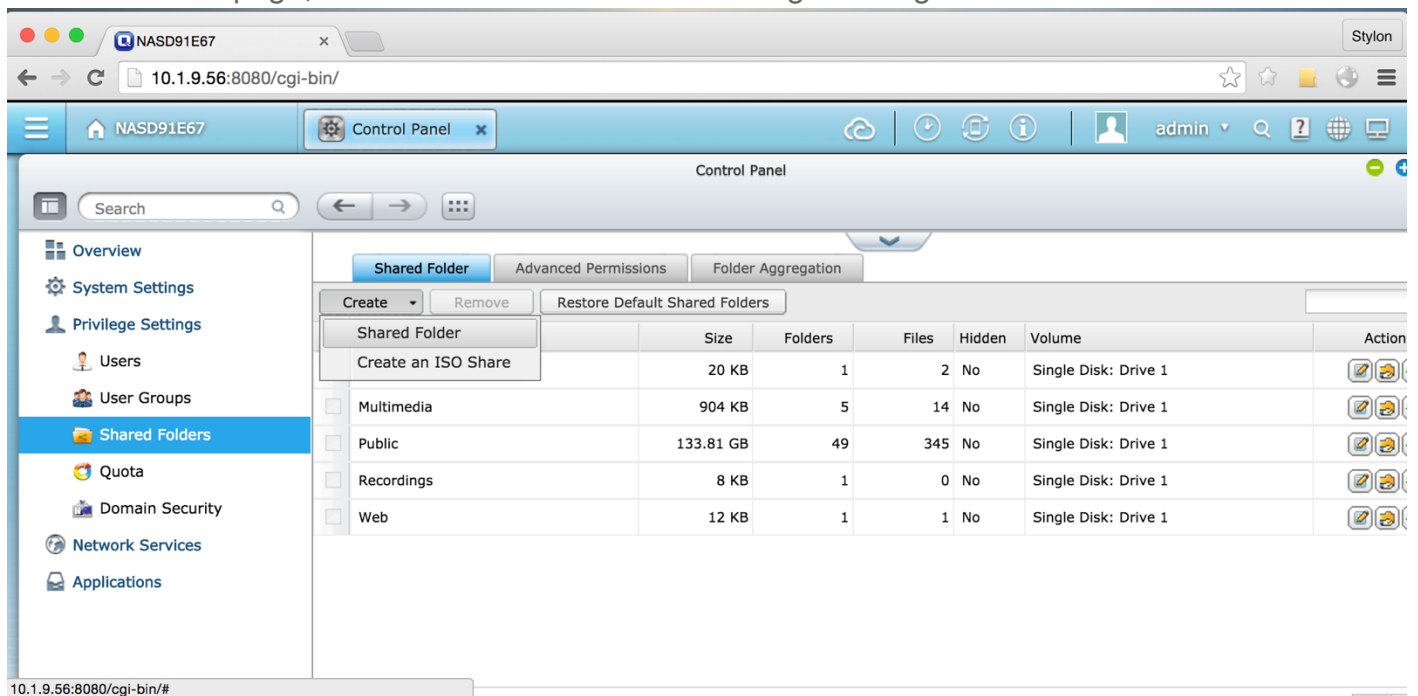
Recording while streaming

Recording is one special case of working in splitter mode. You can preserve the video clips in your PC, laptop, or NAS server while perform a live event streaming.

The recording files will be named after the video input and the date of recording. The files themselves will also contain the time of the recording. If such timing information is important to you, be sure to visits “Administration” section before recording to make sure the date, time and time zone are set correctly.

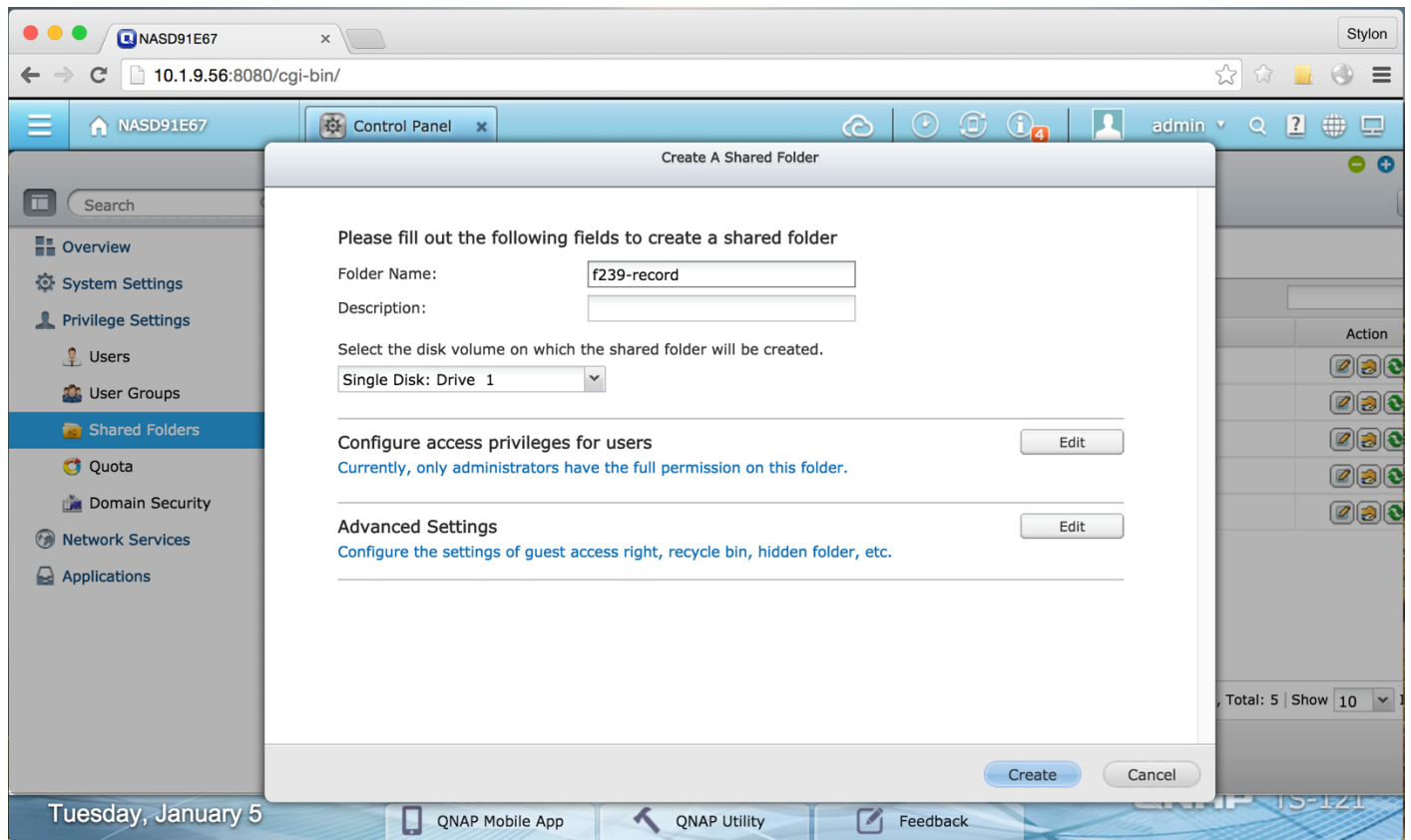
Setting up PC, laptop, or NAS server for file sharing is outside the scope of this document. Here we only provide an example with a QNAP NAS, which is assigned an IP address of 10.1.9.56.

In QNAP’s web page, launch “Control Panel” → “Privilege Settings” → “Shared Folders”

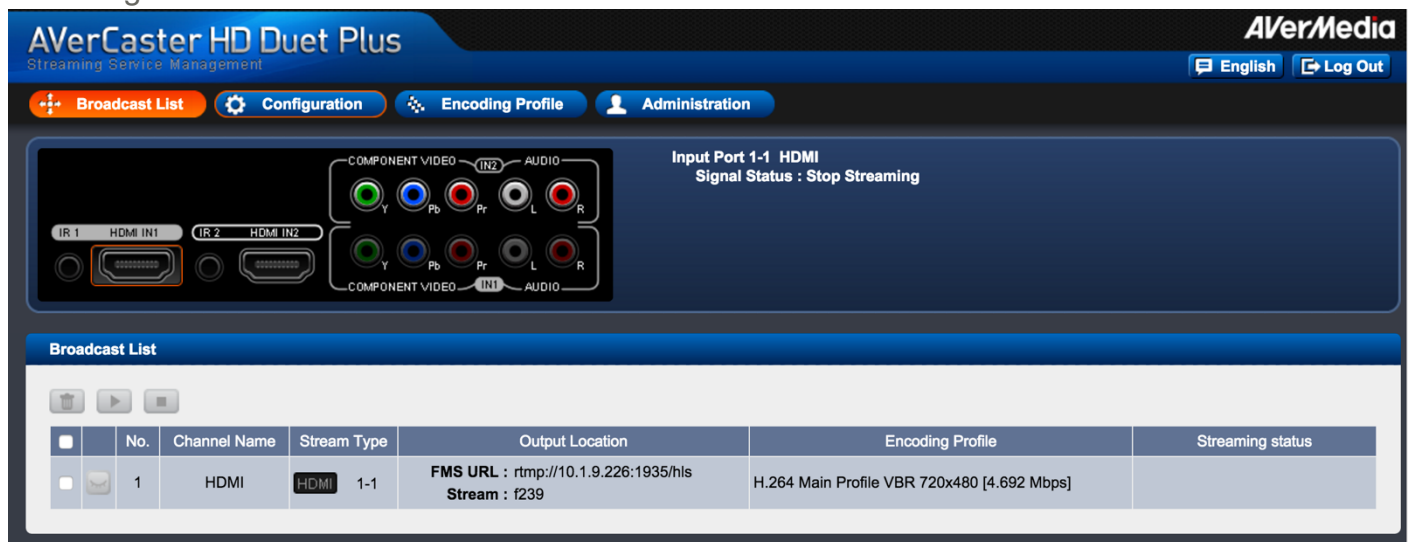


Shared Folder	Size	Folders	Files	Hidden	Volume	Action
Create an ISO Share	20 KB	1	2	No	Single Disk: Drive 1	[Edit] [Delete]
Multimedia	904 KB	5	14	No	Single Disk: Drive 1	[Edit] [Delete]
Public	133.81 GB	49	345	No	Single Disk: Drive 1	[Edit] [Delete]
Recordings	8 KB	1	0	No	Single Disk: Drive 1	[Edit] [Delete]
Web	12 KB	1	1	No	Single Disk: Drive 1	[Edit] [Delete]

We opt to create a new shared folder for F239+ to record to. This folder is named “f239-record”. Click “Create” to create a new folder.



Now back to F239+. Under “Broadcast List” tab, check to make sure there is only one or no streaming task. If there are already two streaming tasks, either in duet mode or splitter mode, recording will be disabled.



Select “Record” to “On” and click the “Setting” button beneath “Storage Path:”

Input Port 1-1

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		RTMP Publish	H.264 Main Profile VBR 1280x720 [2.728 Mbps]	10.1.9.226	0	10.1.9.227

Record : ☒ On ☐ Off Recording Quality : Adjust automatically according to streaming bitrate Storage Path : **Setting**

FMS Server Address : rtmp://10.1.9.226:1935/hls Example: rtmp://fms-ip/app

Stream Name: f239

☐ Enable RTMP Authentication (If needed)

Enter the IP address of your NAS server, the name of the shared folder and account/password in the dialogue. Click “Connect” to verify the recording path and password.

Storage Path Settings X

IP Address: \\10.1.9.56 e.g. \\192.168.0.1

Storage Path : \\f239-record e.g. \\Folder Name

Username: admin

Password:

Connect **Cancel**

If verification is successful, you will be brought back to the streaming configuration page. Just click the “Play” icon to start streaming and recording.

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile VBR 1920x1080 [3.628 Mbps]	10.1.9.226	0	10.1.9.227	

Record : ☒ On ☐ Off

Recording Quality : Adjust automatically according to streaming bitrate

Storage Path : \\10.1.9.56\\f239-record [Setting](#)

FMS Server Address : rtmp://10.1.9.226:1935/hls Example: rtmp://fms-ip/app

Stream Name: f239

☐ Enable RTMP Authentication (If needed)

*Available bit rate combinations are determined by the following streaming limitations:
1. The total limit for RTMP video stream is 8 Mbps at one time.

Starting with firmware version 1.11.x, a file splitting feature is added so that you can split the recording files to smaller segments. So set the time duration of each segment, adjust the “hours” and “minutes” in the “Segment Duration” setting.

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		RTMP Publish	H.264 Main Profile VBR 1920x1080 [3.628 Mbps]			10.1.9.122	

Record : ☒ On ☐ Off

Storage Path : \\10.1.9.102\\multimedia [Setting](#)

Segment Duration : 0 hours 0 minutes (Max: 2 hours)

Adjust automatically according to streaming bitrate

FMS Server Address : rtmp://10.1.9.226:1935/hls Example: rtmp://fms-ip/app

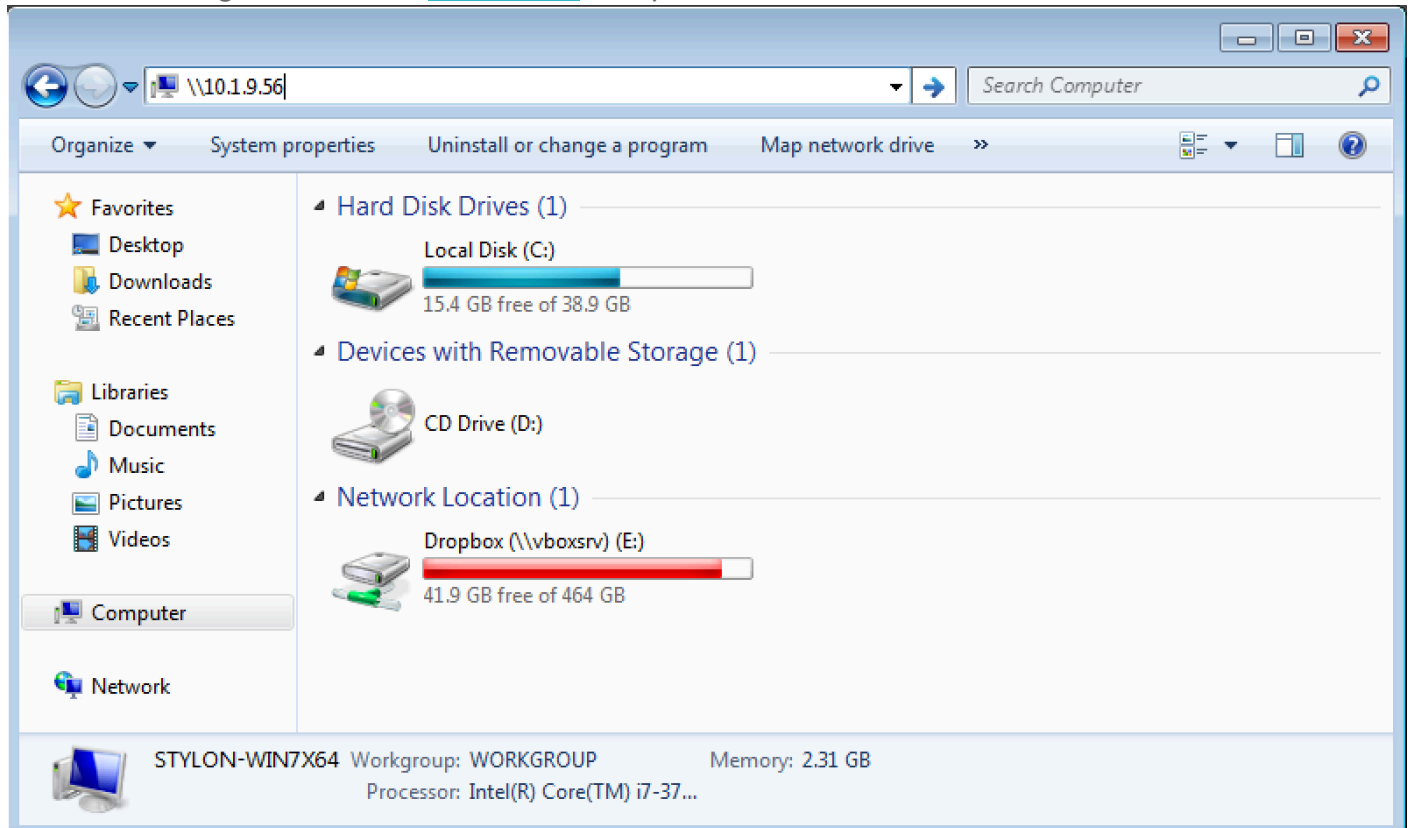
Stream Name: f239

☐ Enable RTMP Authentication (If needed)

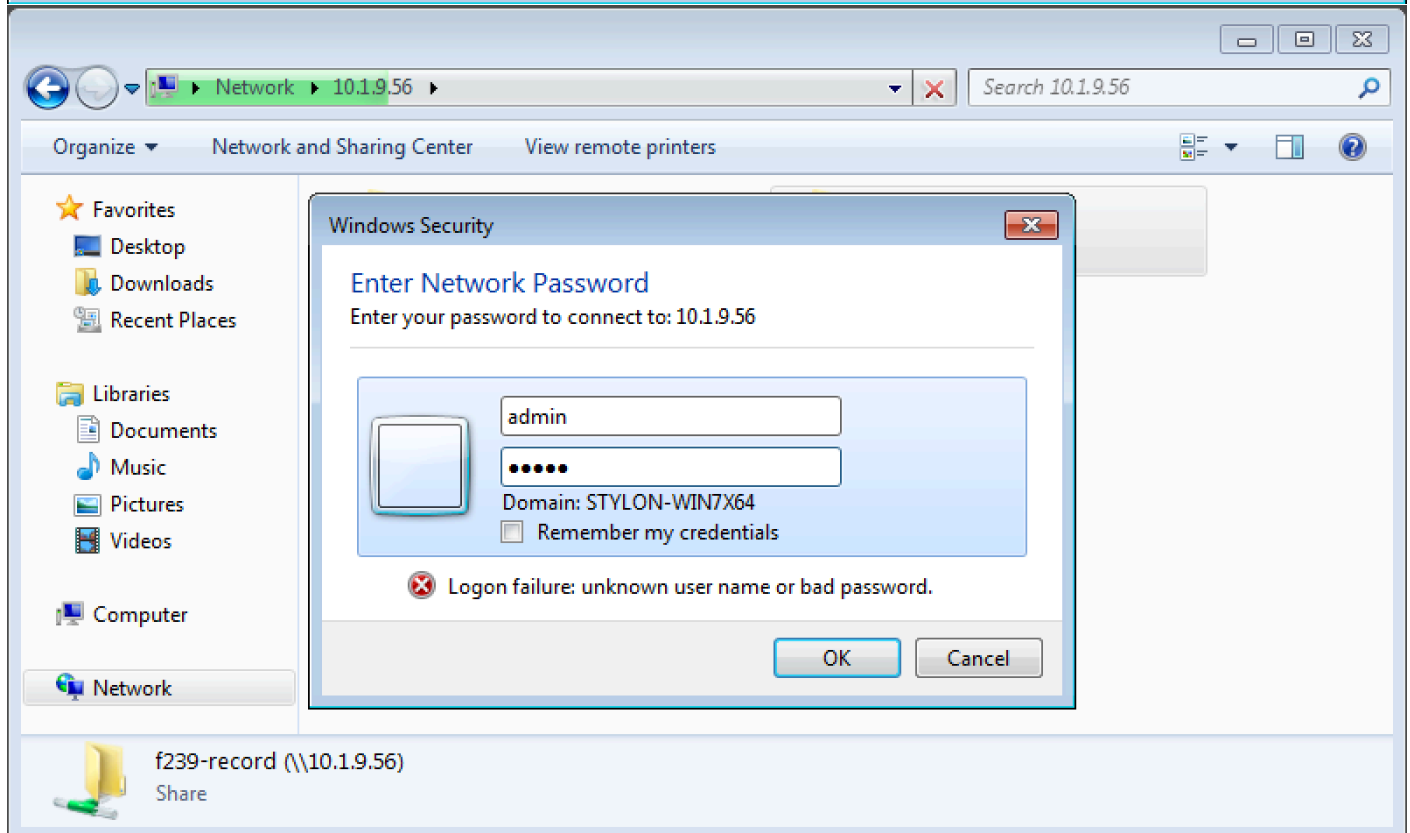
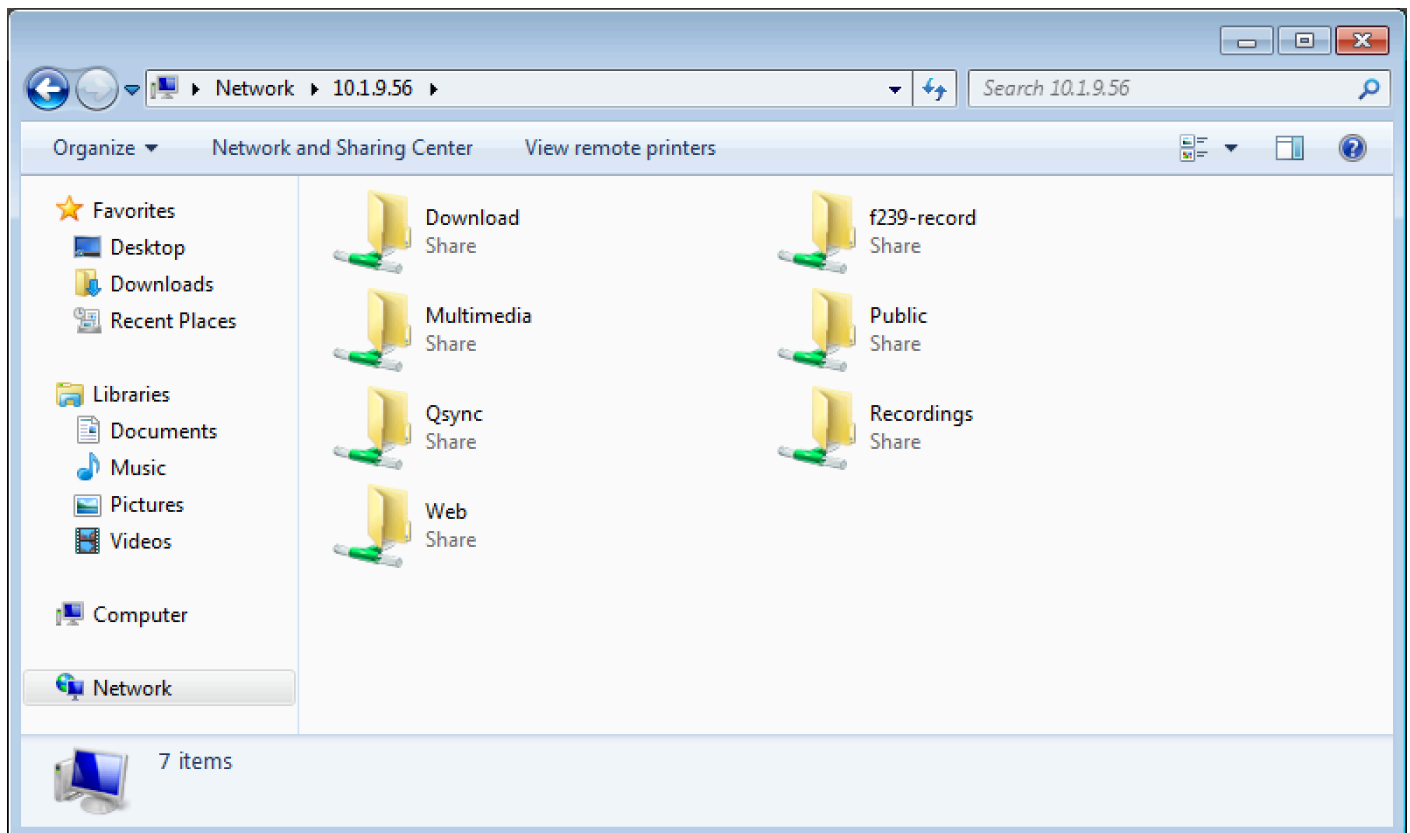
*Available bit rate combinations are determined by the following streaming limitations:
1. The total limit for RTMP video stream is 8 Mbps at one time.

It is safer to access the recording files on NAS server after you have stopped streaming. To retrieve the files from NAS, open “Computer” or a file explorer window. Enter the server address

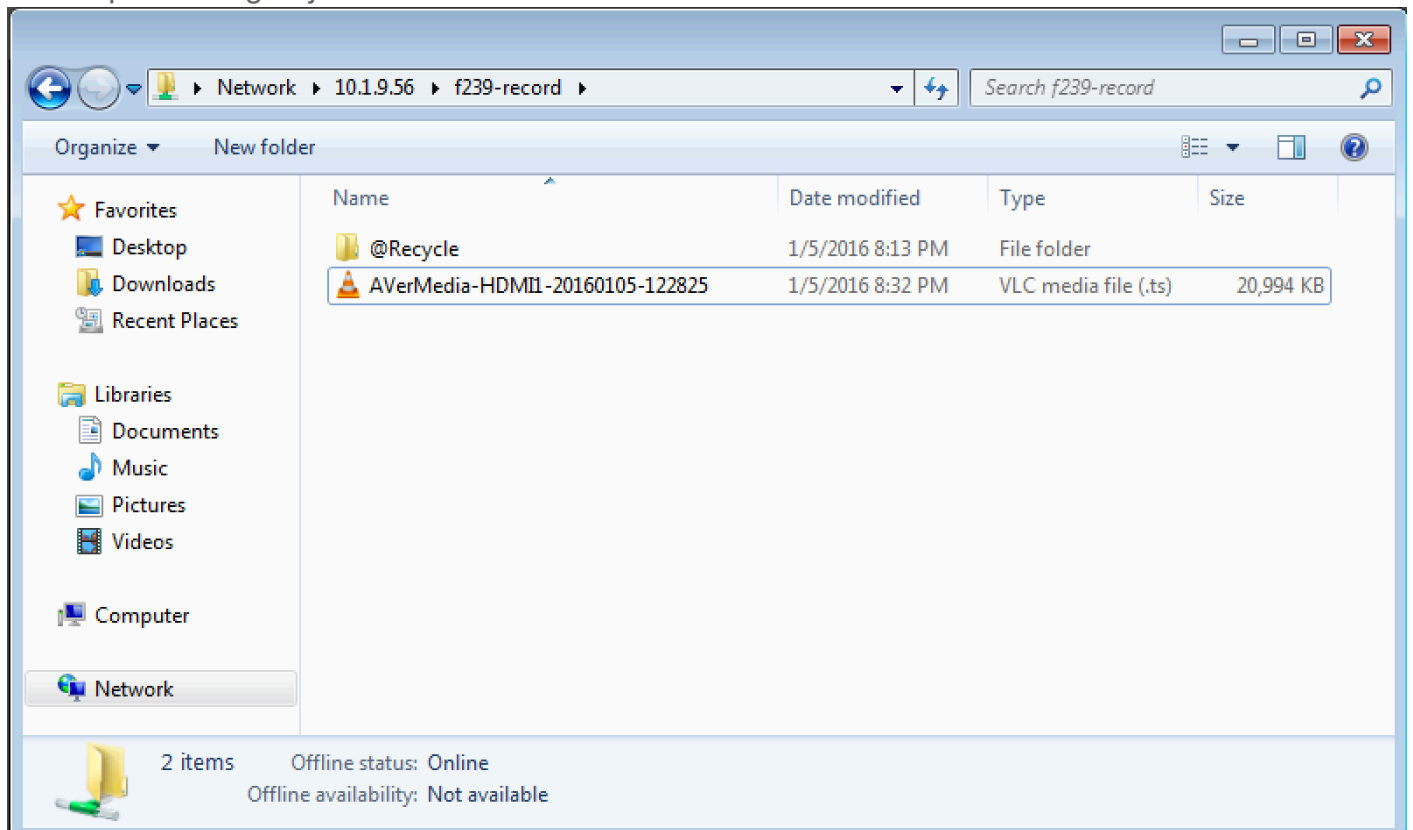
with two leading backslashes [\\10.1.9.56](#) and press Enter.



Navigate to the “f239-record” shared folder we created earlier. If prompted to enter account and password, enter the account and password of the NAS server.



In the shared folder you can find the recording files. Copy the files to your desired destination for further processing or just let them be.



Streaming to Ustream

F239+ has integrated support for Ustream, so you do not need to copy and paste server URLs and stream names anymore. Go to “Configuration” tab, select “Ustream” as the “Stream Type”.

AVerCaster HD Duet Plus
Streaming Service Management

English Log Out

Broadcast List Configuration Encoding Profile Administration

Input Port 1-1 HDMI
Signal Status : Input not configured

Audio Input ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		TS over TCP	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]				

Recording Quality : ☒ Maximum Picture Quality ☐ Use Streaming Format **Setting**

Ustream

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Enter the name and password of your Ustream account. Click “Log In” to authenticate your account and retrieve the channel list from Ustream.

AVerCaster HD Duet Plus
Streaming Service Management

English Log Out

Broadcast List Configuration Encoding Profile Administration

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input ☒ HDMI ☐ RCA

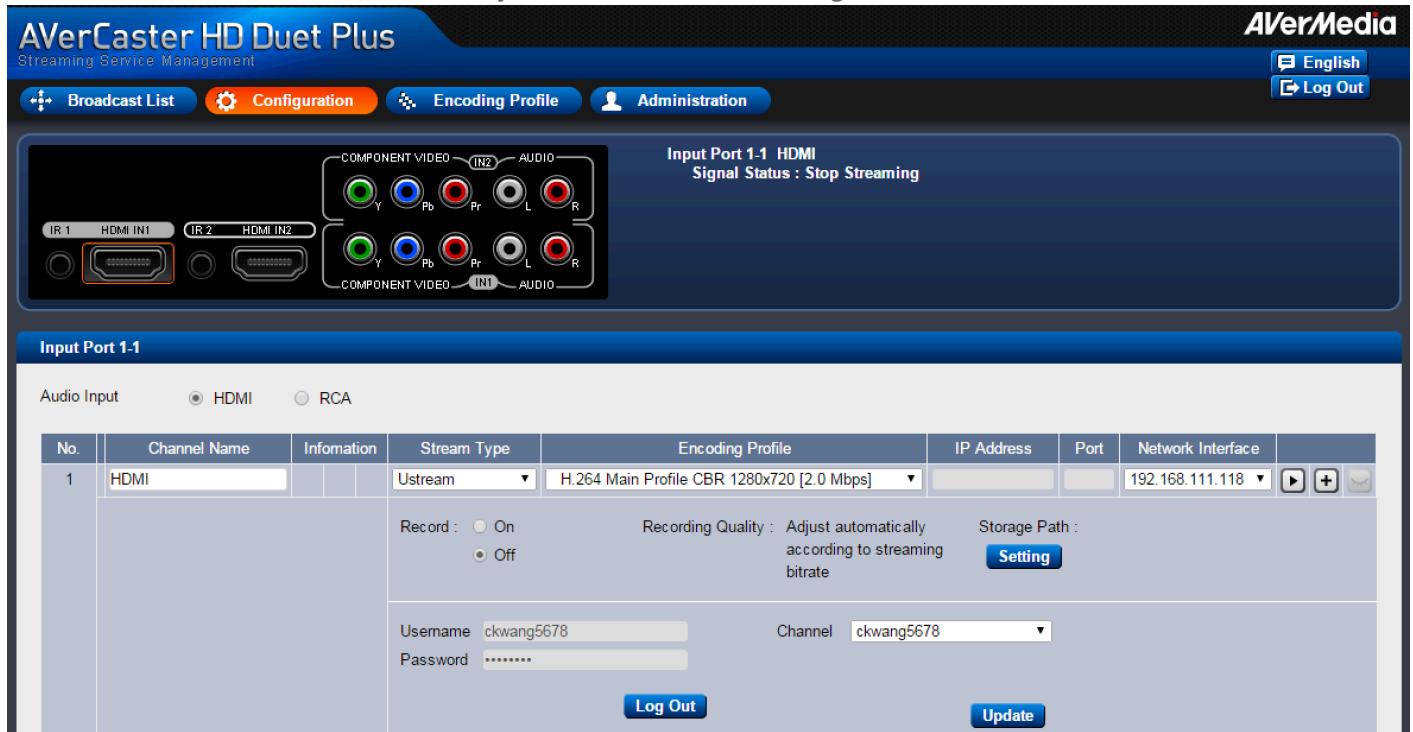
No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		Ustream	H.264 Main Profile CBR 1280x720 [2.0 Mbps]			192.168.111.118	

Record : ☐ On ☒ Off

Recording Quality : Adjust automatically according to streaming bitrate **Setting**

Username: ckwang5678 Channel: **Log In** **Update**

Select a channel and click the “Play” icon to start streaming.



Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input: ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		Ustream	H.264 Main Profile CBR 1280x720 [2.0 Mbps]			192.168.111.118	▶ +

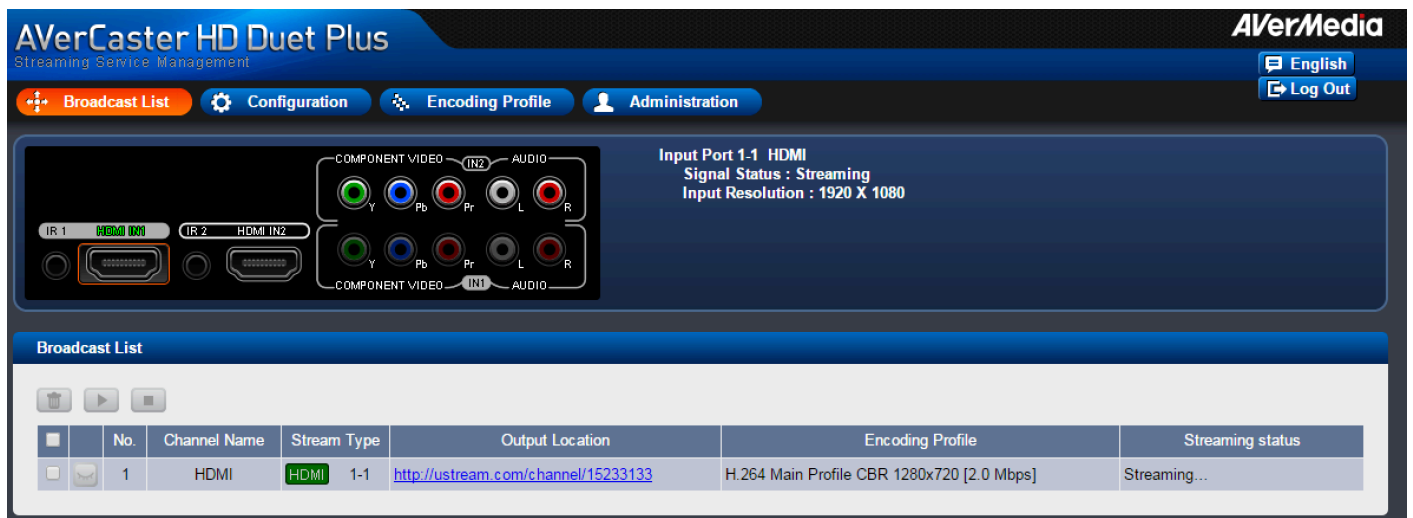
Record : ☐ On ☒ Off Recording Quality : Adjust automatically according to streaming bitrate Storage Path : [Setting](#)

Username: ckwang5678 Channel: ckwang5678

Password: *****

[Log Out](#) [Update](#)

Once streaming starts, the playback URL for your audience will be at “Output Location” in the “Broadcast List” tab.



Input Port 1-1 HDMI
Signal Status : Streaming
Input Resolution : 1920 X 1080

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	http://ustream.com/channel/15233133	H.264 Main Profile CBR 1280x720 [2.0 Mbps]	Streaming...

Streaming to CDNVideo

CDNVideo provides streaming service to world-wide enterprises. F239+ integrates well with CDNVideo to provide better user experience. To stream to CDNVideo, first apply for your account at their web site: www.cdnvideo.com. Then set it up under “Configuration” tab. Choose “CDNVideo” as the Stream Type and enter your user name and password to login.

The screenshot shows the AVerCaster HD Duet Plus Streaming Service Management interface. The top navigation bar includes tabs for Broadcast List, Configuration (selected), Encoding Profile, and Administration. The main area displays the configuration for Input Port 1-1 HDMI, which is currently not configured. Below this, the Audio Input is set to HDMI. A table lists the streaming configuration for channel 1, showing it is set to CDNVideo with an H.264 Main Profile VBR 1280x720 [8.192 Mbps] encoding profile. The recording function is disabled due to the high bitrate. At the bottom, there are fields for Username (wangstylon@gmail.com) and Password, along with a Channel dropdown and Log In and Update buttons.

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		CDNVideo	H.264 Main Profile VBR 1280x720 [8.192 Mbps]			192.168.111.120	<div>Record : <input type="radio"/> On <input checked="" type="radio"/> Off</div> <div>* Recording function is disabled as streaming bitrate is over 4 Mbps.</div> <div>Not registered yet? Please refer to CDNVideo website</div> <div>Username: wangstylon@gmail.com Channel: <input type="text"/></div> <div>Password: <input type="password"/></div> <div>Log In Update</div>

After logging in, choose the channel to stream to

Input Port 1-1 HDMI
Signal Status : Input not configured

Audio Input: ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		CDNvideo	H.264 Main Profile VBR 1280x720 [8.192 Mbps]			192.168.111.120

Record : ☐ On ☒ Off
* Recording function is disabled as streaming bitrate is over 4 Mbps.

[Not registered yet? Please refer to CDNvideo website](#)

Username: [masked] Channel: stream1
Password: [masked]

[Log Out](#) [Update](#)

When streaming is started, monitor the status under “Broadcast List” tab

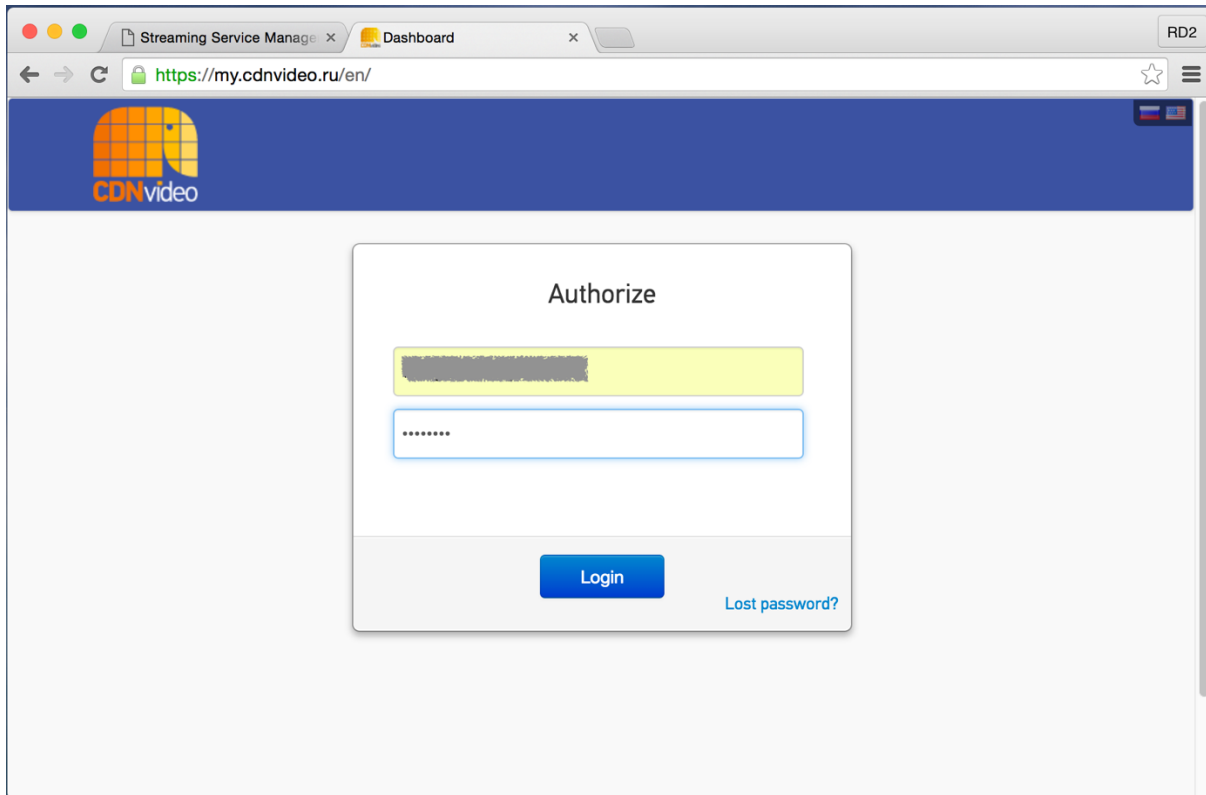
Input Port 1-1 HDMI
Signal Status : Streaming
Input Resolution : 1280 X 720

Broadcast List

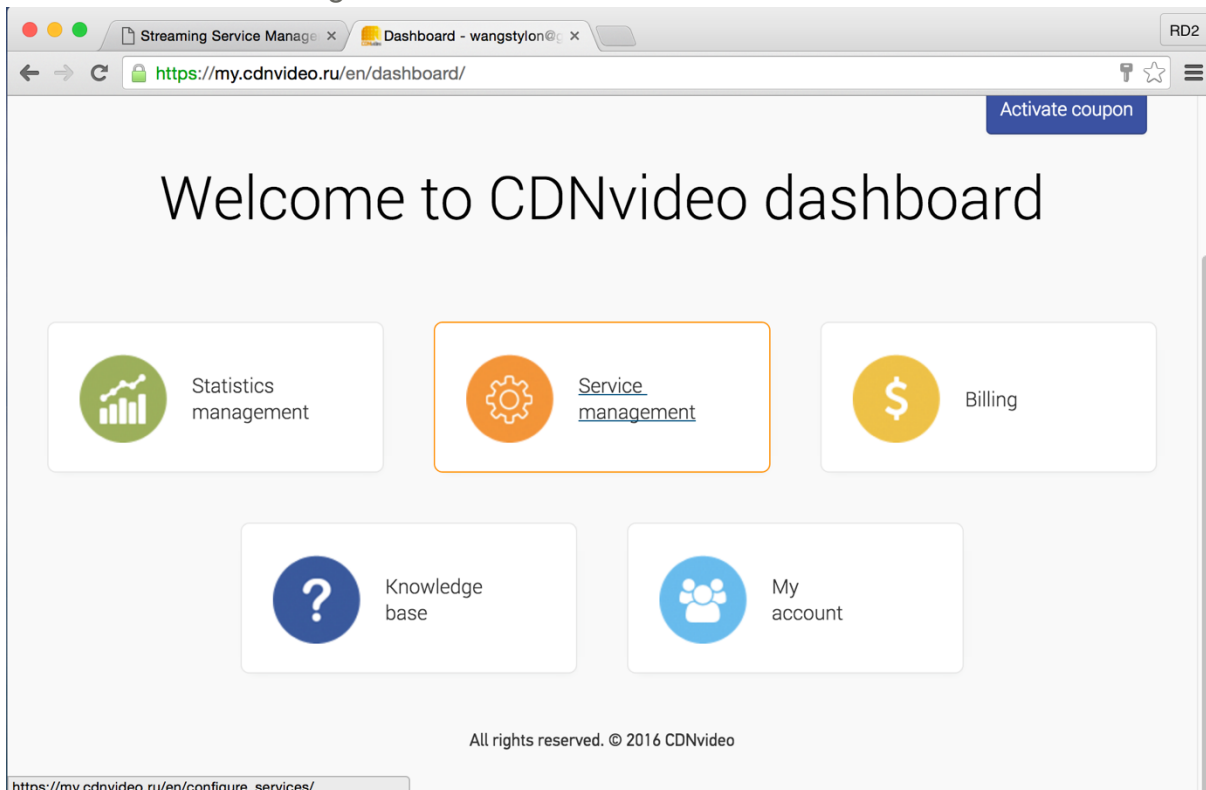
No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	FMS URL : rtmp://pub1.rtmp.s01.l.mycdn0770791670.cdnvideo.ru/mycdn0770791670 Stream : stream1?auth=nrdvEqQEe	H.264 Main Profile VBR 1280x720 [8.192 Mbps]	Streaming...

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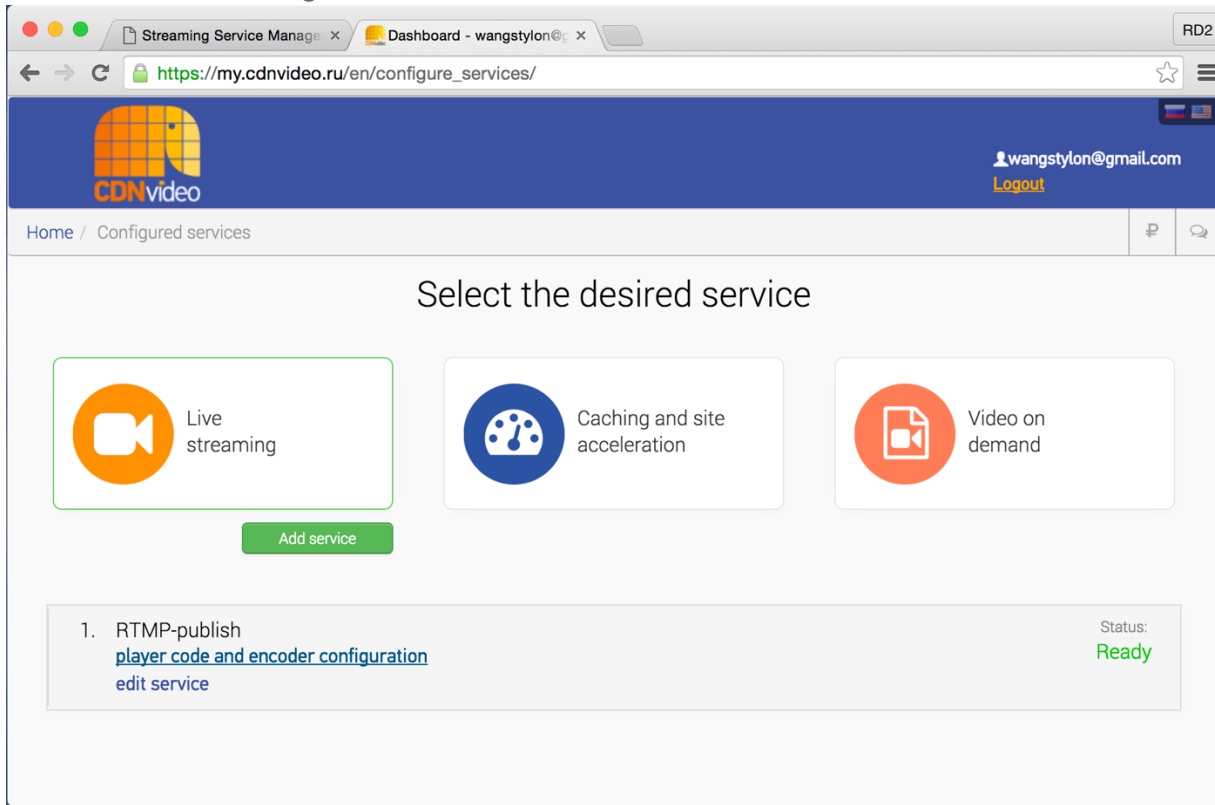
You need to visit CDNVideo website to retrieve the video link to provide to your audience. Log in to their service:



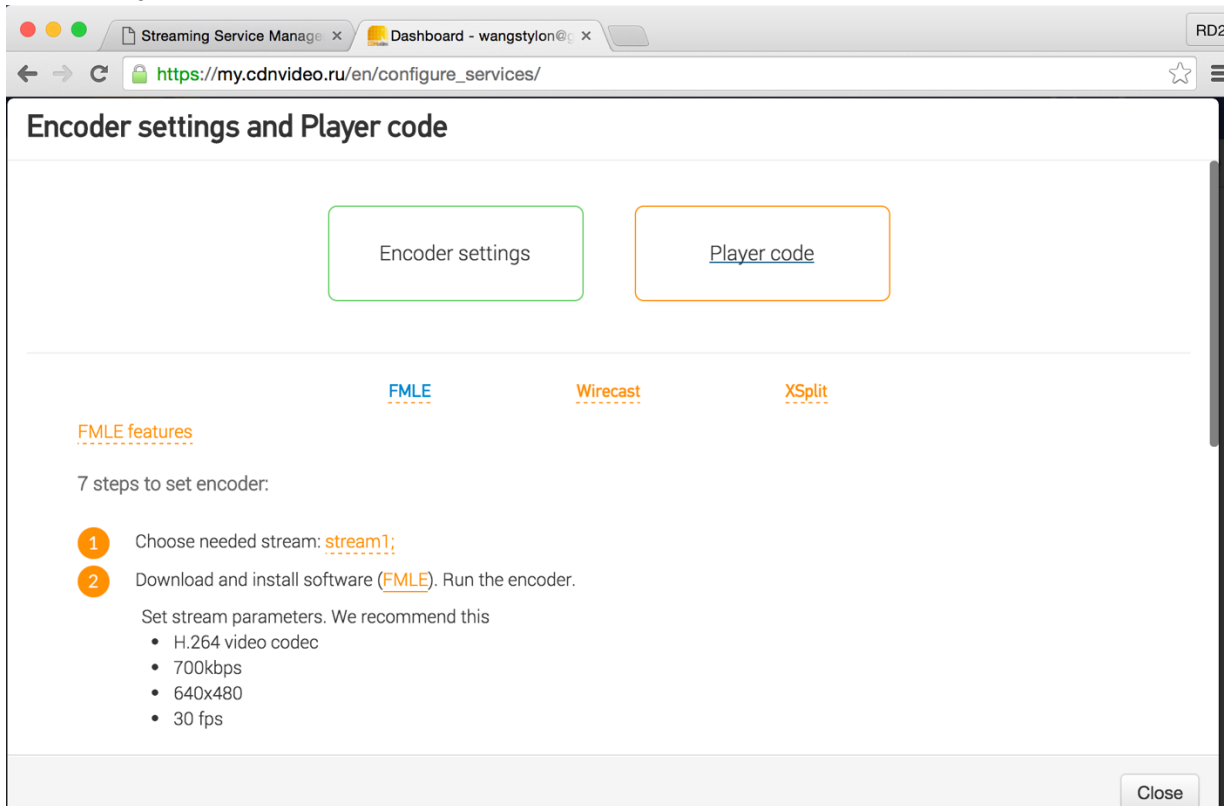
Choose “Service management”



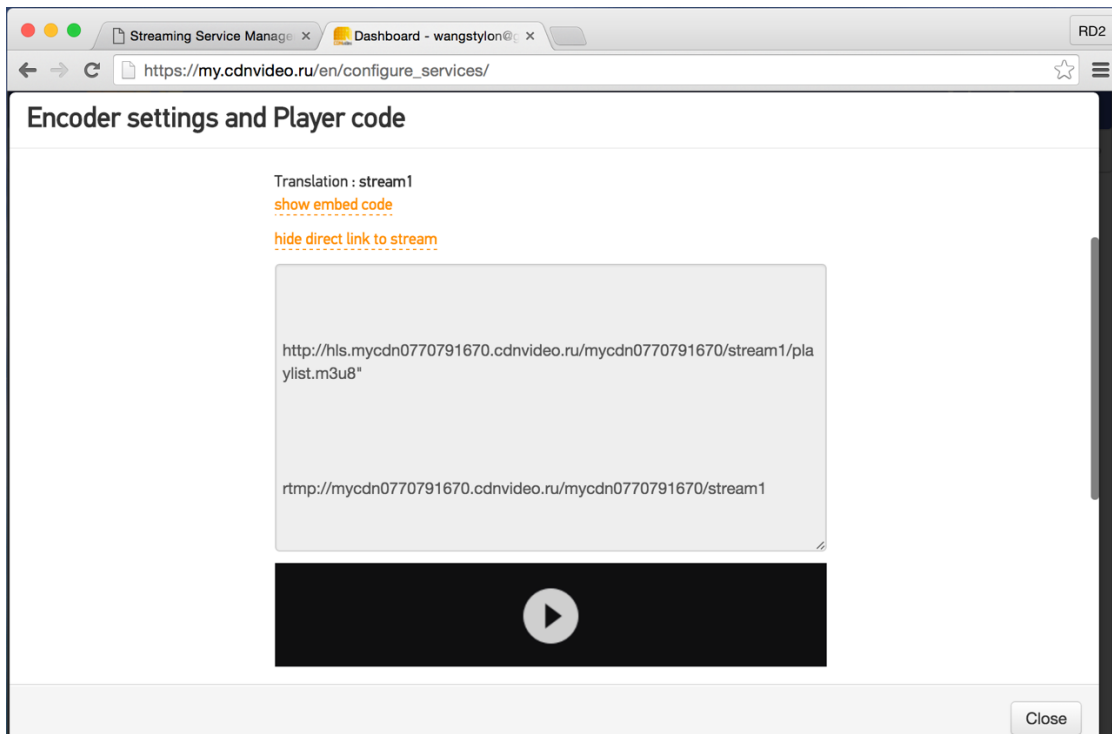
Select “Live streaming”



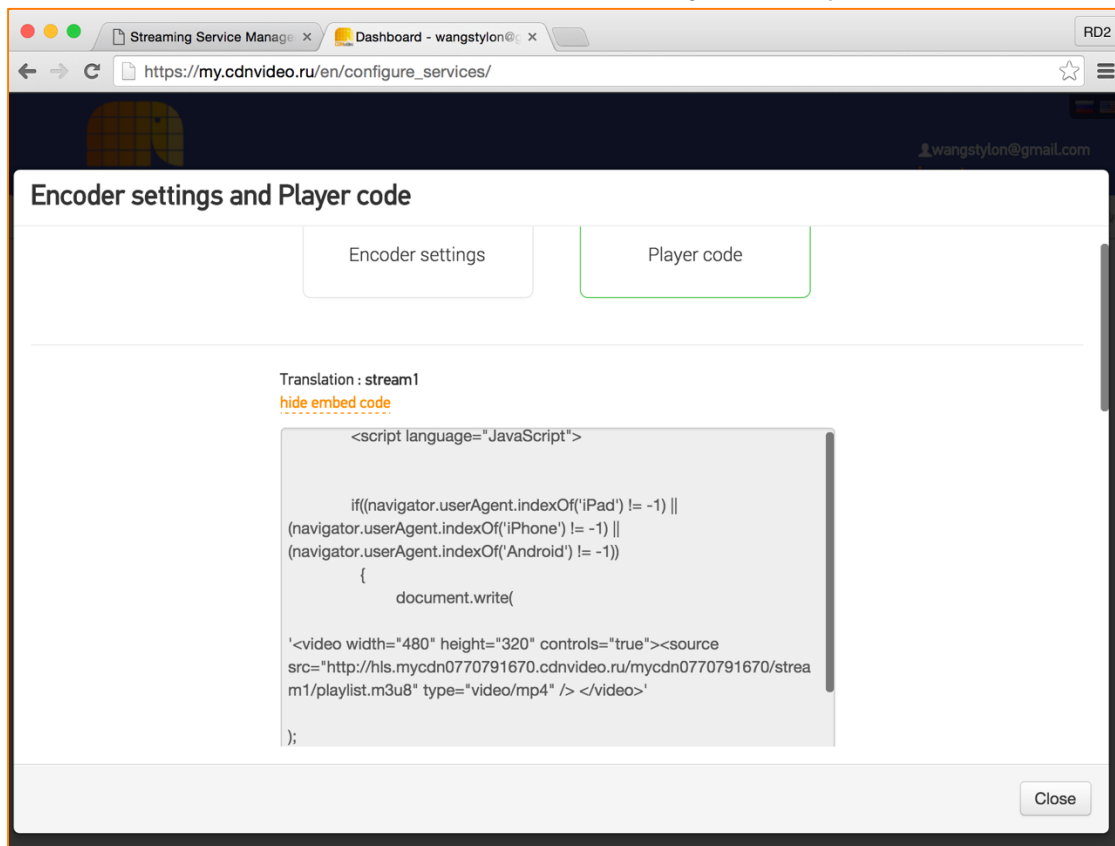
Click “Player code”



CDNVideo provides direct links to HLS and RTMP streaming respectively. You can use these links in VLC.



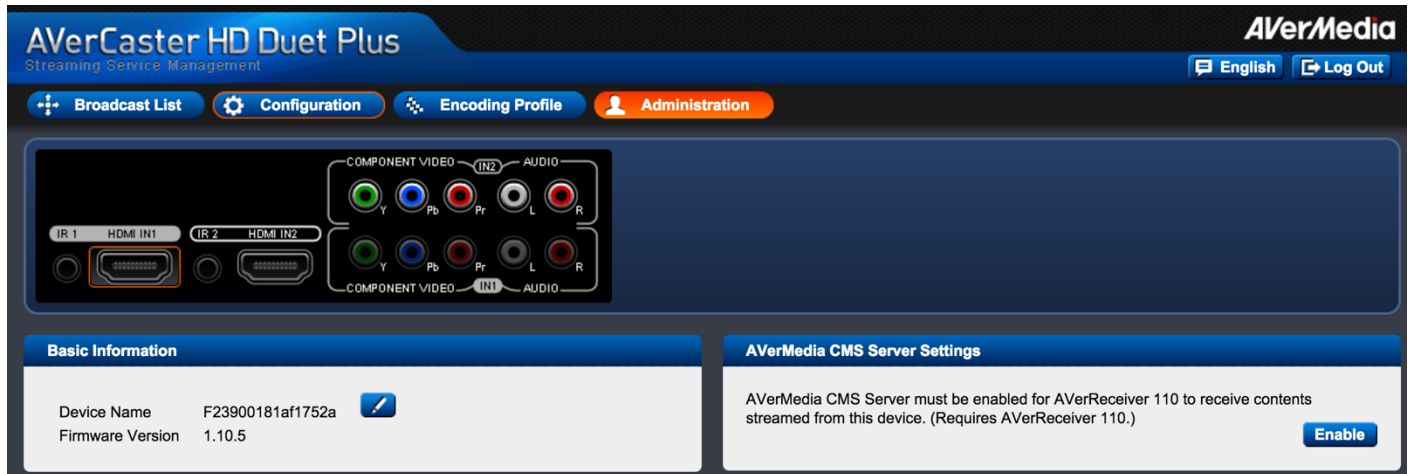
You can also have the codes to embed video to your web portal.



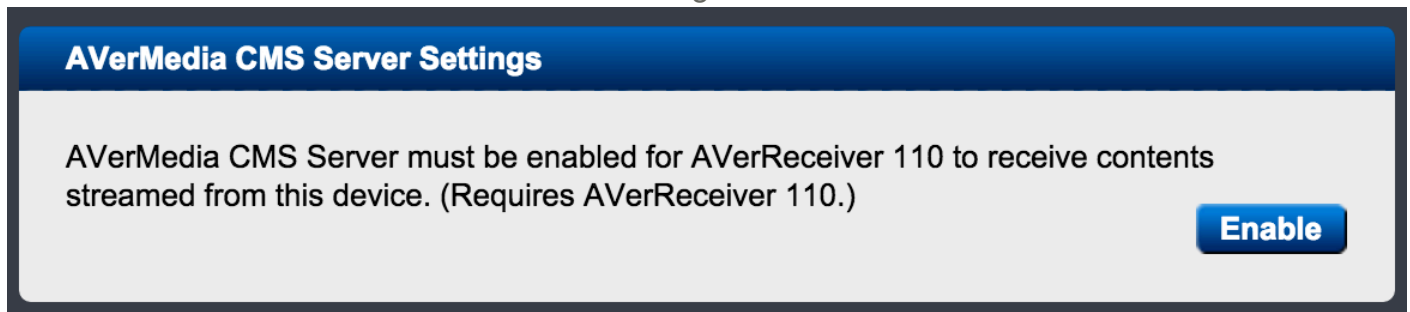
Streaming to CMS and SR110/SR310 with TS UDP Multicast

AVerMedia CMS video solution provides video-on-demand, digital signage and live streaming in one package. Excellent quality of this solution provides cost effectiveness and easy deployment.

TS UDP multicast is an easy-to-setup and cost-effective way to distribute live streaming to SR110 and SR310. First you need to connect F239+ encoder with CMS server. Go to “Administration” tab of F239+.



Click “Enable” in “AVerMedia CMS Server Settings”.



Enter the IP address and port number of the CMS server. CMS is installed to port 80 by default. Click “Connect” to link F239+ to CMS server.

Enable AVerMedia CMS Server

IP Address / Domain Name : Port

10.1.9.110 : 80

Connect **Cancel**

After connection is established, “Administration” tab will show that connection to CMS server is enabled.

AVerMedia CMS Server Settings

AVerMedia CMS Server enabled

Disable

Server address:: 10.1.9.110:80

In the CMS web management page, you can double check if F239+ is linked with CMS server.

AVerMedia CMS admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Serial Number	Device Name	IP	Status	Action
1307945300015	F23900181af175 2a	10.1.9.122	●	□

Page 1 20 items per page 1 Total items:

Page 1 20 items per page 1 Total items:

To start delivering live streaming to SR110 & SR310, first set up TS UDP multicast under F239+'s "Configuration" tab. Choose "AVerMedia CMS-UDP (Multicast)" as the "Stream Type". The other settings are the same as in TS UDP multicast, except for the video name and description, which will be sent to CMS and SR110/SR310 as program information.

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		AVerMedia CMS-UDP (Multicast)	H.264 Main Profile CBR 1280x720 [2.628 Mbps]	239.1.1.1	1234	10.1.9.122	<div> <div>Record : <input type="radio"/> On <input checked="" type="radio"/> Off</div> <div>* Recording function is disabled as you have reached the streaming output limit</div> <div> <div>Video Name: Live from hall 1</div> <div>Video Description: Live camera feed from Hall 1 (28/4000) Max Characters: 4000</div> </div> <div> <div>TTL : 64</div> <div>SAP : <input checked="" type="checkbox"/> Enable</div> <div><input type="checkbox"/> Manually set PID</div> </div> </div>

After streaming started, you can check under "Live Channel" at CMS management page.

AVerMedia CMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

All

Add Live Channel

<< Page 1 >>

20 items per page 1 Total items:

Delete	Thumbnail	Video Name	Description	Views	Status	Action
<input type="checkbox"/>		Live from hall 1	Live camera feed from hall 1	0	●	

<< Page 1 >>

20 items per page 1 Total items:

Click the “Edit” icon to change the distribution of this live program to SR110/SR310. Change the selection of groups to selectively deliver this live channel to specific groups of SR110.

AVerMedia CMS

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Settings

Weather Location

Emergency Bulletin

Database

Video Name

Live from hall 1

Description

Live camera feed from hall 1

Upload

http://10.1.9.110:80/uploads/img/

Playback URL

udp://@239.1.1.1:1234

Primary Category

Class

Subcategory

default

Group

☐ company

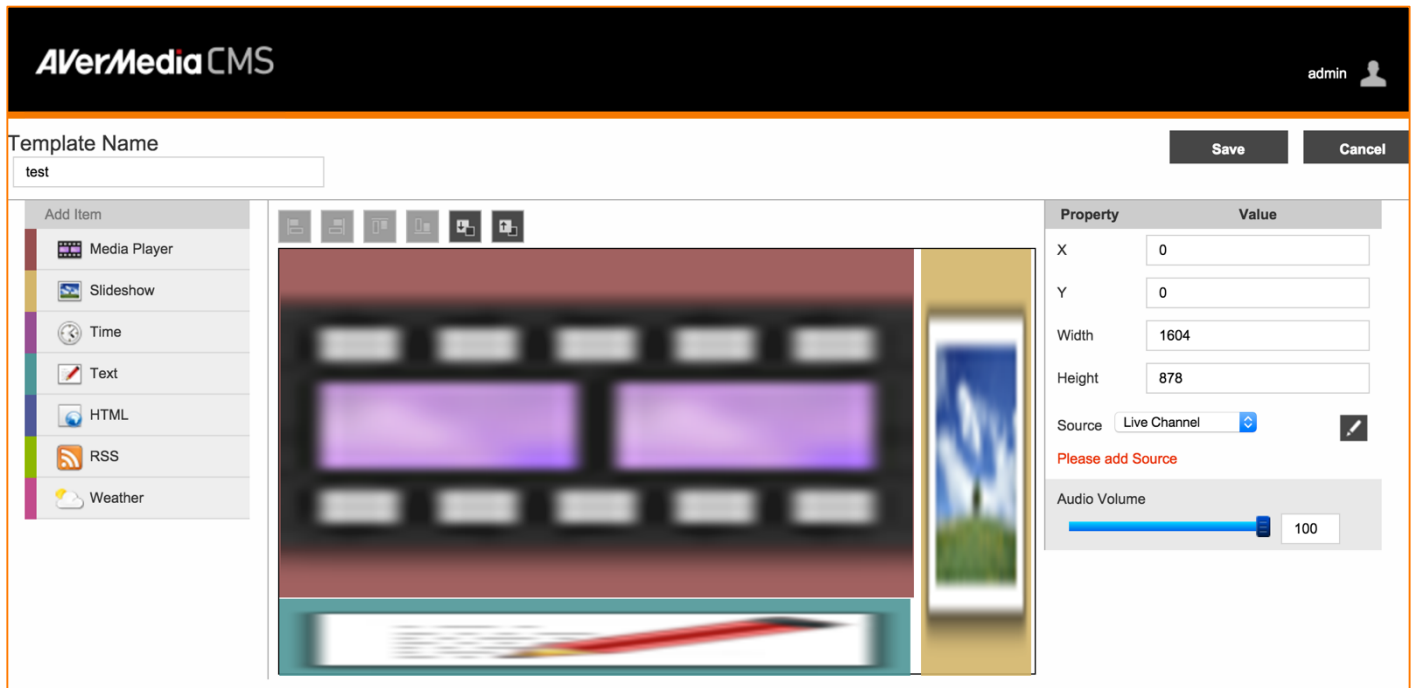
☒ Stadium 1

☒ Stadium 2

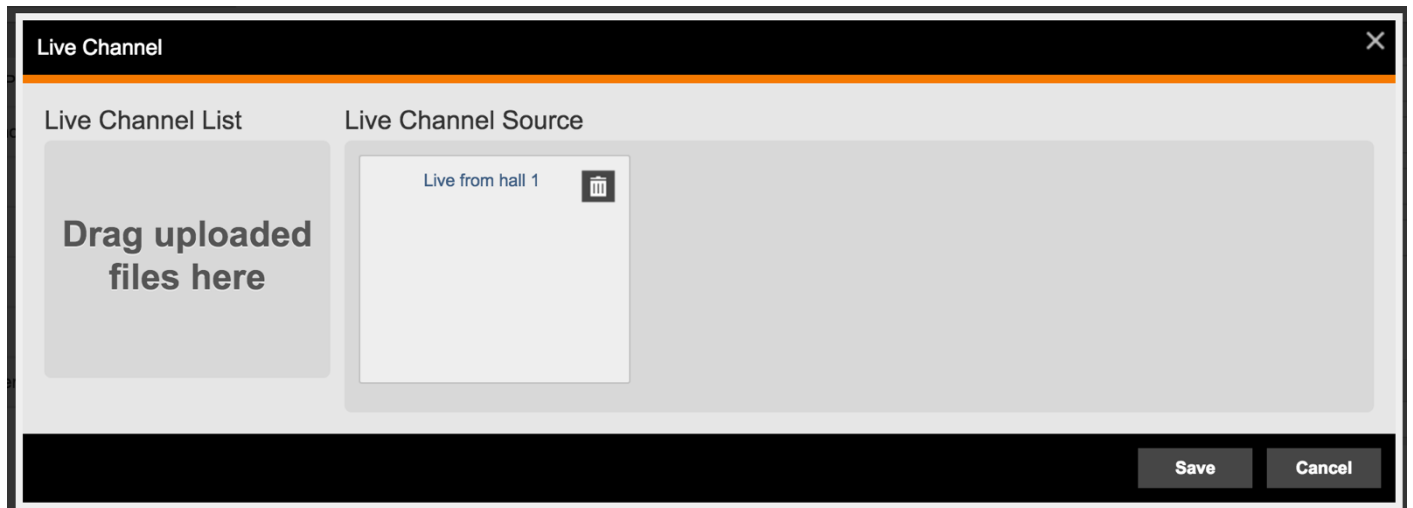
OK

Cancel

When editing a layout, add a “Media Player” item to the layout and select “Live Channel as the source.



Click the “Edit” icon and select one of the live channels.



Deploy this layout template to SR110 and SR310 so they have live video on the signage.

Streaming with TCP unicast (TS over TCP)

TCP is often used when the number of player/client is between 1 and 50, as long as the encoding bit rate multiplied by the number of player/client does not exceed 75 Mbps.

In “Configuration” tab, select “TS over TCP” and select a port number between 1024 and 65535.

The screenshot shows the AVerCaster HD Duet Plus Streaming Service Management interface. The top navigation bar includes tabs for Broadcast List, Configuration (selected), Encoding Profile, and Administration. The main area displays the Input Port 1-1 configuration for HDMI. The signal status is "Input not configured". Below this, the "Input Port 1-1" section shows the Audio Input set to HDMI. A table lists the stream configuration:

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		TS over TCP	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]		1234	

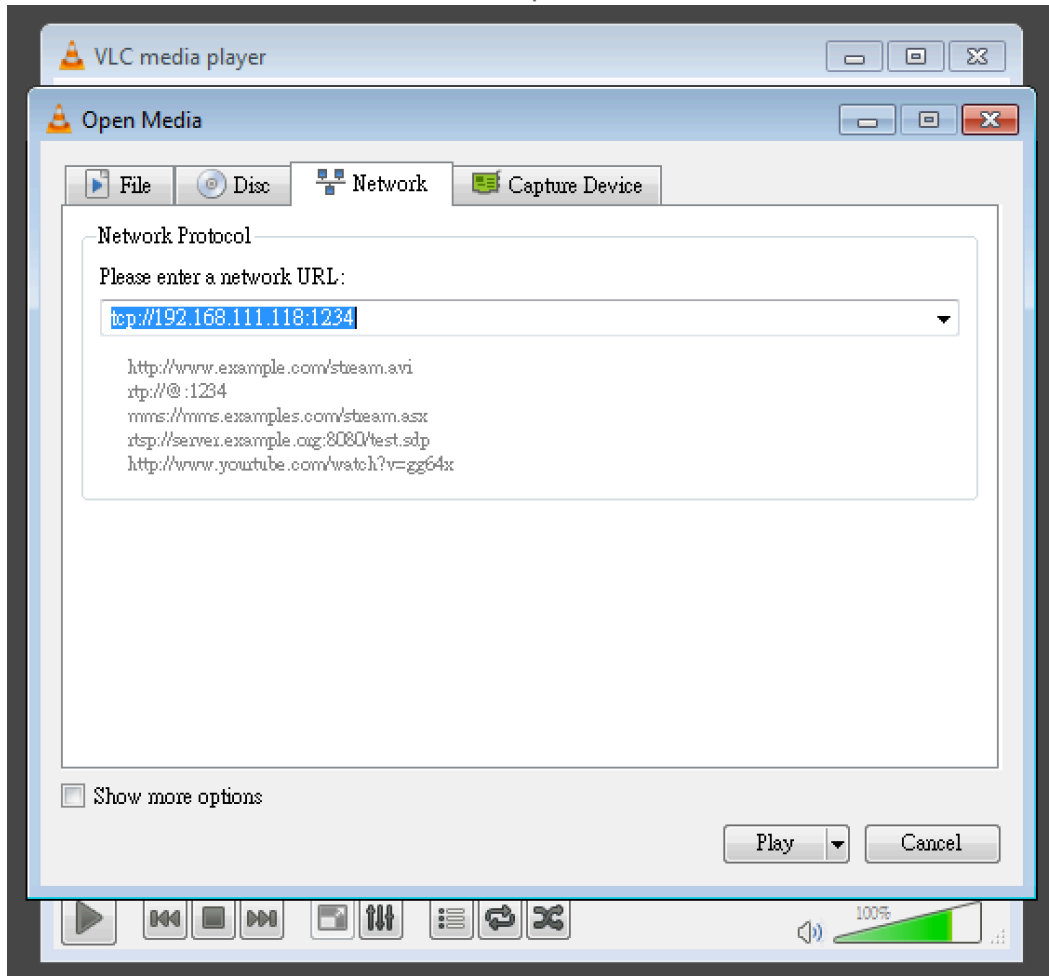
Additional settings for the stream include: Record (On/Off), Recording Quality (Maximum Picture Quality/Use Streaming Format), and Storage Path (with a Setting button). A checkbox for "Manually set PID" is also present.

After streaming started, the playback URL can be found at “Output Location” in “Broadcast List” tab.

The screenshot shows the AVerCaster HD Duet Plus Streaming Service Management interface with the Broadcast List tab selected. The main area displays the Input Port 1-1 configuration for HDMI. The signal status is "Streaming" and the input resolution is "1920 X 1080". Below this, the "Broadcast List" section shows a table with the stream configuration:

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	tcp://192.168.111.118:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

Enter this URL in VLC: “Media” → “Open Network Stream”



Streaming with UDP unicast (TS over UDP)

UDP unicast is often used to transport video content from one equipment to another, as a means to replace traditional SDI cables with network cables.

In this example we are sending video content to a computer with IP address **10.1.9.81**, on which we will use VLC to receive the streaming on **port 1234**.

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input: ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		TS over UDP	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	10.1.9.81	1234	10.1.9.227	▶ +

Record : ☐ On ☒ Off Recording Quality : ☒ Maximum Picture Quality ☐ Use Streaming Format Storage Path : [Setting](#)

☐ Manually set PID

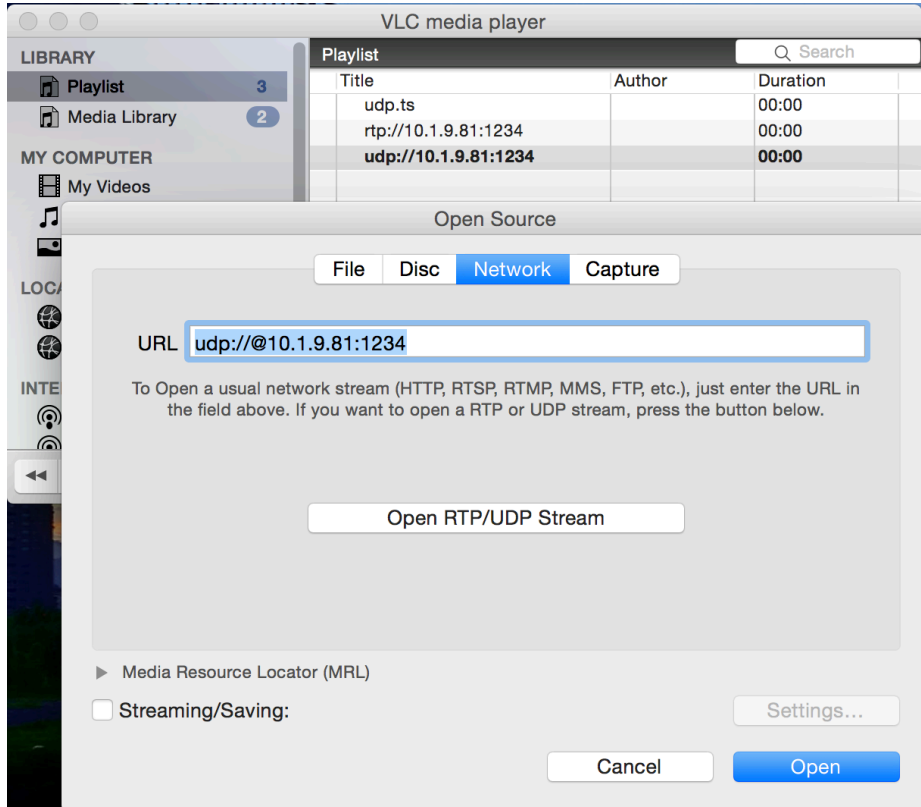
Streaming status can be monitored in “Broadcast List”

Input Port 1-1 HDMI
Signal Status : No input signal

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	udp://@10.1.9.81:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

On computer 10.1.9.81, use VLC's "Open Network" and enter the URL to receive streaming.



Streaming with RTP unicast (TS over RTP)

RTP (Realtime Transport Protocol) unicast is almost the same as UDP unicast in purpose, except the packets are enclosed with RTP headers.

In this example we are sending video content to a computer with IP address **10.1.9.81**, on which we will use VLC to receive the streaming from **port 1234**.

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input: ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		TS over RTP	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	10.1.9.81	1234	10.1.9.227

Record : ☐ On ☒ Off
Recording Quality : ☒ Maximum Picture Quality ☐ Use Streaming Format
Storage Path : [Setting](#)

☐ Manually set PID

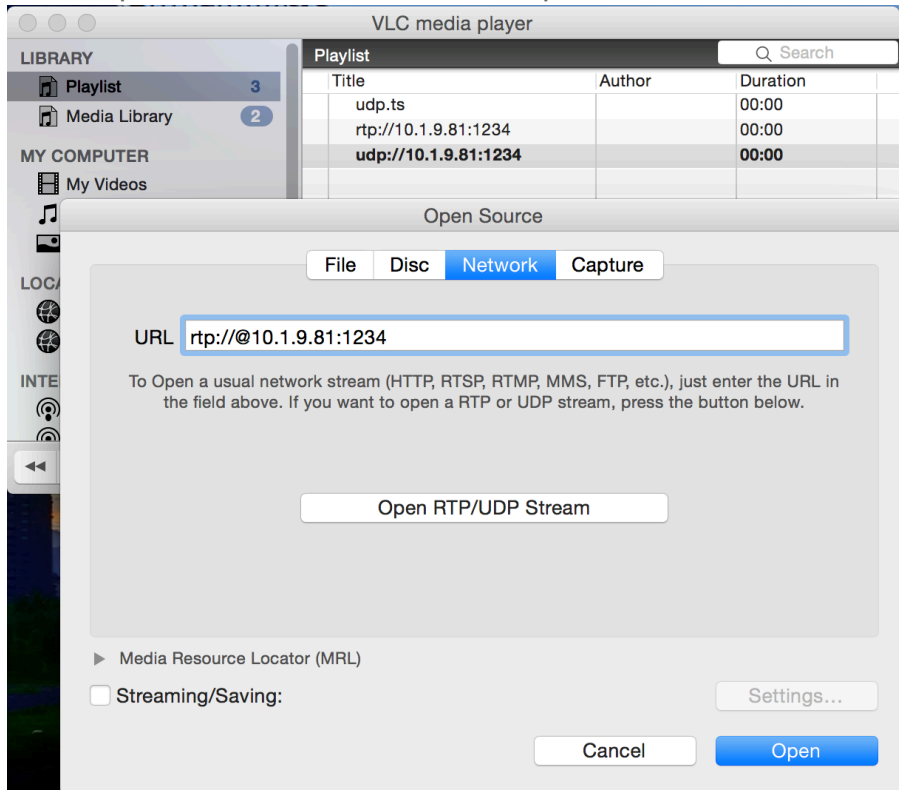
Streaming status can be monitored in “Broadcast List”

Input Port 1-1 HDMI
Signal Status : No input signal

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI	rtp://@10.1.9.81:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

On computer 10.1.9.81, use VLC's "Open Network" and enter the URL to receive streaming.



Streaming with TS RTP multicast

TS multicast is similar in purpose with TS multicast, except that RTP packets are used instead of only UDP packets. For the explanation of TTL & SAP fields, please refer to the sections on TS multicast.

In this example we multicast video content to the multicast group 239.0.0.1:1234.

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input: ☒ HDMI ☐ RCA

No.	Channel Name	Infomation	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI		TS RTP Multicast	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	239.0.0.1	1234	10.1.9.227	

Record : ☐ On ☒ Off
Recording Quality : ☒ Maximum Picture Quality ☐ Use Streaming Format
Storage Path : [Setting](#)

TTL : 64
SAP : ☒ Enable
☐ Manually set PID

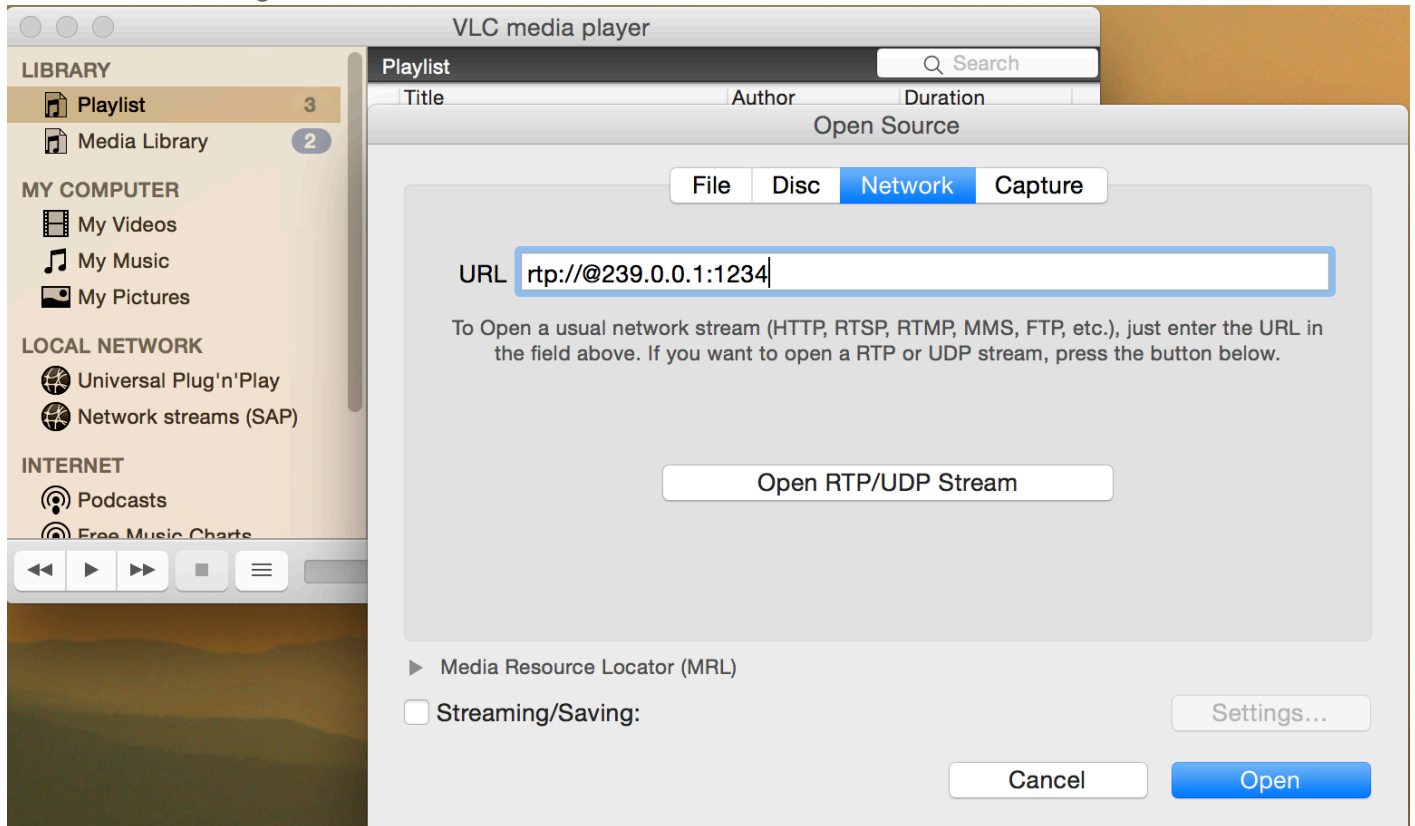
Monitor streaming in “Broadcast List”

Input Port 1-1 HDMI
Signal Status : Streaming
Input Resolution : 1280 X 720

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	TS RTP Multicast	rtsp://@239.0.0.1:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

Receive streaming VLC:



Streaming with HLS push

HLS (HTTP Live Streaming) is promoted by Apple and is growing in popularity because of its friendliness to network proxies and caching servers. This is from the fact that HTTP is used as the transport mechanism in HLS. In some applications it is easier to set up a web server with IIS or Apache, compared to efforts of deploying RTMP streaming server. The idea is for the encoder to push contents to the web server while player clients connect to this web server to receive content.

Setting up HLS push to web server in the “Configuration” tab

The screenshot shows the AVerCaster HD Duet Plus web interface. The top navigation bar includes 'Broadcast List', 'Configuration' (selected), 'Encoding Profile', and 'Administration'. The main area displays the 'Input Port 1-1 HDMI' configuration. The 'Signal Status' is 'Stop Streaming'. Below this, there's a table for configuring the stream.

No.	Channel Name	Infomation	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		HLS Push	H.264 Main Profile VBR 1280x720 [8.192 Mbps]			10.1.9.227

Below the table, there are configuration options for the selected stream:

- Record: ☐ On ☒ Off
- Recording Quality: ☒ Maximum Picture Quality ☐ Use Streaming Format
- Storage Path: [Setting](#)
- * "Number of Segments" multiply "Segment Duration" can not be less than 1500 and exceed 30000
- Number of Segments: Range 3~30
- Segment Duration: Range 500~10000 (ms)
- Push Location (URL): Required field, e.g. 10.1.9.5:8080
- Push location:
- Account:
- Password:

HLS delivers streaming with a playlist with file names ending ins “m3u8”, such as “index.m3u8”. The media itself is split into multiple segments of “*.ts” files, which are described in the playlist. The number of segments and duration of each segments can be configured to meet your needs.

Please note the range limits of number and duration of segments in the configuration page.

Setting up a web server to service HLS streaming is outside the scope of this document. Please refer to your web master or AVerMedia technical support Video.Solutions@avermedia.com.

Monitor streaming in the “Broadcast List” tab

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	http://10.1.9.155/upload	H.264 Main Profile VBR 1280x720 [8.192 Mbps]	Streaming...

Playback the streaming in VLC:

Open Source

File Disc **Network** Capture

URL

To Open a usual network stream (HTTP, RTSP, RTMP, MMS, FTP, etc.), just enter the URL in the field above. If you want to open a RTP or UDP stream, press the button below.

Media Resource Locator (MRL)

☐ Streaming/Saving:

Streaming with RTSP (available at firmware v1.11.x)

Starting with firmware version 1.11.x, RTSP over UDP streaming is supported. Select “RTSP” from the “Stream Type” drop-down menu and enter the maximum number of clients into “maxClient”,

port and URL.

Input Port 1-1 HDMI
Signal Status : Stop Streaming

Audio Input: ☒ HDMI ☐ RCA

No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		RTSP	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]		556	

Record : ☐ On ☒ Off
Recording Quality : ☒ Maximum Picture Quality ☐ Use Streaming Format
Storage Path : [Setting](#)
Segment Duration : 0 hours 0 minutes (Max: 2 hours)
maxClient : 1 (1~10)
URL: test.sdp ex:live/1001.sdp

It is recommended to keep the “maxClient” to 1 for most stable performance. With smaller encoding bit rates, you can experiment with this number.

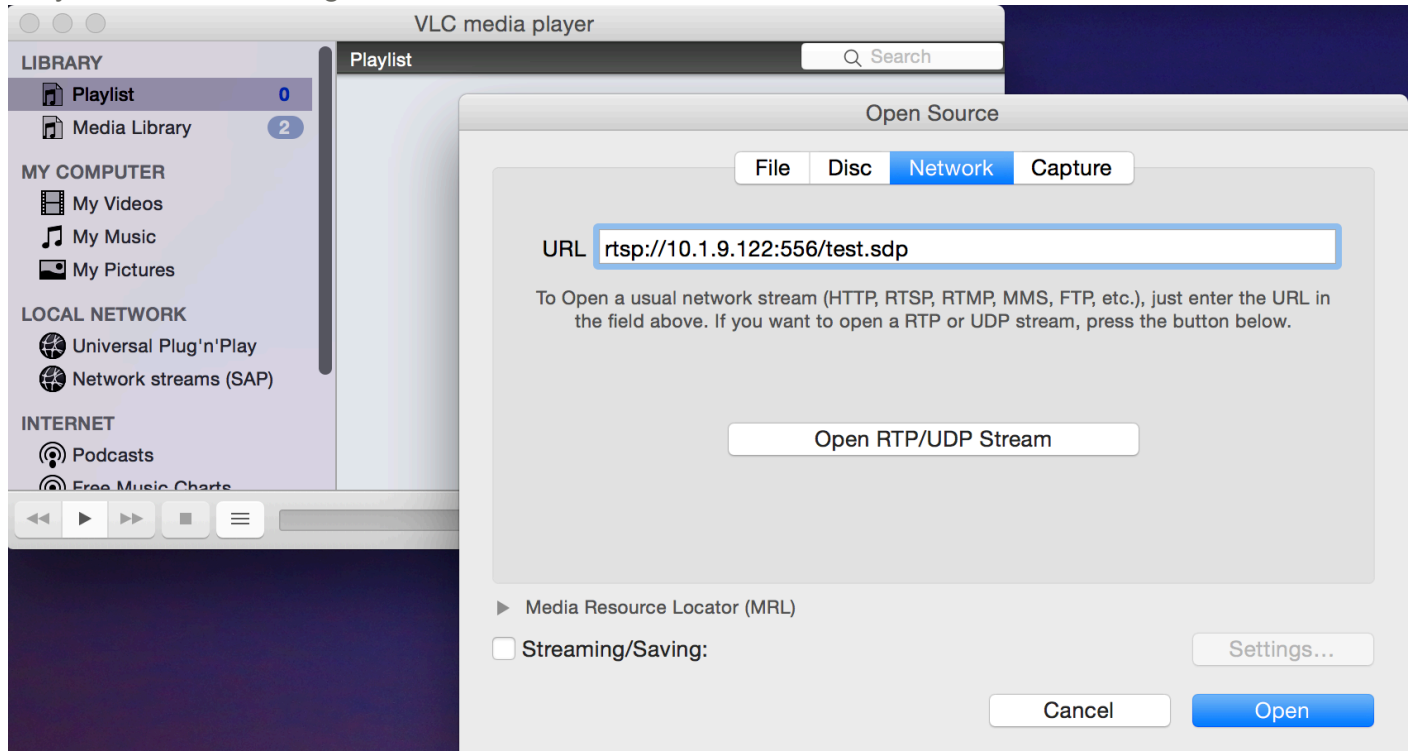
Monitor streaming in the “Broadcast List” tab

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	rtsp://10.1.9.122:556/test.sdp	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

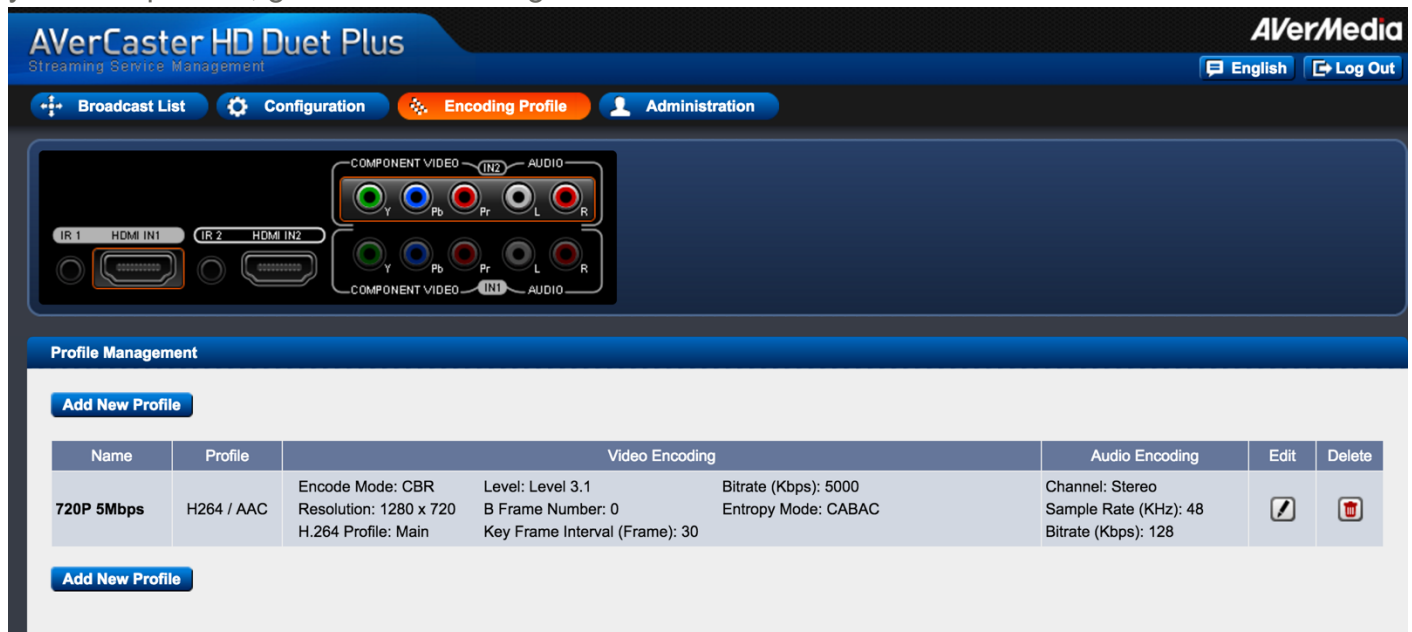
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Playback the streaming in VLC:



Customize encoding profile

The built-in encoding profiles are optimized for best video quality for most purposes. To customize your own profiles, go to the “Encoding Profile” tab. Click on “Add New Profile”.



Other than the names of the encoding profiles, you can “copy” one of the built-in profiles and make customizations. Not starting from scratch might save some time.

First select one of the profile categories:

Add New Profile

Name

Type name of profile here

Profile

✓ H.264 / AAC

H.264 / MPEG Audio

AAC Only

MPEG Audio Only

Reference Profile

Video Encoding

Encode Mode

VBR

Resolution

1920x1080

H.264 Profile

Main

Level

Level 4

Output ratio

Original ratio

Bitrate (Kbps)

Null Packet

Disable

Key Frame Interval (Frame)

Entropy Mode

CABAC

B Frame Number

0

Audio Encoding

Channel

Stereo

Sample Rate (KHz)

48

Encode Mode

MPEG2 AAC

Bitrate (Kbps)

64

Save

Cancel

And select one of the built-in profiles from “Reference Profile”

Add New Profile
X

Name
Type name of profile here

Profile
H.264 / AAC

Reference Profile

✓
AVerMedia CMS VBR (Suitable for Internet)
H.264 Main Profile VBR 1920x1080 [8.192 Mbps]
H.264 Main Profile VBR 1280x720 [4.192 Mbps]
H.264 Main Profile VBR 720x480 [2.192 Mbps]
AVerMedia CMS CBR (Suitable for Internet)
H.264 Main Profile CBR 1920x1080 [3.5 Mbps]
H.264 Main Profile CBR 1280x720 [2.628 Mbps]
H.264 Main Profile CBR 720x480 [1.328 Mbps]
Justin.tv/Twitch
H.264 Main Profile CBR 1920x1080 [3.5 Mbps]
H.264 Main Profile CBR 1280x720 [2.5 Mbps]
H.264 Main Profile CBR 720x480 [1.2 Mbps]
UStream
H.264 Main Profile CBR 1280x720 [2.0 Mbps]
H.264 Main Profile CBR 960x540 [1.5 Mbps]
H.264 Main Profile CBR 640x360 [1.2 Mbps]
Basic Quality (Suitable for Low Bandwidth)
H.264 Main Profile VBR 480x360 [764 Kbps]
H.264 Main Profile VBR 320x240 [464 Kbps]
Medium Quality
H.264 Main Profile VBR 720x576 [2.528 Mbps]
H.264 Main Profile VBR 720x480 [1.928 Mbps]
H.264 Main Profile VBR 640x480 [1.264 Mbps]
High Quality
H.264 Main Profile VBR 1920x1080 [3.628 Mbps]
H.264 Main Profile VBR 1280x720 [2.728 Mbps]
Optimal Quality (Suitable for High Bandwidth)
H.264 Main Profile VBR 1920x1080 [11.192 Mbps]
H.264 Main Profile VBR 1280x720 [8.192 Mbps]
H.264 Main Profile VBR 720x480 [4.692 Mbps]

Video Encoding

Encode Mode

Resolution

H.264 Profile

Level

Output ratio

Audio Encoding

Channel

Sample Rate (KHz)

You may freely change the encoding parameters to suit your need

Add New Profile

Name

1080P 3Mbps

Profile

H.264 / AAC

Reference Profile

H.264 Main Profile VBR 1920x1080 [8.192 Mbps]

Video Encoding

Encode Mode

VBR

Bitrate (Kbps)

3000

Resolution

1920x1080

Null Packet

Disable

H.264 Profile

Main

Key Frame Interval (Frame)

30

Level

Level 4

Entropy Mode

CABAC

Output ratio

Original ratio

B Frame Number

0

Audio Encoding

Channel

Stereo

Encode Mode

MPEG2 AAC

Sample Rate (KHz)

48

Bitrate (Kbps)

192

Save

Cancel

Encode Mode

VBR (Variable Bit Rate) optimizes towards video quality. The bit rate will fluctuate quite considerably, up to 2 times of the target bit rate in the case of F239+. This is recommended if video quality is of concern.

CBR (Constant Bit Rate) strives to keep the bit rate constant and very close to the target bit rate. In doing so, it does not optimize video quality as VBR does. This is recommended on Internet streaming to YouTube Live, Ustream, and other service providers on the Internet.

Resolution

F239+ provides down-scaling of video from 1920x1080 to 320x240. Upscale is NOT recommended and will often result in video quality issues.

H.264 Profile

Main/high/base line profiles are supported.

Level

Use different levels to support other video resolutions and bit rates.

Output Ratio

Use “Original ratio” to keep aspect ratio the same as the video input. Use “16:9” or “4:3” to specify the aspect ratio.

Bit rate

Enter target bit rate here in units of Kbit per second. The ranges of limits are as follows.

VBR Bit rate range

Output video resolution	Lowest bit rate (Kbps)	Highest bit rate (Kbps)
1920x1080	1,200	15,000
1280x720	900	15,000
960x540	900	10,000
720x576	500	10,000
720x480	500	10,000
640x480	500	10,000
640x360	500	10,000
480x360	400	10,000
320x240	200	10,000

CBR Bit rate range

Output video resolution	Lowest bit rate (Kbps)	Highest bit rate (Kbps)
1920x1080	2,000	15,000
1280x720	1,400	15,000
960x540	1,400	10,000
720x576	700	10,000
720x480	700	10,000
640x480	700	10,000
640x360	700	10,000
480x360	550	10,000
320x240	400	10,000

Null Packet

Some streaming equipment will need null packet to keep bit rate fluctuations small. Enable this feature if the receiving equipment needs this.

Key Frame Interval

This number decides the length of one GOP structure, and is also called “GOP length”. A value of 30 means there is one I frame or key frame in every 30 video frames. Setting this too low will negatively impact video quality.

B Frame Number

Set to “0” to make GOP structure to “IPPP”, where there is no B frames at all. Set to “1” to make GOP structure to “IBP”. Set to “2” to make GOP structure to “IBBP”.

Entropy Mode

CABAC is commonly used for its better performance in video quality. Use CAVLC if you select “base line” in H.264 profile.

Channel

Output audio can be stereo or mono.

Sample Rate

Audio sample rate is fixed to 48 KHz on F239+.

Encode Mode

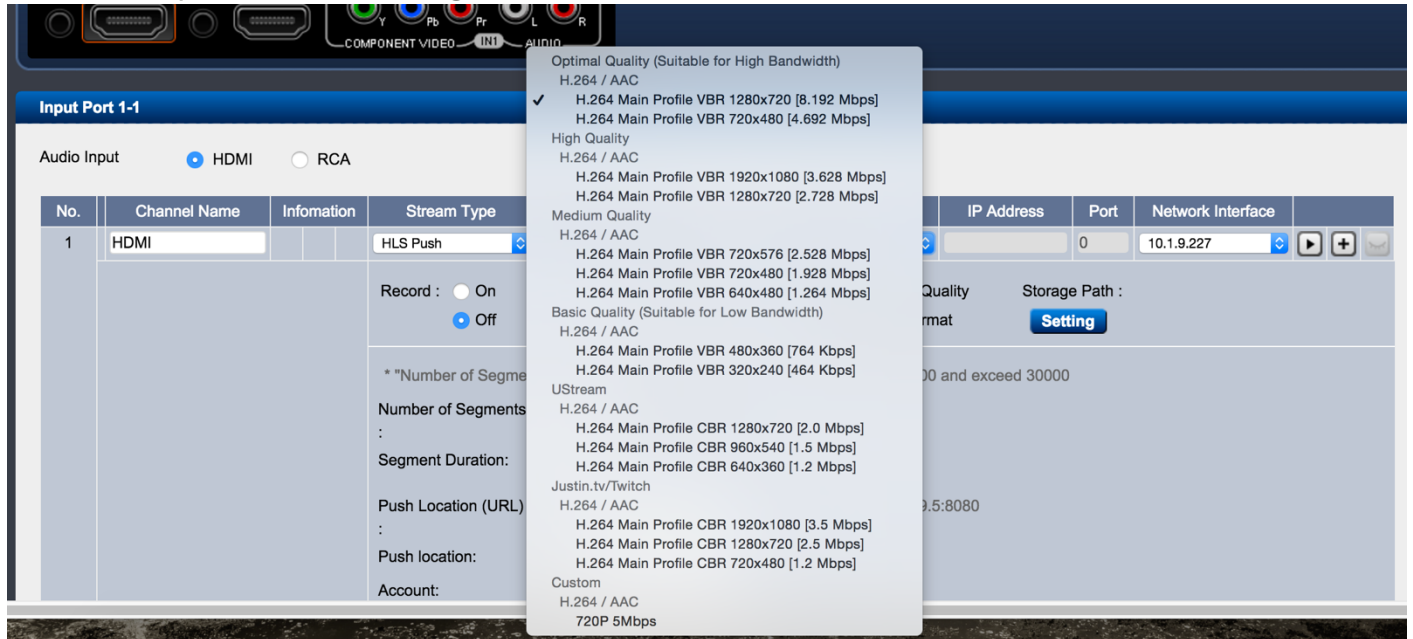
This is not changeable and depends on the profile types you selected. F239+ can encode audio to AAC or MPEG-1 layer 2.

(Audio) Bit rate

Select desired audio bit rate in Kbps. The higher the bit rate the better the sound quality.

Apply customized encoding profile

Customized profiles are listed at the end of selection. Just select in “Configuration” tab to apply customized profiles to streaming.



Administration

Other settings not directly related to streaming can be found and changed in the “Administration” tab.

AVerCaster HD Duet Plus
Streaming Service Management

English Log Out

Broadcast List Configuration Encoding Profile **Administration**

COMPONENT VIDEO IN2 AUDIO
Y Pb Pr L R
Y Pb Pr L R
COMPONENT VIDEO IN1 AUDIO

Basic Information

Device Name F239-demo

Firmware Version 1.10.5

AVerMedia CMS Server Settings

AVerMedia CMS Server must be enabled for AVerReceiver 110 to receive contents streamed from this device. (Requires AVerReceiver 110.)

Enable

Edit Account

Enter account.

Enter new account.

Enter new account again. OK

Edit Password

Enter password.

Enter new password.

Enter new password again. OK

Backup / Restore Configuration Network Settings

Basic Information

Device name can be changed to clearly identify each F239+ apart. Firmware version is also found here.

Basic Information

Device Name F239-demo

Firmware Version 1.10.5

Edit Account and Password

Change the name of the account and password to better protect F239+ from unauthorized access.

Edit Account

Enter account.

Enter new account.

Enter new account again. OK

Edit Password

Enter password.

Enter new password.

Enter new password again. OK

Network Settings

F239+ supports static network settings and also automatic settings. In case of automatic assignment, if F239+ fails to reach a DHCP server, it will randomly select one IP form 169.254.*.*, according to RFC3927 “Dynamic Configuration of IPv4 Link-local addresses”.

Network Settings

Network Interface

LAN A 10.1.9.227

☐ Obtain an IP address automatically

☒ Manually set IP address

IP Address

10 . 1 . 9 . 227

Subnet Mask

255 . 255 . 255 . 0

Default Gateway

10 . 1 . 9 . 254

☐ Auto obtain DNS server address

☒ Manually set DNS server address

Primary DNS Server

10 . 1 . 1 . 55

Secondary DNS Server

10 . 1 . 1 . 57

OK

There are 2 network interfaces available for configuration on F239+: LAN A and LAN B. If the cable is not connected, the IP address shows “0.0.0.0”.

Network Settings

Network Interface

LAN B 0.0.0.0

☒ Obtain an IP address automatically
 ☐ Manually set IP address

IP Address

0 . 0 . 0 . 0

Subnet Mask

0 . 0 . 0 . 0

Default Gateway

.

☒ Auto obtain DNS server address
 ☐ Manually set DNS server address

Primary DNS Server

192 . 168 . 111 . 1

Secondary DNS Server

.

OK

Backup / Restore Configuration

Saving settings of F239+ to local files for backup and restore purposes. **Please note that backup files cannot be used between different versions of F239+ firmware.**

Backup / Restore Configuration

Backup Settings: Settings are stored in a computer

Save

Restore Settings:

Choose file

No file chosen

Submit

68

F239+ User Manual

Time Settings

Correct date and time is recommended in record and streaming applications. You can adjust the date, time and time zone in this setting.

The screenshot displays the 'Time Settings' interface. On the left is a summary panel with a blue header 'Time Settings'. Below the header, it states 'The current system time : 2016/01/21 07:23:40 AM' and includes an 'Edit' button. On the right is a detailed configuration dialog titled 'Time Settings' with a close button 'X'. This dialog contains three sections: 'Time Zone' with a dropdown menu set to '(GMT+08:00) Taipei'; 'Date' with a calendar for January 2016 where the 21st is selected; and 'Time (hours:minutes:seconds)' with three spinners set to 7, 23, and 41 respectively. At the bottom of the dialog are 'Save and Restart' and 'Cancel' buttons.

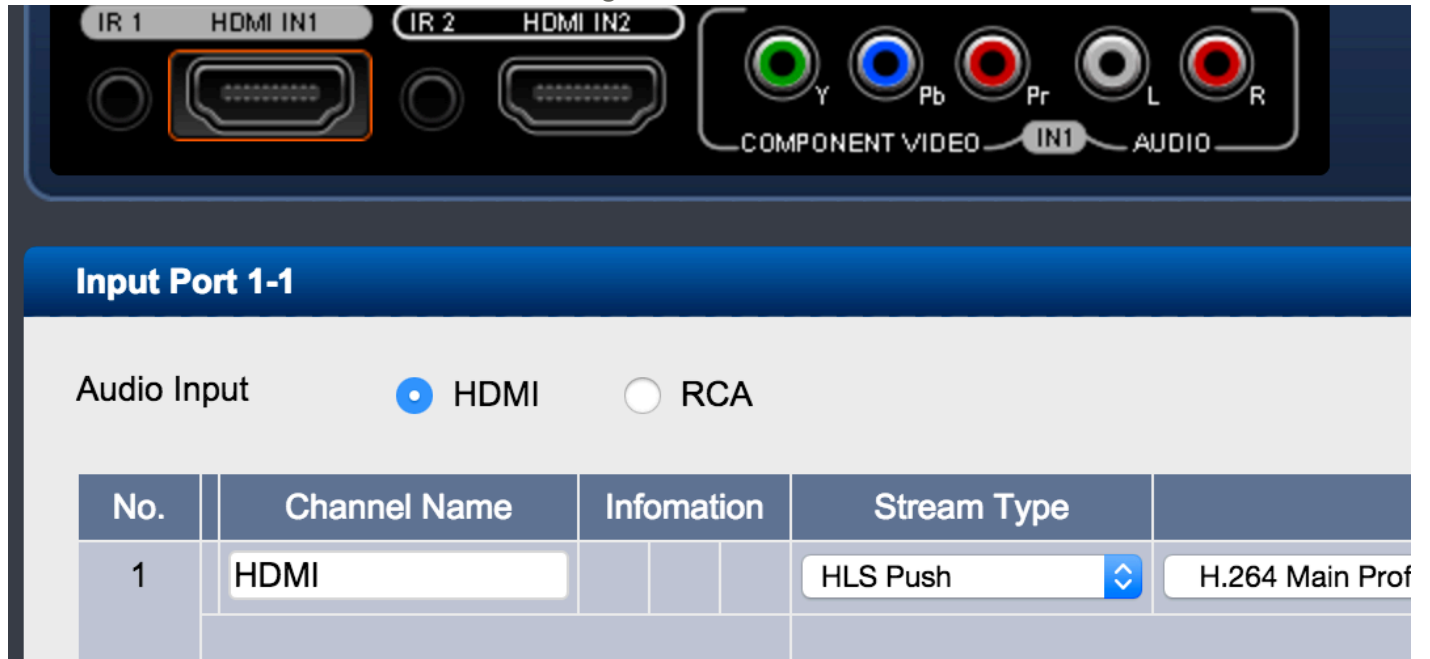
SAP Group Settings

When streaming to TS multicast or RTP multicast, F239+ will broadcast program information using SAP (Session Announcement Protocol). Player clients that support SAP, such as VLC, can pick up this information as a kind of electronic program guide for easier navigation between the broadcast programs.

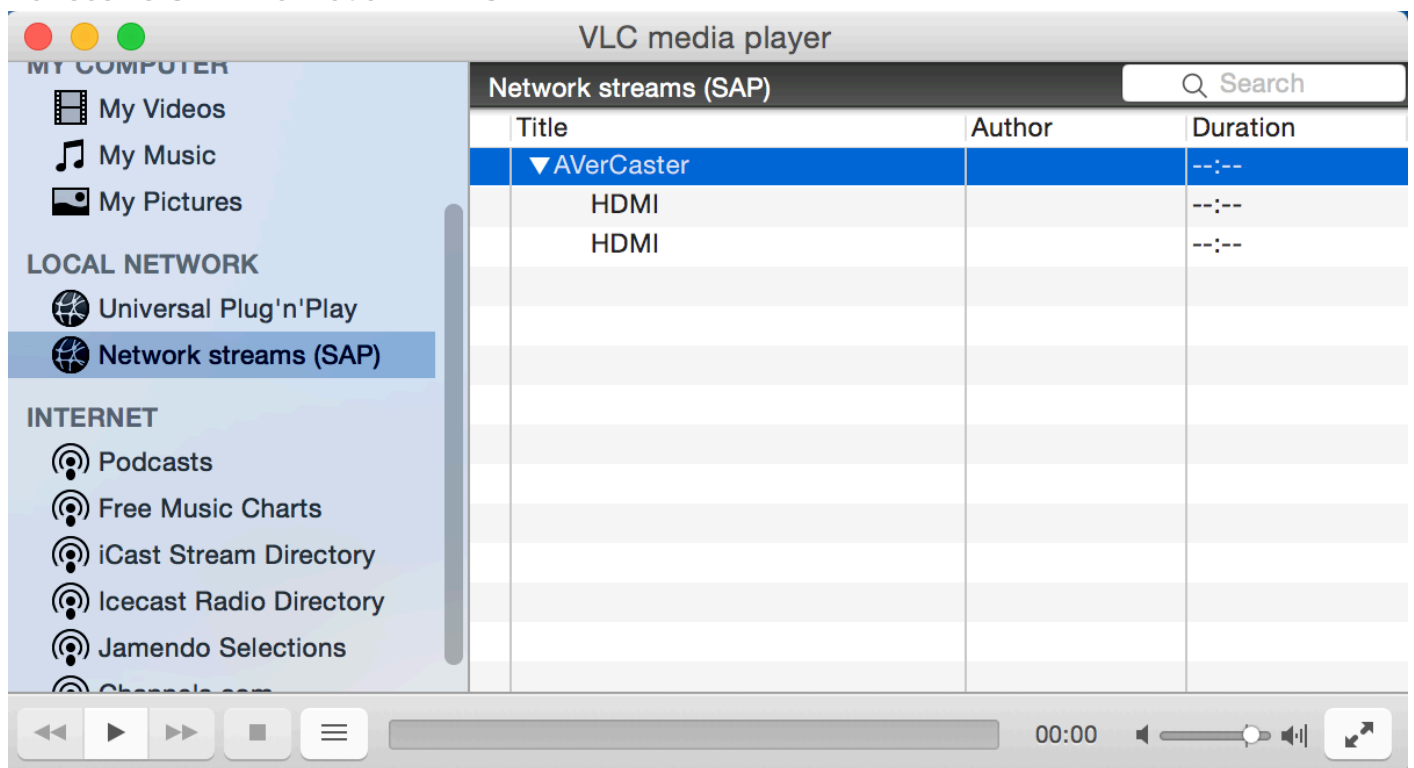
Group name of SAP can be changed in this setting. Default is "AVerCaster".

The screenshot shows the 'SAP Group Settings' dialog box. It has a blue header with the title 'SAP Group Settings'. Below the header, there is a label 'Group Name :' followed by a text input field containing 'AVerCaster'. To the right of the input field is an 'OK' button.

Each channel name is edited in the “Configuration” tab



To receive SAP information in VLC



Automatic Reboot Settings

For maintenance purposes, F239+ can restart in scheduled day intervals at specified hour of day. Please note that after a power-down or power-cycle, the reboot timer will reset. For example, if F239+ is set to restart every 2 days and is power-cycled at the end of the first day, next restart will occur 2 days after the power-cycle.

Automatic Reboot Settings

Every Day At Reboot

☒ Enable ☐ Disable

OK

IR Blaster

F239+ provides 2 IR blaster channels, so you can send IR control signals to set-top boxes or PTZ cameras while receiving video from the HDMI port. Built-in are some IR profiles for set-top boxes. If your set-top box is not supported in the built-in IR profile, please contact our technical support at Video.Solutions@AVerMedia.com.

At the “Administration” tab, select the IR profile from “Disabled” to one of the supported set-top boxes.

IR Blaster Settings

Choose file No file chosen Import

No.	Name
1	AVerMedia-O272
2	BBBroadband
3	BP310/KR
4	CHT-MOD205

Select profile

IR 1 ☒ Disable

IR 2 ☐ AVerMedia-O272

☐ BBBroadband

☐ BP310/KR

☐ CHT-MOD205

☐ CHT-MOD206

☐ CHT-MOD303

☐ CHT-MOD304

☐ Cisco 8472DVB

☐ DCT-6200/2005

☐ H23-600

☐ KBroBroadband

☐ M1P5000

Apply

SAP C

Group

OK

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In this example, we select “CHT-MOD304”, which is a set-top box from one of Taiwan’s operators.

IR Blaster Settings

No.	Name
1	AVerMedia-O272
2	BBBbroadband
3	BP310/KR
4	CHT-MOD205

Select profile

IR 1

IR 2

After streaming started, in the “Broadcast List” tab click the “preview” button which looks like a closed eye and bring up the preview window.

AVerCaster HD Duet Plus

Streaming Service Management

English Log Out

Broadcast List Configuration Encoding Profile Administration

IR 1 HDMI IN1

IR 2 HDMI IN2

COMPONENT VIDEO IN2 AUDIO

COMPONENT VIDEO IN1 AUDIO

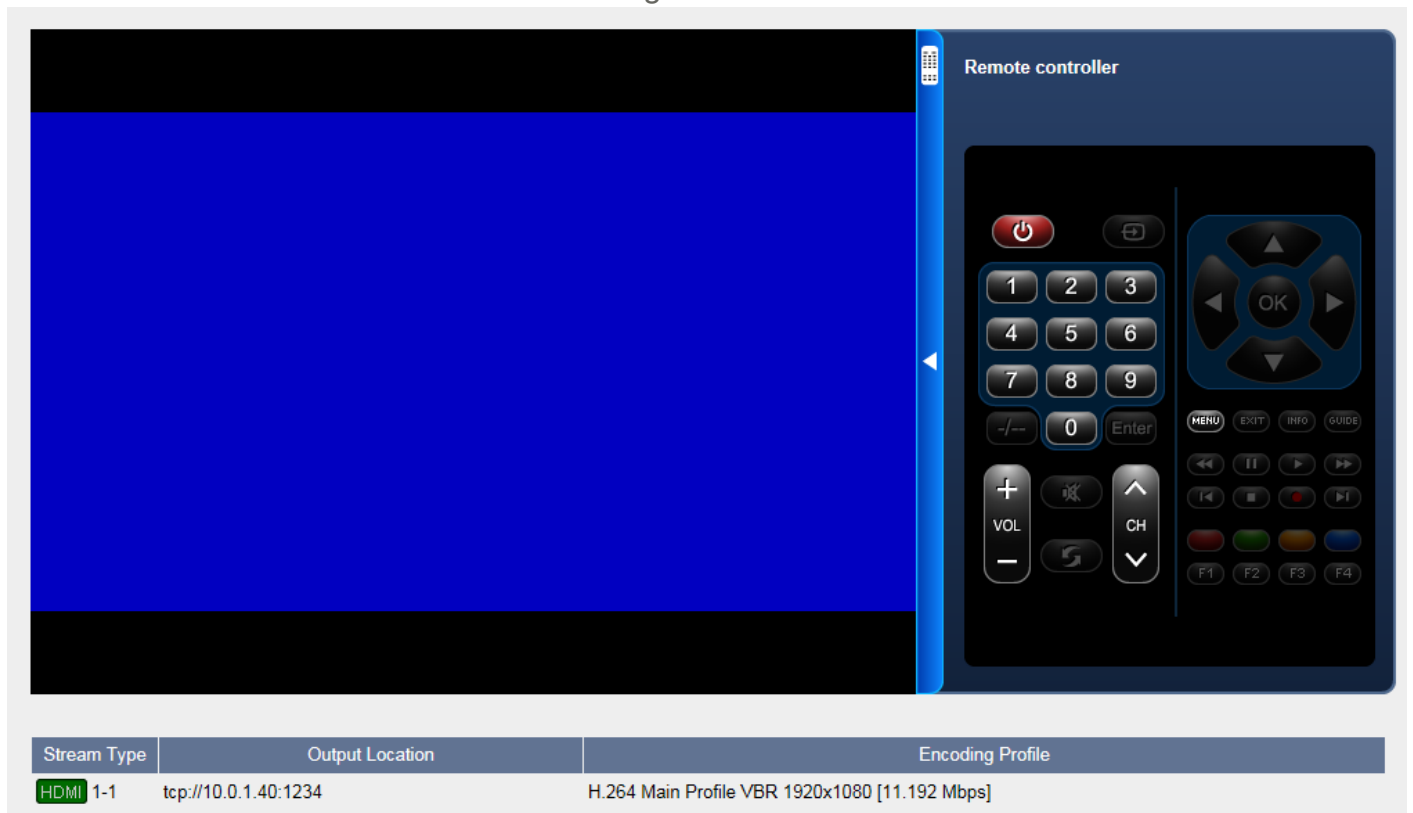
Input Port 1-1 HDMI
Signal Status : No input signal

Broadcast List

No.	Channel Name	Stream Type	Output Location	Encoding Profile	Streaming status
1	HDMI	HDMI 1-1	tcp://10.0.1.40:1234	H.264 Main Profile VBR 1920x1080 [11.192 Mbps]	Streaming...

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On the right edge of the preview window is a blue bar with a remote control icon at the top and an arrow icon in the middle. Click this bar to bring out the remote control window.



Click with your mouse on any of the buttons, as you would on a real remote control, to send IR signals. This is how you control the changing of channel or volumes of your set-top boxes.

Open Source Information

Module name: uClibc

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Module name: curl

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Module name: zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

*/

Module name: gettext

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Module name: glib

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Module name: gst-plugins-good

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Module name: busybox

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Module name: mtd-utils

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Module name: openl2tpd

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Module name: thttpd

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