

AVerCaster SE5820 (F239 Series)

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.

NexStream

Installation of NexStream

AVerCaster SE5820 by default assigns IP addresses using DHCP. If no DHCP server is available, SE5820 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 SE5820 is a good practice.

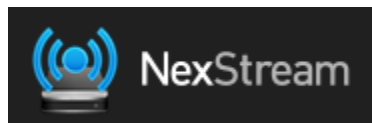
Either way, NexStream is the application you need to discover the IP address of SE5820 in your local area network. Please note that NexStream cannot locate SE5820 across network segments between which no multicast traffic is routed. Locating our products across the Internet is **NOT** supported.

Step 1: Install your SE5820

Before using your SE5820, make sure the device is properly connected and powered-on. Please refer to the Quick Installation Guide in the package for hardware installation. To make sure the traffic of streaming is not blocked, turn off your firewall or security programs beforehand.

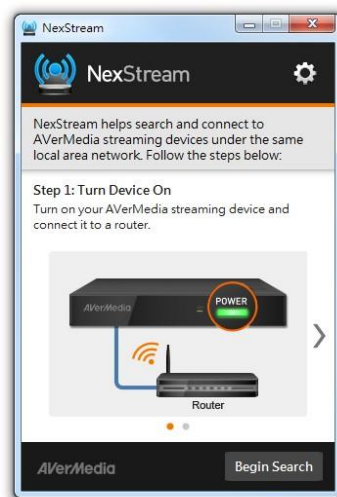
Step 2: Install NexStream

Before streaming, download NexStream from our webpage [here](#) and install it on a PC to set up your SE5820.



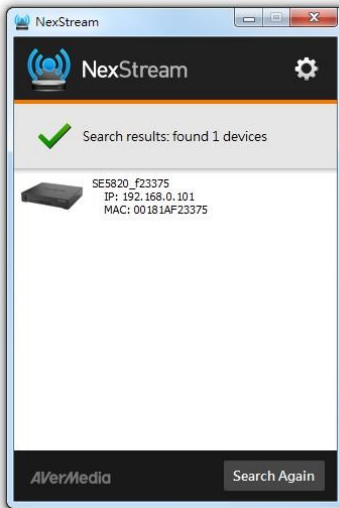
Step 3: Detect your SE5820

Run NexStream and click “Begin Search” to find your SE5820. Your PC and SE5820 must be under the same local area network.

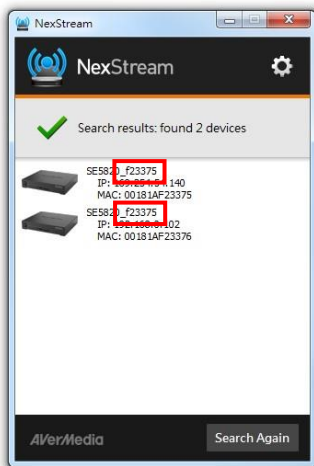


Step 4: Log in to NexStream

After your SE5820 is found, click on the IP address to enter AVerCaster Streaming Service Management login page. When the login page appears, enter the account name and password. (Default: admin / admin)



Note 1: Two devices with the same ID number (last 6 digits of MAC) will appear when both LAN ports are connected to a router.



Note 2: If multiple SE5820s are used, you can tell them apart by their MAC address stickers located at the bottom of the devices.



Management Web Page

After logging in to the management web page, you will see five tabs at the top of screen: Broadcast List, Configuration, Encoding Profile and Administration. You will also see Output 1 and Output 2 which allow you to broadcast two different live streams independently.

Broadcast List

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 shows the AVerCaster Management Web Page interface. At the top, there is a navigation bar with the following elements:

- Logo: AVerCaster Streaming Service Management
- Language: English
- Actions: Hand over control, Reboot, Log Out
- Current Bitrate: Total Bitrate Ceiling (Grand Total / max) : 17.61 / 20 Mbps
- Navigation Tabs: Broadcast List (selected), Configuration, Encoding Profile, Administration

The main content area is divided into two sections: Output 1 and Output 2.

Output 1 Summary:

- Output 1 PIP
- HDMI 1: Resolution : 1920x1080, Frame Rate : 59 p
- HDMI 2: Resolution : 1920x1080, Frame Rate : 60 p

Output 1 Table:

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1 HDMI 2	tcp://192.168.0.100:1234	H.265 Main Profile VBR 1920x1080p60 [11.256 Mbps]	Streaming...	
2	HDMI 1 HDMI 2	tcp://192.168.0.100:1233	H.264 Main Profile VBR 1280x720p60 [2.728 Mbps]	Streaming...	

Output 2 Summary:

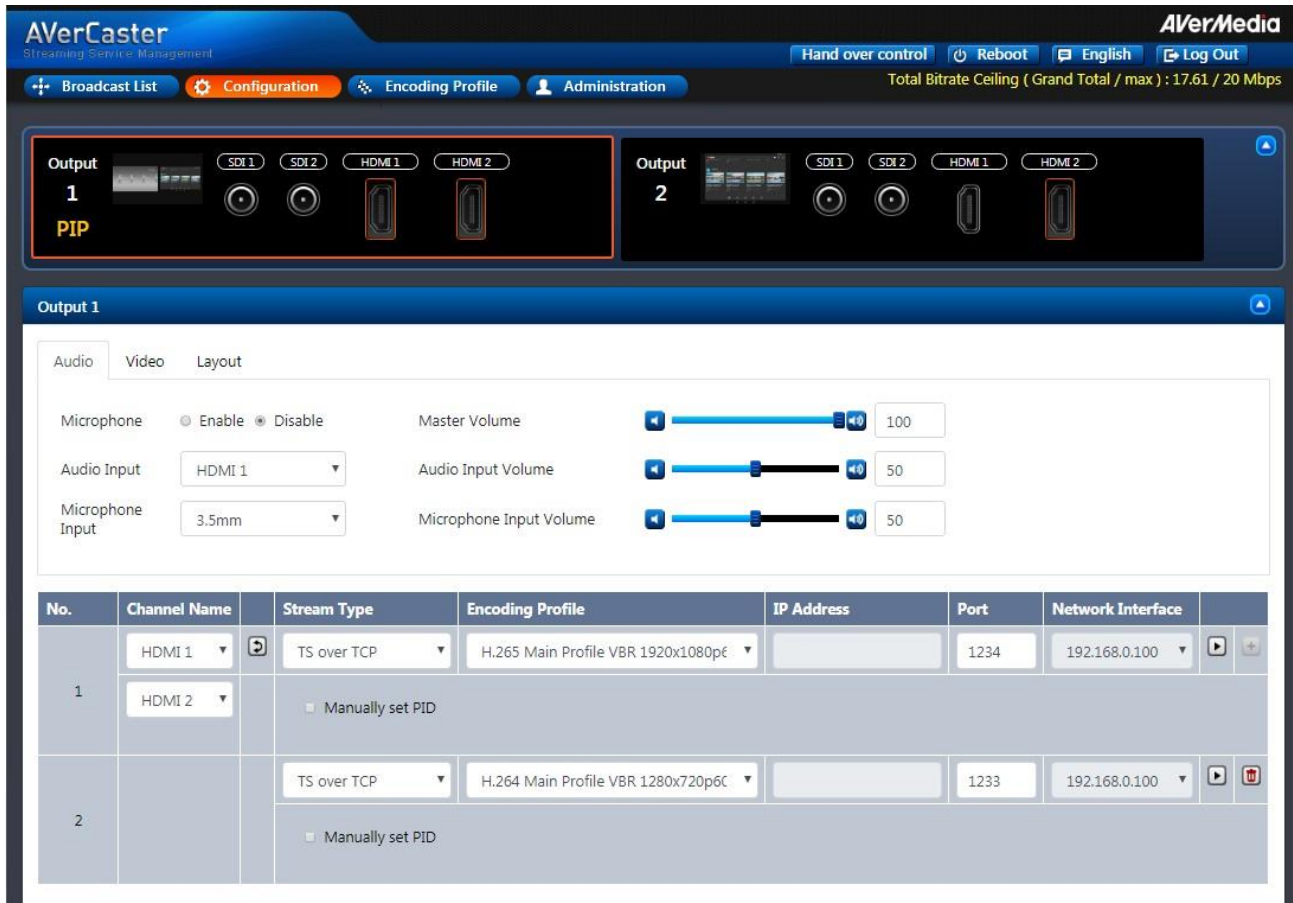
- Output 2 PIP
- HDMI 2: Resolution : 1920x1080, Frame Rate : 60 p
- HDMI 1: Resolution : 1920x1080, Frame Rate : 59 p

Output 2 Table:

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 2 HDMI 1	udp://@192.168.1.0:1235	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Activating...	

Configuration

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






Below the highlighted Configuration tab are the input selection icons, which resemble the connectors in the back of SE5820. 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 2” icon and turning it green, which corresponds to the 2nd HDMI port which is connected to a 1920x1080 tablet. You’ll also see a live thumbnail showing the source content for your convenient.



Below is the status of the input selection icon in different colors:

Icon Color	Status
	Not Selected
	Selected with Source
	Selected without Source

Here’s another example, after clicking the “HDMI 1” icon and turning it green, which corresponds to the 1st HDMI port, a live thumbnail will appear showing source content.



When HDMI 1 and HDMI 2 icons (or any two icons) are selected, you’ll see “PIP” appears and the Layout tab in Output 1 becomes available.



You can adjust various audio sources such as Microphone, Audio Input, and Master Volume separately in the Audio tab. Given the SE5820’s support of MIC and XLR audio input, go to Microphone Input setting under Output 1, and you can mix in live commentary using a 3.5mm or

XLR microphone.

Output 1

Audio Video Layout

Microphone Enable Disable Master Volume 100

Audio Input 3.5mm Audio Input Volume 50

Microphone Input XLR 3.5mm XLR Microphone Input Volume 50

Note: Output 2 does not support XLR MIC, MIC, or Audio Mixer functions.

In the Video tab, settings like Brightness, Contrast, Hue, and Saturation can also be adjusted.

Output 1

Audio Video Layout

Brightness 0

Contrast 100

Hue 0

Saturation 100

Default

Encoding Profile

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

AVerCaster Streaming Service Management AVerMedia

Hand over control Reboot English Log Out

Broadcast List Configuration Encoding Profile Administration

Profile Management

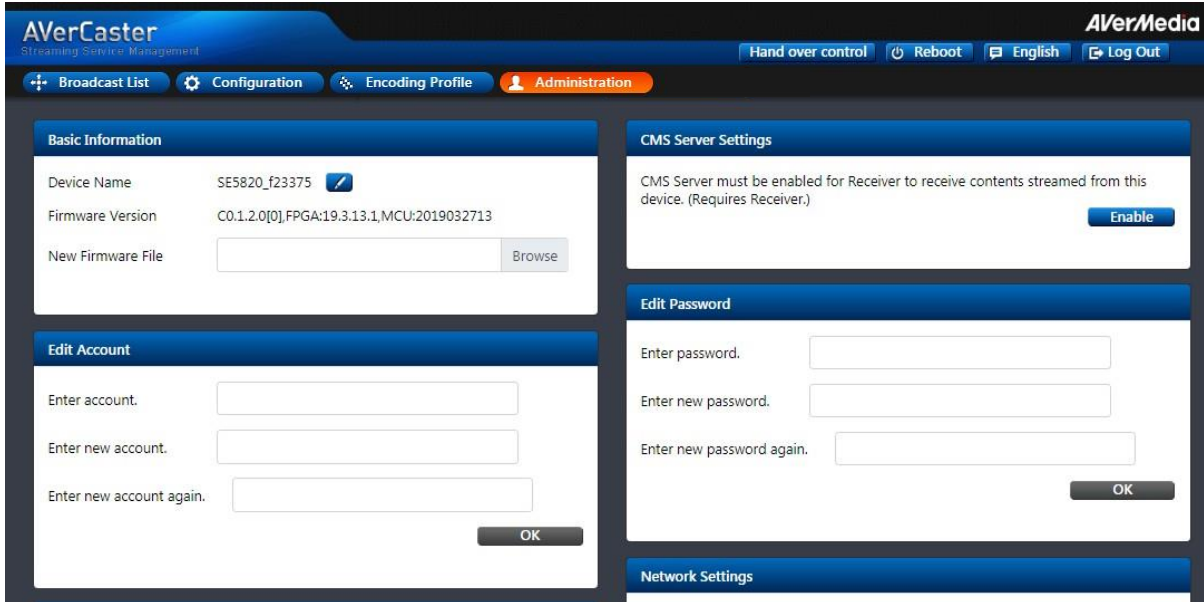
Add New Profile

Name	Profile	Video Encoding	Audio Encoding	Edit	Delete	
720P 8Mbps	H.265/AAC	Resolution : 1280x720 Profile : Main Entropy Mode : CABAC	Bitrate (Kbps) : 8000 Encode Mode : VBR Frame Rate : 60	Channel : Stereo Sample Rate (KHz) : 48000 Bitrate (Kbps) : 256		

Add New Profile

Administration

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



On the upper right hand side you will see more functions such as Hand Over Control, Reboot, English (Language) and Log Out.



Hand Over Control

SE5820 can be controlled using the included remote control. Click “Hand over control” to start using the remote control. Click “Unlock” if you want your PC to resume control. For more details on the remote control, please refer to the AVerCaster SE5820 Quick Guide.



Remote controller

 1. You have handed over the device's control to the remote control. If you want the control back to PC, click Unlock.
2. Press F5 to update to the latest information.

[unlock](#)

Reboot

Click “Reboot” to restart your SE5820 manually. For details on resetting it back to factory default, please refer to the AVerCaster SE5820 Quick Guide.

AVerCaster
Streaming Service Management

Hand over control **Reboot** English Log Out

Broadcast List Configuration Encoding Profile Administration

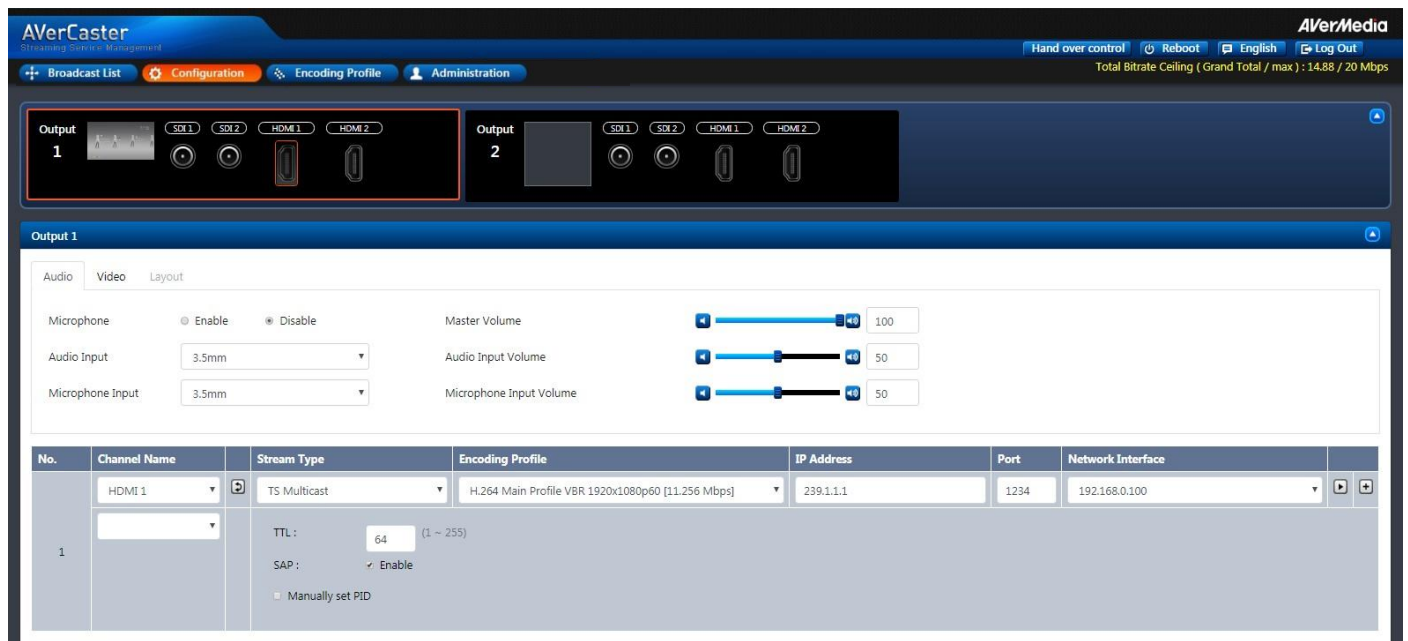
Setting up Streaming

Streaming with TS Multicast (UDP Multicast)

TS 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 players and clients grow.

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 similar to 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.

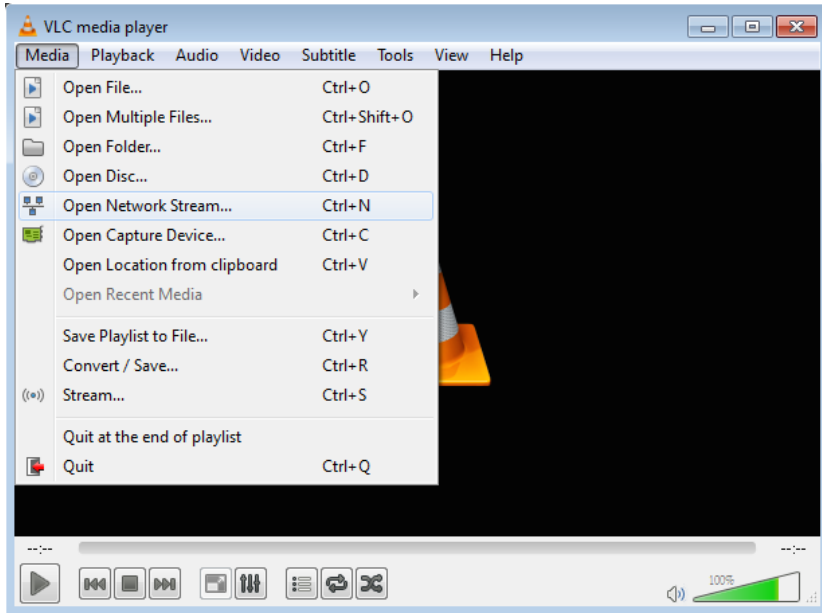


To receive this TS multicast streaming, go to “Broadcast List” and look up “Output Location” for the streaming URL.

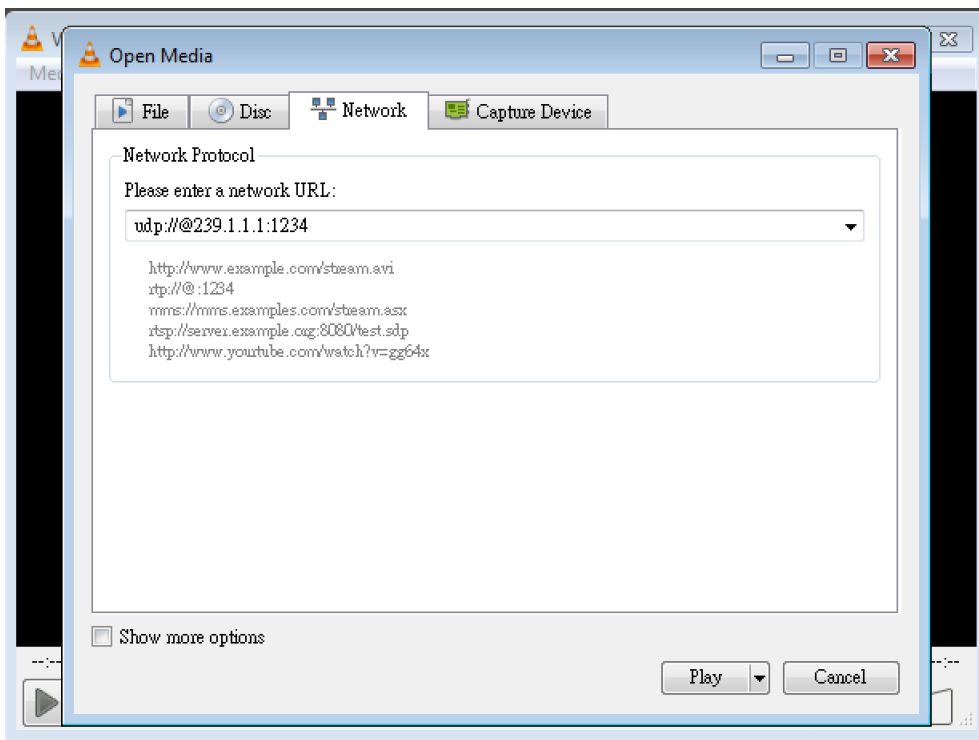
A screenshot of the "Broadcast List" tab in the software interface. The top navigation bar includes "Broadcast List", "Configuration", "Encoding Profile", and "Administration". A status bar at the top right shows "Total Bitrate Ceiling (Grand Total / max) : 14.88 / 20 Mbps". Below the navigation bar, there are two output configuration panels. The first panel, labeled "Output 1", shows "HDMI 1" with a resolution of "1920x1080" and a frame rate of "59 p". The second panel, labeled "Output 2", is currently empty. Below these panels is a section titled "Output 1" containing a table with the following data:

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	udp://@239.1.1.1:1234	H.264 Main Profile VBR 1920x1080p60 [11.256 Mbps]	Streaming...	

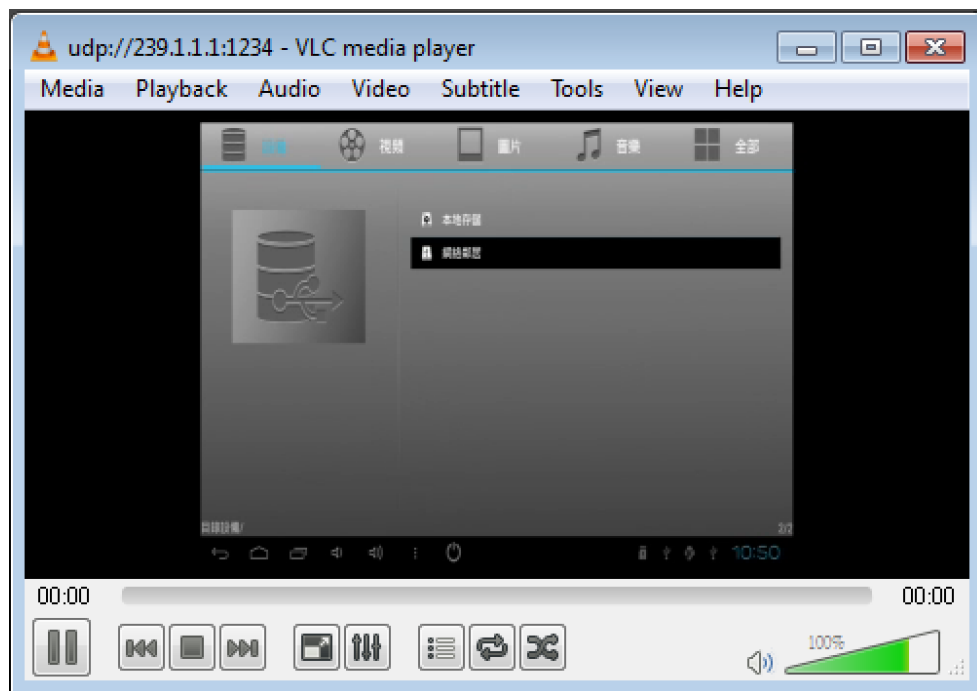
Launch VLC, go to “Media” → “Open Network Stream”.



Enter the streaming URL.



Click “Play”.



Streaming to RTMP server (RTMP Publish)

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, Akamai and CDNVideo also supports RTMP.

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

To deliver streaming 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 192.168.0.101. 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 “SE5820”. Some RTMP servers require authentication. If so, enable “RTMP Authentication” and provide the account and password.

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

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
	HDMI 1	RTMP Publish	H.264 Main Profile VBR 1920x1080p30 [3.756]		1234	192.168.0.104	▶ +
1		FMS Server Address: <input type="text" value="rtmp://192.168.0.101:1234/hls"/> Example: rtmp://fms-ip/app Stream Name: <input type="text" value="SE5820"/> <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="...."/>					

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

Output 1

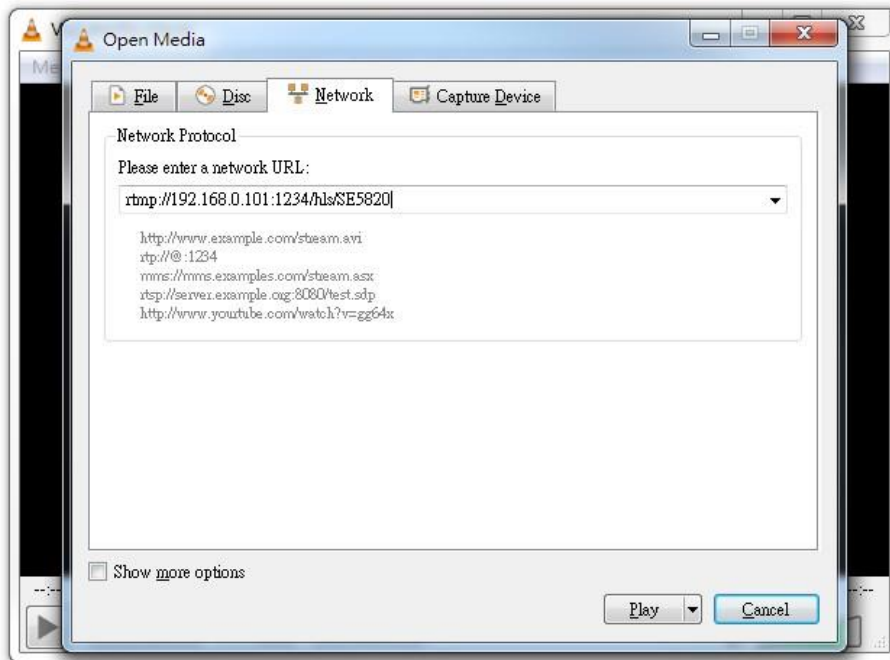
No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	FMS Server Address rtmp://192.168.0.101:1234/hls Stream Name SE5820	H.264 Main Profile VBR 1920x1080p30 [3.756 Mbps]	Activating...	

Output 1

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	FMS Server Address rtmp://192.168.0.101:1234/hls Stream Name SE5820	H.264 Main Profile VBR 1920x1080p30 [3.756 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://192.168.0.101:1234/hls/SE5820” can be provided to VLC.





Streaming to YouTube Live

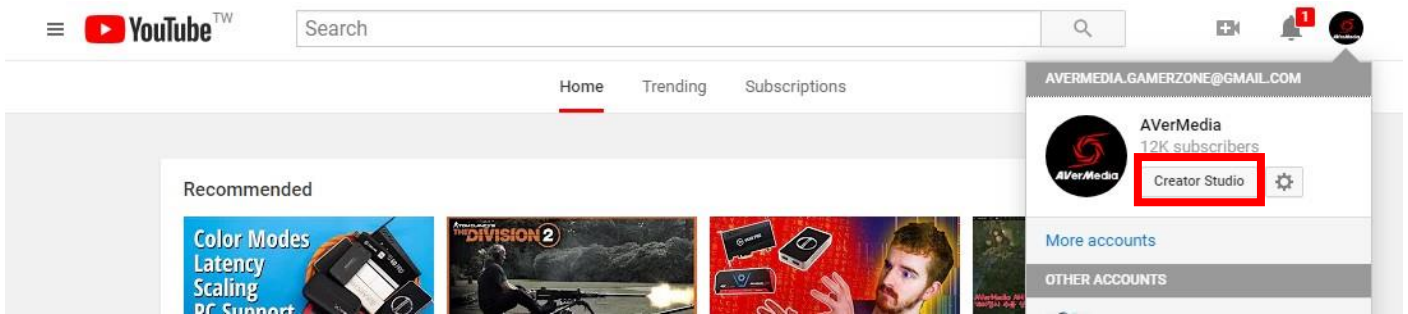
Your YouTube account may have to go through additional processes to be eligible for live streaming. This process is outside of the scope of this document and may involve authentication of your identity using your mobile phone.

There are two methods you can stream to YouTube Live. The first method is to select “YouTube Live” in “Stream Type”, click the “Log In” button, and go through the login process to start.

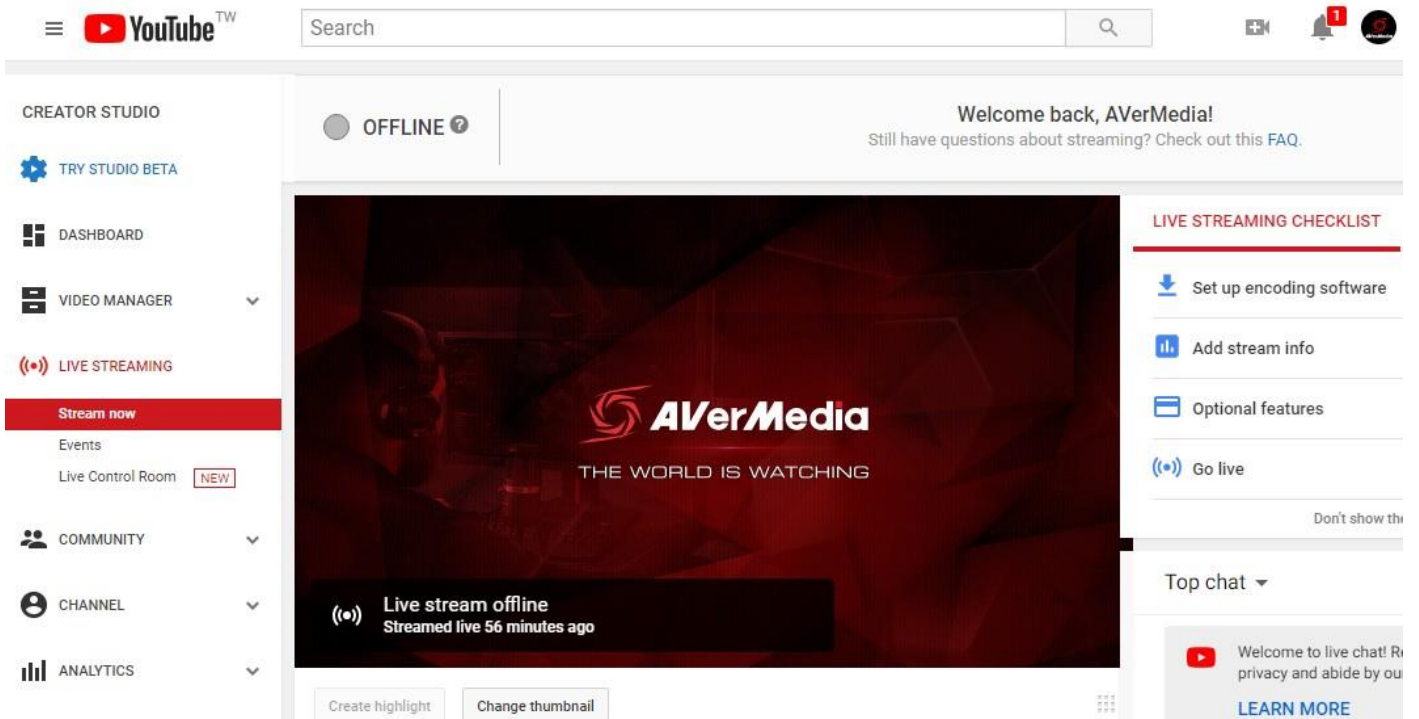
No.	Channel Name		Stream Type
1	HDMI 1 ▾		Youtube Live ▾
	<input type="text"/>		

No.	Channel Name		Stream Type	Encoding Profile	IP A
1	HDMI 1 ▾		Youtube Live ▾	H.264 Main Profile VBR 1920x1080p60 [4.628 Mb ▾	
	<input type="text"/>		Title	<input type="text"/>	
			Description	<input type="text"/>	
			Tag	<input type="text"/>	
			Privacy Settings	Unlisted ▾	
					

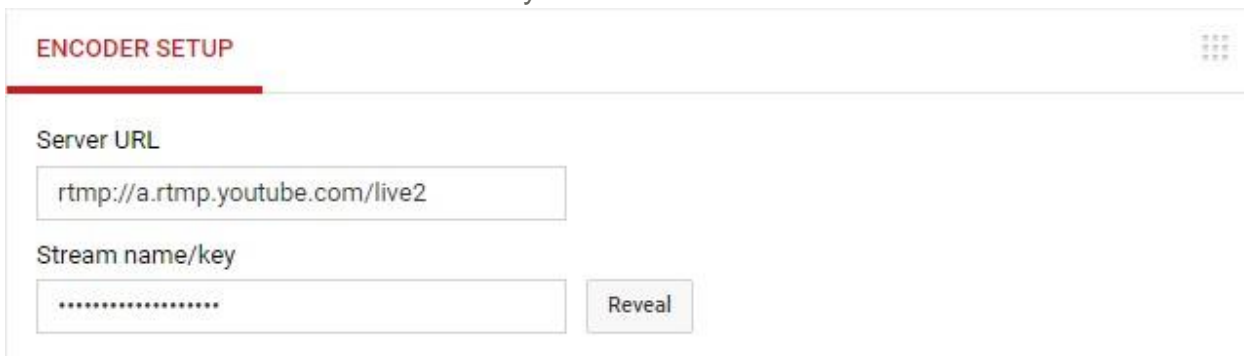
The second method is through RTMP. Streaming to YouTube Live is the same as streaming to an RTMP server. To acquire the streaming URL and name, open a web browser and go to your YouTube page: <http://www.youtube.com>. Open your account settings and click on “Creator Studio”.



In Youtube Creator Studio, select “Live Streaming” → “Stream now”.



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



Copy the “Server URL” to “FMS Server Address” and the “Stream name/key” to “Stream Name” in SE5820. Leave “Enable RTMP Authentication” unchecked.

Output 1

Audio Video Layout

Microphone Enable Disable Master Volume 100

Audio Input Audio Input Volume 50

Microphone Input Microphone Input Volume 50

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	RTMP Publish	H.264 Main Profile VBR 1920x1080p60 [4.628 Mbps]		1234	192.168.0.100


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 

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

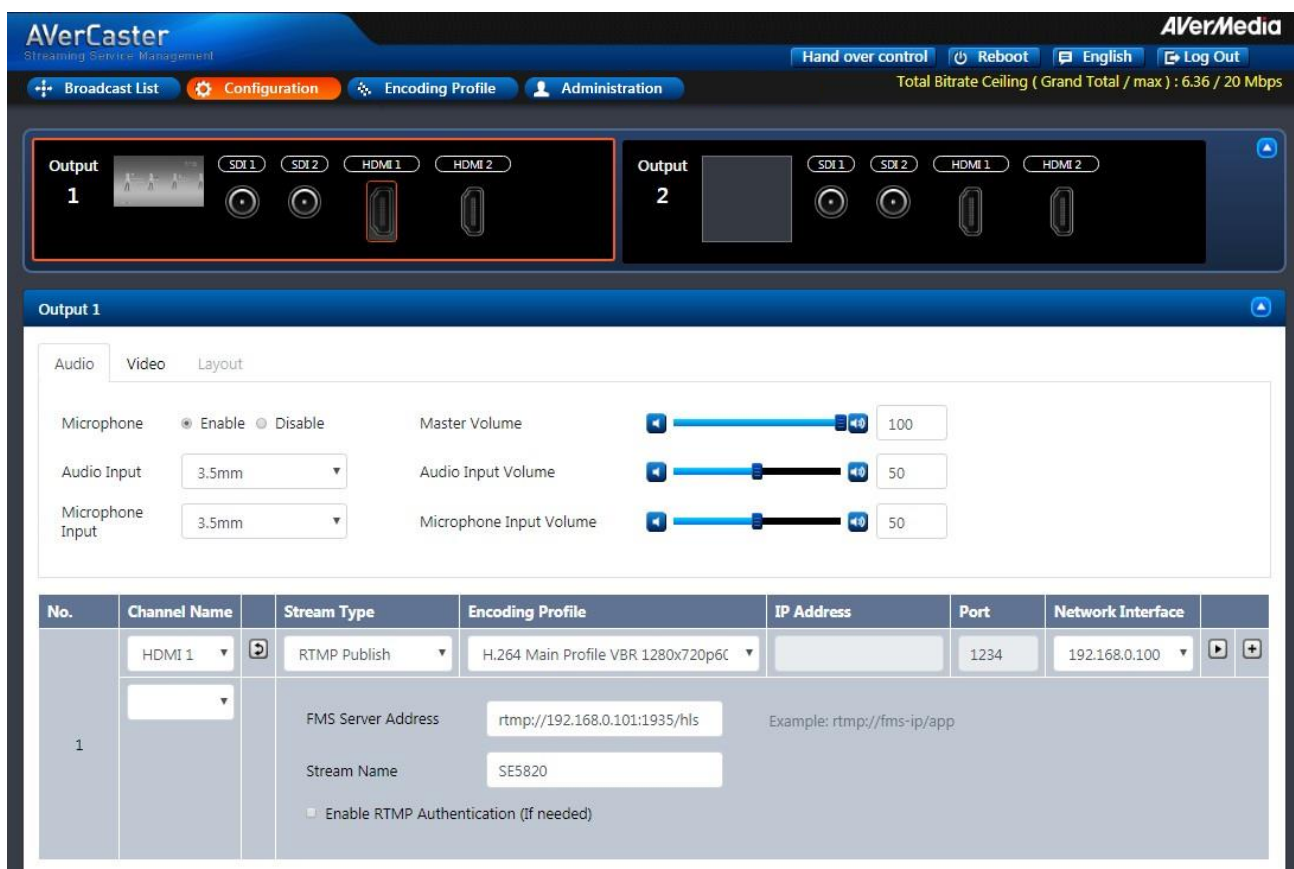
Three Streaming and Recording Modes

SE5820 has 4 video inputs (2 HDMI, 2 SDI) and 2 outputs/channels with independent audio/video receivers and encoders, which mean it could perform 2 encoders with 2 video sources for each encoder working independently. The 3 streaming and recording modes are 2-to-2 Mode, 1-to-2 Mode, and 1-1-1 Mode.

2-to-2 Mode

For 2-to-2 Mode (2 layouts, 2 streams), you can select 2 of 4 video inputs from HDMI or 3G-SDI ports then output 2 streams simultaneously.

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



The screenshot displays the AVerCaster Configuration interface. At the top, there are navigation tabs: Broadcast List, Configuration (selected), Encoding Profile, and Administration. The top right corner shows 'Hand over control', 'Reboot', 'English', and 'Log Out'. A status bar indicates 'Total Bitrate Ceiling (Grand Total / max) : 6.36 / 20 Mbps'. Below the navigation, there are two output panels, 'Output 1' and 'Output 2'. 'Output 1' is highlighted with a red box and shows input options for SDI 1, SDI 2, HDMI 1, and HDMI 2. Below this, the 'Output 1' configuration panel is shown with tabs for Audio, Video, and Layout. The Audio tab is active, showing settings for Microphone (Enable/Disable), Master Volume (100), Audio Input (3.5mm), Audio Input Volume (50), Microphone Input (3.5mm), and Microphone Input Volume (50). At the bottom, a table lists the stream configuration:

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	RTMP Publish	H.264 Main Profile VBR 1280x720p60		1234	192.168.0.100	

Below the table, the following fields are visible:

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

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

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 2	TS Multicast	H.264 Main Profile VBR 1920x1080p6i	224.2.2.2	1234	192.168.0.100
		TTL :	64 (1 ~ 255)			
		SAP :	Enable			
		<input type="checkbox"/>	Manually set PID			

In the “Broadcast List” tab, you can see in “Channel Name” column that the two streaming tasks are coming from different video inputs. You can easily add one more video source to both Output 1 and Output 2 to achieve the scenario mentioned earlier.

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	FMS Server Address rtmp://192.168.0.101:1234/hls Stream Name SE5820	H.264 Main Profile VBR 1280x720p60 [2.728 Mbps]	Activating...	

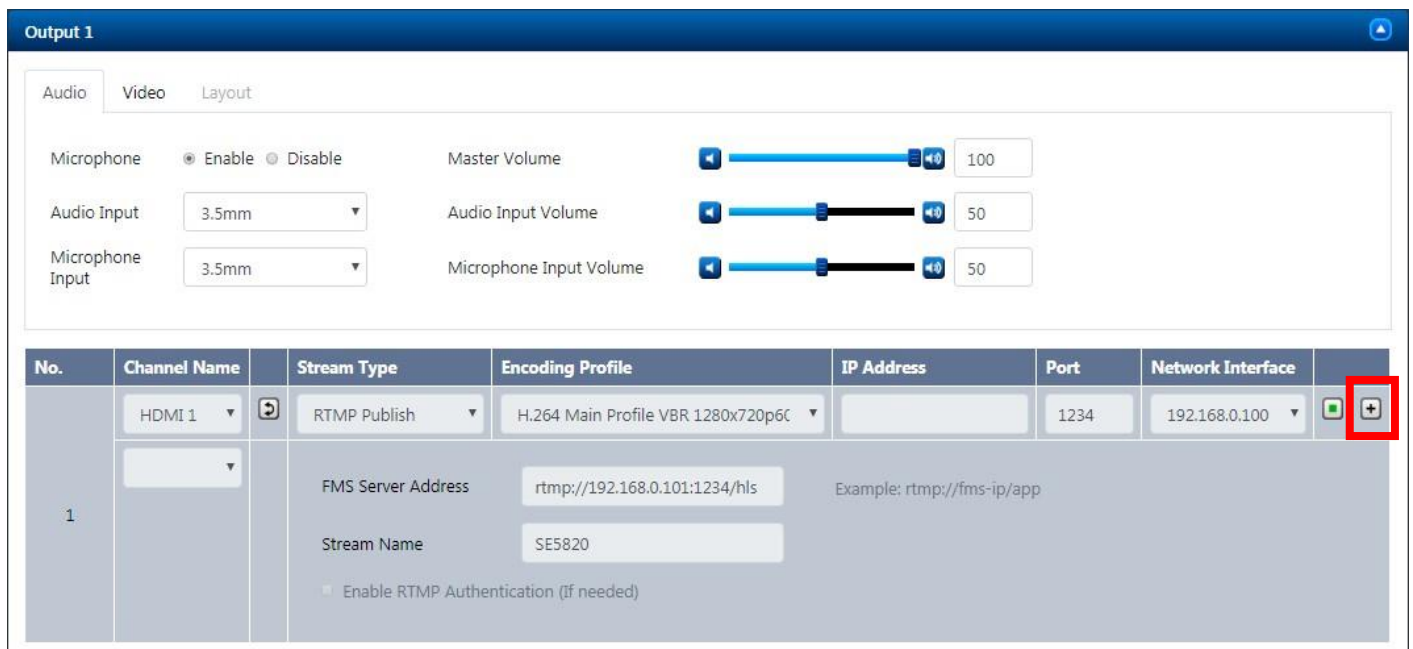
No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 2	udp://@224.2.2.2:1234	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Activating...	

1-to-2 Mode

In addition to working as 2 sets of independent encoders, SE5820 can also use 1-to-2 Mode (1 layout, 2 streams) to encode 2 independent streams simultaneously from 1 input source. In other words, it can take one audio/video content, from one of the HDMI or 3G-SDI 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 (720x480) 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 Twitch 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 the “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.



The screenshot shows the configuration interface for the SE5820 device. At the top, there are tabs for "Audio", "Video", and "Layout". The "Audio" tab is active, showing settings for Microphone (Enable/Disable), Master Volume (100), Audio Input (3.5mm), Audio Input Volume (50), Microphone Input (3.5mm), and Microphone Input Volume (50). Below the audio settings is a table of output streams. The table has columns for No., Channel Name, Stream Type, Encoding Profile, IP Address, Port, and Network Interface. A red box highlights a "+" button in the rightmost column of the first row, indicating where to click to add a second stream.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	RTMP Publish	H.264 Main Profile VBR 1280x720p6C		1234	192.168.0.100	+

FMS Server Address: Example: rtmp://fms-ip/app

Stream Name:

Enable RTMP Authentication (if needed)

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

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	RTMP Publish	H.264 Main Profile VBR 1280x720p60		1234	192.168.0.100
		FMS Server Address: <input type="text" value="rtmp://192.168.0.101:1234/hls"/> Example: rtmp://fms-ip/app Stream Name: <input type="text" value="SE5820"/> <input type="checkbox"/> Enable RTMP Authentication (if needed)				
2		TS Multicast	H.264 Main Profile VBR 720x480p30	239.1.1.2	1234	192.168.0.100
		TTL: <input type="text" value="64"/> (1 ~ 255) SAP: <input checked="" type="checkbox"/> Enable <input type="checkbox"/> Manually set PID				

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

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	FMS Server Address rtmp://192.168.0.101:1234/hls Stream Name SE5820	H.264 Main Profile VBR 1280x720p60 [2.728 Mbps]	Activating...	
2	HDMI 1	udp://@239.1.1.2:1234	H.264 Main Profile VBR 720x480p30 [1.928 Mbps]	Activating...	

Note: Each Output supports up to 2 streaming tasks or 1 streaming and 1 recording task at the same time, however only 1 recording task can be perform at a time.

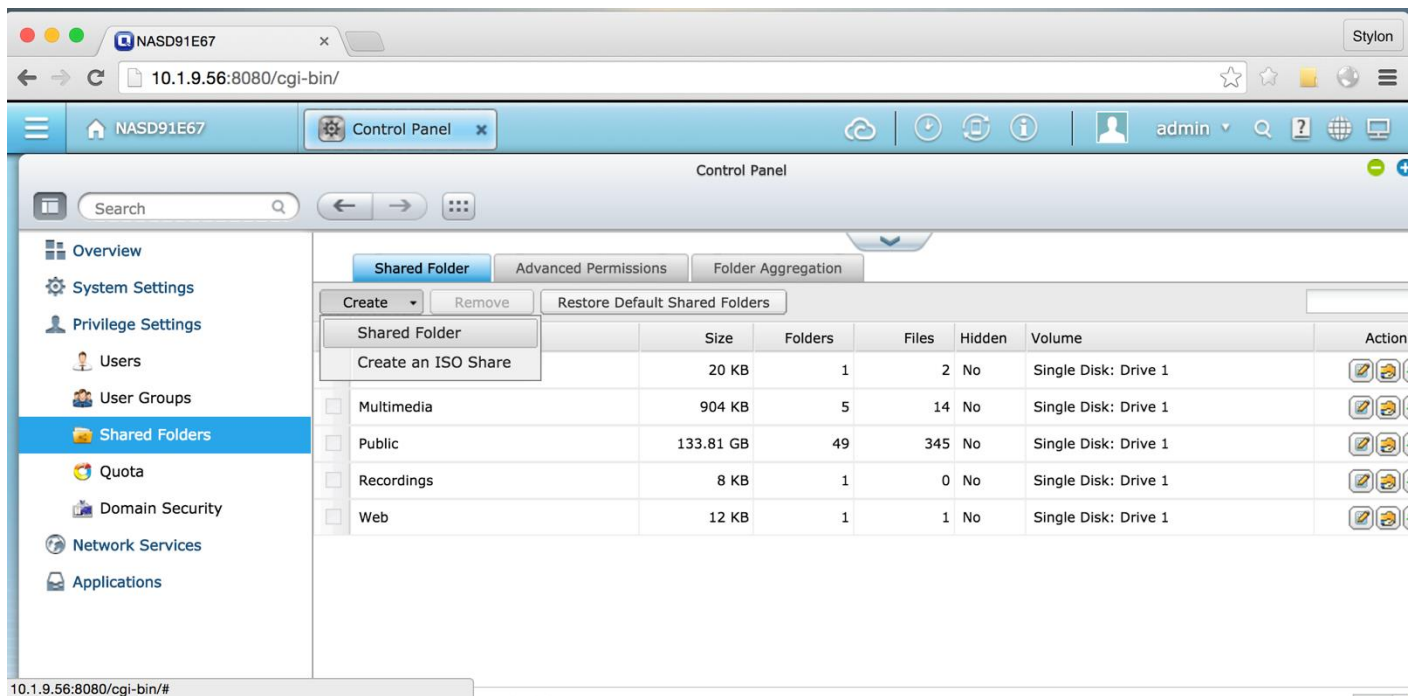
1-1-1 Mode

With SE5820's 1-1-1 Mode (1 layout, 1 stream, 1 record), you can preserve the video clips in your PC, laptop, or NAS server while performing a live streaming event.

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 visit "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.

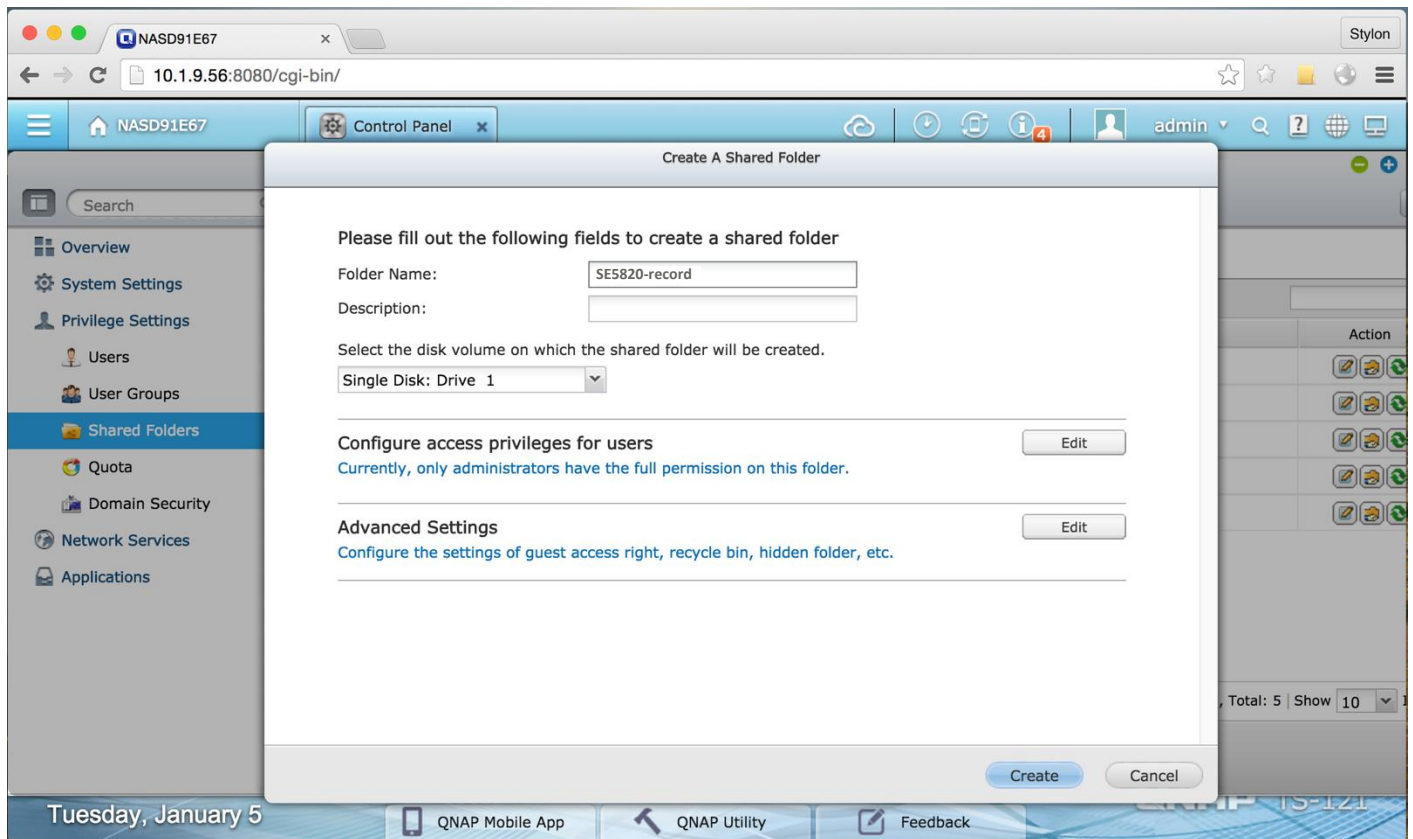
In QNAP's web page, launch "Control Panel" → "Privilege Settings" → "Shared Folders"



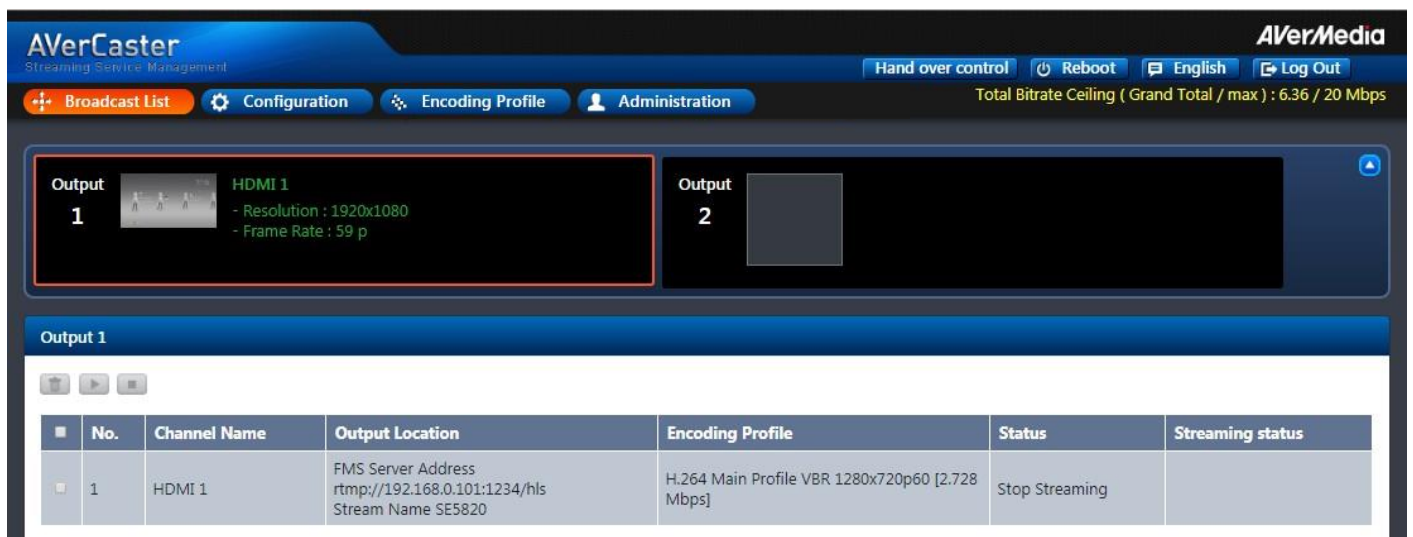
The screenshot shows the QNAP Control Panel interface. The browser address bar displays "10.1.9.56:8080/cgi-bin/". The page title is "Control Panel". The left sidebar contains a navigation menu with the following items: Overview, System Settings, Privilege Settings, Users, User Groups, Shared Folders (highlighted), Quota, Domain Security, Network Services, and Applications. The main content area is titled "Shared Folder" and includes tabs for "Advanced Permissions" and "Folder Aggregation". Below the tabs are buttons for "Create", "Remove", and "Restore Default Shared Folders". A table lists the shared folders with the following columns: Shared Folder, Size, Folders, Files, Hidden, Volume, and Action.

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

We opt to create a new shared folder for SE5820 to record to. This folder is named “SE5820-record”. Click “Create” to create a new folder.



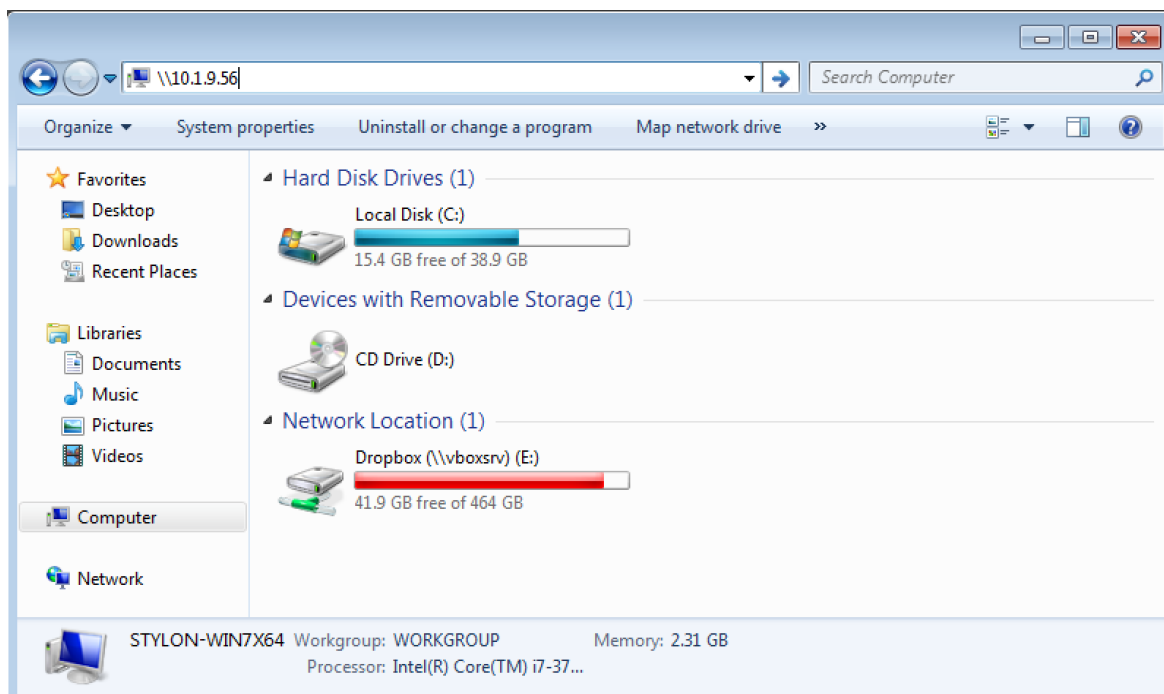
Now back to SE5820. Under “Broadcast List” tab, check to make sure there is only one or no streaming task. If there are already two streaming tasks, either in duet mode or splitter mode, recording will be disabled.



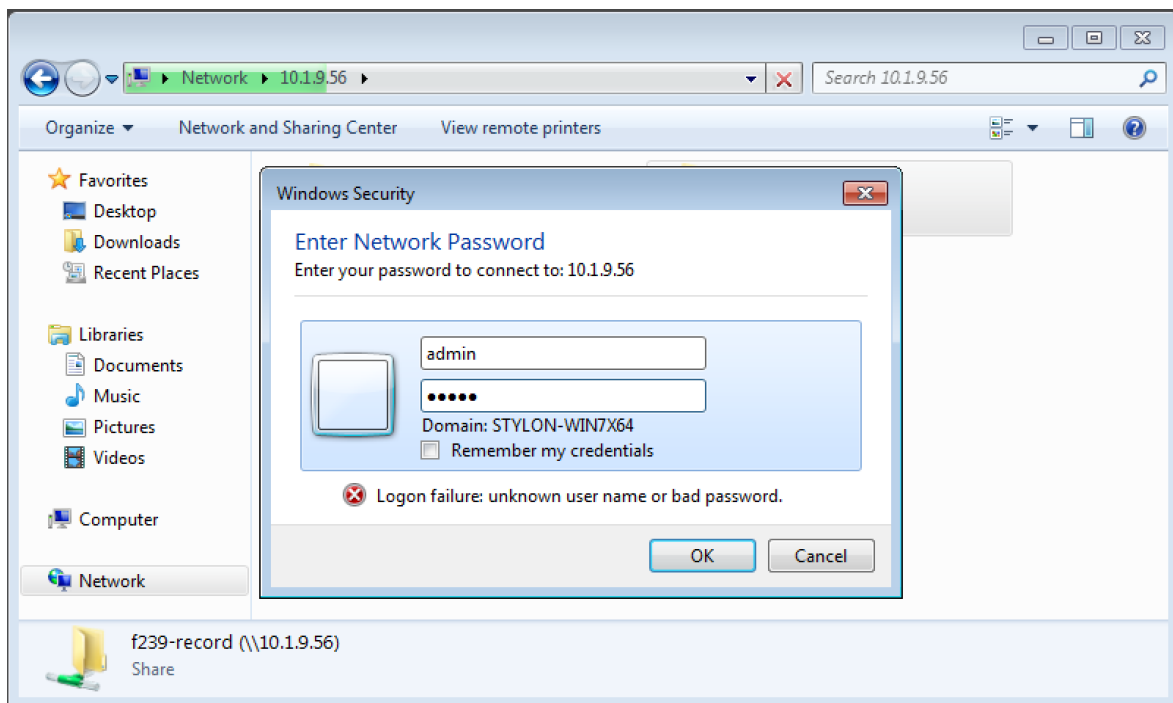
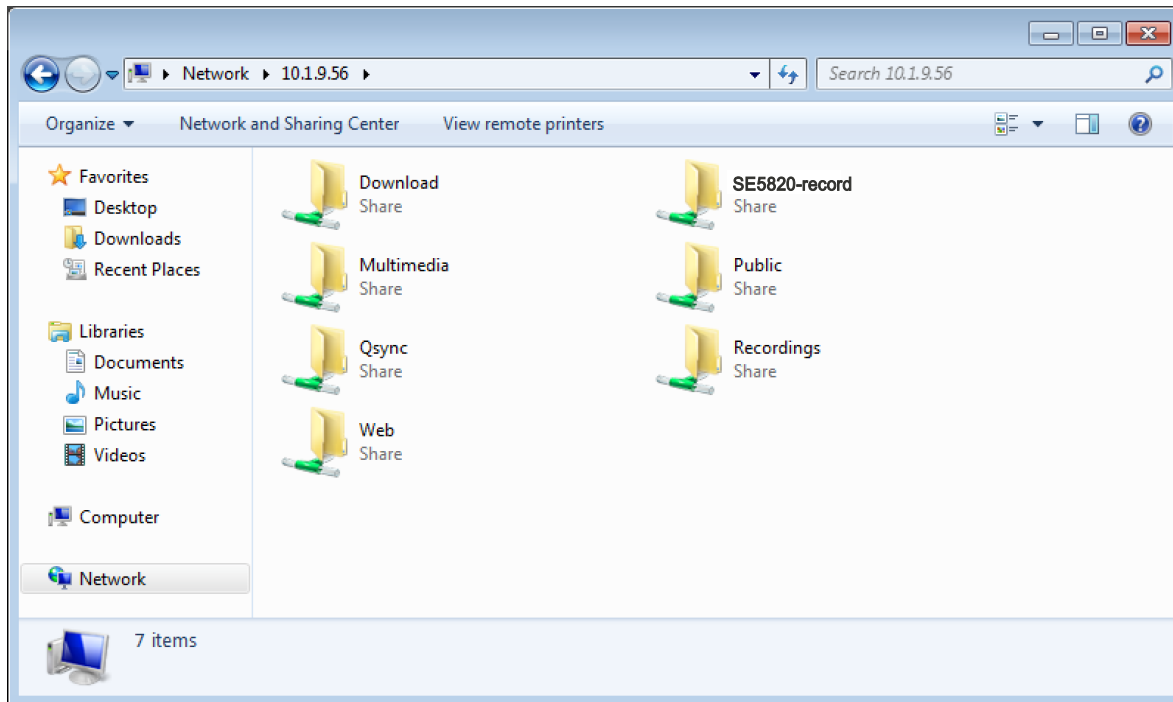
Select “Record” as “Stream Type” and “NAS” as your “Storage Device”. Enter the IP address of your NAS server, the name of the shared folder and account/password in the fields below. Click “Connect” to verify the recording path and password. A file splitting feature is added so that you can split the recording files to smaller segments. So set the time duration of each segment, adjust the “hours” and “minutes” in the “Segment Duration” settings.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	Record	H.264 Main Profile VBR 1280x720p60 [2.728 Mt]		1234	192.168.0.100	
		Storage Device	NAS				
		Storage Path	\\10.1.9.56\SE5820-record				
		Format	MP4				
		Segment Duration	0 hours 5 minutes (5 minutes ~ 2 hours)				
		IP Address	10.1.9.56 e.g. 192.168.0.1				
		Storage Path	SE5820-record e.g. Folder Name				
		Username	admin				
	Password					
Connect							

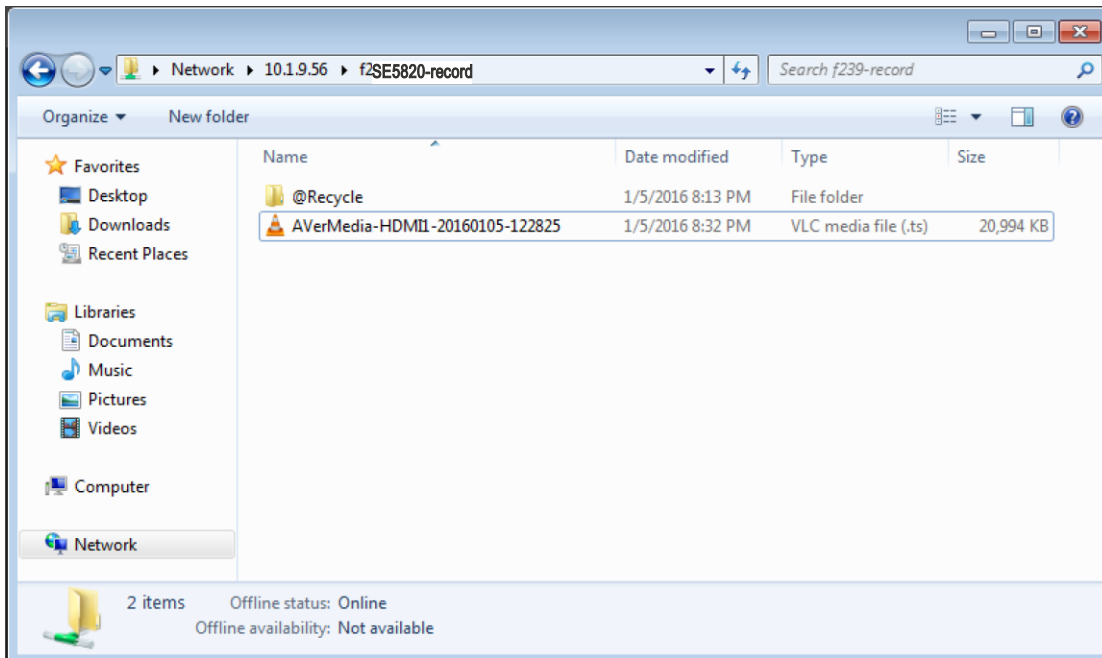
Once the verification is done, click the “Play” icon to start streaming and recording. It is safer to access the recording files on NAS server after you have stopped streaming. To retrieve the files from NAS, open “Computer” or a file explorer window. Enter the server address with two leading backslashes [\\10.1.9.56](http://10.1.9.56) and press Enter.




Navigate to the “SE5820-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.




Recording to External Storage & File Format

Recording to a local, external storage can be done easily on SE5820. Select “Record” for “Stream Type”, “USB” or “SD Card” for “Storage Device”, “MP4”, “MOV” or “TS” for “Format”, a “Segment Duration”, then click  to start recording to your designated external storage.

For details on removing external storage, refer to the “Remove Storage Device (SD Card / USB Drive)” section.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	Record	1080P 3Mbps		1234	192.168.0.101	
		Storage Device	USB				
		Storage Path					
		Format					
		Segment Duration	0 hours 5 minutes	(5 minutes ~ 2 hours)			

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	Record	1080P 3Mbps		1234	192.168.0.101	
		Storage Device	USB				
		Storage Path	\\AVerMedia\				
		Format	MP4				
		Segment Duration	0 hours 5 minutes	(5 minutes ~ 2 hours)			

Note: Dropped frames may occur when using different types of external storages. We recommend using an HD/SSD speed test software, switching to another storage, or lowering your bit rate (e.g. 10 Mb) when it happens repeatedly.

Streaming to Ustream

SE5820 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”.

The screenshot shows the 'Output 1' configuration window. The 'Audio' tab is active, displaying microphone settings: 'Microphone' is enabled, 'Audio Input' is 3.5mm, and 'Microphone Input' is 3.5mm. Volume sliders are set to 100 for Master, 50 for Audio Input, and 50 for Microphone Input. Below, a table lists output configurations. The 'Stream Type' dropdown is open, showing options like 'TS over TCP', 'RTMP Publish', and 'Ustream' (which is highlighted).

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	Ustream	H.264 Main Profile VBR 1920x1080p30			0.0.0.0

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

This screenshot shows the same 'Output 1' configuration window, but now the 'Log In' form is visible. The 'Stream Type' is set to 'Ustream'. The 'Account' field contains 'tlck38' and the 'Password' field is masked with dots. A 'Log In' button with the Ustream logo is present.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	Ustream	H.264 Main Profile VBR 1920x1080p30 [4.628]			0.0.0.0

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

The screenshot shows the 'Output 1' configuration window. At the top, there are tabs for 'Audio', 'Video', and 'Layout'. Under the 'Audio' tab, there are controls for Microphone (Enable/Disable), Master Volume (set to 100), Audio Input (3.5mm), Audio Input Volume (set to 50), Microphone Input (3.5mm), and Microphone Input Volume (set to 50). Below this is a table with columns: No., Channel Name, Stream Type, Encoding Profile, IP Address, Port, and Network Interface. The first row shows 'HDMI 1' as the channel name, 'Ustream' as the stream type, and 'H.264 Main Profile VBR 1920x1080p30 [4.628]' as the encoding profile. Below the table, there are fields for Account (tclk38), Password (masked), and Channel (tclk38's show), along with a 'Log Out' button.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	Ustream	H.264 Main Profile VBR 1920x1080p30 [4.628]			0.0.0.0

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

The screenshot shows the 'Broadcast List' tab in the AVerCaster interface. At the top, there are navigation buttons: 'Broadcast List', 'Configuration', 'Encoding Profile', and 'Administration'. The 'Broadcast List' tab is active. Below the navigation, there are two output cards. The first card, 'Output 1', is highlighted with a red box and shows 'HDMI 1' with resolution '1920x1080' and frame rate '59 p'. The second card, 'Output 2', is inactive. Below the output cards, there is a section for 'Output 1' with a table showing the output details.

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	https://www.ustream.tv/channel/13564214	H.264 Main Profile VBR 1920x1080p30 [4.628 Mbps]	Streaming...	

Streaming to Twitch

SE5820 allows you to easily broadcast content on the popular game streaming platform Twitch. Go to “Configuration” tab, select “Twitch” as the “Stream Type”.


No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	Twitch	H.264 Main Profile VBR 1920x1080p60			0.0.0.0	▶ +
		<ul style="list-style-type: none">TS over TCPTS over UDPTS MulticastTS over RTPTS RTP MulticastRTMP PublishHLSRTSPUstreamTwitchYoutube LiveFacebookRecord					

Output 2

Audio Video Layout

Click “Log In” and enter your Username and Password accordingly.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	Twitch	H.264 Main Profile VBR 1920x1080p60			0.0.0.0	▶ +
							




Log In Sign Up

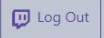
Username
tick38@hotmail.com

Password

Trouble logging in?



Click the “Play” icon to start streaming.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	Twitch	H.264 Main Profile VBR 1920x1080p60 [3.628]			0.0.0.0	▶ +
							

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

AVerCaster
Streaming Service Management

Hand over control Reboot English Log Out

Total Bitrate Ceiling (Grand Total / max) : 3.63 / 20 Mbps

Broadcast List Configuration Encoding Profile Administration

Output 1
HDMI 1
- Resolution : 1920x1080
- Frame Rate : 59 p

Output 2

Output 1

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	https://www.twitch.tv/tlck38	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Streaming...	

Streaming to Facebook


SE5820 allows you to easily broadcast content on Facebook. Go to “Configuration” tab, select “Facebook” as the “Stream Type”.

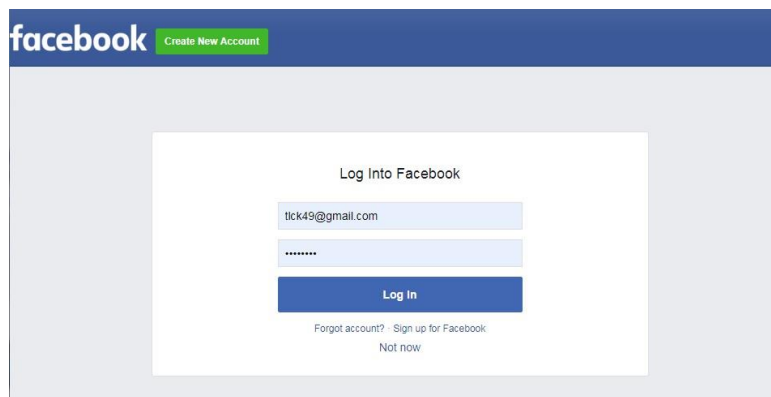
No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface		
1	HDMI 1	Facebook	H.264 Main Profile VBR 1920x1080p30 [3.756]			0.0.0.0	▶	+
		<ul style="list-style-type: none">TS over TCPTS over UDPTS MulticastTS over RTPTS RTP MulticastRTMP PublishHLSRTSPUstreamTwitchYoutube LiveFacebookRecord						

Output 2


Audio Video Layout

Click “Log In” and enter your Email or Phone Number and Password accordingly.

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface		
1	HDMI 1	Facebook	H.264 Main Profile VBR 1920x1080p30 [3.756]			0.0.0.0	▶	+
								



Click the “Play” icon to start streaming.

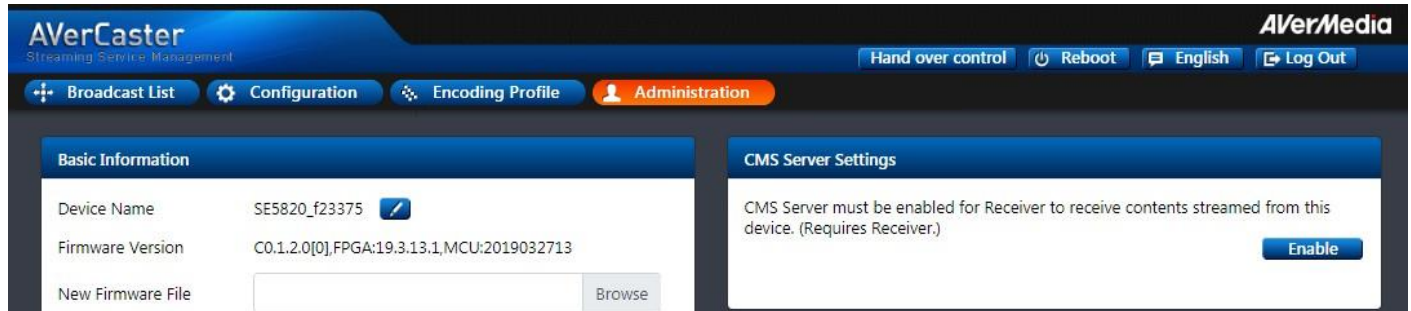
No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface		
1	HDMI 1	Facebook	H.264 Main Profile VBR 1920x1080p30 [3.756]			0.0.0.0	▶	+
								

Now, go to the your Facebook page and you will be able to see the live streaming.

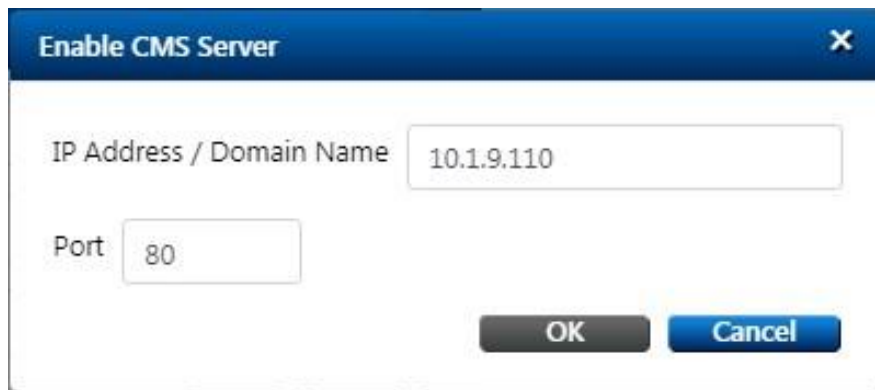
Streaming to CMS and SR310/SR315 with TS UDP Multicast

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

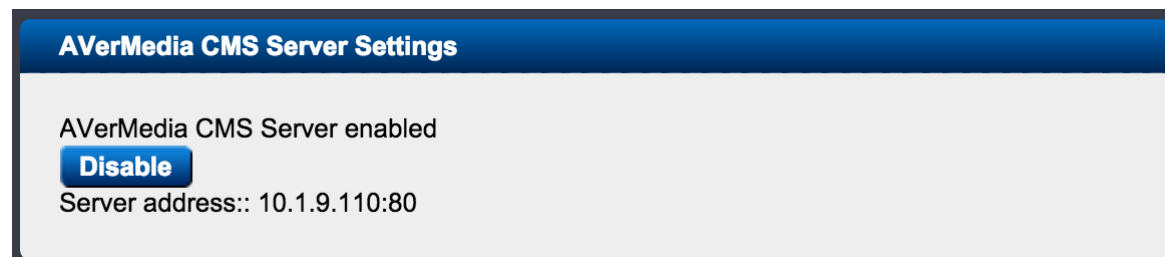
TS UDP multicast is an easy-to-setup and cost-effective way to distribute live streaming to SR310/SR315. First you need to connect SE5820 encoder with CMS server. Go to “Administration” tab of SE5820.



Click “Enable” in “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 SE5820 to CMS server.



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



In the CMS web management page, you can double check if SE5820 is linked with CMS server.

The screenshot shows the AVerMedia CMS web management interface. The top header includes the AVerMedia CMS logo and the user 'admin'. The left sidebar contains a menu with the following items: Content Management, Live Channel, Video on Demand, Digital Signage, Category, Playback Device, AVerReceiver, Group, Schedule, Streaming Encoder, and Encoder (highlighted in orange). The main content area displays a table of encoders. The table has columns for Serial Number, Device Name, IP, Status, and Action. One encoder is listed with the following details: Serial Number: 1307945300015, Device Name: SE5820_f23375, IP: 10.1.9.122, and Status: Green. The table is paginated, showing Page 1 of 1 with 20 items per page and a total of 1 item.

To start delivering live streaming to SR310/SR315, first set up TS UDP multicast under SE5820'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 SR310/SR315 as program information.

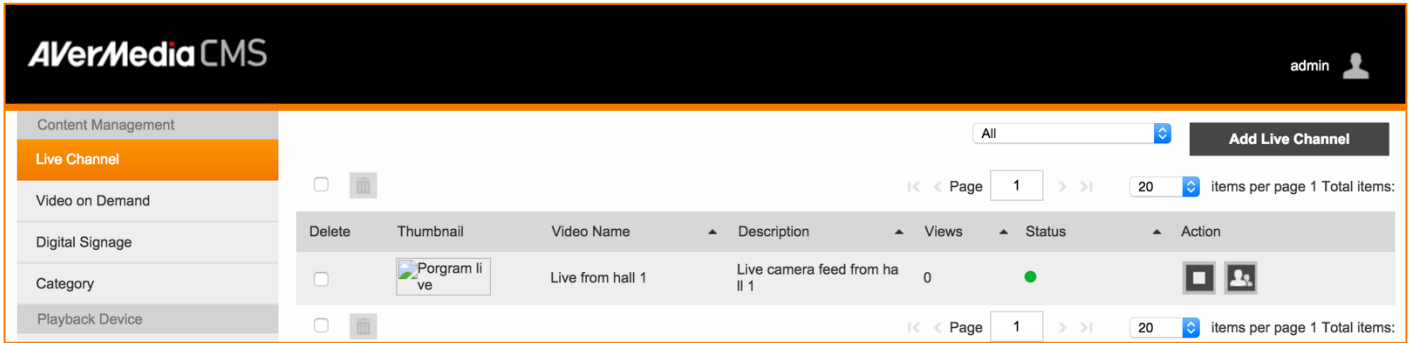
The screenshot shows the configuration page for a live streaming channel in the AVerMedia CMS. The table below shows the configuration details for the selected channel.

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]	239.1.1.1.1	1234	10.1.9.122

Configuration details for the selected channel:

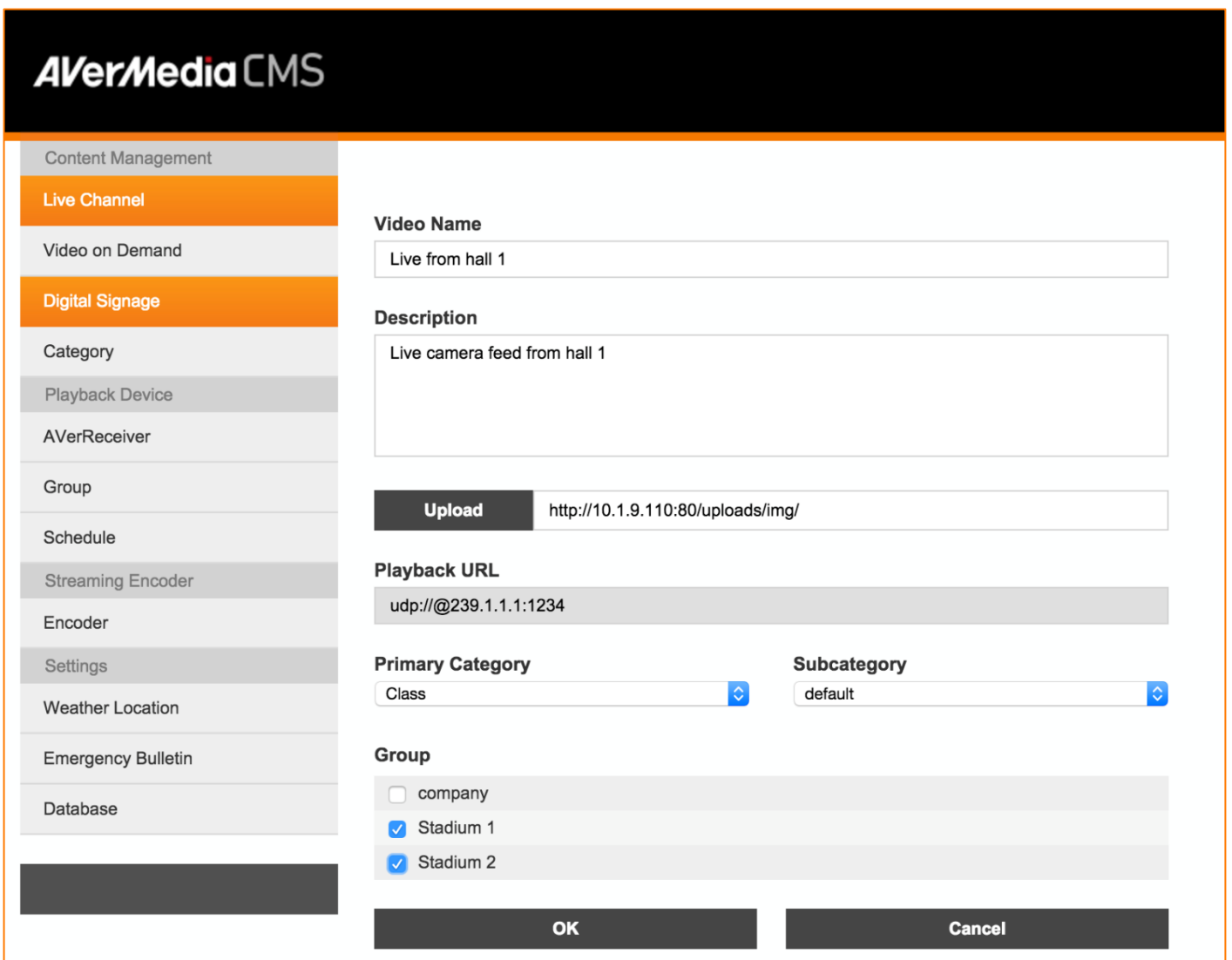
- Record: On Off
- * Recording function is disabled as you have reached the streaming output limit
- Video Name: Live from hall 1
- Video Description: Live camera feed from Hall 1 (28/4000) Max Characters: 4000
- TTL: 64
- SAP: Enable
- Manually set PID

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



The screenshot shows the AVerMedia CMS interface. On the left is a sidebar with navigation options: Content Management, Live Channel (highlighted), Video on Demand, Digital Signage, Category, and Playback Device. The main content area shows a table of live channels. The table has columns for Delete, Thumbnail, Video Name, Description, Views, Status, and Action. One row is visible with the video name 'Live from hall 1', description 'Live camera feed from hall 1', and a status of 'On'. There are pagination controls at the bottom of the table showing 'Page 1' and '20 items per page 1 Total items:'. A 'Add Live Channel' button is visible in the top right corner.

Click the “Edit” icon to change the distribution of this live program to SR310/SR315. Change the selection of groups to selectively deliver this live channel to specific groups of SR310/SR315.

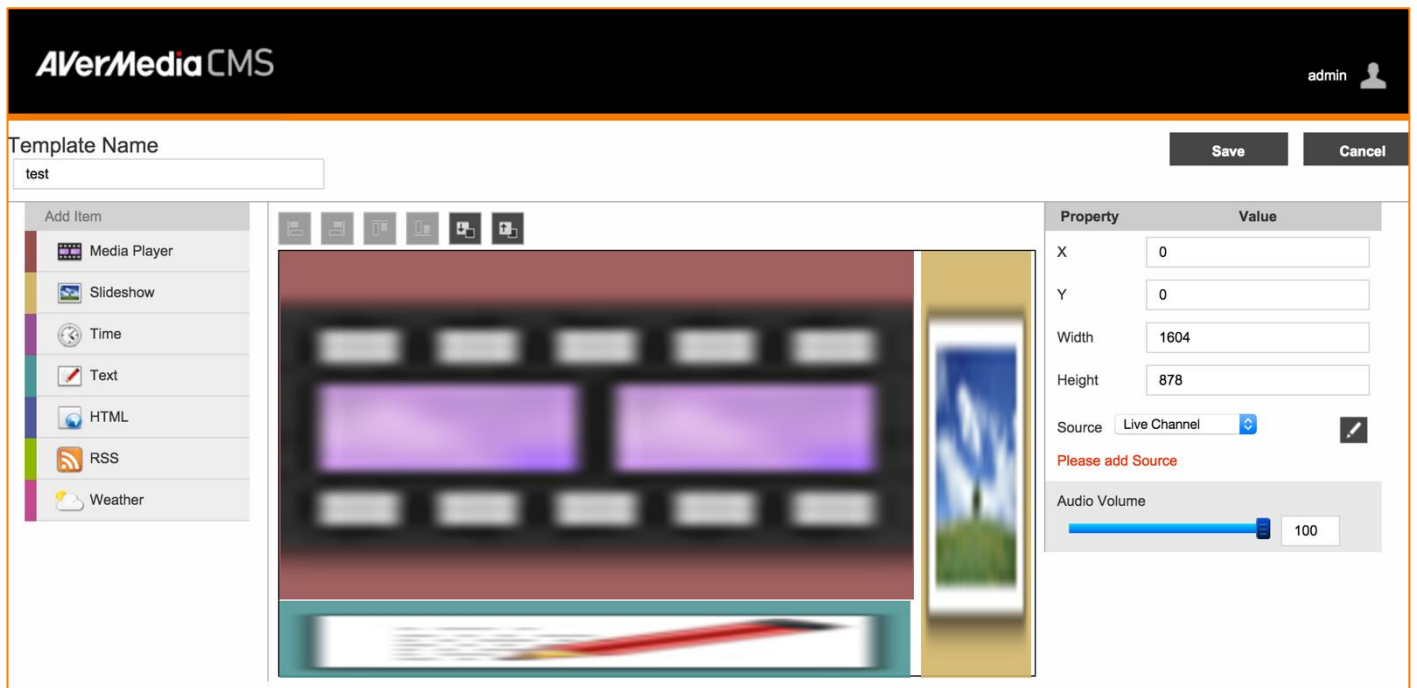


The screenshot shows the 'Edit Live Channel' form in the AVerMedia CMS. The form includes the following fields and options:

- 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

At the bottom of the form are 'OK' and 'Cancel' buttons.

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 SR310/SR315 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 Configuration interface. The 'Configuration' tab is selected. Under 'Output 1', the 'Video' sub-tab is active. The 'Stream Type' is set to 'TS over TCP'. The 'Encoding Profile' is 'H.264 Main Profile VBR 1280x720p60'. The 'Port' is set to 1234. The 'Network Interface' is 192.168.0.100. The 'Audio' sub-tab shows 'Microphone' set to 'Enable', 'Master Volume' at 100, 'Audio Input' at 50, and 'Microphone Input' at 50.

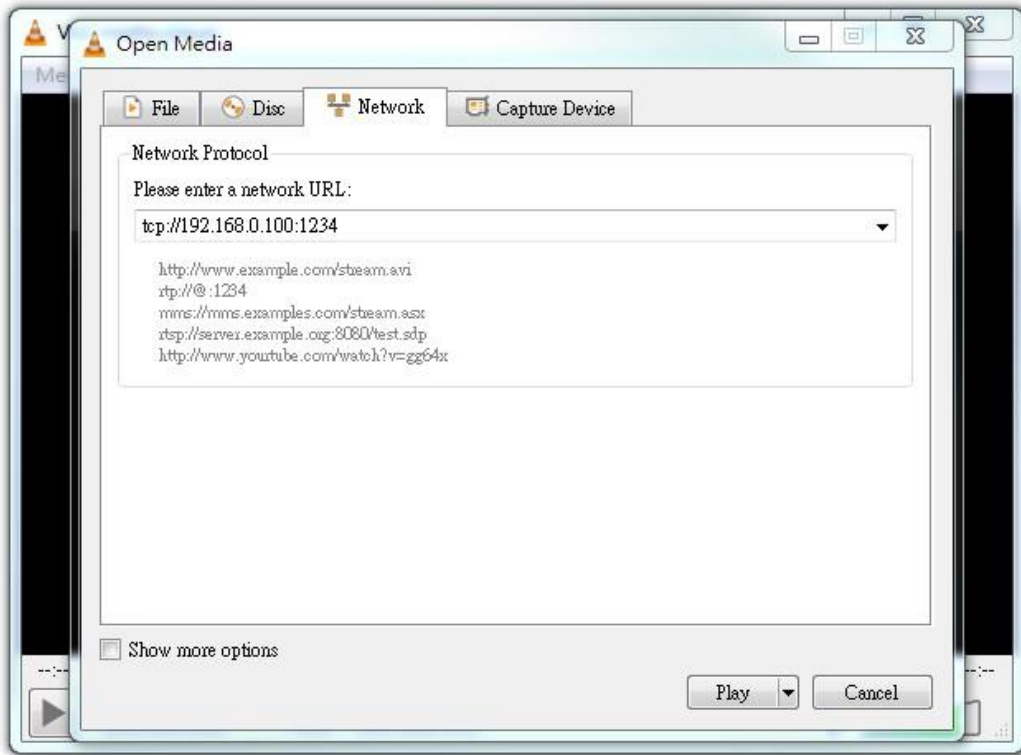
No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	TS over TCP	H.264 Main Profile VBR 1280x720p60		1234	192.168.0.100
		Manually set PID				

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

The screenshot shows the AVerCaster Broadcast List interface. The 'Broadcast List' tab is selected. The 'Output 1' card shows 'HDMI 1' with resolution '1920x1080' and frame rate '59 p'. The 'Output 2' card is empty. Below, the 'Output 1' sub-tab shows a table with streaming status.

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	tcp://192.168.0.100:1234	H.264 Main Profile VBR 1280x720p60 [2.728 Mbps]	Activating...	

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**.

The screenshot shows the AVerCaster Configuration page for Output 1. The top navigation bar includes "Broadcast List", "Configuration", "Encoding Profile", and "Administration". The "Configuration" tab is active. The page displays audio settings for Output 1, including Microphone status (Enabled), Master Volume (100), Audio Input (3.5mm), and Microphone Input (3.5mm). Below the audio settings is a table of streaming channels.

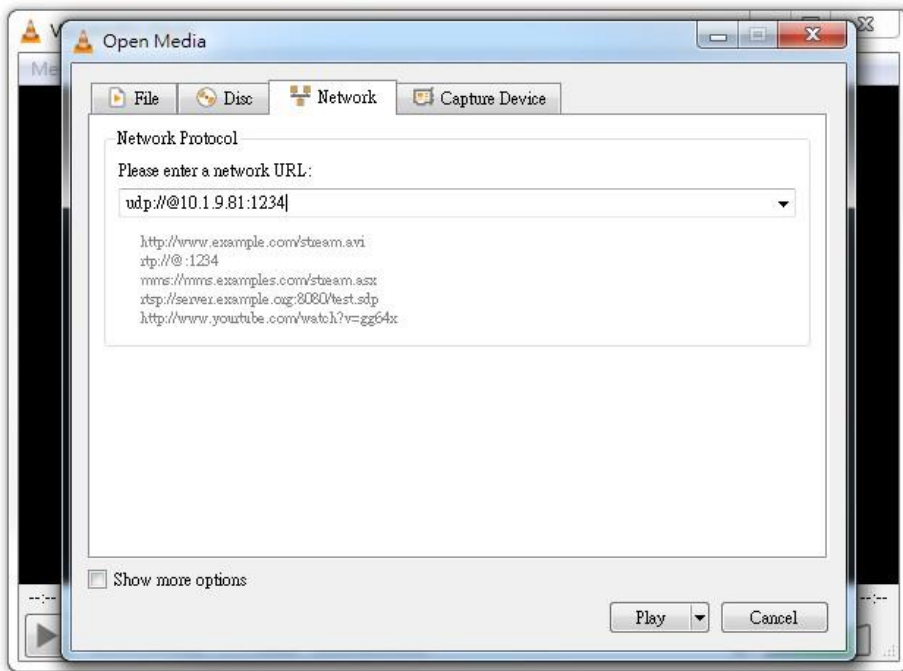
No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	TS over UDP	H.264 Main Profile VBR 1920x1080p60	10.1.9.81	1234	192.168.0.100
Manually set PID						

Streaming status can be monitored in "Broadcast List"

The screenshot shows the AVerCaster Broadcast List page. The top navigation bar includes "Broadcast List", "Configuration", "Encoding Profile", and "Administration". The "Broadcast List" tab is active. The page displays the streaming status for Output 1, including the channel name (HDMI 1), output location (udp://@10.1.9.81:1234), encoding profile (H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]), status (Activating...), and streaming status.

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	udp://@10.1.9.81:1234	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Activating...	

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**.

The screenshot shows the AVerCaster Configuration page. The 'Configuration' tab is active. Under 'Output 1', the 'Video' tab is selected. The 'Stream Type' is set to 'TS over RTP'. The 'IP Address' is '10.1.9.81' and the 'Port' is '1234'. The 'Encoding Profile' is 'H.264 Main Profile VBR 1920x1080p60'. The 'Network Interface' is '192.168.0.100'. The 'Manually set PID' checkbox is checked.

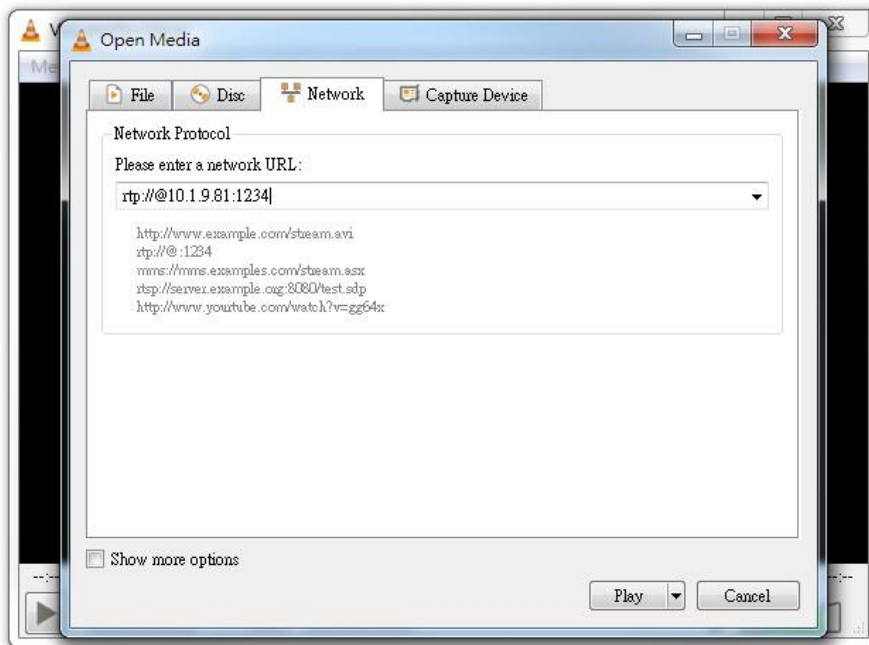
No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	TS over RTP	H.264 Main Profile VBR 1920x1080p60	10.1.9.81	1234	192.168.0.100

Streaming status can be monitored in "Broadcast List"

The screenshot shows the AVerCaster Broadcast List page. The 'Broadcast List' tab is active. The 'Output 1' section shows the streaming status. The 'Status' is 'Streaming...' and the 'Streaming status' is 'Streaming...'. The 'Output Location' is 'rtsp://@10.1.9.81:1234'. The 'Encoding Profile' is 'H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]'.

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	rtsp://@10.1.9.81:1234	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Streaming...	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 RTP 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.

The screenshot shows the AVerCaster Configuration interface. The 'Output 1' section is expanded, showing the following configuration:

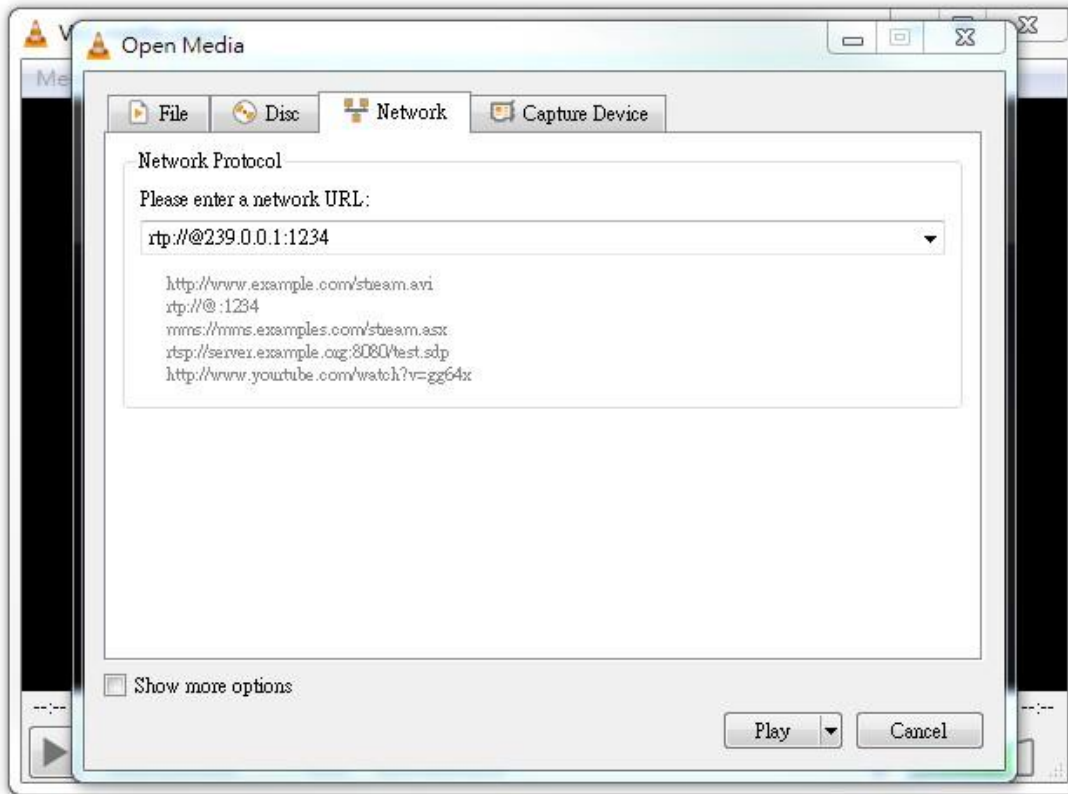
- Audio:** Microphone (Enable/Disable), Master Volume (100), Audio Input (3.5mm), Audio Input Volume (50), Microphone Input (3.5mm), Microphone Input Volume (50).
- Video/Stream Settings:**
 - Channel Name: HDMI 1
 - Stream Type: TS RTP Multicast
 - Encoding Profile: H.264 Main Profile VBR 1920x1080p60
 - IP Address: 239.0.0.1
 - Port: 1234
 - Network Interface: 192.168.0.100
 - TTL: 64 (range 1 ~ 255)
 - SAP: Enable
 - Manually set PID

Monitor streaming in “Broadcast List”

The screenshot shows the AVerCaster Broadcast List interface. The 'Broadcast List' tab is selected, and the following table is displayed:

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	rtp://@239.0.0.1:1234	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Activating...	

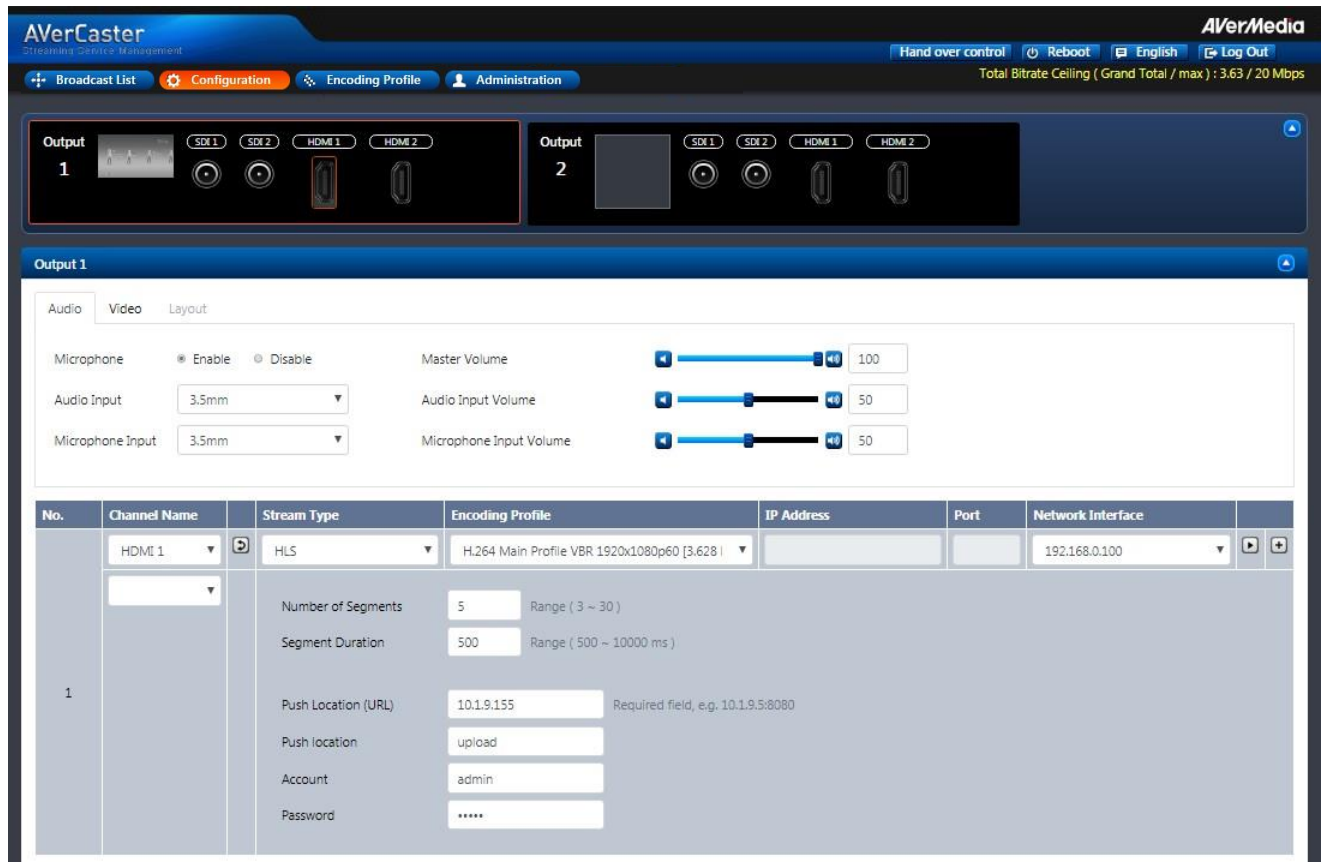
Receive streaming VLC:



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 Configuration interface. At the top, there are navigation tabs: Broadcast List, Configuration (selected), Encoding Profile, and Administration. The top right corner displays 'Hand over control', 'Reboot', 'English', and 'Log Out'. Below the navigation, there are two output panels for Output 1 and Output 2. The 'Output 1' panel is expanded to show configuration options for Audio, Video, and Layout. Under the Audio tab, there are settings for Microphone (Enable/Disable), Master Volume (100), Audio Input (3.5mm), Audio Input Volume (50), Microphone Input (3.5mm), and Microphone Input Volume (50). Below the audio settings is a table for channel configuration:

No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI 1	HLS	H.264 Main Profile VBR 1920x1080p60 [3.628]			192.168.0.100

Below the table, there are configuration fields for the selected channel (1):

- Number of Segments: 5 (Range: 3 - 30)
- Segment Duration: 500 (Range: 500 - 10000 ms)
- Push Location (URL): 10.1.9.155 (Required field, e.g. 10.1.9.5:8080)
- Push location: upload
- Account: admin
- Password: *****

HLS delivers streaming with a playlist with file names ending in “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.

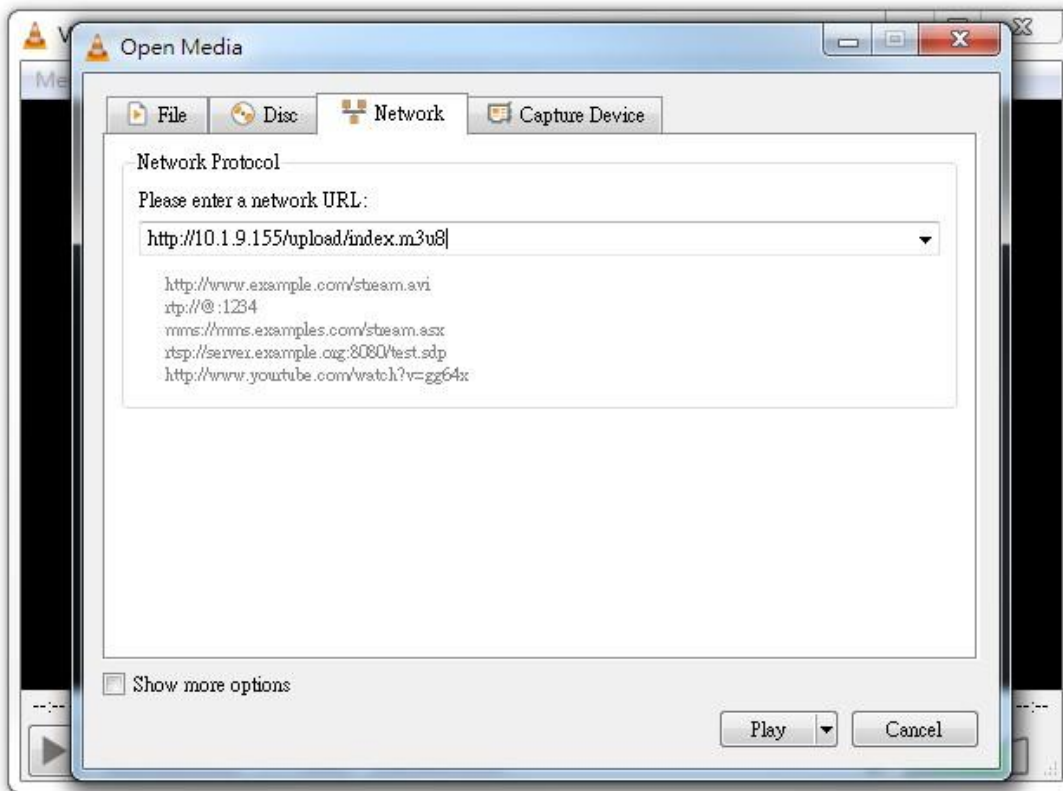
Setting up a web server to service HLS streaming is outside the scope of this document. Please refer to your web master or AVerMedia technical support Video.Solutions@avermedia.com.

As usual, monitor streaming in the “Broadcast List” tab

Output 1

No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status
1	HDMI 1	http://10.1.9.155/upload/index.m3u8	H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]	Activating...	

Play the content in VLC:



Streaming with RTSP

Streaming with RTSP over UDP streaming is supported with SE5820. Select “RTSP” from the “Stream Type” drop-down menu and enter the maximum number of clients into “msg_max_client”, port and URL.

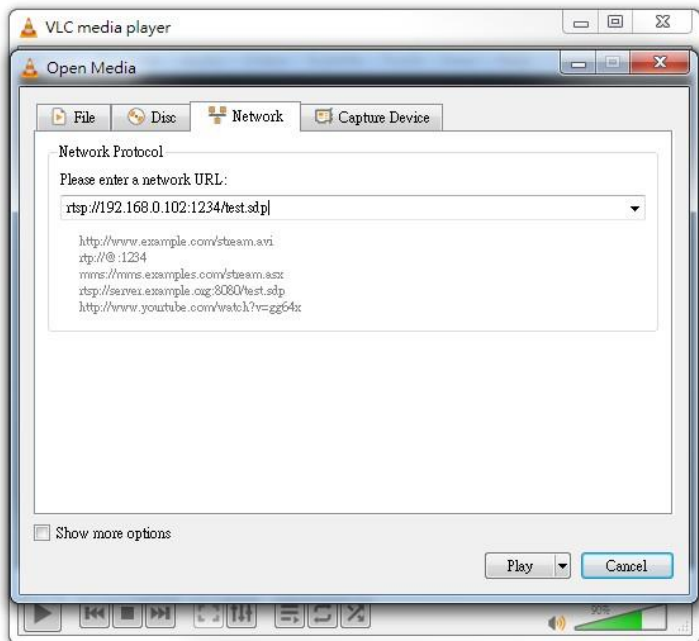
No.	Channel Name	Stream Type	Encoding Profile	IP Address	Port	Network Interface	
1	HDMI 1	RTSP	H.264 Main Profile VBR 1920x1080p30 [3.756		1234	192.168.0.100	▶ +
		msg_max_client	1	Range (1 ~ 10)			
		msg_url	test.sdp	e.g. live/1001.sdp			

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

Monitor streaming in the “Broadcast List” tab

Output 1						
No.	Channel Name	Output Location	Encoding Profile	Status	Streaming status	
1	HDMI 1	rtsp://192.168.0.102:1234/test.sdp	H.264 Main Profile VBR 1920x1080p30 [3.756 Mbps]	Activating...		

Playback the streaming in VLC:



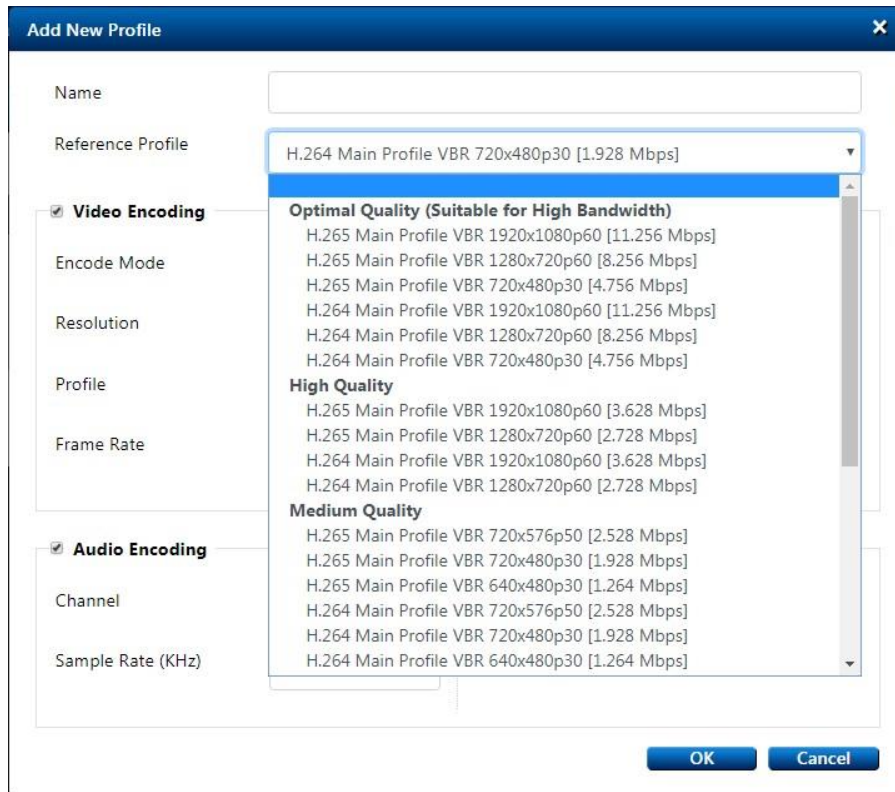
Customize Encoding Profile

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 “reference” one of the built-in profiles and make customizations. Not starting from scratch might save some time.

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



You may freely change the encoding parameters to suit your needs.

The screenshot shows the 'Add New Profile' dialog box with the following settings:

- Name: 1080P 3Mbps
- Reference Profile: H.264 Main Profile VBR 1920x1080p60 [3.628 Mbps]
- Video Encoding: H.264
 - Encode Mode: VBR
 - Resolution: 1920x1080
 - Profile: Main
 - Frame Rate: 60
 - Bitrate (Kbps): 3000
 - Key Frame Interval (Frame): 30
 - Entropy Mode: CABAC
 - B Frame Number: 0
- Audio Encoding: AAC
 - Channel: Stereo
 - Sample Rate (KHz): 48
 - Bitrate (Kbps): 128

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 SE5820. 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*

SE5820 provides down-scaling of video from 1920x1080 to 720x480. Upscale is NOT recommended and will often result in video quality issues.

* Resolution aspect ratios are provided as presets and cannot be customized.

H.264 Profile

Main/high/base line profiles are supported.

H.265 Profile

Also known as High Efficiency Video Coding (HEVC). Available in various profiles in Optimal, High and Medium Quality. Mainline profile is supported.

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
720x576	500	10,000
720x480	500	10,000
640x480	500	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
720x576	700	10,000
720x480	700	10,000
640x480	700	10,000

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 SE5820.

(Audio) Bit Rate

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

Applying Customized Encoding Profile

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

The screenshot displays the configuration interface for an output stream. The 'Video' tab is selected, and a dropdown menu is open, showing a list of encoding profiles. The 'Custom' profile 'H.264\AAC 1080P 3Mbps' is highlighted. The main configuration area shows the following settings:

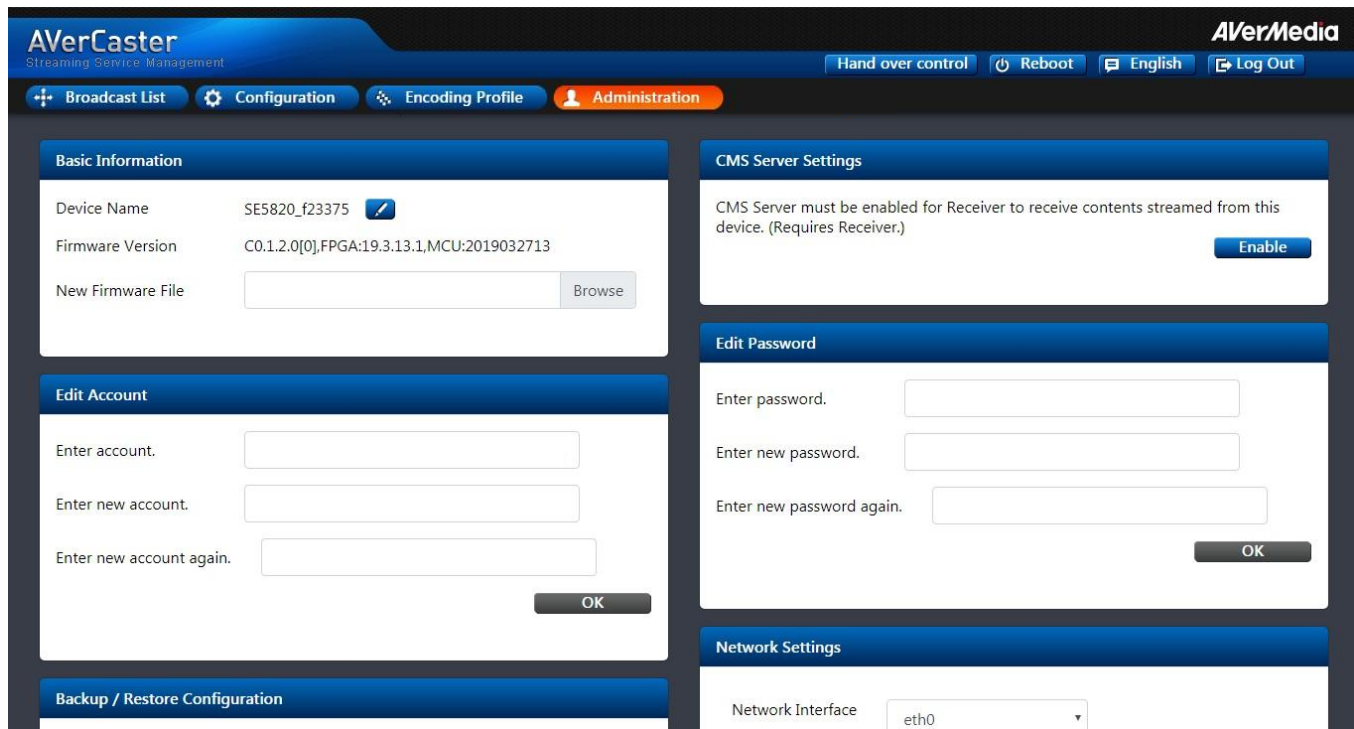
No.	Channel Name	Stream Type	Profile	Port	Network Interface
	HDMI 1	HLS	1080P 3Mbps	1234	192.168.0.100

Additional settings shown below the table:

- Number of Segments: 5 (Range: 3 ~ 30)
- Segment Duration: 500 (Range: 500 ~ 10000 ms)

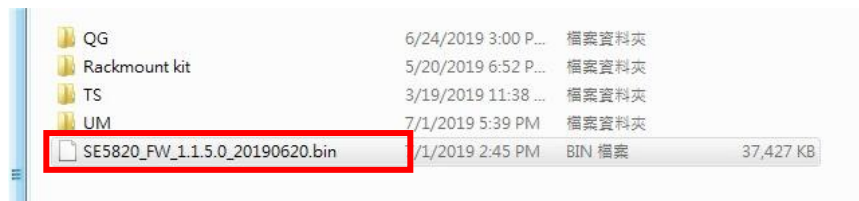
Administration

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



Basic Information & Firmware Update

Device name can be changed to identify each SE5820 apart. Firmware version is also found here. You can also update firmware by clicking “Browse” → Pre-downloaded firmware file → “Update”.



Basic Information	
Device Name	SE5820_f23375 
Firmware Version	C0.1.2.0[0],FPGA:19.3.13.1,MCU:2019032713
New Firmware File	<input type="text" value="SE5820_FW_1.1.5.0_20190620.bin"/> <input type="button" value="Browse"/> <input type="button" value="Update"/>

Edit Account and Password

Change the name of the account and password to better protect SE5820 from unauthorized access.

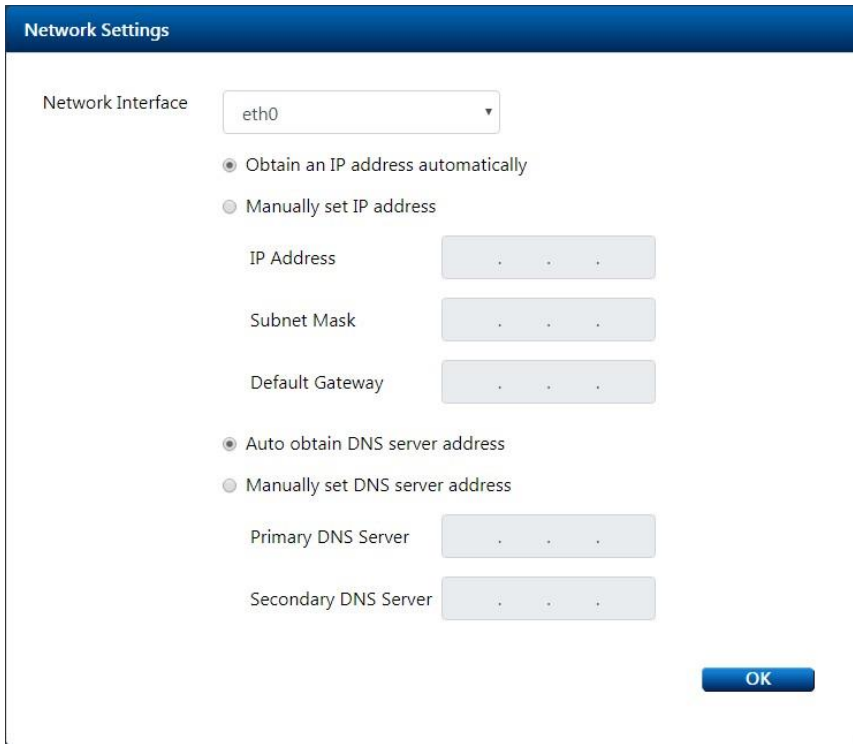
Edit Account	Edit Password
Enter account. <input type="text"/>	Enter password. <input type="text"/>
Enter new account. <input type="text"/>	Enter new password. <input type="text"/>
Enter new account again. <input type="text"/>	Enter new password again. <input type="text"/>
<input type="button" value="OK"/>	<input type="button" value="OK"/>

Network Settings

SE5820 supports static network settings and also automatic settings. In case of automatic assignment, if SE5820 fails to reach a DHCP server, it will randomly select one IP from 169.254.*.*, according to RFC3927 “Dynamic Configuration of IPv4 Link-local addresses”.

Network Settings	
Network Interface	<input type="text" value="eth0"/>
<input type="radio"/> Obtain an IP address automatically <input checked="" type="radio"/> Manually set IP address	
IP Address	<input type="text" value="192 . 168 . 0 . 100"/>
Subnet Mask	<input type="text" value="255 . 255 . 255 . 0"/>
Default Gateway	<input type="text" value="192 . 168 . 0 . 1"/>
<input type="radio"/> Auto obtain DNS server address <input checked="" type="radio"/> Manually set DNS server address	
Primary DNS Server	<input type="text" value="192 . 168 . 0 . 1"/>
Secondary DNS Server	<input type="text" value=" . . ."/>
<input type="button" value="OK"/>	

There are 2 network interfaces available for configuration on SE5820: LAN A and LAN B. If the cable is not connected, the IP address shows "0.0.0.0".



The screenshot shows the 'Network Settings' configuration page. At the top, there is a blue header with the text 'Network Settings'. Below the header, the 'Network Interface' is set to 'eth0' in a dropdown menu. There are two radio button options: 'Obtain an IP address automatically' (which is selected) and 'Manually set IP address'. Below these are three input fields for 'IP Address', 'Subnet Mask', and 'Default Gateway', each containing three dots. There are also two more radio button options: 'Auto obtain DNS server address' (selected) and 'Manually set DNS server address'. Below these are two input fields for 'Primary DNS Server' and 'Secondary DNS Server', each containing three dots. At the bottom right, there is a blue 'OK' button.

Backup / Restore Configuration

Saving settings of SE5820 to local files for backup and restore purposes. **Please note that backup files cannot be used between different versions of SE5820 firmware.**



The screenshot shows the 'Backup / Restore Configuration' page. At the top, there is a blue header with the text 'Backup / Restore Configuration'. Below the header, there are two sections: 'Backup Settings' and 'Restore Settings'. Under 'Backup Settings', the text 'Settings are stored in a computer' is displayed next to a blue 'Save' button. Under 'Restore Settings', there is an empty input field followed by a 'Browse' button.

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.

Time Settings

Time Zone
(GMT+08:00) Taipei

Date
April 2019
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

Time (hours : minutes : seconds)
18 : 17 : 05

Save and Restart Cancel

Time Settings

The current system time (GMT+8) 2019/04/03 6:16:35 PM **Edit**

SAP Group Settings

When streaming to TS multicast or RTP multicast, SE5820 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”.

SAP Group Settings

Group Name: AVerCaster **OK**

Channel Name can be switched in the “Configuration” tab

Output 1

Audio Video Layout

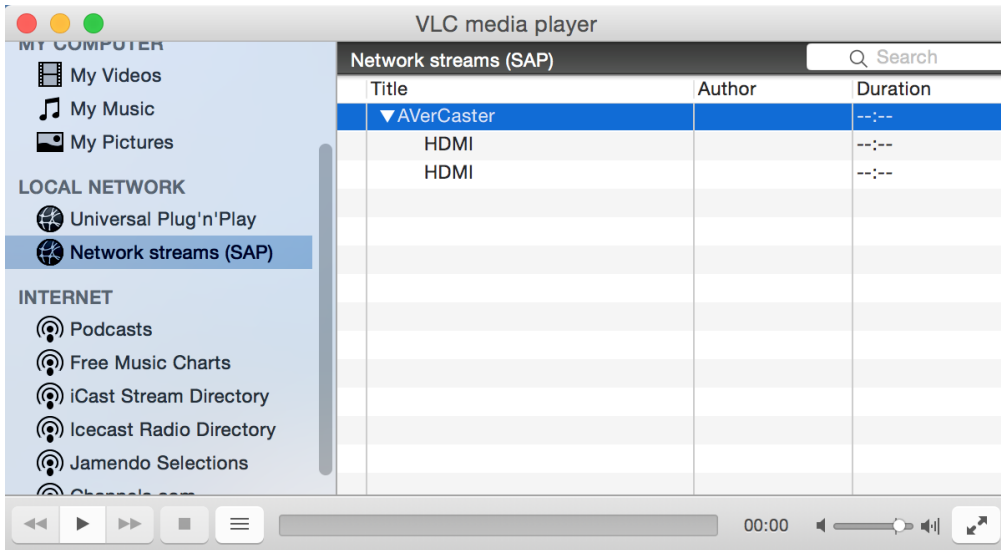
Microphone Enable Disable Mas

Audio Input 3.5mm Aud

Microphone Input 3.5mm Micr

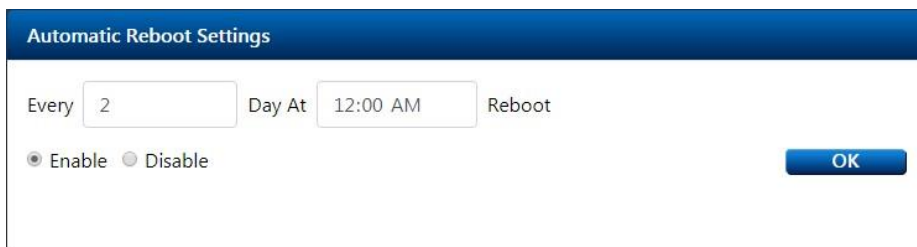
No.	Channel Name	Stream Type
1	HDMI 1	HLS
	SDI 1	Number of Segments
	SDI 2	
	HDMI 1	
	HDMI 2	
		Segment Duration
		Push Location (URL)

To receive SAP information in VLC



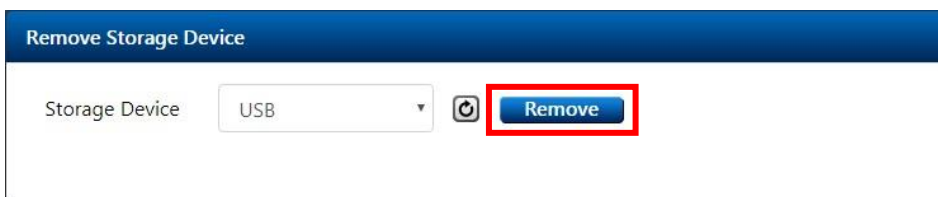
Automatic Reboot Settings

For maintenance purposes, SE5820 can restart in scheduled day intervals and specified hour of day. Please note that after a power-down or power-cycle, the reboot timer will reset. For example, if SE5820 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.



Remove Storage Device (SD Card / USB Drive)

SE5820 supports recording to external storage such as a SD card or USB drive. If you have an external storage connected to your SE5820 and want to remove it properly, go to "Administration" → "Remove Storage Device" → click "Remove" to safely remove the storage device.



Open Source Information

Module name: uClibc

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Version 3, 29 June 2007

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Module name: curl

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Module name: ezxml

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* =====
*

* This product includes cryptographic software written by Eric Young (eyay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).
*

*/

Module name: libupnp

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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: gst-plugins-good

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Module name: gstreamer

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Module name: liboil

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Module name: ffmpeg

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Module name: mtd-utils

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Module name: goahead

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Module name: igmproxy

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Module name: ntfs-3g

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