



Milesight-Troubleshooting

How to Use RTMP for Live Broadcast

Camera Version	V4X.8.0.1 or above	Update	2022.4.22
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1. What is RTMP?

Real-Time Messaging Protocol (RTMP) was initially a proprietary protocol for streaming audio, video and data over the Internet, between a Flash player and a server. RTMP is a TCP-based protocol which maintains persistent connections and allows low-latency communication. It can realize the function of live broadcast so that customers can login to the camera wherever there is a network.

2. How to Use RTMP for Live Broadcast?

In this test case, we use YouTube to play the role of the testing platform for live view.

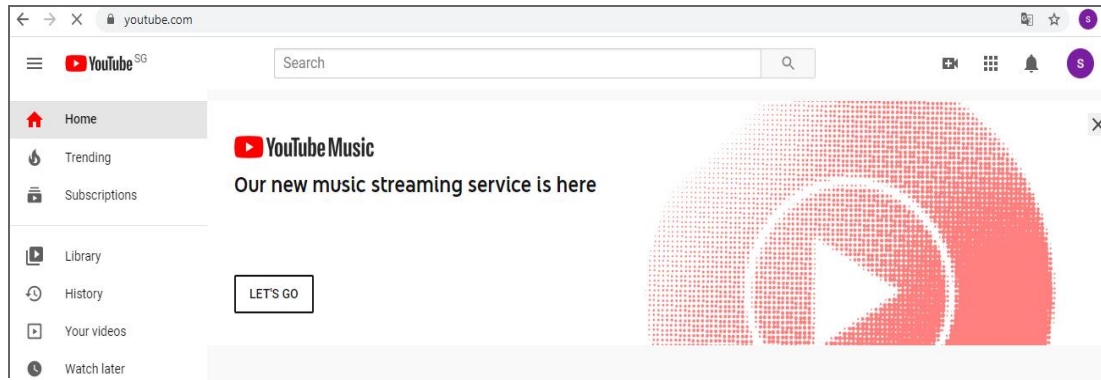
2.1 Preconditions

- IP Camera that can be networked to YouTube.
You can just prepare a computer that can be networked to YouTube, and then directly connect it to the IP Camera which is in the same network segment.
- An activated account of YouTube with which you can do live broadcast in this platform.
- Ensure that your devices are with the correct firmware versions (Camera firmware: V4X.7.0.73.r6 or above).
- IP Camera needs to support audio function if you want to play audio in YouTube.

2.2 Configuration procedures

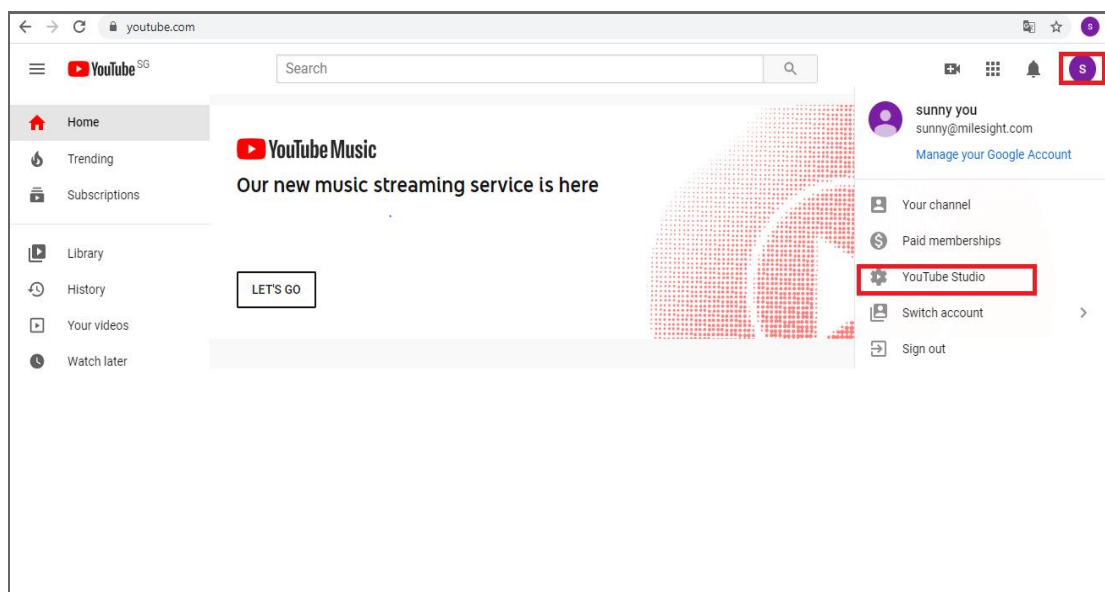
2.2.1 Open YouTube website to get the Server URL and Stream key

Step 1: Open YouTube website.



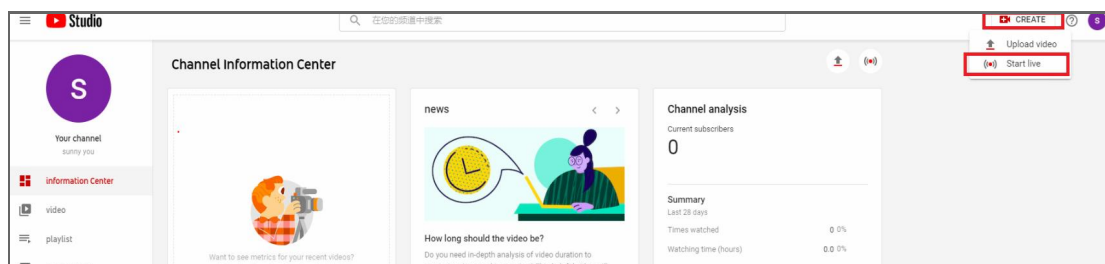
Step 2: Login the YouTube account.

Step 3: Get access to the YouTube Studio (If it is the first time to use, you should create studio firstly.).

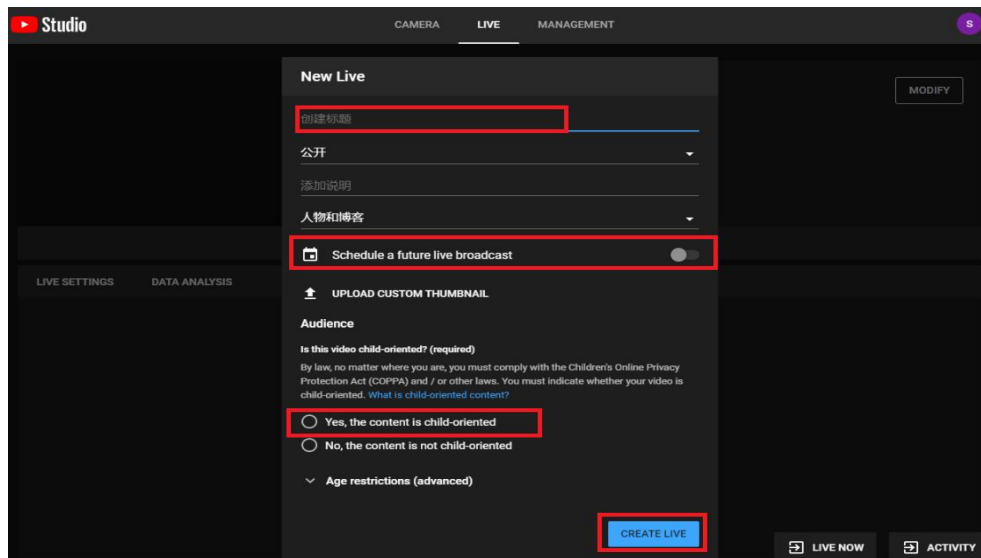


Step 4: Get access to Live broadcast and get the server address.

①: Click the "CREATE" red box marked, and choose "Start live".

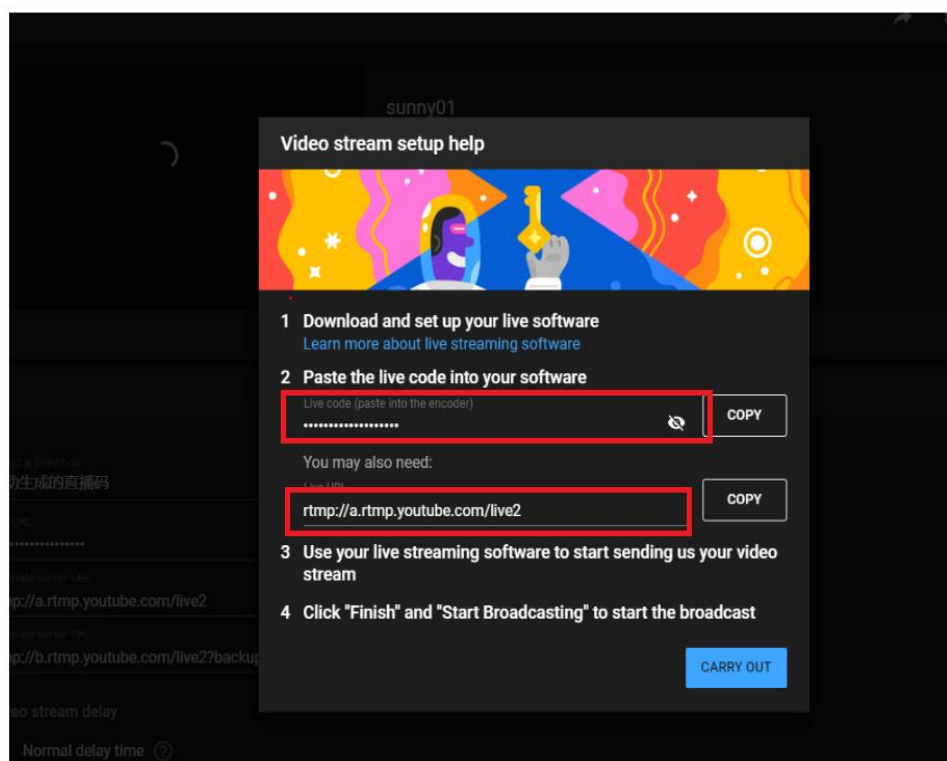


②: Fill in the red box and click "CREATE LIVE".

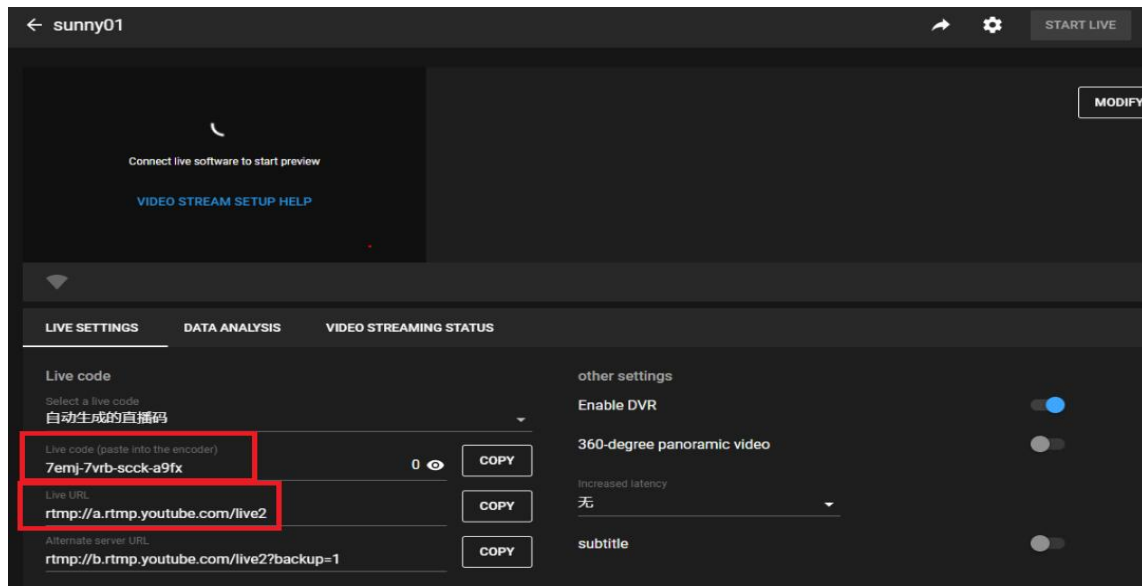


The following useful message with the live URL and Stream key will pop up, you can just click “copy” for the live URL(<rtmp://a.rtmp.youtube.com/live2>) and the live code(7emj-7vrb-scck-a9fx) to form a whole RTMP server address, which is as below in this example:

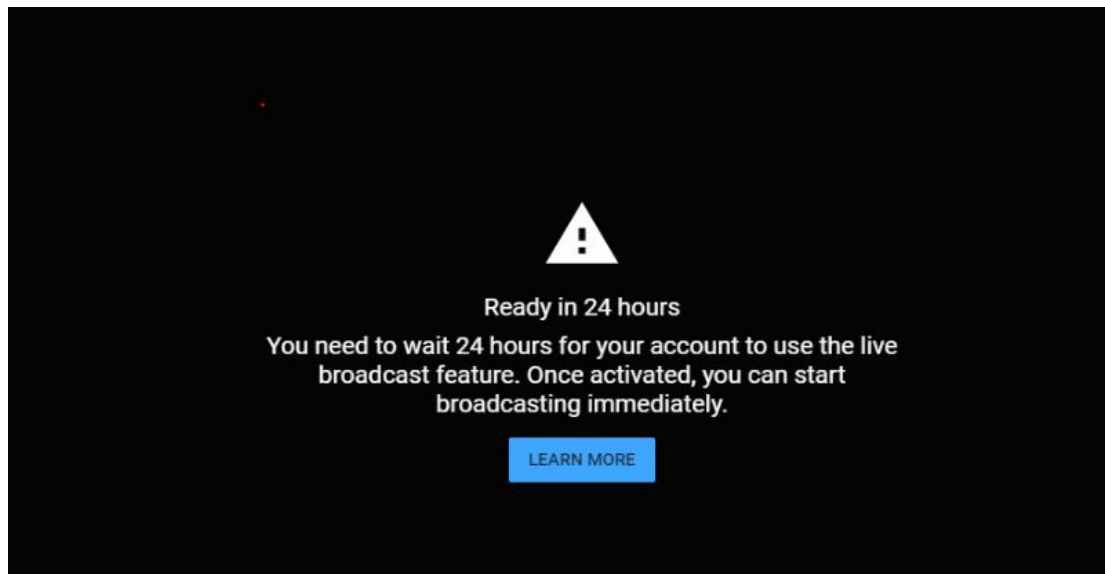
<rtmp://a.rtmp.youtube.com/live2/7emj-7vrb-scck-a9fx>



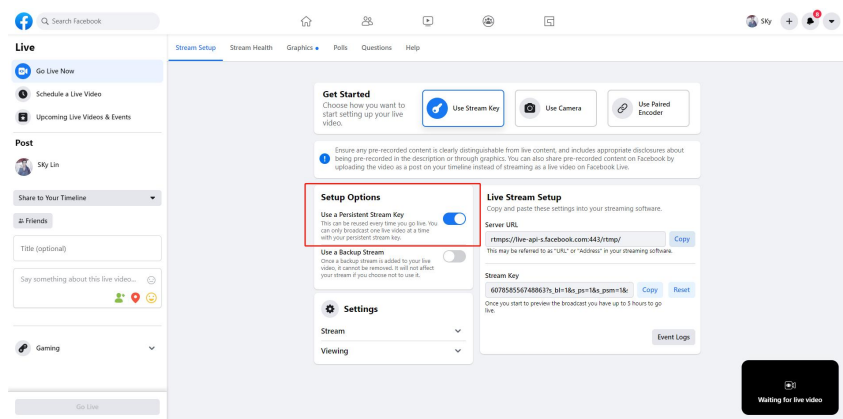
You can also see it here:

**Note:**

1. If you use a newly created account to live broadcast, you need to wait for 24hrs to activate the account for using live function.
2. For RTMP, since G.711 is not available for YouTube, so you can only play video from Milesight IP camera with H.264 video coding and AAC audio coding on YouTube.

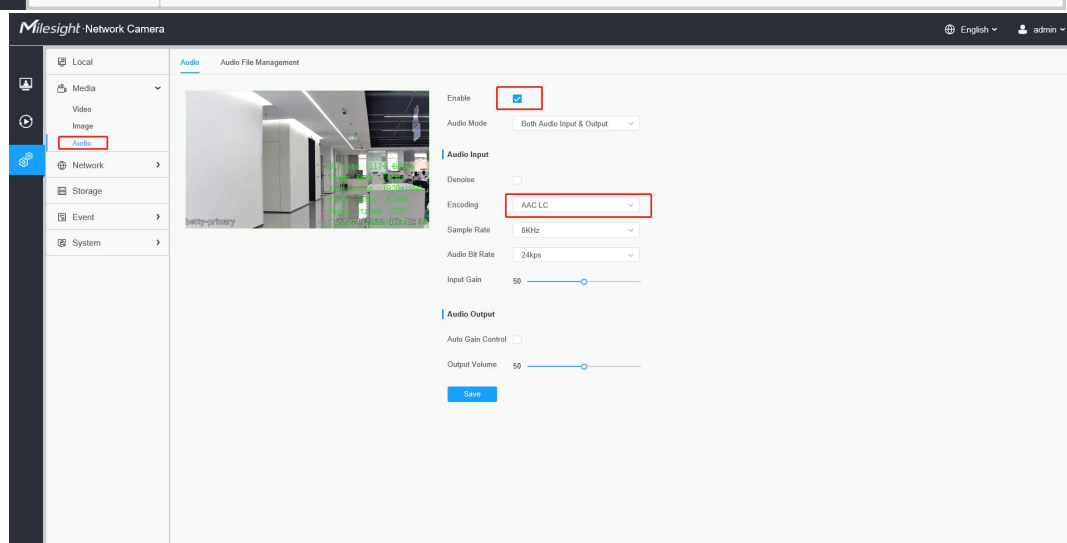
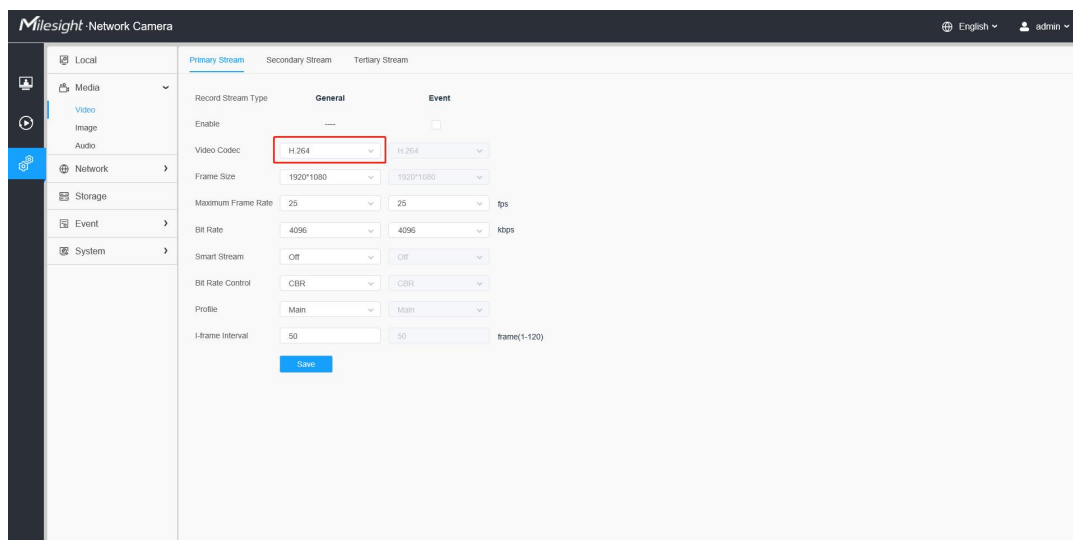


3. If you use Facebook to live broadcast, you need to enable "Use a Persistent Stream Key".



2.2.2 Make configuration for Milesight IP Camera

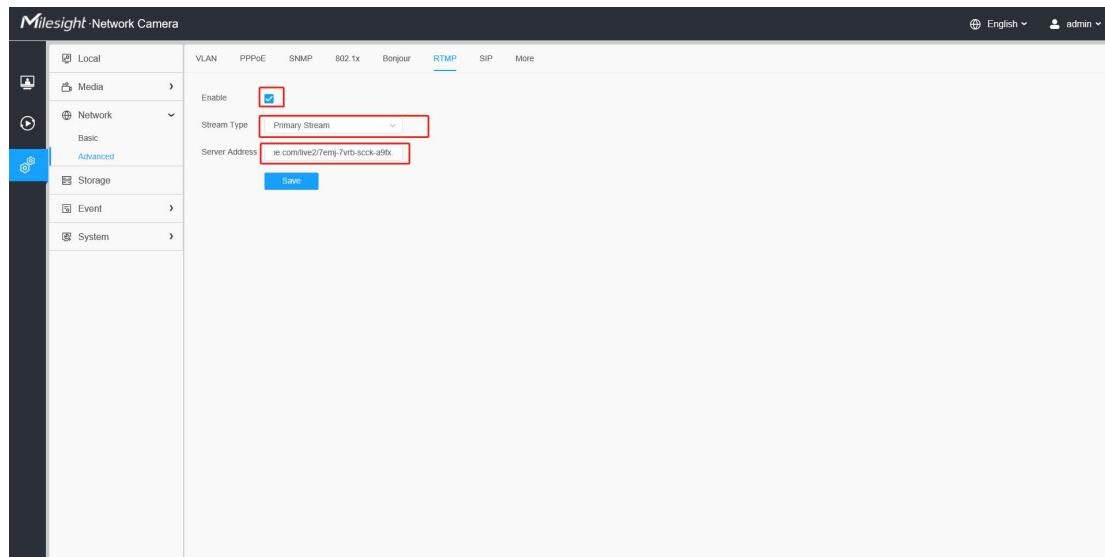
Step 1: Set the video code as H.264, and audio encoding as AAC, considering the limitation of RTMP.



Step 2: Access to Network->RTMP, and make configuration.

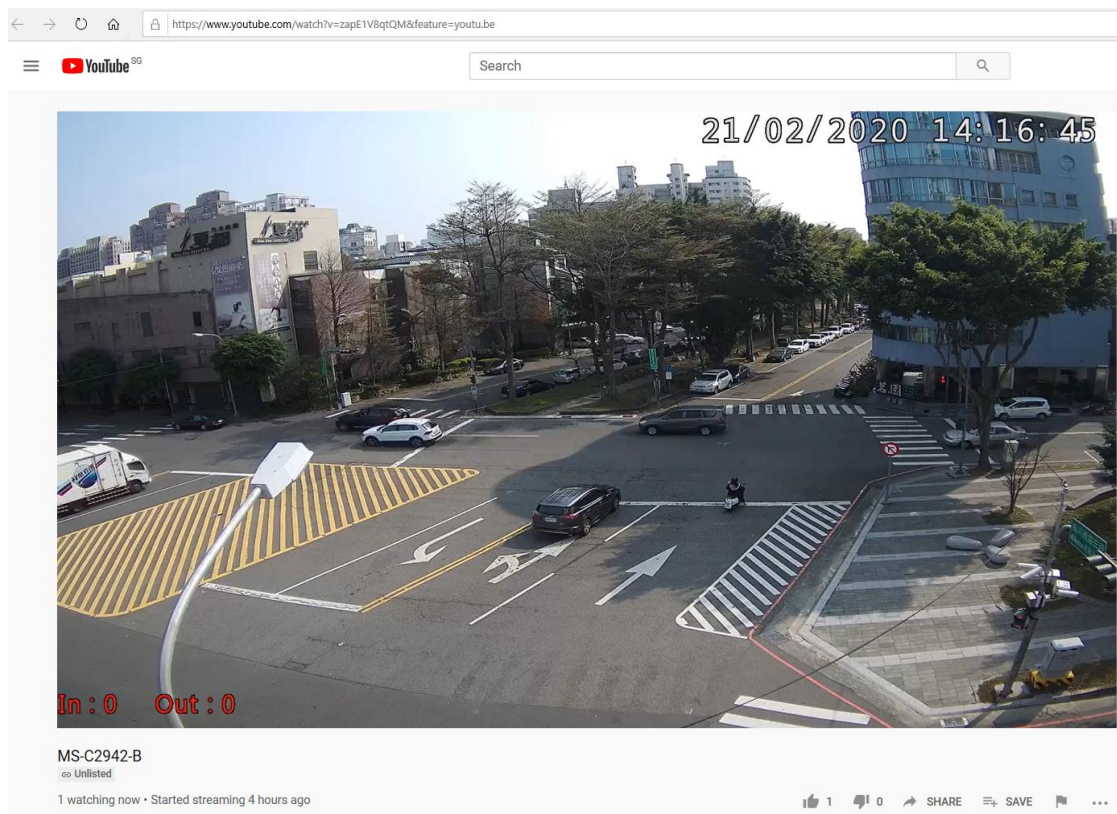
- ①: Enable RTMP.
- ②: Choose the Stream Type.

- ③: Fill in the server address confirmed before.
- ④: `rtmp://a.rtmp.youtube.com/live2/7emj-7vrb-scck-a9fx`.
- ⑤: Save the configuration, and you will see the live view in YouTube.

**Note:**

Server Address in IP Camera RTMP interface needs to be filled with the format: `rtmp://< Server URL >/< Stream key >`, remember it needs '/' to connect between `< Server URL >` and `< Stream key >`.

2.2.3 Watch the Live Broadcast of Milesight IP camera



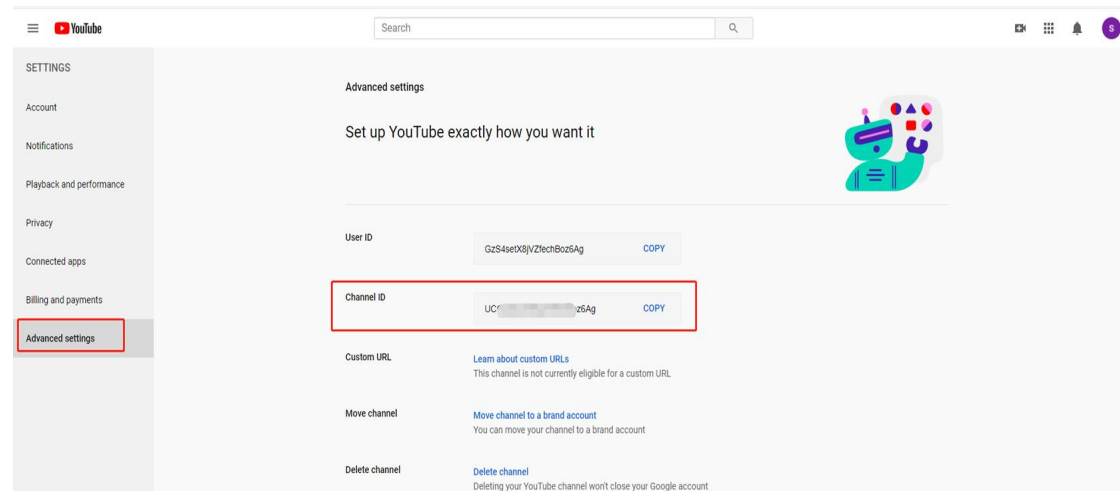
2.2.4 How to use a fixed url to see the Live Broadcast on YouTube?

You can always use the url:

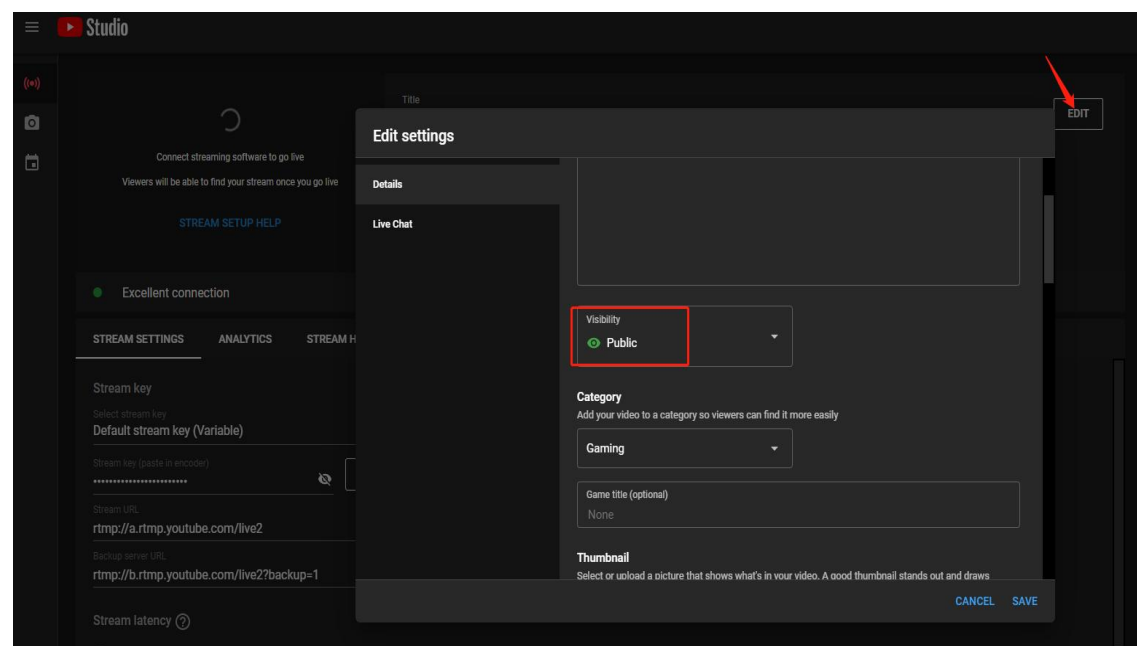
“https://www.youtube.com/embed/live_stream?channel=CHANNEL_ID” on browser to see the Live Broadcast. Even if the live streaming is interrupted temporarily, you can still use this url to see the live broadcast after the streaming recover.

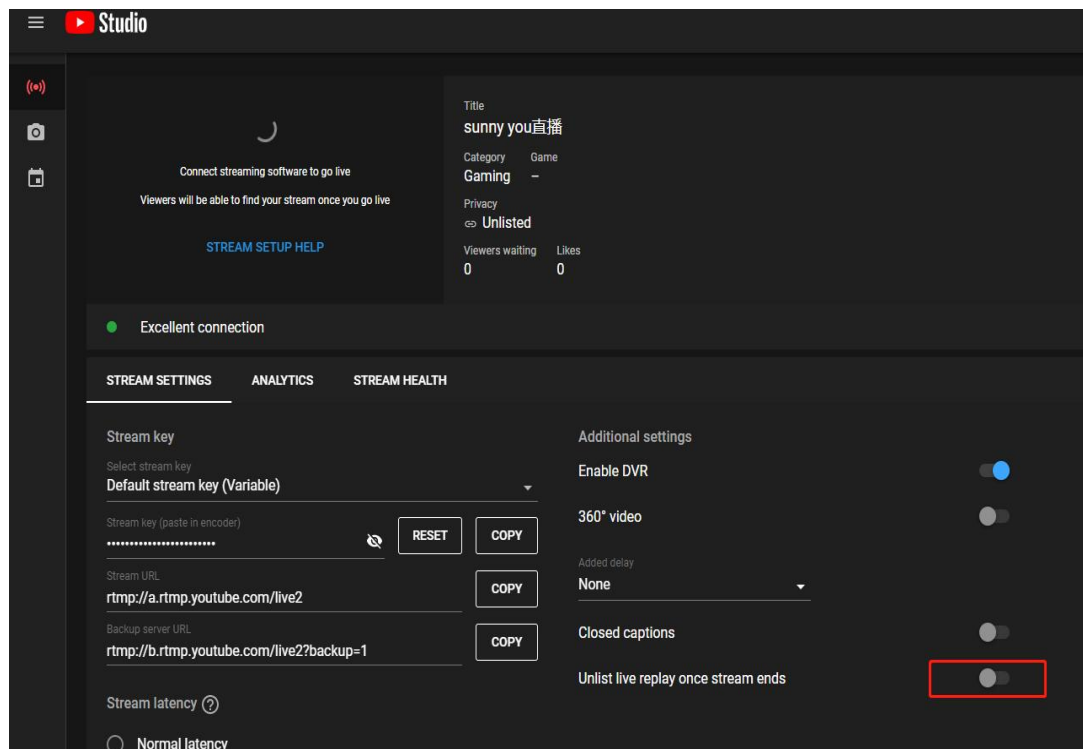
Note:

1. You can check the **CHANNEL_ID** in the advanced settings of your Youtube.



2. Please edit the visibility to “Public“, and disable the “Unlist live replay once stream ends”.



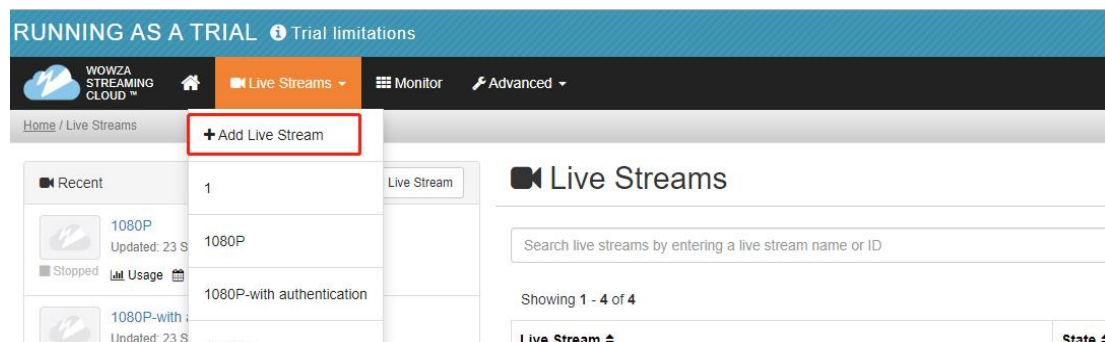


2.3 How to use RTMP on Wowza Streaming Cloud?

Wowza is a live video streaming platform with industry-leading technology delivering broadcast-quality live streaming to any sized audience on any device.

(<https://www.wowza.com/>)

Step 1: Log in your Wowza account and Add Live Stream.



Step 2: Set stream name and your location.

Add Live Stream: Live Stream Setup

Hide Help »

1. Live Stream Setup

2. Video Source and Transcoder Settings

3. Playback Settings

4. Hosted Page Settings

5. Review Settings


What is the name of your live stream?*


MS-Test


Which location is closest to where you're broadcasting from?


24X7 This location supports 24x7 billing.


4K This location supports 4K streaming.


Asia Pacific (Australia)
4K 24X7


Asia Pacific (India)
4K 24X7


Asia Pacific (Japan)
4K 24X7


Asia Pacific (S. Korea)
4K 24X7

Asia Pacific (Singapore)
4K 24X7

Asia Pacific (Taiwan)
4K 24X7

EU (Belgium)

EU (Germany)

EU (Ireland)

Step 3: Choose RTMP as video source, and disable authentication.

Add Live Stream: Video Source and Transcoder Settings

Hide Help »

1. Live Stream Setup

























2. Video Source and Transcoder Settings

3. Playback Settings

4. Hosted Page Settings

5. Review Settings


What camera or encoder will you use to connect to Wowza Streaming Cloud?


 Wowza Streaming Engine™	 Wowza ClearCaster™	 Wowza GoCoder™	 Web Browser (WebRTC)	 MediaDS™ NewTek & Wowza	 Axis	 Epiphan
 Hauppauge	 JVC	 LiveU	 Matrox	 NewTek TriCaster	 Osprey	 Sony
 Telestream Wirecast	 Teradek	 vMix	 XSplit	 IP Camera	 Other RTMP	 Other RTSP
 Other SRT	 Other UDP	 Stream From File				


Step 4: Finish the settings of Playback, Hosted Page and Review. (You can just keep default settings.)


Add Live Stream: Playback Settings


Hide Help >


1. Live Stream Setup


2. Video Source and Transcoder Settings


3. Playback Settings


4. Hosted Page Settings


5. Review Settings

Step 5:Then the Live Stream is created. You can get server address and stream name(key).

VIDEO THUMBNAIL

To connect your video source, you must start the live stream.

[▶ Start your live stream now](#)

Not started

STATISTICS

Inbound: Connected	--
Inbound Bitrate: Actual	--
Outbound Bitrate: Actual	--
Outbound Bitrate: Configured	9168.0 Kbps
Frame Size	1280x720
Frame Rate	--
Keyframe Interval	--
Total Unique Viewers	0
Current Unique Viewers	--

Hosted Page URL Playback setup is in progress...

Source Connection Information

Primary Server	rtmp://45baad.entrypoint.cloud.wowza.com/app-9w7Wm5d3
Host Port	1935
Stream Name	b78db5cd
Disable Authentication	Yes

Step 6:Fill in server address on camera's RTMP settings.

VLAN PPPoE SNMP 802.1x Bonjour RTMP SIP More

Enable ☒

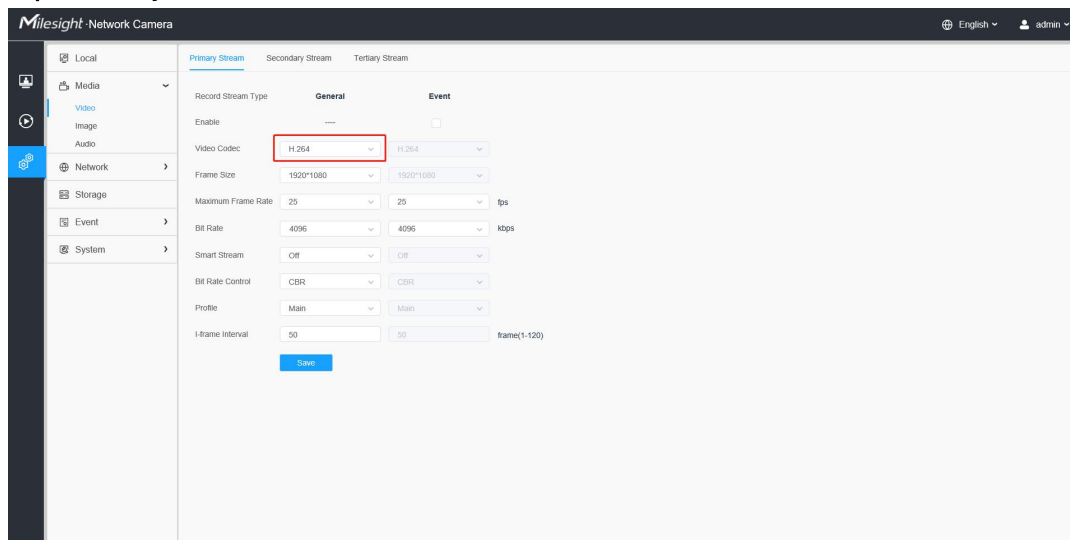
Stream Type Primary Stream

Server Address a.com/app-9w7Wm5d3/b78db5cd

Save

For example, the Primary Server is "rtmp://45baad.entrypoint.cloud.wowza.com/app-9w7Wm5d3", Stream Name(key) is "b78db5cd", then you should fill in the Server Address like "rtmp://45baad.entrypoint.cloud.wowza.com/app-9w7Wm5d3/b78db5cd" on camera.

Step 7: Modify camera's codec to H.264.



Step 8: Then you can start the Live Stream on Wowza.

Live stream stopped.

MS-Test

Status: stopped - Last stopped on 29 September 2020 03:41 PM CST by April Luo

▶ Start Live Stream

Overview Health Live Stream Setup Video Source and Transcoder Playback Hosted Page

VIDEO THUMBNAIL

To connect your video source, you must start the live stream.

▶ Start your live stream now

Not started

STATISTICS

Inbound: Connected	--
Inbound Bitrate: Actual	--
Outbound Bitrate: Actual	--
Outbound Bitrate: Configured	9168.0 Kbps
Frame Size	1280x720
Frame Rate	--
Keyframe Interval	--
Total Unique Viewers	0
Current Unique Viewers	--

MS-Test

Status: started - Started on 29 September 2020 03:42 PM CST by April Luo

■ Stop Live Stream **↺ Reset Live Stream**

Overview Health Live Stream Setup Video Source and Transcoder Playback Hosted Page

VIDEO THUMBNAIL

Started 29 September 2020 03:42 PM CST

STATISTICS

Inbound: Connected	Yes
Inbound Bitrate: Actual	2222.9 Kbps
Outbound Bitrate: Actual	3054.1 Kbps
Outbound Bitrate: Configured	9168.0 Kbps
Frame Size	1280x720
Frame Rate	25 FPS
Keyframe Interval	50 GOP
Total Unique Viewers	0
Current Unique Viewers	0

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