

# Milesight-Troubleshooting How to Use RTMP for Live Broadcast

Milesight Technology Co.,Ltd.



## 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.

$\leftarrow \rightarrow$	X 🔒 youtube.com			l	<b>N</b> 7	۵ (S
≡	▶ YouTube <sup>SG</sup>	Search	Q. 🖬		Ļ	s
<b>A</b>	Home					×
\$	Trending	YouTube Music				
ā	Subscriptions	Our new music streaming service is here				
	Library					
Ð	History	LET'S GO				
Þ	Your videos				and the second se	
C	Watch later					

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.).

$\leftarrow \rightarrow$	C 🔒 youtube.com					le ☆	3
≡	YouTube <sup>SG</sup>	Search	Q		₿( 111	<b>A</b>	S
<b>ন</b> ৩	Home Trending	► YouTube Music		2	sunny you sunny@milesight.co Manage your Google	m Accou	nt
Ō	Subscriptions	Our new music streaming service is here		8	Your channel		
	Library			0	Paid memberships		
Ð	History	LET'S GO		12	You lube Studio		
Þ	Your videos			۳	Switch account		>
O	Watch later			€	Sign out		

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

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

🗏 💽 Studio	C	2、 在您的烦道中提索			CREATE 2
Chan	nel Information Center			(*)	Upload video     (•) Start live
		news <	> Channel analysis Current subscribers		
sunny you			0		
🖸 video			Summary Last 28 days Times watched	0.0%	
≡, playlist	Want to see metrics for your recent videos?	How long should the video be? Do you need in-depth analysis of video duration to maximize views and interaction? This helpful video will	Watching time (hours)	0.0 0%	
Eill in the r	ed hoy and c	lick "CREATE LIVE"			
		SICK CREATE LIVE .			
Studio		CAMERA LIVE M.	ANAGEMENT		S
		New Live			MODIFY
		创建标题			
		公开			
		人物和博客	<u> </u>		
LIVE SETTINGS	DATA ANALYSIS	Schedule a future live broadcast	•>		
		UPLOAD CUSTOM THUMBNAIL			
		Audience			
		By law, no matter where you are, you must comply with Protection Act (COPPA) and / or other laws. You must i child-oriented. What is child-oriented content?	the Children's Online Privacy ndicate whether your video is		
		Yes, the content is child-oriented			
		No, the content is not child-oriented			
		<ul> <li>Age restrictions (advanced)</li> </ul>			
			CREATE LIVE	E LIVE NOW	

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

sunny01
Video stream setup help
1 Download and set up your live software Learn more about live streaming software
2 Paste the live code into your software
Live code (paste into the encoder)
You may also need:
rtmp://a.rtmp.youtube.com/live2
3 Use your live streaming software to start sending us your vide stream
4 Click "Finish" and "Start Broadcasting" to start the broadcast
CARRY OL

#### You can also see it here:

← sunny01			*	۵	START LIVE
					MODIFY
<u>`</u>					
Connect live software to start preview					
VIDEO STREAM SETUP HELP					
•					
LIVE SETTINGS DATA ANALYSIS VIDEO STREAMI	NG STATUS				
Live code		other settings			
Select a live code		Enable DVR			
目动生成的直播码					
Live code (paste into the encoder)	СОРУ	360-degree panoramic video			•
7emj-7vm-scck-a9ix	<u> </u>				
rtmp://a.rtmp.youtube.com/live2	COPY	无			
Atternate server URL	СОРУ	subtitle			•

#### 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.





## 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.

<b></b>	Milesight		Basic Settings >> Video				
	Live Video	^	Primary Stream	Secondary Stream	Tertiary Stream		
	Playback		[	Video Codec :		H.264	~
ler.	Local Settings			Frame Size : Maximum Frame Rate :		1080P(1920*1080)	✓ ✓ fps
٥	Basic Settings			Bit Rate :		4096	✔ kbps
	Video			Bit Rate Control :		CBR	× ×
	Image Audio			Profile :		Main	✓
	Network Date & Time				Sav	ve	Tane (1-120)

0	Milesight		Basic S	ettings >> /	Audio				
	Live Video	^	Audio	Audio File N	lanager				
	Playback						Frame Rate 181 Resolution :192 Video Codec :H. Smart Stream Current Connect	ps 0*109 264	
	Local Settings				Enable Audio:	7			
ø	Basic Settings				Audio Mode:	Both Audio I	Input & Output	~	
	Video				Audio Input				
	Image				Denoise:				
Г	Audio			[	Encoding:	AAC LC		~	
	Network				Sample Rate:	8KHz		~	
	Date & Time				Input Gain:		50	_	
o®	Advanced Settings				Audio Output				
<b>I</b>	System	~			Auto Gain Control:				

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

- 1 Enable RTMP.
- (2) Choose the Stream Type.
- Fill in the server address confirmed before.
   rtmp://a.rtmp.youtube.com/live2/7emj-7vrb-scck-a9fx.
- ④ Save the configuration, and you will see the live view in YouTube.

PPoE SNMP

#### 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





-END-