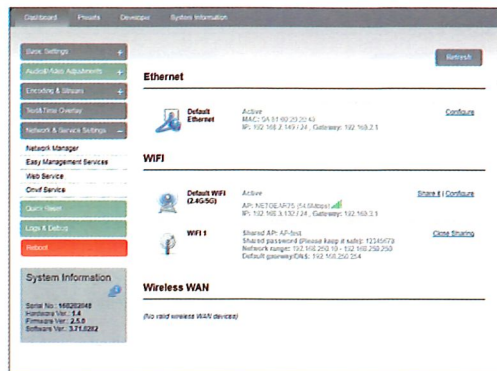# 08 CONNECT WIFI

## Connect WiFi (some models don't support)

Click Web management interface "Network Settings>Network Manager" then click "Configuration" under WiFi for WiFi setting interface. Users could configure according to related parameters of WiFi hotspots. After succeed, it could transmit through wireless network.


09 CONNECT 4G NETWORK
(Some models don't support)

Please insert 4G-LTE modem to USB interface.
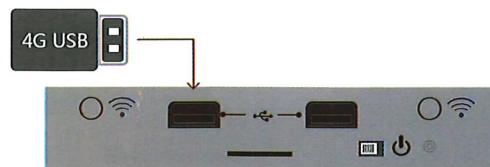
① Click "Network& Service Setting", pull downward, and select "Network Manager". There one 3G/4G device below of the Wireless WAN. If you found this device, it means 4G modem connected;

② Click "configure", manually "add a new wireless network connection", then entering details according to your local 4G operators;

③ After configuration, go back to "Network Manager", 3G/4G device shows connected and got one IP address, which could be used for pushing stream by use of 4G connection.
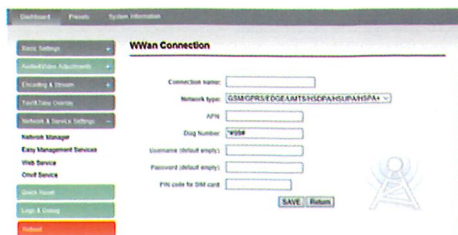
10 RTSP AND RTMP LIVE STREAMING

RTSP streaming

The RTSP service is always enabled for the device. All the decoders which support RTSP protocol and H.264 decoding can connect and get stream from the device.
The default RTSP accessing URL is:
Main: rtsp://<encoder IP address>/ch01
SUB: rtsp://<encoder IP address>/sub01

Note: "Ch01", "sub01"is the RTSP session ID. You can change the session ID in the Web console.
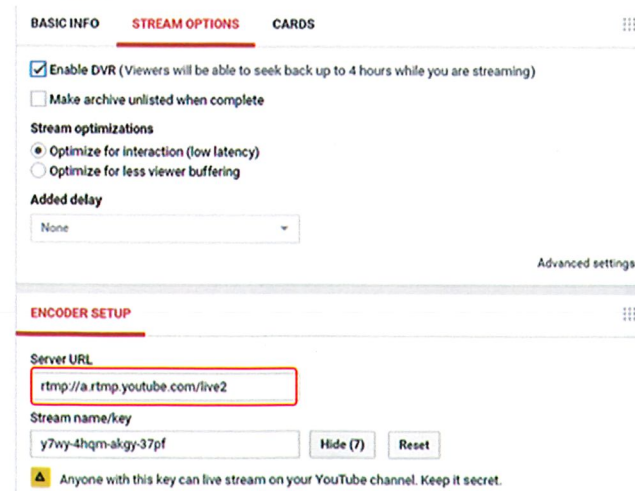
RTMP live streaming

Our device's H.264 main/sub stream supports adding up to 8 same or different streaming media service, to meet your needs of adopting same/different stream media protocols for multi-goal pushing.
On the management interface of "Encoding&Stream-Encoding and Stream Settings", for main/sub stream to choose "add one stream service", uses can add your needed service type. Currently main video live streaming platforms require "RTMP" service. After adding RTMP pushing service, click set icon to configure RTMP parameters.
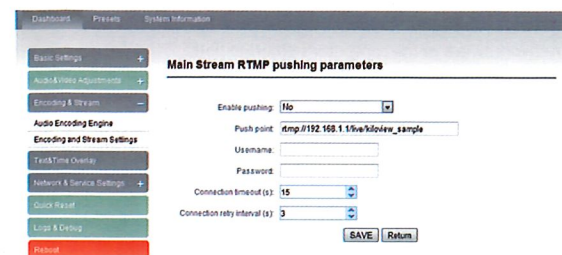
11 RTMP LIVE STREAMING
Take YouTube for an example

① Choose "LIVE STREAMING" and click "Get started". After verified successfully, it comes into LIVE STREAMING interface, choosing "Streaming options".

② Then it will show two lines characters given by YouTube: the first line (Server URL) is RTMP address give by YouTube, copy and paste it to the encoder that you are using; the second line (Stream name/key) is streaming name and key served for verification, reveal it, copy and paste is to the encoder.

③ Entering into encoder, click Network settings-Media Publishing Parameters. Pushing point should be like Server URL+/+Stream name and key, for example: rtmp://a.rtmp. youtube.com/live2/y7wy-4hqm-akgy-37pf. Username and password should be blank.

12 RESTORE FACTORY SETTINGS

Restore factory settings

If users change parameters that lead encoder couldn't work (The typical situation is changed network address, so it couldn't be visited encoder by network), users could restore factory setting to default value.

Two methods for restoring factory settings:

① Choose "Basic Settings > Restore factory settings" on the web console
② Hold 'RESET' button:
Hold the 'RESET' button more than 3 seconds.

Restoring factory setting will lead to the device reboot, and restarting course will last about 20S.

NOTE:

These parameters will be restored after restoring factory setting:
● Login username and password will be turned to admin;
● The IP address will be restored to 192.168.1.168 and subnet mask is 255.255.255.0;
● All the video/audio encoding settings will be restored;
● Streaming settings will be restored.

13 FIRMWARE UPGRADING

Firmware upgrading

This device supports online firmware upgrading for upgrading software. Select "Basic Settings", pull downward and click "Update firmware". On the page, click "Browse" to select the upgrading file, and click "Upgrade" to upgrade the device.

NOTES:

● After uploading firmware file successfully, the encoder will automatically restart, this process will take about 30s-60s (the time will be different according to upgrade content), and please be patient.
● After the upgrade is complete, via the Web interface "system information>version information"to check whether the latest version information in accordance with expected and confirm the upgrade succeeded.

14 QUICK RESET AND REBOOT

Quick Reset and Reboot

"Quick Reset" function is to reset encoding service, normally used for making changed parameters to effect immediately. The whole process lasts around 2s.
"Reboot" function is used for encoder reboot. Device rebooting lasts around 20s.

NOTE:

● Select "Quick Reset", current encoding will be suspended for a while;
● Select"Reboot", the encoder will 'warm' reboot.
● Under some circumstances, reboot may be with the help of 'cold' reboot: power down then power up the device.

QUICK START GUIDE

SDI Series

HD Video Encoder

—

+2017

REV. 3

- Thank you for purchasing SDI Series video encoder. Before installing our product, please read this user manual carefully. Please strictly follow our manual to install and use our encoder, or install and use under guiding by professional person, to protect your body safety and to avoid the encoder damage from physical and electrical. The encoder may be damaged if incorrect electrical connection or the physical installation, even threaten the operator safety.

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01 PACKING LIST

Packing list

Video encoder, two wireless antennas (some models don't have), one power supply (DC12V/1A), user manual and product certification.

Note:

Due to products updating, packing lists will be a little difference.

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02 DEVICE INTERFACES

1. WiFi Antenna(some models don't have)
2. USB Interface
3. SD/TF Card storage
4. Power Switch
5. Reset

6. Power input
7. Mini-USB
8. Audio output
9. Audio input
10. HD-SDI Input
11. HD-SDI Loop
12. Ethernet Interface
13. Status LEDs

Note:

USB interface can insert 4G USB Modem (some models don't support), USB storage device and USB to RS232/RS485 adapter.

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03 INSTALLATION AND CONNECTION

Connect SDI signal

SDI signal to encoder's SDI input portthrough cable from the signal source (such as camera). Loop interface could loop out signal.

CAMERA   MONITOR

Connect audio signal

Through 3.5mm analog, it can be accessed analog audio signal.(For encoding usage, refer to analog audio output for extensible function).

Analog audio output   Analog audio input

Connect internet

Connect one end of the network cable to the encoder Ethernet port. The other end is connected to the network switch or the computer's Ethernet port.

Connect to switch or Ethernet port of your computer

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04 LED INDICATOR LIGHT DESCRIPTIONS

① Power up

After connected, 📶 📱 ☁ 🔊 indicator lights will flashing alternately between"red and green". Signal/RUN off, POWER is on. When it works normally, indicator lights will go to below status, which lasts 10-15S.

② Indicator lights

Name	Color	States	Descriptions
RUN	GREEN	FLASHING	Device starts to encode, or restore device to factory settings (and LINK lights flashing simultaneously).
		OFF	Device not works properly, not started
SIGNAL	GREEN	ON	SDI signal input is normal
		FLASHING	When restore device to factory settings, SIGNAL light is flashing
		OFF	No SDI signal input/power failure
POWER	RED	ON	Power supply is connected
		OFF	Power supply is not connected
		FLASHING	Device failure

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05 WORKING STATUS INDICATION

③ Working status indication

📶	OFF: No WiFi/4G connection	Aways on	Flashing
	GREEN	Wifi connected	Wifi is connecting
	RED	Wifi connection failure	4G connection failure
	YELLOW	Wifi connected	4G is connecting

📱	OFF: No SD/TF card	Aways on	Flashing
	GREEN	SD/TF card inserted but not record	Recording
	RED	SD/TF not identified	SD/TF failure
	YELLOW	No enough storage space	Warning for recording failure

☁	OFF : Stream media service is not open	Aways on	Flashing
	GREEN	Stream media service is ready	Pushing to Internet
	RED	Stream media service abnormal	Abnormal pushing

🔊	OFF : No audio supported		
	GREEN	SDI embedded audio	
	RED	Audio failure	
	YELLOW	Analog audio	

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06 SELECT VIDEO/AUDIO SIGNAL SOURCE

Click "Audio&Video Adjustments > Video Source and Adjustment" or "Audio&Video Adjustments > Audio Source and Adjustment" in the Web console, you can select video and audio source.

Video/Audio source options:

PARAMETER	OPTION	DESCRIPTION
Video source port	SDI video input	Input , loop
	Auto	SDI embedded digital audio
Audio source port	SDI embedded audio	SDI embedded digital audio
	Analog audio input	Line in

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07 DEFAULT IP ADDRESS AND WEB LOGIN

The default IP address is 192.168.1.168 with subnet mask 255.255.255.0. You can login WEB console to change the addresses.

Login the WEB console

Open your web browser and access:http://<device IP address>
For example, the factory default IP address is 192.168.1.168, you can access http://192.168.1.168, to login the Web console.

Login username : admin ; password : admin