

Quick Start Guide

SDI&HDMI
4K UHD Video
Decoder/Media Gateway

+2020
REV. 1

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

01 Packing List

Packing List

Video decoder/Media Gateway*1; Power Adaptor *1;
Operation Manual *1; Warranty Card*1

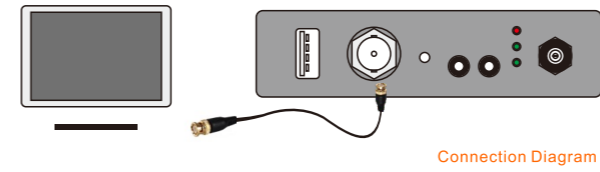


Note:
There will be some difference due to the updating of the device .

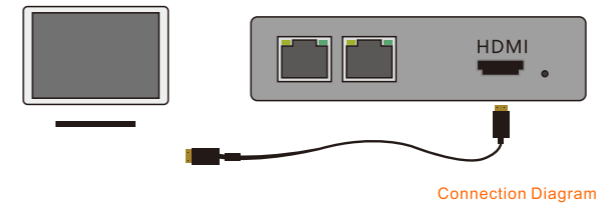
03 Device Installation

Device Installation

Connect to SDI Monitor
Connect the video decoder with SDI monitor via SDI cable



Connect to HDMI Monitor
Connect the video decoder with SDI monitor via the HDMI cable



04 Led Indicators

Led Indicators

Name	Color	Status	Instructions
POWER	RED	Always on	Power connected
		OFF	Power off
RUN	GREEN	Always on	Normal signal
		Flicker	signal unlocked or restore factory Settings indication abnormal signal
LINK	GREEN	Always on	Network connected
		Flicker	restore factory Settings indication Network disconnected

Name	Status	Instructions
SDI status light	On	SDI output connected
	OFF	SDI output disconnected
HDMI status light	On	HDMI output connected
	OFF	HDMI output disconnected

02 Device Interfaces

Device Interfaces



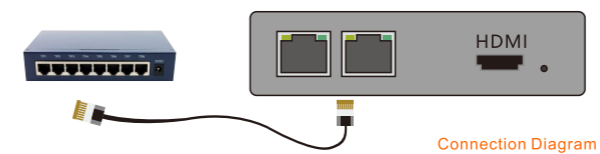
- 1 USB Extend
- 2 SDI Status Light
- 3 SDI Output
- 4 Reset
- 5 Audio Output
- 6 Audio Input
- 7 Working Status Light
- 8 Power Interface



- 9 100/1000M Ethernet 1
- 10 100/1000M Ethernet 2
- 11 HDMI Output
- 12 HDMI Light

Connect Network

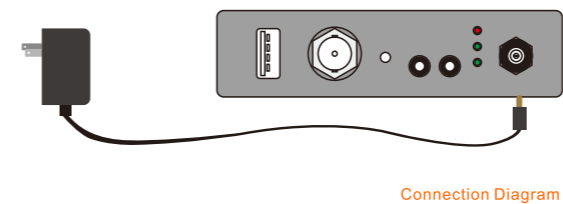
Connect the video decoder with network switch, you can also connect the video decoder directly with your computer via a network cable.



Notes:
There are two Ethernet ports, you can connect it to two different networks. There are two Ethernet ports, you can connect it to two different networks.

Connect the power supply

Connect the power adaptor with the video decoder, and then input the DC power



05 Login and network configuration

Login and network configuration

Default IP address

There are two Ethernet port, usually you can only configure network 1, which can be used for device management and pull streaming
Two network ports can be used as local and public network separately .

Network 1, Failsafe IP is **192.168.1.168**, the subnet mask is **255.255.255.0**
Network 2, Failsafe IP is **192.168.2.168**, the subnet mask is **255.255.255.0**

Login the Web console browser

If the connect is the network 1, you can access <http://192.168.1.168> to login the Web console.

The default Username: **admin**; Password: **admin**.

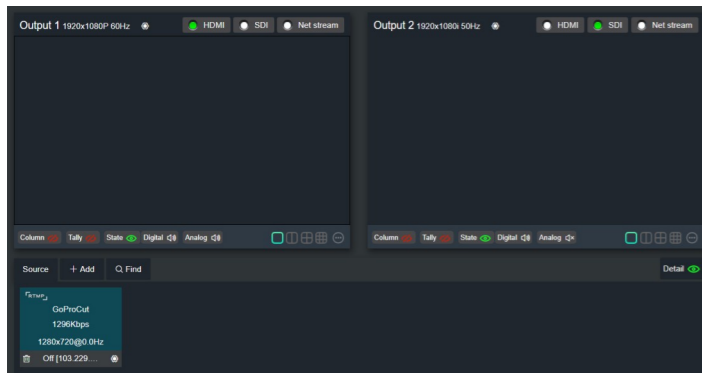
IP address configuration

After login, you can configure the IP according to the network, the IP will be use for pulling stream and device management. You can configure it to manually set the IP or DHCP.

This manual is used to help you to use the decoder easily, please contact the supplier for detailed documents or online help if necessary.

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Video display and output configuration



HDMI output settings

Users can select resolution, frame rate, color space, audio sample rate and audio channel on the "Media" page of the web interface

SDI output settings

All resolutions marked with SDI only are valid on the SDI output interface only. On the HDMI interface, the output resolution will be close to that resolution.

If output to multiple interfaces and some interface can not support the specified resolution, such as 4K resolution can not be supported on SDI, the system will select a resolution that can be supported by multiple interfaces.

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Add video source

Supported decoding protocols:

RTSP/RTMP/RTMPS/RTP/UDP/HTTP/SRT/NDI | HX and so on. First, please obtain the correct video source URL address from other platforms. The video source address that is not working properly will cause the device not to work properly (It's suggested to use VLC Player to test whether the video source is available).

RTMP source configuration

Fill video source IP address in the URL:rtsp://<IP address>/<Name>. For example
rtmp://192.168.3.13/live/myStream.



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Decoding buffer and delay

For a variety of different application scenarios and networks, to balance of delay and fluency of the decoding, the device provides a variety of buffering strategies for users to choose.

Zero buffer, 50ms, 120ms, 200ms, 500ms, 1s are optional. Users can choose on actual network conditions, good network with lower latency, and bad network with higher latency.

Buffer and latency
High latency buffer (~1s)
Zero buffer
Very low latency buffer (~50ms)
Low latency buffer (~120ms)
Normal latency buffer (~200ms)
Higher latency buffer (~500ms)
High latency buffer (~1s)

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Decoding mode selection

Support HDMI (up to 3840x2160@60Hz) and SDI (up to 1920x1080@60Hz) with the same screen or split screen output, users can select multi-screen output with options of 1/2/3/4/6/9 split screen output .

Support H.264/H.265 decoding, support up to 4 channels of 4k video, 8 channels of 1080P 50Hz/60Hz video decoding output simultaneously.

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Streaming service (only Media Gateway support)

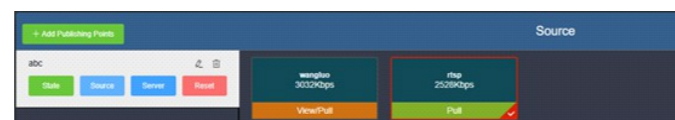
It supports multi-protocol conversion of input video streams and dynamic switching of media sources. For example, input video streams RTSP, RTMP, UDP and other protocols can be converted to the same or different protocol streams through stream service functions. Output stream protocols only support RTSP/RTMP/SRT.

Add Publishing Points

Add Publishing Point"-Name"and enter the name to confirm the addition of a Stream Service Publishing Point.Generally, four streaming services can be added to a publishing point

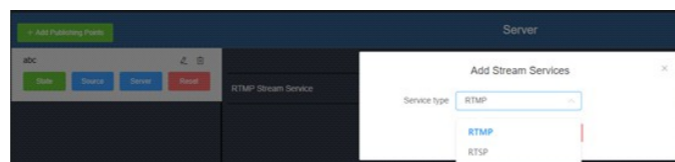
Source selection

Click"source selection",according to the screen requirements that need to be output, you can click to select the video source you want to output.



Streaming services

Click"Streaming services-Add Stream Services",select the type of service you need to add, support RTSP and RTMP.



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Restore Factory Setting

Restore factory settings

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

Ways

Hold the 'RESET' button more than 6 seconds, the device will restore factory settings. Restoring factory setting will lead to the device 'cold' reboot, and the whole process will last about one minute.

Note:

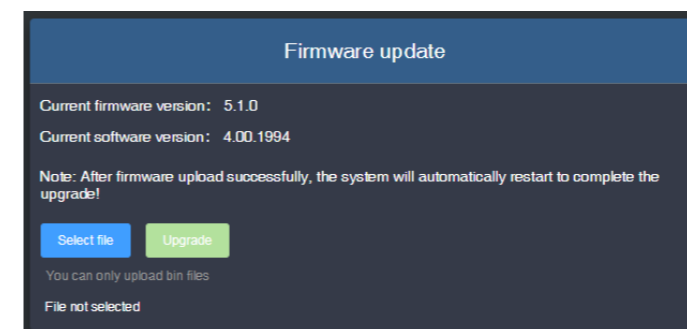
Below parameters will be restored after restoring factory setting:

- Login username and password will be turned to **admin**;
- The IP address of Ethernet1 will be restored to **192.168.1.168**;
The IP address of Ethernet2 will be restored to **192.168.2.168**;
- All the video/audio decoding settings will be restored;
- Streaming settings will be restored.

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Firmware upgrading

The device supports online firmware upgrading for upgrading software. Select "System Setup", pull downward and click "Firmware". On the page, click "Select File" to select the upgrading file, and click "Upgrade" to upgrade the firmware.



Note:

• After uploading firmware file successfully, the decoder 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 top right corner of the web" ? " to check whether the latest version information in accordance with expected to confirm the upgrade is successful.

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Quick reset and reboot

Quick Reset and Reboot

" Quick Reset" is only suitable for resetting video decoding function of the decoder. Due to video signal not stable, parameters setting wrong will make decoding functions abnormal; please try to execute "quick reset". Please kindly wait for about 3s.

- "Quick Reset", "Quick Reset" is only restoring configured decoding parameters, not changing default IP or other configured parameters;
- "Reboot"; is used for executing warmreboot. When "quick reset" couldn't solve problems, please try "Reboot". The whole process will last around one minute;
- Under some circumstances, reboot may be with the help of 'cold' reboot: power down then power up the device.

Note:

It is not suggested to use the way of 'cold' reboot quite often, as it may cause bad influence on device hardware and software.