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VIDEO OUTPUT SETTING

DVI/HDMI output formats setting

Users could specify wanted output resolution and frame rate in the video output formats options under “Display settings>DVI-I output format” in the WEB console. Once actual encoding video formats is different from configured output format, the decoder will auto enable Scale function, scaling original video to the target format.

VGA output format setting

VGA output channel shares the same video processor with DVI/HDMI output channel, so VGA output resolution and frame rate will follow DVI/HDMI interface settings.

SDI output format setting

Users could specify wanted output resolution and frame rate in the video output formats options under “Display settings>SDI output format” in the WEB console. Once actual encoding video formats is different from configured output format, the decoder will auto enable Scale function, scaling original video to the target format.

Display image specify parts functions

Display image specify parts functions is to full-screen display part image from original image after decoding to corresponding output interface. SDI/HDMI/DVI/VGA interfaces all support this function.

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AUDIO OUTPUT SETTING

Audio volume adjust

Users could adjust HDMI/SDI analog audio up to 10 levels under “Audio settings” in the WEB console.

3.5mm analog audio output channel choice

When use VGA interface matched with 3.5mm output audio, users could switch 3.5 mm analog audio video source between HDMI and SDI.

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STREAM MEDIA PROTOCOLS SUPPORTED

RTP receive decoding configuration

Changing “decoding protocol” as “RTP receive”, then fill video and audio port as below and click “SET” to effect decoding.

TS receive decoding configuration

Changing “decoding protocol” as “Decided by URL”, then filling receive address in URL: ts://@:<receiving end number>. E.g. ts://@:1234 means decoder receiving TS stream from 1234 port for decoding.

Users could also use ts://@ <multicast address>:<multicast port> to receive TS multicast decoding.

Note:

TS pushing IP address is currently device configured Ethernet access address.

RTSP stream pull decoding configuration

Changing “decoding protocol” as “Decided by URL”, then filling receive address in URL as: rtsp://<pull IP address>/<Session ID>. E.g. if joint with our encoders, address is rtsp://192.168.1.168/ch01.

Note:

RTSP protocol default port is 544, if users need to specify port number, then follow formats like below:

rtsp://<pull IP address>:<pull port number>/<Session ID>.

RTMP stream pull decoding configuration

Changing “decoding protocol” as “Decided by URL”, then filling receive address in URL as: rtmp://<pull IP address>/<Session ID>.

E.g. rtmp://192.168.1.13/live/myStream.

Note:

RTMP protocol default port is 1935, if users need to specify port number, then follow formats like below:

rtmp://<pull IP address>:<pull port number>/<Session ID>.

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RESTORE FACTORY SETTINGS

In order to balance different applications scenarios for delay and decoding fluency, our device provides multi buffer policies for your choice. Different buffer policies setting as below:

Options	Delay (ms)	Descriptions
Buffer size automatically decided by network environment	Floating between the settings	Auto adjust delay and buffer size based on network conditions
No buffer	0	Directly decoding once got data
Real time	50	Default options
Small	100	Default options
Normal	200	Default options
Big	400	Default options
Large (high delay)	800	Default options
User-defined	User specify	User specify fixed buffer value

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RESTORE FACTORY SETTINGS

Restore factory settings

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

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.

Below parameters will be restored after restoring factory setting:

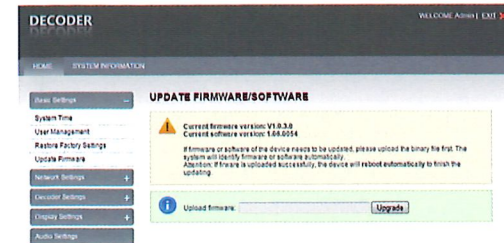
- Login username and password will be turned to **admin**;
- The IP address will be restored to **192.168.1.169** and subnet mask is **255.255.255.0**;
- All the video/audio decoding settings will be restored;
- Streaming settings will be restored.

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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 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 Web interface "system information>version information" 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 that lead decoding functions abnormal, please try to execute “quick reset”. Please wait about 3s.

NOTE:

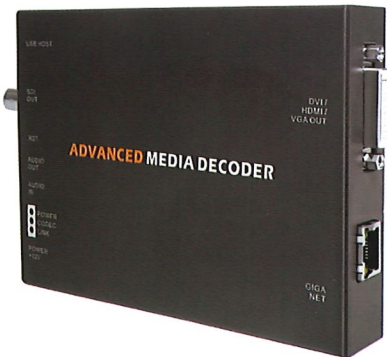
- “Quick Reset”, “Quick Reset” is only restoring configured decoding parameters, not changing default IP or other configured parameters.
- “Reboot”, is used for executing ‘warm’ reboot. When “quick reset” couldn't solve problems, please try “Reboot”. The whole process will last around one minute.
- Under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

QUICK START GUIDE

VGA/HDMI/SDI
Video Decoder

+2017
REV. 3

- Thank you for purchasing HDMI&VGA &SDI 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.



This manual is only for quick start guide.
Details please contact with the supplier.

01 PACKING LIST

Packing list

One decoder, one power supply (DC12V/1A), user manual and product certification.



Note:

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

02 DEVICE INTERFACES



- 1 USB Interface
- 2 HD-SDI output
- 3 Reset
- 4 Audio output
- 5 Audio Input
- 6 Status LEDs
- 7 Power Input

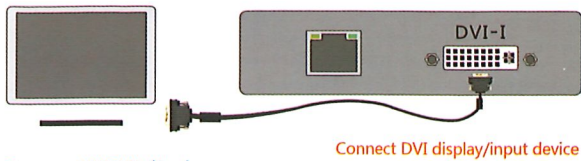


- 8 Internet Interface
- 9 DVI/HDMI/VGA output

03 DEVICE INSTALLATION

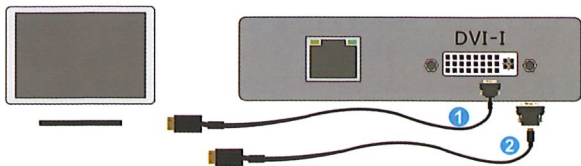
Connect DVI displayer

Using DVI cable to connect DVI video output interface with DVI displayer.



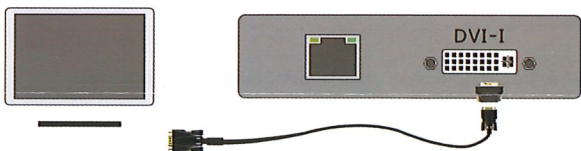
Connect HDMI displayer

Using DVI to HDMI cable to connect DVI video output interface with HDMI displayer (recommended), or by DVI to HDMI adapter with HDMI cable to connect.



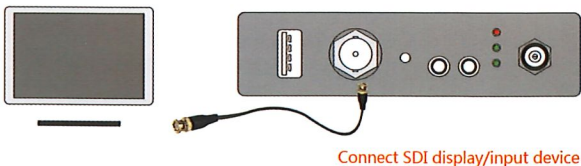
Connect VGA displayer

Using DVI to VGA adapter connected to DVI interface, then with VGA cable to displayer.



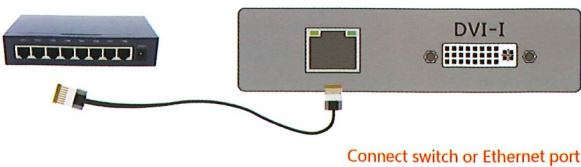
Connect SDI displayer

Using SDI cable to connect SDI output interface with SDI displayer.



Connect internet

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



Note:

The device supports Energy Efficient Ethernet (EEE). Under this mode, Green light will repeatedly flash by the way of 400 ms always on and 2 seconds off.

Connect power

Using the power adapter (DC12V/1A) connected to the device, after the power is turned on, the device starts working.

04 WORKING STATUS INDICATION

After powered on, CODEC and LINK are off. After device connected, CODEC light is always on, means device started.

NAME	COLOR	STATUS	DESCRIPTION
POWER	RED	ON	Powered up
		OFF	No power supplied
		FLASHING	Device failed
CODEC	GREEN	ON	Device started up
		FLASHING	Device is decoding
		OFF	Device is starting up
LINK	GREEN	ON	Network connected
		OFF	Device disconnected or starting up

05 DEFAULT IP ADDRESS AND WEB LOGIN

Default IP Address

The default IP address of encoder is 192.168.1.169 with subnet mask 255.255.255.0. You can login the Web console to change the network addresses.

Login the Web console

Open your web browser and access :

<http://<device IP address>>

For example: the device default IP is 192.168.1.169 so you can access <http://192.168.1.169> to login the Web console.

Login username ; Password