



**FULL NDI TO HDMI, Codec User manual
Reference information, and FAQs**

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Equipment overview

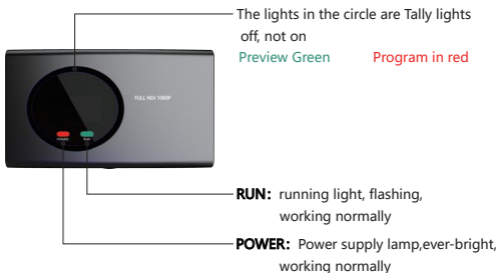
FULL NDI 1080P Encoder / decoder: Integrated NDI company' s SDK, compatible with all FULL NDI products in the market. It can be used as a HDMI TO FULL NDI encoder or FULL NDI TO HDMI decoder (Selectable through UI interface).



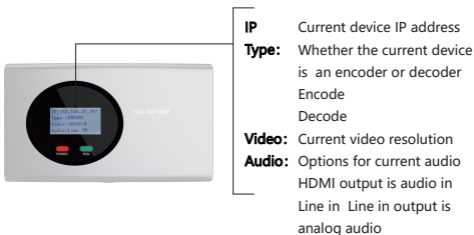
- Support FULL NDI, codec
- The encoding end supports the HDMI loop out
- The HDMI input resolution is as follows:
1080P60, 1080P59.94, 1080P50, 1080P30, 1080P29.97, 1080P25,
1080P24, 720P60, 720P50
- Support for POE power supply
- The PTZ controls the video camera
- Support for TALLY light display
- Support audio adding and de-embedding
- Can be configured via the WEB UI inputs

Port description

1. Appearance and Function Description

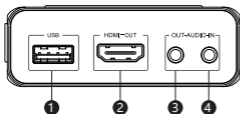


2. Screen Display

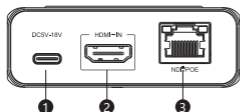


Port description

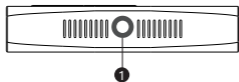
3. Port Description



- ❶ **USB:** the encoder connects USB to 232 wire to control PTZ
- ❷ **HDMI-OUT:** Encoder HDMI local loop out
Decoder HDMI output
- ❸ **OUT-AUDIO:** Encoder is useless
Decoder audio output
- ❹ **AUDIO-IN:** Encoder Analog audio input
Decoder not working



- ❶ **DC5V-18V:** TYPE-C power supply
- ❷ **HDMI-IN:** Encoder, HDMI signal input
Decoder, HDMI port has no function
- ❸ **NDI/POE:** Gigabit network interface, with POE power supply
Encoder NDI output
Decoder NDI input



- ❶ 1/4-20 nut is used to connect accessories

WEB UI Interface description

1、login UI interface method: view the screen display
IP:192.168.31.188. Change the computer IP to 192.168.31.X (not the same IP as the device), connect the device and computer directly through a network cable, or connect the device computer to a Gigabit switch.

Sign in
 http://192.168.2.120
 Your connection to this site is not private

Username

Password

Sign in Cancel

User name: root
Password : admin

2、Equipment Status

➤ System info:

NDI CONVERTER [®]					
Status Network NDP PTZ System					
NDI Convert™		Hardware version	V1.0		
System Information		Firmware version	ENCODE-20231201		
		Web version	w908915b-20231227		
CPU	Memory	Temperature	Start Time		
4.02 %	4.55 %	51.51 °C	02h:56m:52s		
Ethernet		Speed	IP Address	Send	Receive
		1000 Mbps	192.168.31.188	0 Kbps	0 Kbps
Information		Video Source	Serial Port	Tally Status	
		m605	NULL	Close	

Hardware version: Device hardware current number

Firmware version: Device firmware current number control IC

WEB version: the current number of the web page UI interface

CPU: CPU ratio of device main control IC

Memory: the memory ratio of the device master IC

Core temperature: the temperature of the device master IC

Power up time: the time from the device to now

➤ Ethernet

NDI CONVERTER®				
Status Network NDI® PTZ System				
NDI Convert™ System Information		Hardware version Firmware version Web version	V1.0 ENCODE-20231201 ec90895b-20231227	
CPU	4.82 %	Memory	4.55 %	Temperature
				51.31 °C
				Start Time
				02h:58m:52s
Ethernet		Speed	IP Address	Send
		1000 Mbps	192.168.31.188	0 Kbps
				Receive
				0 Kbps
Information		Video Source	Serial Port	Tally Status
		nd905	NULL	Close

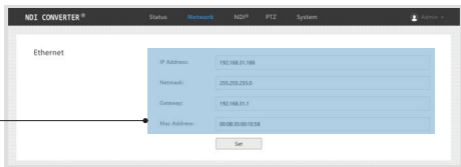
Connection: 1000M Bandwidth of the switch to which the current device is connected
address: the IP of the current device
Send: current size of data output as encoder
Receiving: Current size of received data as decoder

➤ Dynamic information

NDI CONVERTER®				
Status Network NDI® PTZ System				
NDI Convert™ System Information		Hardware version Firmware version Web version	V1.0 ENCODE-20231201 ec90895b-20231227	
CPU	4.82 %	Memory	4.55 %	Temperature
				51.31 °C
				Start Time
				02h:58m:52s
Ethernet		Speed	IP Address	Send
		1000 Mbps	192.168.31.188	0 Kbps
				Receive
				0 Kbps
Information		Video Source	Serial Port	Tally Status
		nd905	NULL	Close

Video source: Name of the current device
Serial port : USB port connection status when controlling PTZ
Tally status: The current mode of the Tally lamp

3、 Network Configuration



IP address: Modify the device IP address

Subnet mask: Modify the device subnet mask

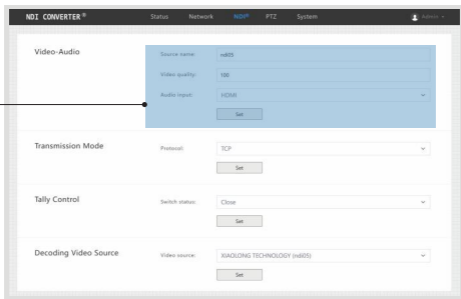
Default gateway: Modify the device gateway

Mac Address: The Mac address of the current device is not modifiable

Settings: After each modification, click will save the above information

4、 NDI Options

► Audio Video



Video Source Name: Modify the current device name

Video quality: modified NDI coding bandwidth 50-200 the arger the number, the greater the bandwidth, the greater the delay, the clearer the picture quality. The smaller the number, the smaller the bandwidth, the smaller the delay, and the more blurred the picture quality.It is recommended to use 100.

➤ Audio input

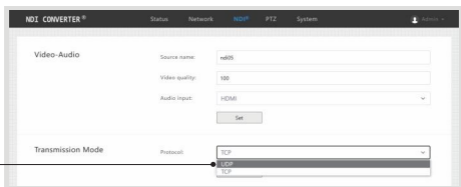


Audio input: at the encoder time

Select the line in input audio as the analog audio

Select the HDMI input audio for the HDMI itself audio

➤ Transmission mode



Transmission mode:

UDP transmits NDI using UDP protocol, and packet loss will not be retransmitted

TCP transmits NDI with TCP protocol, and the packet loss will be sent again

Settings: Save the modified transfer mode options

➤ Tally control



Switch status: switched off Tally function, the device Tally is not bright

Program: monitor The device Tally light is shown in red

Preview: Preview The Device Tally light is shown in green

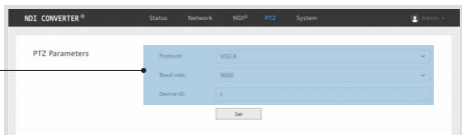
➤ Decoder video source



Decoder Video source: When the device acts as a decoder, select the input NDI device name, When the encoder does, it doesn't work
Settings: To save the options for the codec

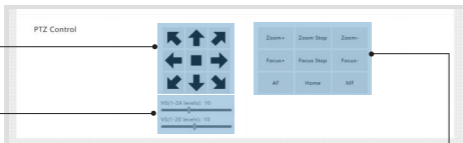
5、PTZ

➤ PTZ参数



Protocol: VISCA protocol
Baud rate: Select communication baud rate
Device ID: the ID of the video camera
Settings: Save the current PTZ parameter options

➤ PTZ控制



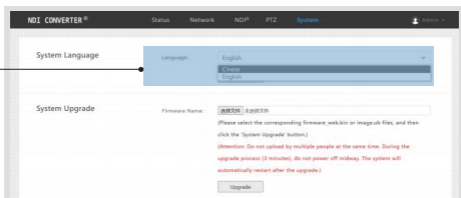
Control the direction of the camera

Control the zoom parameters of the camera, focusing parameters

Control the horizontal motion speed of the camera, and the vertical motion speed

6. System Settings

➤ System language

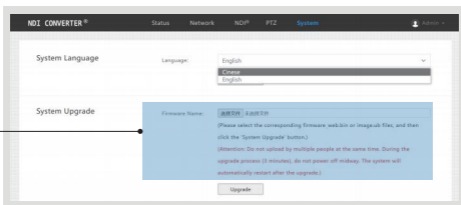


Chinese: web interface displays Chinese

English: web interface displays English

Settings: Save the system voice options

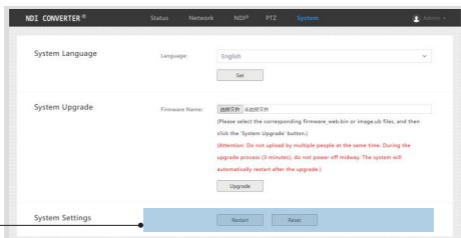
➤ System upgrade



Select the file: Select the upgraded file, note that there is no Chinese path

System upgrade: After selecting the file, click the button. After the upgrade, the system will automatically restart, and the upgrade process can not be cut off

► System Settings



System restart: the system restart

System reset: the system is reset to the initial state

Frequently asked questions(FAQs):

- 1、 Power supply mode, Gigabit POE power supply, or use standard power supply;
- 2、 Log in the UI interface, must be in the same local area network can log in. Modify the IP address of the computer to 192.168.31.X (Not the same IP address as the device). After in can modify the device IP;
- 3、 must be gigabit switch, will not appear video lag, sound lag and other phenomena;
- 4、 If the account set by the customer, the password has been forgotten, and you can not log in. There is a reply on the device Press the button for 8 seconds and the device will reset to the factory account and password: (Account: root Password: admin).