H.264 Network Encoder

USER MANUAL

Product Introduction

This is a high-definition video encoder that supports live broadcast over the network after the HDMI signal is encoded by hardware, and it is used in various live broadcast occasions for high-definition display.

Product Features

- The main and sub-group streams are more reliable
- HDMI high-definition 1920x1080p
- Support H.264 high efficient video coding, clearer image, lower occupied bandwidth
- Pure hardware coding, more stable and reliable
- Support subtitles, logos, etc.
- Live broadcast platform, main and sub-group push stream

1

- Compatible with various live broadcast platforms
- Easy to operate, no settings required
- Support multiple resolution custom settings
- Metal shell, fast heat dissipation

Product interface introduction



(Back view)



Product connection diagram



Software operation instructions

1, Connect to the computer through the network cable, you need to set the IP address of the local computer before logging in. As shown below: Enter the network sharing center, click on the local connection needs to do the following settings, set IP address can be as long as it does not conflict with the encoder's factory address.

onvention					
If the network supports this feature, y IP settings, otherwise you need to ge network system administrator,	you can t the ap	get the propria	e auton te IP se	natically ettings f	assigned rom your
Obtain the IP address automatical	y(0)				
Use the following IP address(S)					
IP address(I):	192	. 168	. 1	. 168	
Subnet mask(U);	255	. 255	. 255	. 0	
Default gateway(D):		£		as -	
Obtain the DNS server address aut	omatica	lly(0)			
• Use the following DNS server addr	ess				
Preferred DNS server(P):		Ξ.	÷.	në:	
Alternate DNS server(A):		• :			
Verify the settings when exiting(L)		6	Adva	anced

1.1.1. Login settings background

Open browser, enter address: http://192.168.1.168/. Open website, enter the account password in the pop-up dialog box(The default account password is admin). As shown in Figure 1, click to go to the homepage of the website.



4

1.1.3. View stream address

As shown in Figure 3, the red circle is the video stream address.

H.265
1920x1080@30
1500
http://192.168.1.168/0.ts
Disable
http://192.168.1.168/0.flv
rtsp://192.168.1.168/0
Disable
Disable
H.264
1280×720@30



Figure 1

1.1.2. Check the video signal

As shown in the red circle in Figure 2, when the number of captured video frames is 0 or the page refreshed does not increase, the video signal is not accessed. Check whether the Hdmi source of the device is connected, if it is not 0 and increase after refresh, it indicates that there is a video signal.

5

1.1.4.Play the video stream

Open the VLC player with a video signal, VLC player download address: http://www.videolan.org/), select the media \rightarrow Open the network stream as shown in Figure 4, enter the stream address in the home page of the website, click play as shown in Figure 5, the video stream encoded by the device can be successfully played.

PotPlayer ~			
Open File(s)	F3	Browser	Playlist
Open	•	Open File(s)	Ctrl+O
Broadcast	• •	Open URL	Ctrl+U
Album/Favorites	•	Open Folder	F2
Close Playback	F4	Open FTP/WebDAV/HTTP	Alt+F12
Playback		Open File/URL(s) from Clipboard	Ctrl+V
Subtitles	,	Default Open Action	•
Video		Navigate	,
Audio	,	Open Screen Capture	Ctrl+S
Filters		Open Webcam/Other Device	Ctrl+J
Skins		Open Analog TV	Ctrl+W
Misc		Open Digital TV (BDA device)	Ctrl+K
Frame Size		Device Settings	Alt+D
Aspect Ratio		Open DVD	Ctrl+D
Window Size		Open DVD files (*.IFO)	
Fullscreen (Keep AR)	Enter	Open Blu-ray	Ctrl+Alt+D
Fullscreen (Stretch)	Ctrl+Enter	Open Blu-ray files (*.MPLS)	
Preferences	F5	Load Subtitle	Alt+O
Playlist	F6	Add Subtitle	
Control Panel	F7	Combine Subtitle	
Playback/System Info	Ctrl+F1	Reload Subtitle	Ctrl+Alt+Y
About	F1	Reopen Current/Last Item	Ctrl+Y
Exit	Alt+F4	Load External Audio	

Figure 4



2.Encoding settings

Click encoding settings \rightarrow Main code stream \rightarrow Set the parameters you need \rightarrow Click settings \rightarrow As shown in Figure 6, Figure 7 and Figure 8.

Status	Main stream		
Encoder	Encoding type:	H.265 W	
Main stream	-	1.0	lar and
Substream1	PPSI	30	[5-40]
Substream2	GOP:	20	[9-300]
Substream3	Birvata/Liter1:	18.10	[11.13000]
Audio	and accelerately.	2.000	The other
Advented	Exceded size:	same as the input	
050	Bitrate controls	vtr 🐨	
System	TS URL:	/0.tz	Enable 💌
	MLS URL:	/0.m3u8	Disable
	PLV URL:	/0.#v	Enable 💟

Figure 6

Status	Audio			
Encoder	Audio Input:	DIGIT V	1	
Main stream	Samplerate:	44100 👽		
Substream1 Substream2	Encoder	AAC W		
Substream3	Barate	128000	(48000-330000)	
Autio	DOBR.	128000	[answe=stoned]	
Advanced	Analog Volume:	10	[-50~50]	
050	Digital Volume:	0	[-50→50]	
System	ONVIF Audio			
	G711A Over RTSP1	Disable	1	
		(inclusion)		

Figure 7



Figure 8

Restart the system after successful setup, click system settings \rightarrow Restart the device \rightarrow Click to restart. (Note: Please wait 30 seconds then refresh the webpage).

9

2.1.Logo, character and table mark settings Click the OSD settings \rightarrow Set the parameters you need \rightarrow Click settings, as shown in Figure 9.

Status	Main stream		
Encoder	Alpha	100	[0-128]
050	Zone 1		
4ain stream	zone 1		
Substream1	Zone:	Disable 😺	
Substream2	Zone 2		
Substream3	2000	Plants [27]	
OGO upload	20161	Distois v	
System	Zone 3		
	Zone:	Disable	
	Zone 4		
	Zone:	Disable 💌	
		Annie	

Figure 9

Click to restart the device \rightarrow Click to restart. (Note: Please wait 30 seconds then refresh the webpage). As show in Figure 10.

2.2.System settings

I.265/H.2	64 Encode	t	Language: English
Status	Network		
Encoder	DHCP	Disable	
050	191	192,168-1,168	
System			
Network	Netmask:	255.255.255.0	
Change password	Gateway:	192.168.1.1	
Serial to TCP	MACT	00112114115160167	
Upgrade		00120120120120120	
Reset	DNS		
Reboot	DN51)	5.5.5.3	
Schedule Restart	DNS2:	192.168.1.1	
	NTP		
	NTP Enable:	Disable	

Figure 10



Figure 11

Click to restart the device \rightarrow Click to restart.(Note: Please wait 30 seconds then refresh the webpage). As show in Figure 11.

12

External network connection method

1, Go to the router settings page, port mapping the internal IP address of the encoder, (do not use ports such as 80 or 8080 for the mapped port, network operators will block these ports, usually it doesn't work). As shown in Figure 12.



Figure 12

2, Then you can use the external network IP address browser to log in the web address of the encoder, can be used for remote application or live broadcast.

Packaging included:

Network Encoderx1 Power adapter x1 HDMI cable x1 User manual x1

Specifications

Spec	cifications	parameter
Audio and	Video input	1 port HDMI
video input	Audio input	1 port HDMI built-in audio
	Coding type	H.264
	Coded frame rate	5-60 adjustable
	Key frame interval	5-300 adjustable
	Bit rate (kbit)	32-32000 adjustable
Video coding Coding resolution Code stream control Stream	1920x1080/1680x1056/1280x720/1024x576/850x480/720x576/720x 540/720x480/720x404/704x576/640x480/640x360/608x448/544x48 0/480x480/480x384/480x360/480x332/480x272/480x270/400x320/4 00x224/352x480/352/228/320x256x320x240/320x180/240x180/176x 144/ Same as input resolution	
	CBR/VBR optional	
	Support RTMP/ RTSP/ HTTP FLV/ HLS/ UDP multicast/ RTB multic	
	Coded sampling rate	44100/48000 optional
	Coding method	AAC+/ AAC++/MP3/MP2/AC3 optional
Audio coding Coding bit rate	AAC:48000-320000adjustable / AAC+:2400-48000 adjustable / AAC+:12000-320000 adjustable / MP3:64000-320000adjustable / MP2:64000-320000 adjustable / AC3:40000-640000adjustable	
	Digital volume	-50 ~50 adjustable
RTSP stream uses G7 <u>11</u> A encoding	Disable/ Enable optional	
	Transparency	0-128 adjustable
	Туре	Text/ picture/ scrolling text
	Area	4 areas available
	X coordinate	0-1920
OSD	Y coordinate	0-1080
	LOGO	4 logos can be uploaded for selection
	Font size	8-72
Background color Font color	Background color	Transparent/ white/ black
	Font color	RGB color is optional
Network Configuration managemen ONVIF	Support Gigabit networks	
	t Configuration management via the WEB	
	ONVIF	Support ONVIF search browsing videos
General	Power	DC 12V, 1A
use	Power consumption	4W
	Operating temperature	-20℃ - 60℃
	Operating humidity	<90% no condensation
	Dimension	10.4×10.4×2.7cm(includes wall hanging)

13