



Users' Manual

SWITCHER

Model: HDS9105

VER1.0



SDI

HDMI

2020 DeviceWell
<http://www.devicewell.com>

Precautions

About this device:

- This device belongs to the high-frequency video processing equipment. Therefore, please strictly observe the following points:
- Non-professionals are not allowed to disassemble the equipment case without permission. Do not repair it yourself to avoid accidents or damage to the equipment.
- Do not spill any chemicals or liquids on or near the equipment.
- The power supply of the device will generate heat during operation. Therefore, keep the working environment well ventilated to avoid damage to the device due to excessive temperature.
- Do not place system equipment in a location that is too cold or too hot.
- Operate the equipment in an environment where the temperature is between 0-70 degrees Celsius (32-158 degrees Fahrenheit) and the humidity is between 10% and 80%.
- Try to keep the product environment clean and avoid dust, otherwise there is a danger of destroying the product.
- When using the product, keep it away from electromagnetic fields.



- Do not dispose of this product as normal waste. This product is designed to be recyclable.

Copyright:

When using this unit for video and/or audio switching, publishing over the Internet, or the like, in some cases it may be necessary to authorize the copyright owner of the video or audio. In order to protect copyright, please strictly observe the following points when using this device:

- When connecting a recording device to this unit and recording video or audio, be sure to follow the relevant copyright laws.
- It is prohibited by law to display or publish third-party copyrighted video and audio materials, or to allow private or public access without the permission of the copyright holder.
- Even if you have the right to display or publish, for example, editing activities that use this unit to erase or disassemble the original content may still be prohibited by law. For the purpose of copyright protection, the specifications of the video and audio signals that can be input may change without notice due to software upgrades or feature extensions.
- According to copyright laws, recorded video and audio may not be used for purposes other than personal preferences without the permission of the copyright holder. Please note that even if it is based on personal preference,
- It may also limit shooting during live performances, performances or exhibitions.

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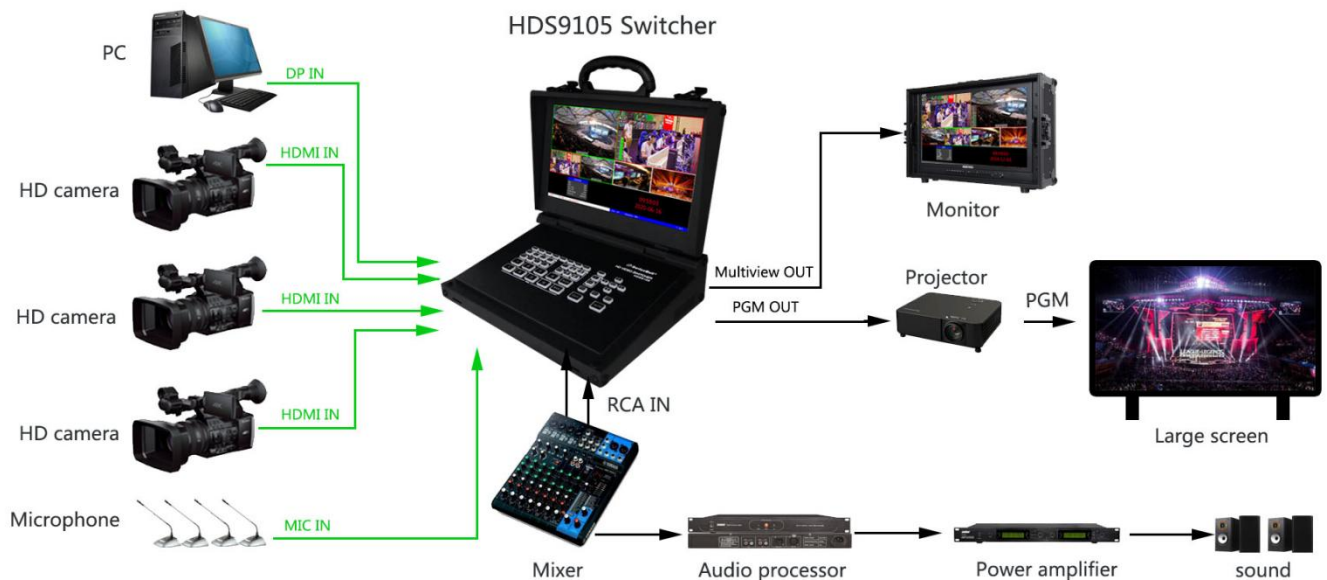
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1. Overview

1.1 Introduction

DeviceWell high-definition video switcher HDS9105 adopts a portable integrated design, metal casing, small size and light weight. Comes with a 11.6-inch high-definition monitor screen, which can directly output and display multiple pictures. Standard size: 310mm*285mm*80mm, which can be used for small-scale out-of-field video effects switching requirements. The device integrates multiview processor, special effect generator, audio processor, control keyboard and other common components of the switcher.

HDS9105 supports 4 HDMI + 1 DP signal inputs, a total of 5 video signals. The external preview signal can be output simultaneously. HDS9105 supports HDMI embedded audio + external analog audio. After mixed processing, it can be embedded in the output HDMI signal or output from the analog port. The resolution of all input signals is automatically adapted, and the output signal resolution can be selected according to requirements, which is quite flexible. For the needs of video switching such as radio and television, program production, live production of interviews and lectures, outdoor sports events, and school courseware production, the functions of the HDS9105 can be fully met.



2. Functional characteristics

DeviceWell HDS9105 five-channel high-definition video switcher is a multi-functional switcher, which requires no professional knowledge and can perform video switching and audio mixing with simple operations. This machine can be used in broadcasting, live broadcasting and various event venues.



- ◆ Comes with 11.6-inch LCD monitor
- ◆ Portable integrated design
- ◆ Metal body, high strength and light weight
- ◆ Integrated control keyboard
- ◆ Support up to 4 HDMI + 1 DP inputs
- ◆ 2 stereo MIC inputs
- ◆ 2-CH RCA audio input
- ◆ 1 LINE OUT output
- ◆ Support audio follow, mix function
- ◆ Support HDMI audio de-embedding
- ◆ PGM output: 2 HDMI
- ◆ Multiview output: 1 HDMI
- ◆ Support special effects switching such as MIX / FADE
- ◆ Support CUT hard cut, support AUTO special effect switching
- ◆ Support Tally / Network remote control

3. Preparation before Installation



Caution

- During transportation, handling, and installation of switchboard equipment, avoid collisions between the switchgear equipment and doors, walls, shelves, etc.
- When the equipment is unpacked and transported, it is strictly forbidden to put it down and drag it gently to avoid damage to the switchboard equipment.
- Do not place the switcher equipment in a flammable, explosive atmosphere or smoke environment. Do not perform any operation in this environment.
- Operating equipment should be kept away from water and moisture. The water in the switchgear or moisture will cause damage to the circuit of the switchgear equipment.
- A certain amount of heat will be generated during the operation of the switcher. Ensure that the switchgear equipment is ventilated and the switcher device can operate normally.



Danger

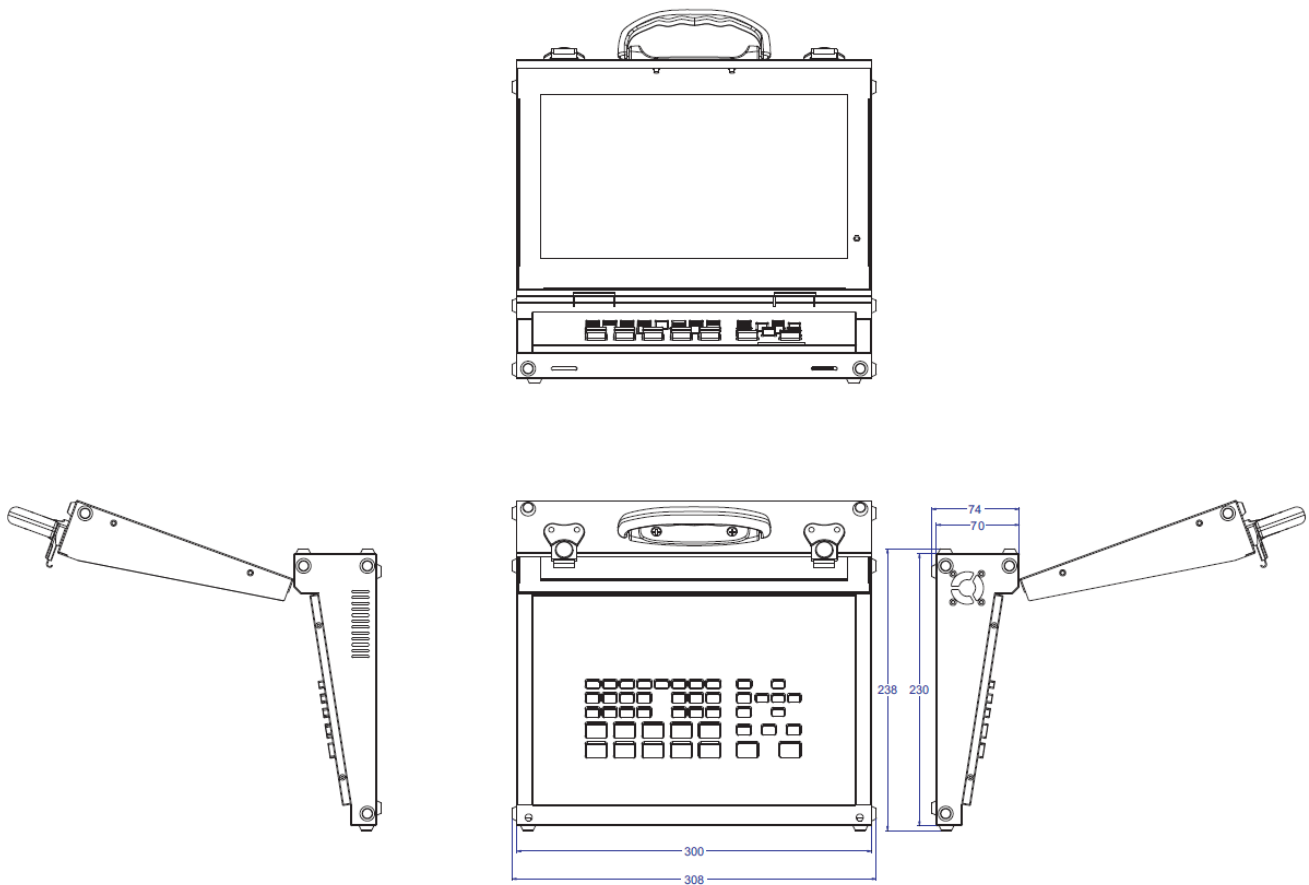
- It is a fatal hazard that indirect contact with the power supply by wet objects is prohibited. Unregulated, incorrect high-voltage operation can cause accidents such as fire or electric shock.
- It is forbidden to install and remove the switchgear equipment and power cord. When the power cord is in contact with the conductor, an arc or spark may be generated, which may result in fire or electric shock.

4. Equipment Unpacking



When unpacking inspection, if the sealing label or packaging is found to be damaged, stop unpacking and report the situation to the equipment dealer. If the quantity of the goods is correct and the packaging is intact, the goods can be inspected.

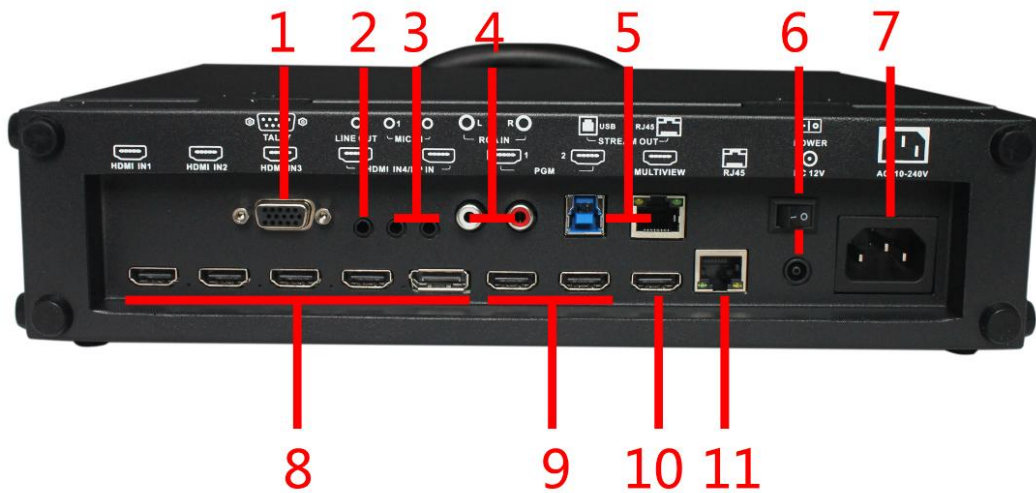
4.1 Size: 308mm*238mm*74mm



5. Interface Specification

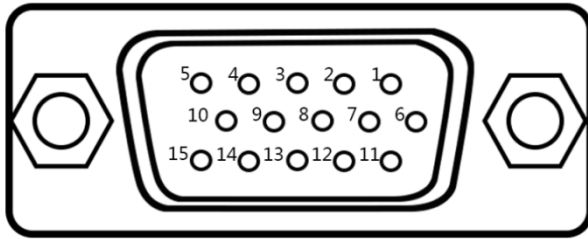
5.2 Interface Introduction

DeviceWell HDS9105 interface is shown below.



NO.	Definition	Description
1	TALLY	TALLY
2	LINE OUT	Line audio output
3	MIC IN	2 stereo MIC inputs
4	RCA IN	RCA audio input
5	STREAM OUT	UVC output
6	DC 12V	Power input and switch
7	AC110-240V	AC110-240V Power input
8	HDMI IN/DP IN	4 HDMI + 1 DP inputs, The fourth input can be switched to DP input
9	HDMI OUT	2*PGM output
10	MULTIVIEW	Multiview output
11	RJ45	Network upgrade

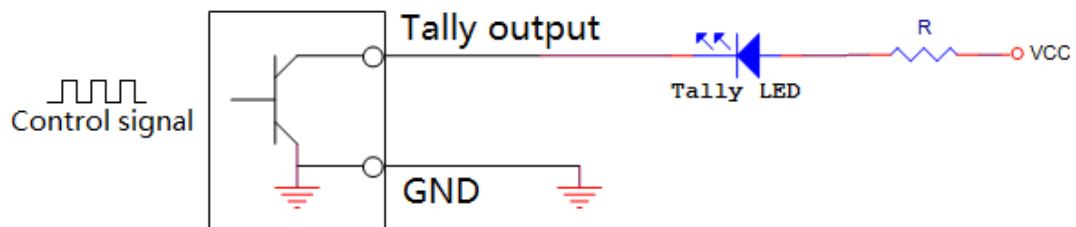
5.3 TALLY Interface



PIN	Function	PIN	Function
11	PGM-IN1	6	PVW-IN1
12	PGM-IN2	7	PVW-IN2
13	PGM-IN3	8	PVW-IN3
14	PGM-IN4	9	PVW-IN4
15	PGM-IN5	10	PVW-IN5
3	PGM-IN6	4	PVW-IN6
5	GND		

Note: PIN1 PIN2 not used.

TALLY Online schematic:



Note: Tally LED: for external display device

Tally output: Active low (Tally LED is lit) High level is invalid (Tally out is off)

5.4 Parameters

Name	4*HDMI+1*DP Switcher	
Model	HDS9105	
Video Signal Input	Input signal	HDMI/DP video signal
	Rate	270Mbps~3Gbps
	Connector	Standard
	Reflection loss	>15dB 5MHz~3GHz
	Signal amplitude	800mV±10%(SDI/HDMI)
	Impedance	100Ω (HDMI) 75 Ω(SDI)
	Balance	Adaptive
	DVD input HDMI support	480i/576i,480p/576p,720p,1080i,1080p,
	Computer HDMI input support	1920x1080,1680x1050,1600x900,1440x1050,1366x768,1360x768,1360x768,1280x1024,1280x960,1280x800,1280x768,1280x720,1280x600,1152x864,1024x768,800x600,
Video Signal Output	output signal	HDMI video output
	Code rate	270Mbps~3Gbps
	Connector	Standard
	Return Loss	>15dB 5MHz~3GHz
	Signal amplitude	800mV±10%(SD /HDMI)
	impedance	100Ω (HDMI) 75 Ω(SDI)
	DC offset	0V±0.5V
	Clock recovery	Support
Control Parameter	Control	9600 baud, 8 bits, 1 stop bit, no parity
	Connection	15-pin D-port, 2-RX, 3-TX, 5-GND
	Network control	RJ45,100M
General Parameter	power supply	DC 12V/ AC 110-240V
	Power rate	20W
	control panel	Support on-site production, integration of a variety of buttons.
	Operating temperature	0℃~50℃, No condensation
	Storage temperature	-20℃~75℃
	Working humidity	20%~70%RH
	Storage humidity	0%~90%RH, No condensation

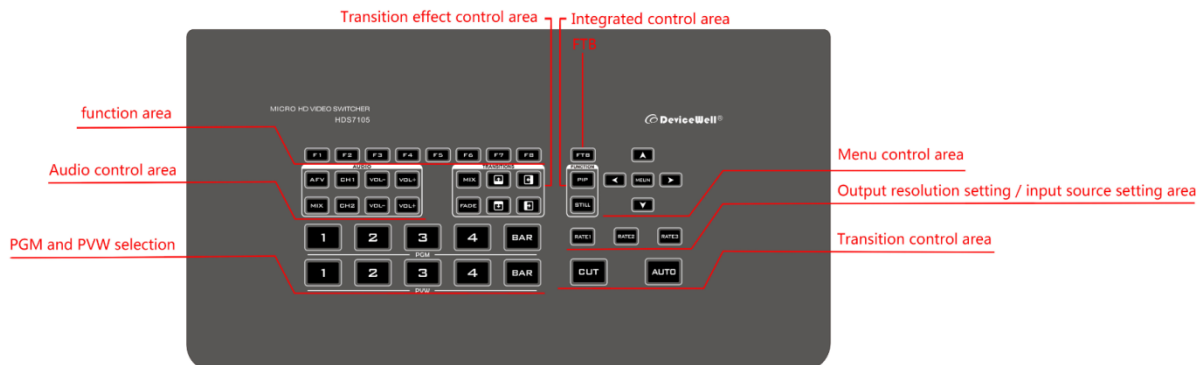
6. Control Panel and Interface

Before using the HD Mini Switcher HDS9105, please take a few minutes to read this section. This chapter will introduce you the panel and interface of the HD switcher to facilitate your subsequent use and operation.

The new high-strength characteristics of the new aluminum alloy with high-strength characteristics improve the anti-drop, anti-shock and shock-proof capabilities of the whole machine, and effectively protect the internal components of the equipment. Ultra-lightweight features make the unit easier to transport and maintain without the need for additional equipment; it also offers unparalleled thermal performance.

In addition to the innovation of the case, the HD switcher has also been completely optimized for the interface connector. Environmentally friendly materials with new RoHS standards are More demanding in terms of durability and environmental protection, to provide customers with more stable, more environmentally friendly, more cost-effective products

6.1 Control Panel



6.1.1 Area Description

No.	Name	Description
1	Function area	Currently supports F1 / F2 / F3 functions
2	Audio control area	Mainly set the audio follow-up mix and audio volume control
3	Transition effect control area	Select transition effects
4	Integrated control area	PIP and STILL effects
5	Menu control area	Setting menu information with keys
6	PGM and PVW selection	Live and preview selection
7	Transition control area	Control transition switching and transition rate adjustment

6.1.2 Key Description

6.1.2.1 Custom function area

- F1--- resolution control

Press F1 on the keypad to adjust the screen output resolution. Each time you press the button, you can adjust the output resolution. The resolutions are 1080P60Hz, 1080P50Hz, 1080P30Hz / 1080P25Hz / 1080P24Hz / 1080I60Hz / 1080I50Hz.

- F2--- channel switching control

Press F2 on the keypad to select the input source of the fourth channel. When the HDMI and DP signals are connected to the back interface of the HDS9105 at the same time, you can choose between IN4-HDMI 4and IN4-DP4 after pressing F2.

- F3--- USB streaming video volume adjustment

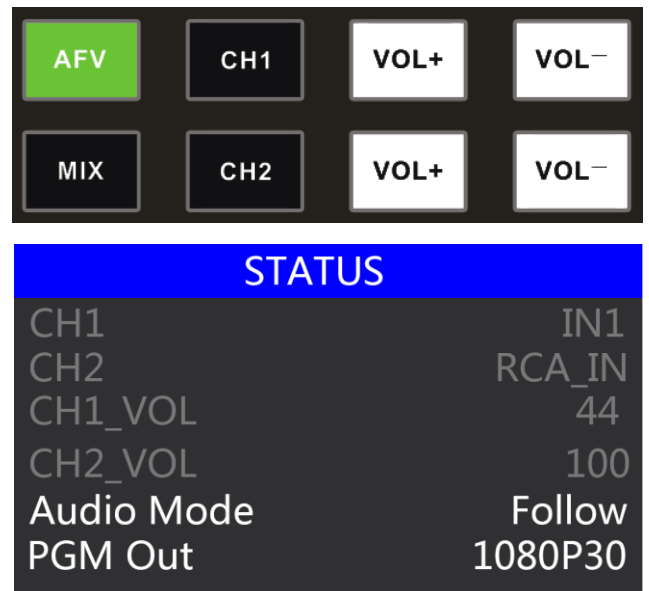
Press the F3 button repeatedly, it can be adjusted to OFF / 20% / 40% / 60% / 80% / 100%

6.1.2.2 Audio Control Area

- How to use the audio follow mode:

1. Press the AFV button on the operation panel, the button will light green at this time, and the corresponding multiview menu will also display the current audio status. The Audio Mode in the menu shows Follow, which indicates that the audio is in follow mode; as shown in the figure on the right

(Note: the color of the keys displayed in the picture is different from the actual effect picture)



2. The channels of the audio follow mode are IN1-HDMI1, IN2-HDMI 2, IN3- HDMI 3, IN4- HDMI4, RCA_IN, MIC_IN1, MIC_IN2, and the corresponding operation panel keys (the button panel 2 lights up at this time, indicating that Operate the IN2-HDMI2 signal source as shown below.)



3. The volume adjustment of the audio follow mode is controlled by the keys on the operation panel. Pressing the AFV button in the follow mode (green light is displayed) will follow the audio of the PGM live channel by default. At this time, you need to increase or decrease the volume. Next to VOL + (increase volume) and VOL- (decrease volume) to adjust.



● How to use mix assignment:

1. Press the MIX button on the operation panel.

Lights up green as shown on the right

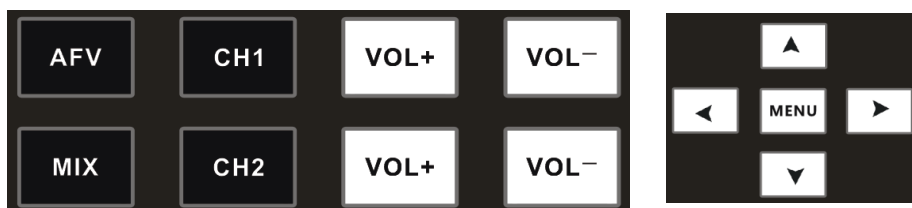
The menu corresponding to the multiview will also display the current audio status. The Audio Mode in the menu displays Mixing, which indicates that the audio is in the mixing assignment mode, as shown in the right figure.



STATUS	
CH1	IN3
CH2	Phone_IN
CH1_VOL	44
CH2_VOL	100
Audio Mode	Mixing
PGM Out	1080P30

2. The mixing assigned channels are IN1-HDMI1, IN2- HDMI 2, IN3- HDMI 3, IN4- HDMI4, RCA_IN, MIC_IN1, MIC_IN2. Under the mixing assignment mode, there are two more audio embedding functions; RCA_IN means RCA audio interface, MIC_IN means 3.5mm microphone audio interface; PGM live output can mix two audio channels at any time, and the volume of the two audio channels can also be adjusted separately.

3. Audio channel adjustment for mixing assignment: It is adjusted through the buttons on the panel, including audio control area and menu control area. As shown on the right



Press MIX (showing green light) in the button panel, you can select the CH1 and CH2 buttons in the audio control area to select the audio channel, and keep pressing the CH1 button to select from IN1-HDMI1, IN2-HDMI 2, IN3-HDMI 3, IN4- HDMI4, RCA_IN, MIC_IN1, MIC_IN2 select the audio source, the operation of CH2 button to select the audio channel is the same.

STATUS	
CH1	IN1
CH2	IN2
CH1_VOL	44
CH2_VOL	100
Audio Mode	Mixing
PGM Out	1080P30

You can also press MIX (showing green light) in the key panel, then press the "up and down" buttons of the menu button to enter the audio channel selection, press the "down" button to enter the CH1 channel, click "MENU" to enter the audio source selection, audio The source can be selected from IN1-HDMI1, IN2-HDMI 2, IN3-HDMI3, IN4-HDMI4, RCA_IN, MIC_IN1, MIC_IN2, after confirming the selection, press "MENU" to exit; as shown in the right figure, the audio source of the first channel is from IN1-HDMI1 becomes IN4-HDMI4.

STATUS	
CH1	IN4
CH2	MIC_IN1
CH1_VOL	44
CH2_VOL	100
Audio Mode	Mixing
PGM Out	1080P30

The second audio selection operation is the same. As shown in the right figure, the audio source of the second channel has changed from IN2-HDMI2 to MIC_IN1.

Note: When there is a white bar displayed in the menu, you can only exit by pressing the "up" button on the key panel, and you can only operate the operating system menu after exiting

4. The volume adjustment of the audio mixing mode is controlled by the buttons on the operation panel; press the MIX button (showing green light) in the mixing mode. At this time, you need to increase or decrease the volume, just operate VOL+ (increase volume) and VOL- (decrease volume) button to adjust.

Keep clicking the VOL+ and VOL- buttons, and the corresponding menu part can also display the current volume value.

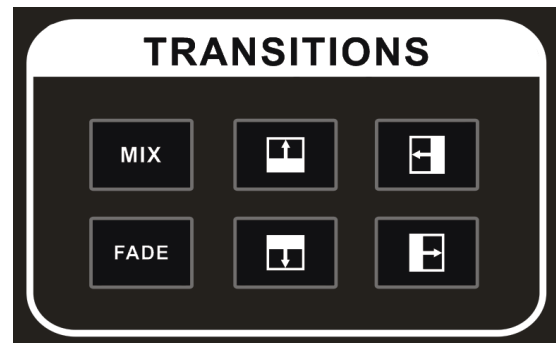


6.1.2.3 Transition Effect Control Area

Transition Effect Control Area


There are 3 transition modes:

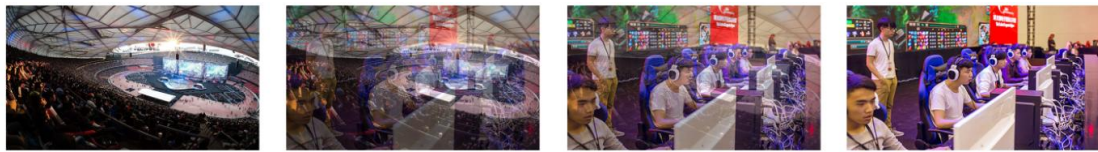
MIX transitions, FADE, and Wipes, where the Wipes include: up, down, left, and right.



- MIX Transition

MIX special effects are transition effects. After setting the transition, the main output will fade from the original live picture and then transition to the new live picture until it completely disappears.


Click  in the special effect control area (green light is displayed after pressing), and then click AUTO or CUT to switch. The effect is shown below.

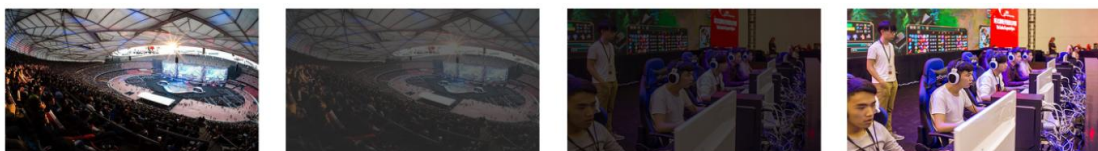


A  B

MIX transition effects, superimposed on the A picture and gradually superimposed the B picture, until the transition to the end, the picture is completely replaced by the B picture

- FADE Transition

Click  in the special effect control area (green light is displayed after pressing), and then click AUTO or CUT to switch, the effect picture is below.




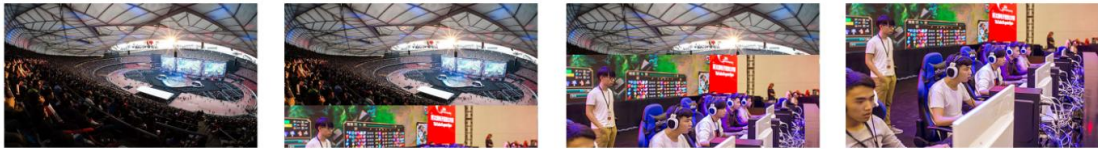
A  B

FADE in and fade out effects, A gradually darkens the picture until it is completely black, and then gradually changes from black to B picture.

- Four special effects wipe transitions


There are four types of transition modes in wipe, which are up / down / left / right. .

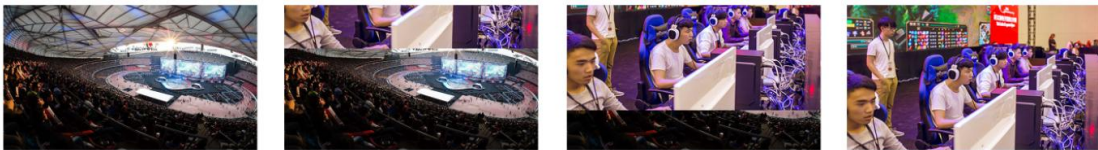
Transition up: Click  in the special effect control area (green light is displayed after pressing), and then click AUTO or CUT to switch. The other three transition operations are the same.



A  B


Wipe up the transition effect, the A picture is unchanged, and the B picture is gradually wiped in by the upward direction until the picture completely becomes B

Transition down: Click  in the special effect control area (green light after pressing), and then click AUTO or CUT to switch.



A  B

Wipe down transition effects, A picture remains unchanged, B picture passes downward Gradually draw in until the picture completely becomes B


Transition left: Click  in the special effect control area (green light after pressing), then click AUTO or CUT to switch.




A  B

Wipe the transition effect to the left, the A picture is unchanged, and the B picture is gradually drawn in to the left until the picture completely becomes B



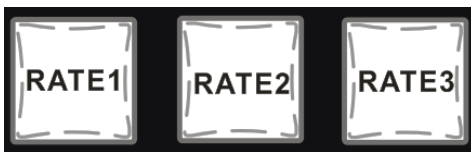
Transition right: Click  in the special effect control area (green light after pressing), and then click AUTO or CUT to switch. The effect is shown below.



A  B
Wipe the transition effect to the right, the A picture is unchanged, and the B picture is gradually drawn in to the right until the picture becomes B completely.

- Transition rate adjustment


When operating the transition effect control area, you can also control the transition rate by operating the RATE1, RATE2, and RATE3 in the keypad (rate1: 640ms; rate2: 1280ms; rate3: 2560ms) Note: Only when using AUTO transition effective.



6.1.2.4 Integrated control area

- PIP picture-in-picture special effects



PIP special effects: Press  on the control panel (the green light is displayed after pressing), and then click AUTO or CUT to switch. The effect is shown below.



At this time, the information on the LCD screen will be switched to the PIP setting. The control menu key can be set according to requirements, as shown below.

PIP	
Window	1
H Position	0
V Position	0
Size	Large
Border Enable	On
Border Width	2
Border Color	Green
Exit	

PIP size and position

You can use the menu to set the parameters of PIP picture-in-picture, the situation is as follows (the horizontal / vertical position size is based on the smallest display image as an example)

Horizontal position setting: The value from the upper left end to the upper right end is 0-1440, and the value increases / decreases by 10 each time the knob is rotated.

Vertical position setting: The value from the upper left end to the lower left end is 0-810, and the value increases / decreases by 10 each time the knob is rotated.

Display size setting: You can choose small / medium / large settings.


Bezel switch settings: You can choose on / off settings.

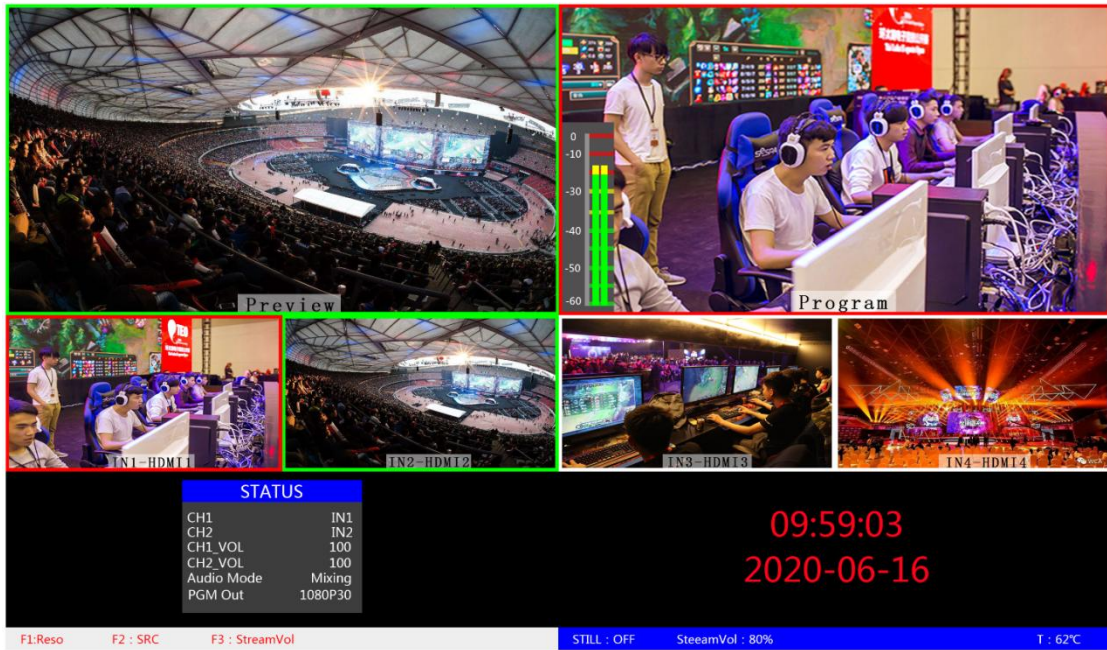
Border width setting: The border width can be selected from 2-7 thickness borders, and the value increases / decreases by 1 each time the knob is turned.

Border color setting: You can choose white / red / green / green to set the border color.

- STILL screen freeze effects

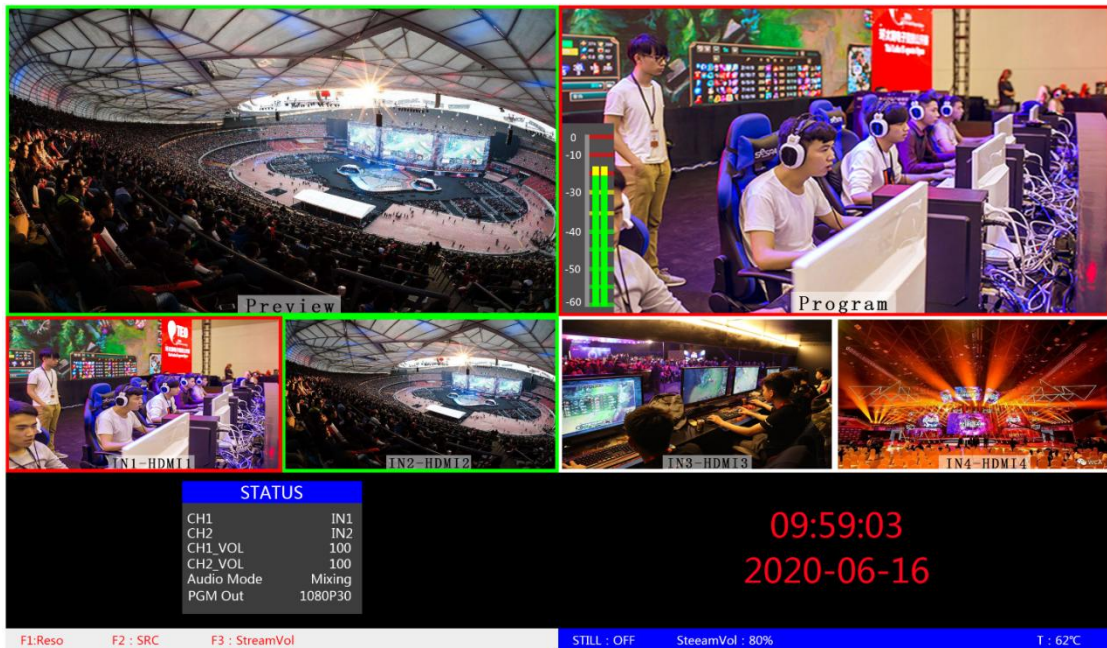


Screen freeze special effect: Press  on the control panel (green light is displayed after pressing), and then the output PGM video animation will enter the freeze phenomenon. Press the button again to unfreeze the screen, the effect is shown below.

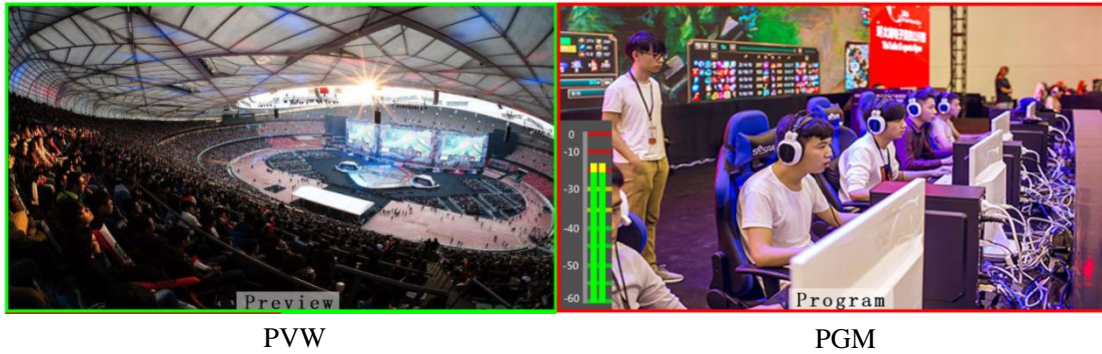


6.1.2.5 PGM and PVW selection

- Multiview output window introduction



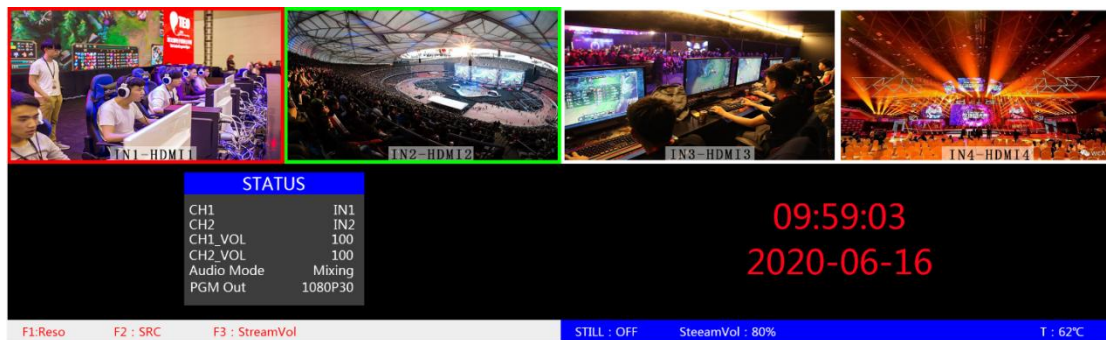
Among them Preview and Program are preview and live broadcast output respectively, as shown below.



PVW

PGM

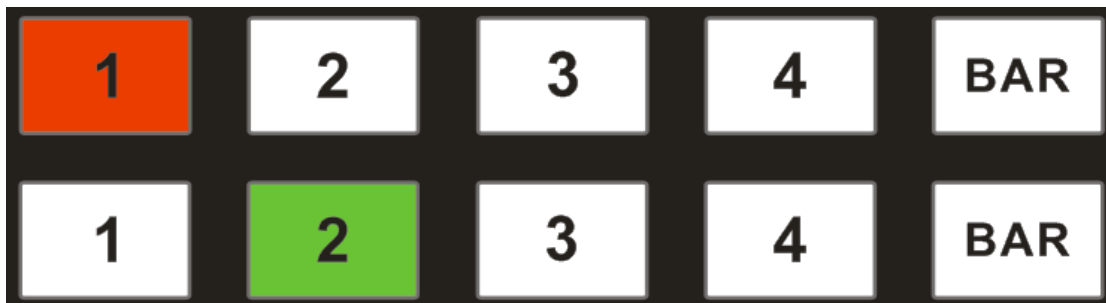
There are 4 windows below corresponding to the input source monitoring, which correspond to the No. 1 to No. 4 buttons on the switcher control panel.

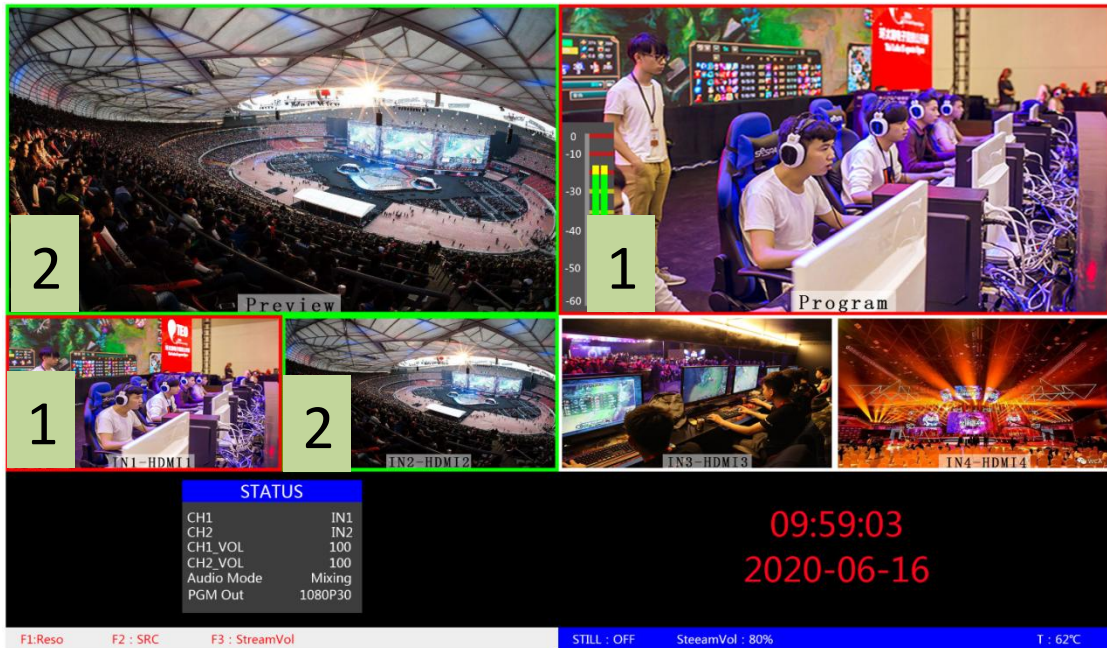


- PGM and PVW output signals

After the device is connected to the video signal source, press 1 (PGM) and 2 (PVW) in the keypad. The live and preview signal sources in the output multiview monitor are 1 (PGM) and 2 (PVW), respectively. The signal sources are HDMI IN1 and HDMI IN2.

The effect diagram is as follows



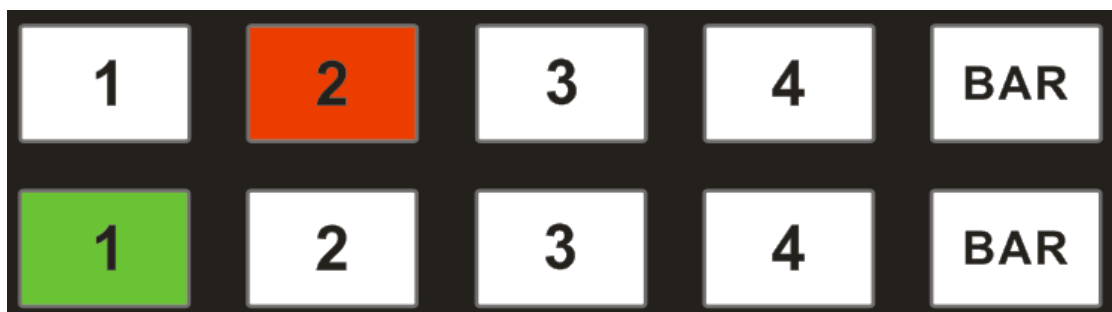


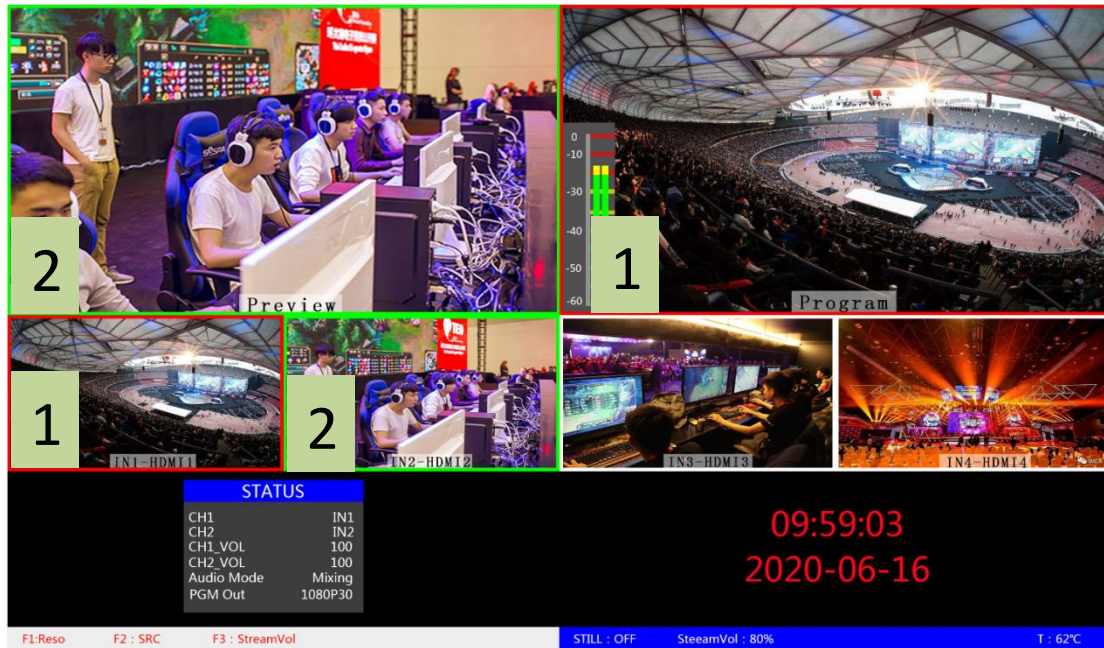
- PGM and PVW source switching


If you want to switch between PGM and PVW video sources in multiview (PGM \rightleftharpoons PVW)

Suppose you want to convert live signal source 1 (PGM) and preview signal source 2 (PVW) into 2 (PGM) and 1 (PVW) in a multiview. You only need to press 2 (PGM) and 1 (PVW), and then use the CUT or AUTO to switch. The live PGM signal sources 1-4 can be switched arbitrarily with the preview PVW signal source.

The effect diagram is as follows:





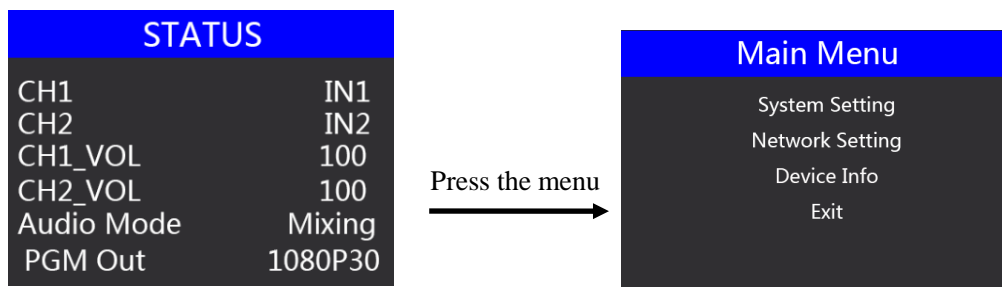
After pressing the BAR  button in the key panel, the screen will output color bars.

7. System menu settings

- Menu display

In the menu bar, you can perform IP settings on the device, restore the factory settings, and change the language.

In the default state of power on, press the menu to enter the main menu, as shown below.

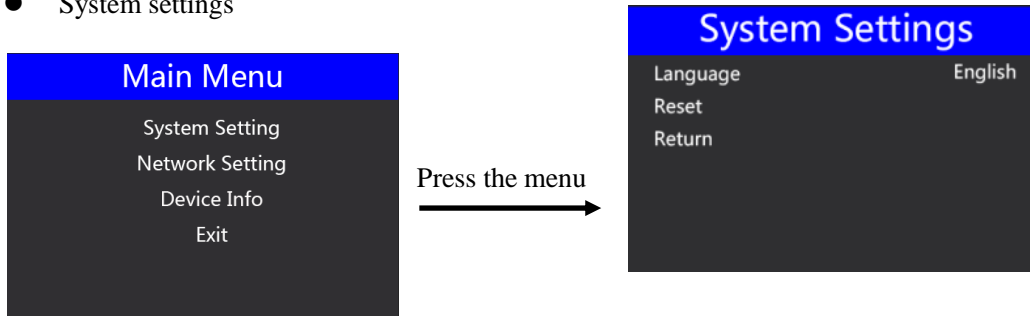


Press MENU under the status bar to set the audio mode and output resolution;

Audio mode; menu to select mix or follow;

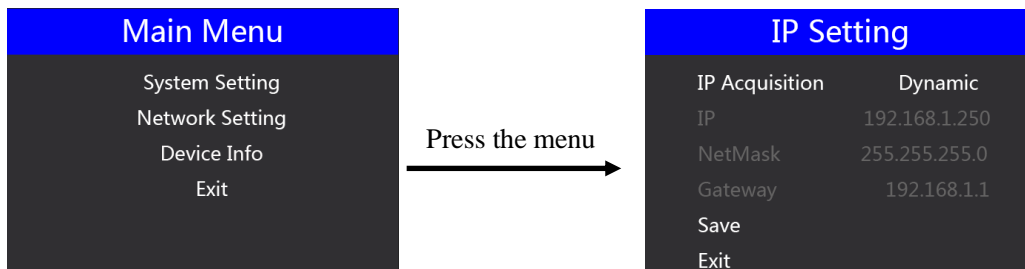
Output resolution: menu can be operated, you can choose 1080p60 / 1080p50 / 1080p30 / 1080p25 / 1080p24 / 1080i50 / 1080i60

- System settings



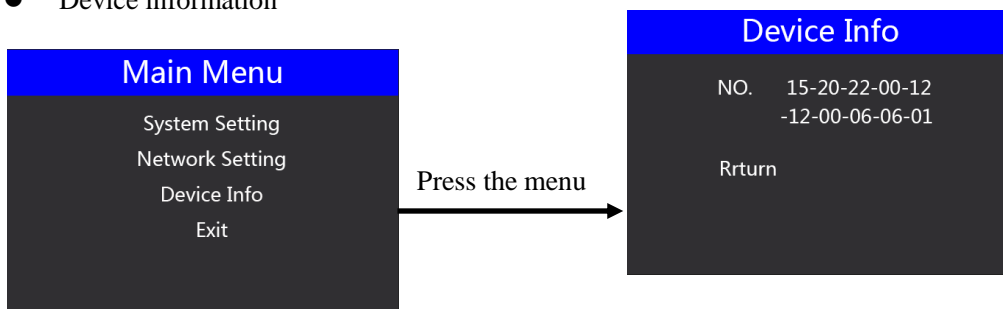
In the system setting menu, you can choose between two languages: Chinese or English; if you encounter an unknown error during use, you can choose to restore the factory Settings, reset.

- Network settings



In the network setting menu, you can choose in the IP acquisition: dynamic IP or static IP. After selecting the static IP, you can also set the IP address, subnet mask, and network management settings accordingly, and save and return.

- Device information

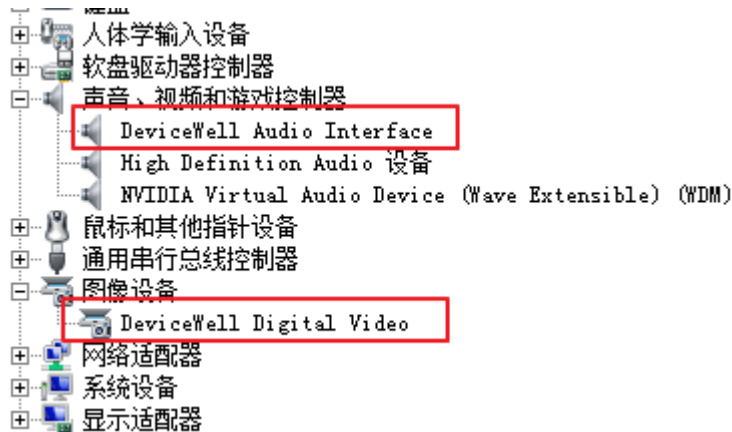


In the device information menu, you can read the serial number of the device. You cannot modify it here.

7.1.2.6 HDS9105 Instructions for USB interface to OBS software

Step 1: Connect the board to WIN7 through the USB data cable. After the WIN7 terminal is recognized, Devicewell Audio Interface and Devicewell Digital Video will appear in the device list, which represents the recognition ok, as shown in Figure 1.1.

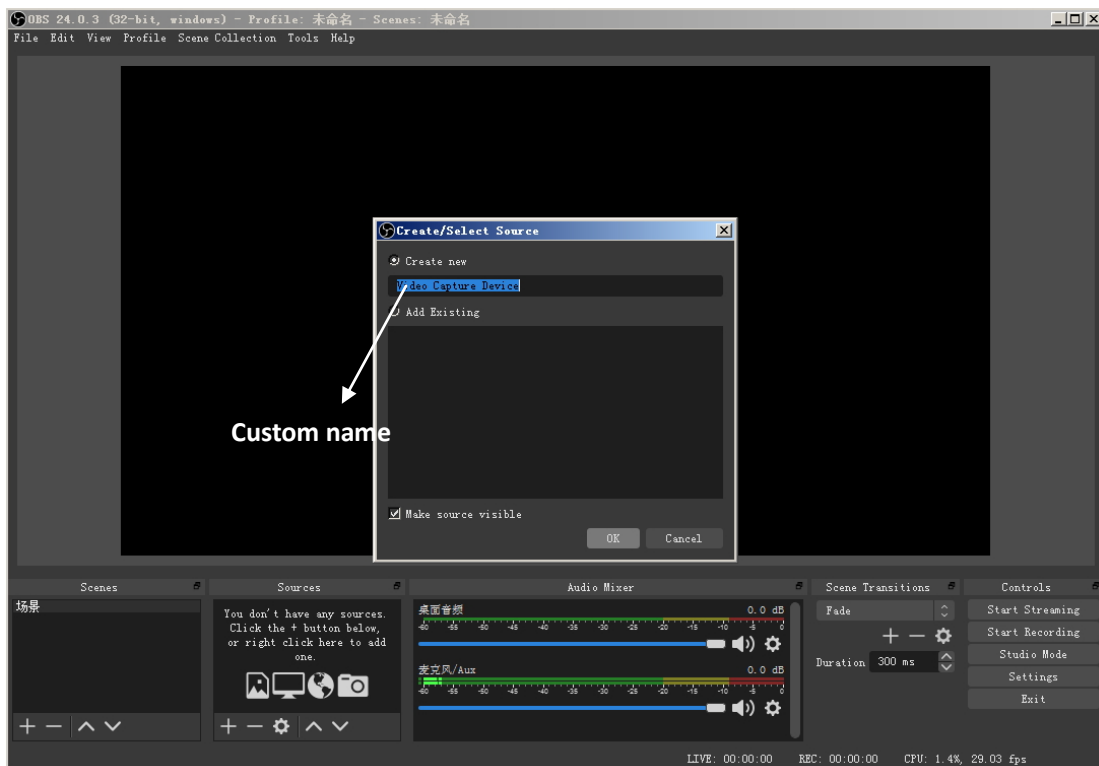
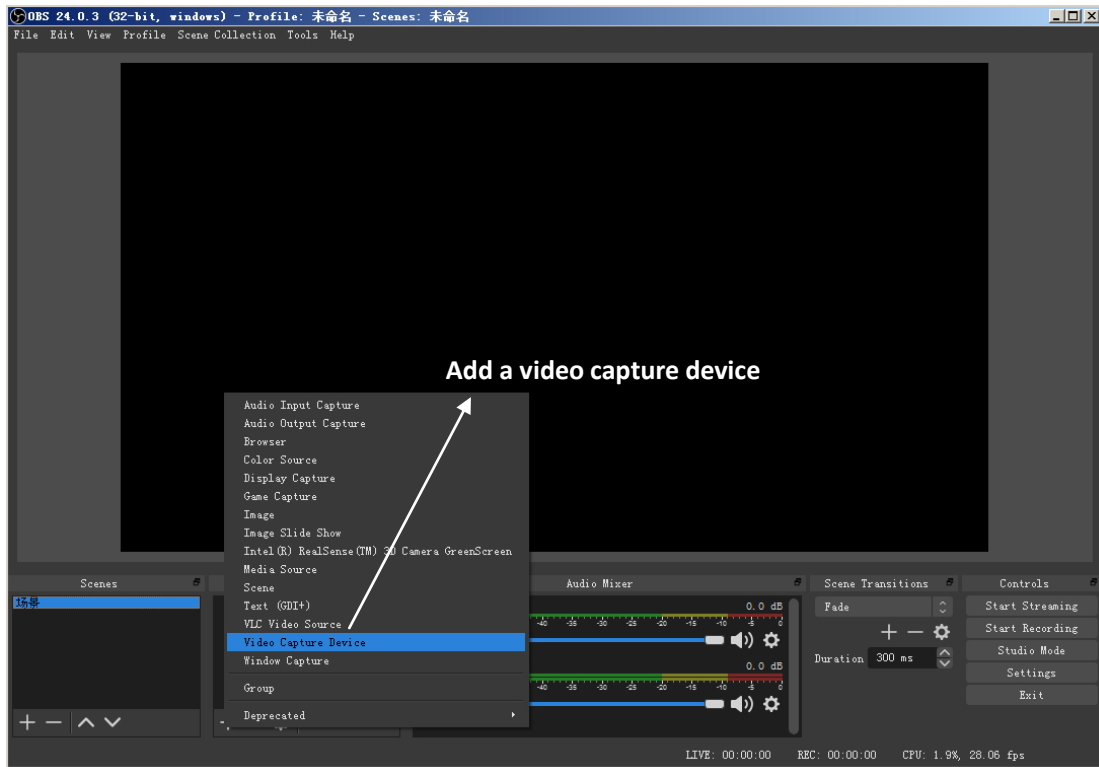
Figure 1.1 Audio and Video nodes in the device manager



Step 2: Add a video capture device

Open the OBS software, click the "+" in the source box in the lower left corner of the interface, and then click "Video Capture Device", as shown in Figure 2.

After clicking "Video Capture Device", an interface for modifying the name will appear, and the name can be customized. As shown in Figure 3.



Step 3: Set video capture device properties

① Set the video properties.

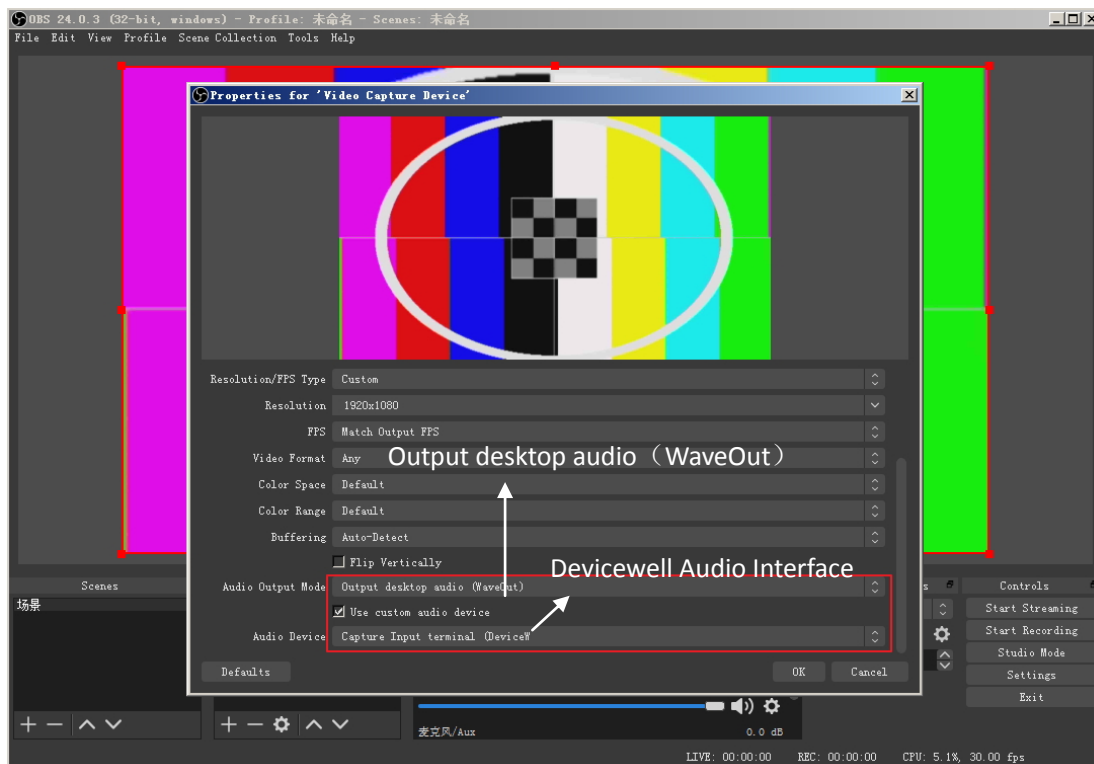
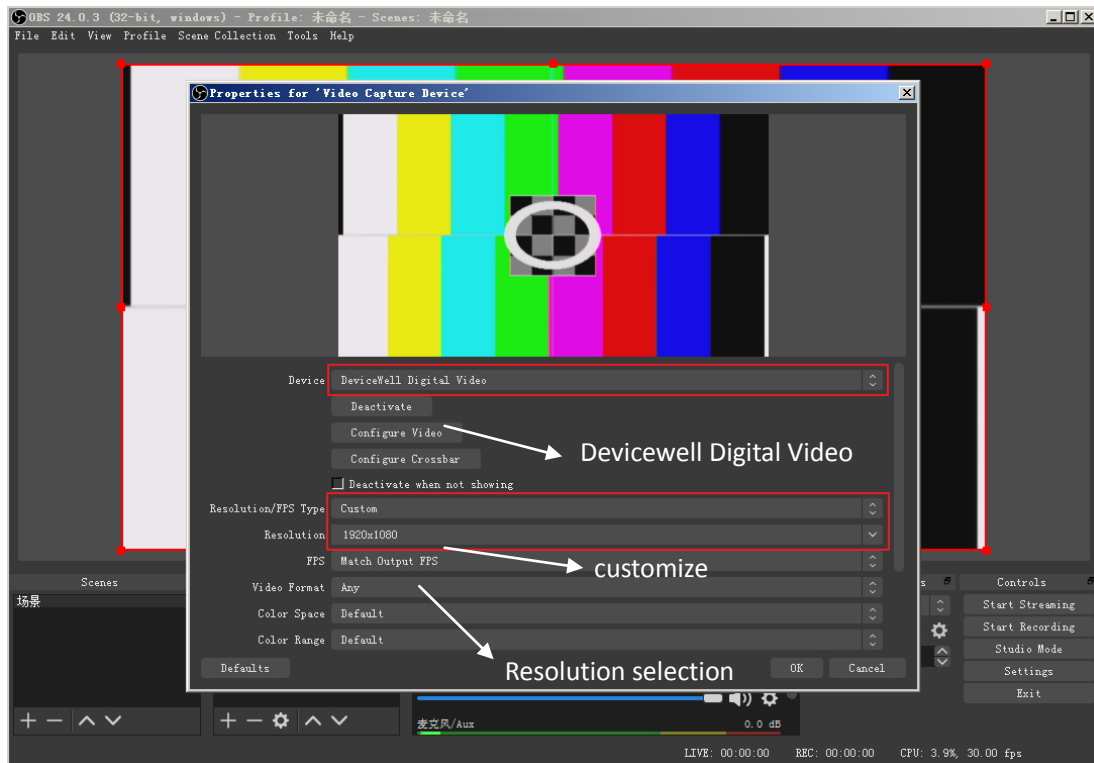
Device selection: Devicewell Digital Video;

Resolution/Pitch rate Type selection: custom; resolution can be selected: 1920*1080, 1280*720,

640*360 as shown in Figure 4. ② Pull down to set the audio properties.

Audio output mode selection: output desktop audio (WaveOut); check the use of custom audio equipment

Audio device selection: Capture Input terminal (Devicewell Audio Interface), as shown in Figure 5.



Description:

1. The resolution setting needs to be customized to have a video display. If there is no image display after setting, you need to set the video format to MJPEG. (The latest OBS version 25.0.1 can choose H264 in the video format, so the image quality will be improved)
2. You need to connect the device to the computer before each use, and then open the OBS software, otherwise the OBS software cannot recognize the USB device.

connection instructions with Android phone

Step 1: Install the APP: USB camera on the Android phone, as shown in the figure



Step 2: Connect the device and mobile phone with the adapter cable, as shown in the figure.

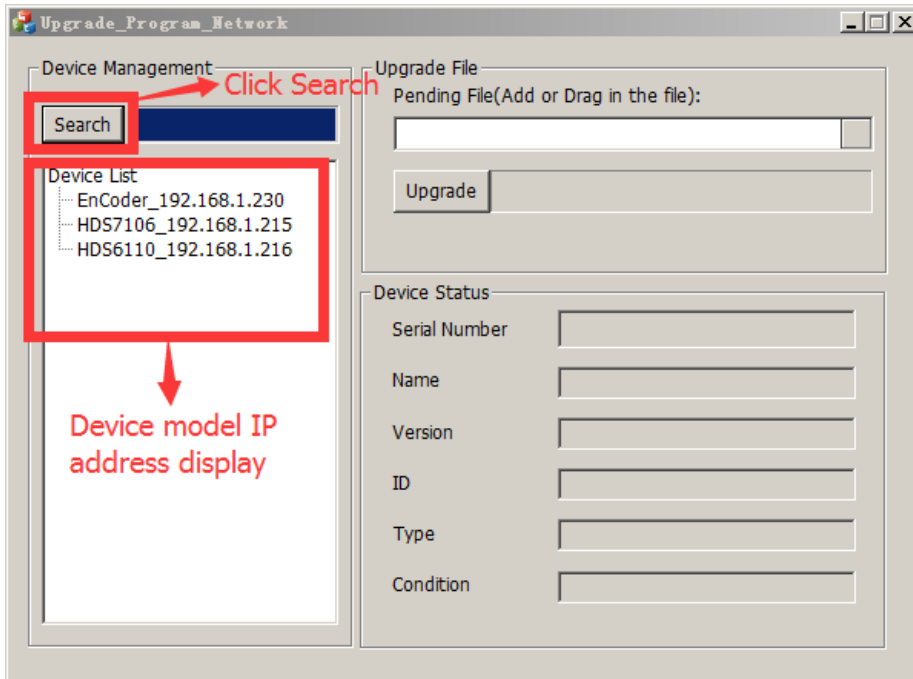


Note: You need to use a mobile phone that can support UVC

8. Instructions for synchronizing regional time and upgrading firmware

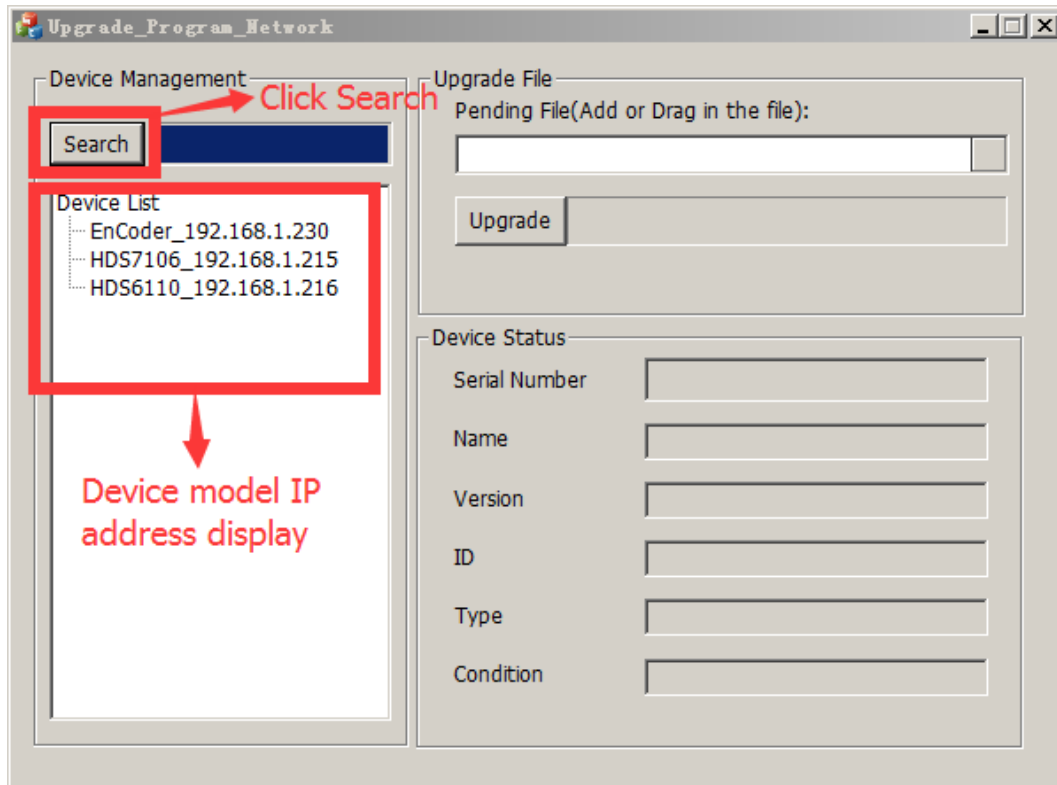
1. Synchronize time

Prepare a network cable, connect the RJ45 interface of the switcher to the local area network, open the software provided by DeviceWell to synchronize the time, and click to search for the device. If the device can be found normally, the time on the switcher will automatically synchronize with the computer time. No further action required; as shown below



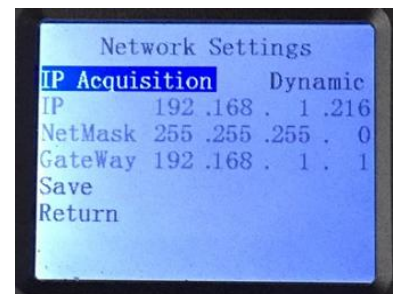
2. Upgrade the device

Continue the above steps, double-click the device model you want to upgrade in the left device column, drag the program provided by DeviceWell into the upgrade tool, click the upgrade button, the device will automatically upgrade, and the software will display the upgrade success after successful upgrade; as shown below (note that the device cannot be powered off and unplugged during the upgrade process)



3. What to do if the software cannot find the device

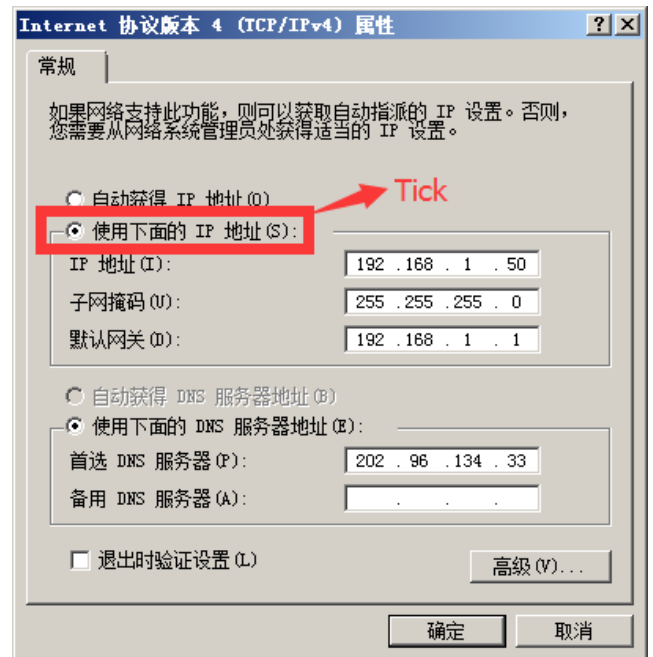
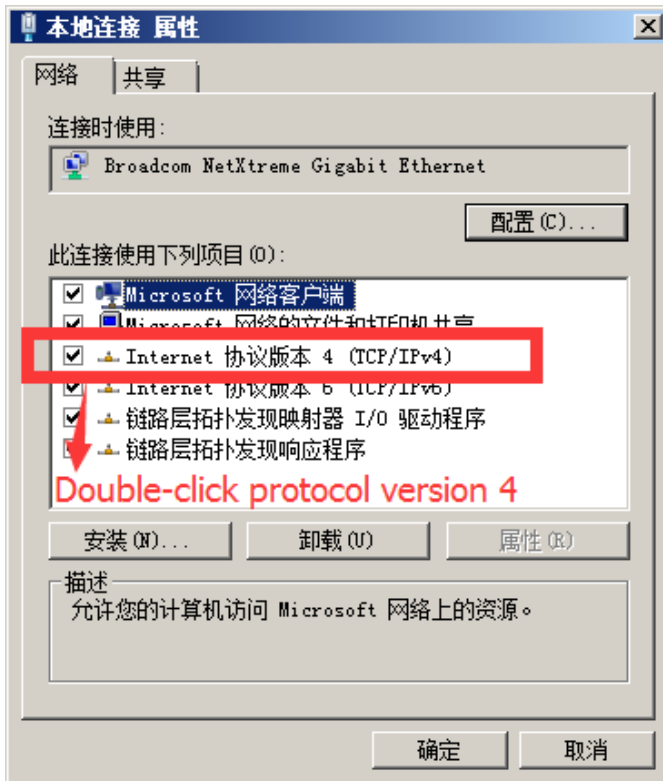
The first method: first check whether the IP settings of the switcher device are set to dynamic IP acquisition (DHCP), and operate the network setting function in the menu through the knob; if the switcher has been set for dynamic IP acquisition, connect the LAN cable of the LAN to the switcher, Your LAN will automatically assign an IP address to the switcher. At this time, you can search for the device again when you search again; as shown below



The second method: directly connect the switcher to the computer with a network cable, first set the switcher to the static IP function, and use the knob to operate the network setting function in the menu;

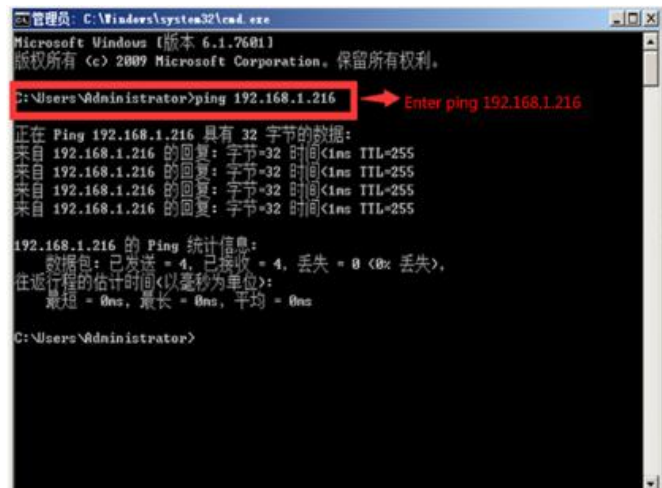
Fix the switcher with an IP address. For example, if the switcher is fixed at 192.168.1.20, the computer must be set to a fixed IP address.

To set the IP address of the computer, open the Network and Sharing Center → click Local Area Connection → click Properties → double-click Internet Protocol Version 4 (TCP IPv4). An IP address setting page will appear. Select the IP address below and manually fill it in IP address 192.168.1.30, manually fill in the subnet mask 255.255.255.0, and finally click OK.



The third method: confirm whether the device IP address is properly connected to the local area network. There is a Windows Start menu in the lower left corner of the desktop of the computer. Click Start and a search box will pop up. Enter cmd and press Enter. A command line will pop up. Is the so-called console, enter the IP address of the device you are searching for, such as ping 192.168.1.20 and press Enter;

(Note that you need to press the space bar after typing ping)



9. Failure and Maintenance

9.1 Common Faults and Solutions

(1) The output image may be flickered by interference. The quality of the wire used may be poor, and the shielding layer of the wire is not well prepared. When there is a strong radio near the use environment, radio waves may interfere with the transmission of the signal, resulting in unstable signal flicker. Please use the wire produced by regular manufacturers,

such as Belden, Jia Nai Mei.

(2) When plugging in the audio and video interface, if there is obvious static electricity, the device power ground wire may not be good grounding, please ground in the correct way; otherwise it will easily damage the host and shorten the life of the mainframe.

(3) When RJ45 (generally: Computer network port) cannot control the Switcher, check whether the communication port set by the control software corresponds to the serial port of the connected device; check if the communication port of the computer is good.

9.2 Maintenance

Use a soft, dry cloth to clean the device. Do not use alcohol, paint thinner or benzene to clean. Make sure that the device is stored and operated in an environment away from liquids and stains.

9.2.1 Warranty information

The company guarantees that the process and materials of the product are not defective within 12 months after purchase from the company or its authorized distributors, under normal use and service support. We offer a one-year warranty after sale.