

iTrans UC-HUB2U

Dual USB and HDMI Cameras Mixer Hub

User Manual V1.1





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CAUTIONS

Clean the unit with a soft, dry clean cloth or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents or abrasive substances to clean this unit.



WARNING:

This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment center.



1. OVERVIEW

The iTrans UC-HUB2U is an USB and HDMI source switcher and mixer, it enables fast switching between 3 sources (1x USB 3.0, 1x USB 2.0, 1x HDMI), and mixing 2 of them into 1 image, it provides one HDMI output for the local monitor, and one USB-C output for the PC to do web conferencing or live broadcasting.

This cost-effective and easy-to-use solution could be ideal for remote education, collaborative meetings, webinars, or live streaming where there are multiple cameras from different angles or need capture HDMI content to the remote together with cameras.

The INFOBIT iTrans UC-HUB2U Switcher is the most easy and reliable tool for simultaneous capture and mix of two of three video sources into one single USB stream with audio for your PC for recording, videoconferencing, lecture capture and streaming applications.

No driver installation is necessary, and it will work on all motherboards and USB 3.0 chipsets. It features two USB inputs, one HDMI input, a line level stereo analog input, a line level stereo analog output, an internal USB 3.0 hub with 2x USB 3.0 ports for expansion purposes and USB 3.0 connector for the host.

It supports UHD and HDTV video formats, up to 4K60, and most computer graphic formats. Compact in size and rugged, the switcher is a practical and an easy-to-use USB 3.0 capture solution. It is compatible with Windows, OSX and Linux operating systems, and is UVC-compliant.

The switcher supports 1080p resolutions up to 60 fps for USB and HDMI inputs. The line level stereo analog audio input and output are two-channel LPCM.

Main Feature:

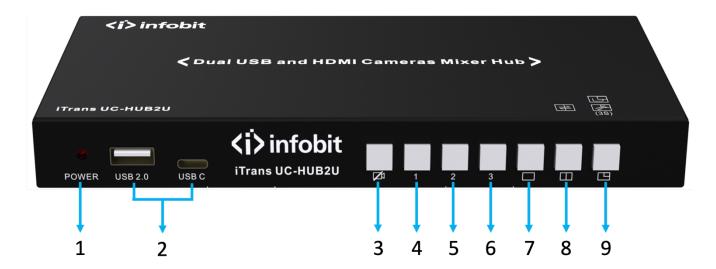
- Supports 3 camera sources connection, 1x USB 3.0, 1x USB 2.0, 1x HDMI 1.4
- ➤ HDMI input can be any HDMI source like laptop, document camera.
- > Seamless switching between 3 input sources.
- Mix videos from 3 input sources.
- Mixed layout can be defined in the web like picture in picture, side by side, big and small. -1x HDMI 2.0 output for local monitor, 1x USB-C (UVC/UAC) output for PC.
- Enable mute video/audio to video conferencing or live broadcasting.
- Audio I/O and mixer through the web.
- Controllable by LAN & RS-232.
- PoE supported, saving additional PSU.
- Cost-effective, reliable, and simple to install (no driver required).



> Compact and slim housing design with only 18mm height.

2. INTERFACES

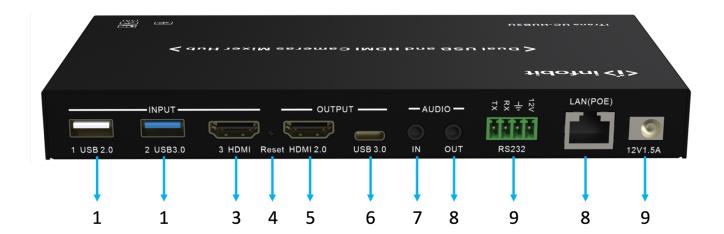
2.1 Front Panel



ID	Name	Description
1	Power Indicator	Power status indicator
2	USB 2.0 & USB C Ports	Reserved for future use
3	Video Mute Button	Short press to mute the UVC output. Press for 3s to show the IP address.
4	Video 1 Button	Switch the source from USB 2.0
5	Video 2 Button	Switch the source from USB 3.0
6	Video 3 Button	Switch the source from HDMI
7	Single Video Button	Single view layout
8	PBP Mode Button	Side by side layout Toggle-click to switch the left-right signals.
9	PIP Mode Button	Big & small layout Press for 3s to switch the big-small signals. Toggle-click to switch the small image positions.



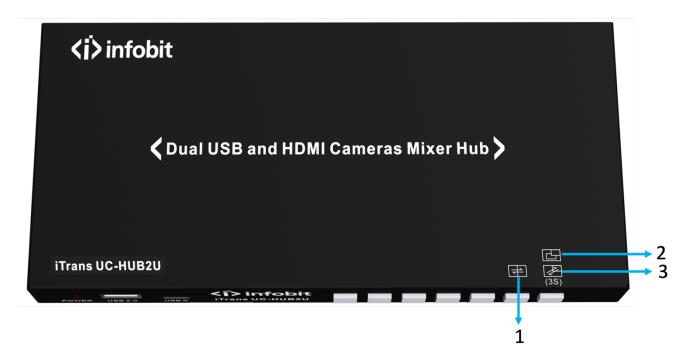
2.2 Rear Panel



ID	Name	Description
1	1 USB 2.0 INPUT	1x USB 2.0 camera
2	2 USB 3.0 INPUT	1x USB 3.0 camera
3	3 HDMI INPUT	1x HDMI camera or video source
4	Reset button	Reset
5	HDMI 2.0 OUTPUT	1x HDMI 2.0 output for screen
6	USB 3.0 OUTPUT	1x USB-C output for PC
7	IN AUDIO	1x line in
8	OUT AUDIO	1x line out
9	RS232	1x RS232 for control
10	LAN (POE)	1x 1,000M LAN for control
11	Power	12V 1.5A power input



2.3 Top View

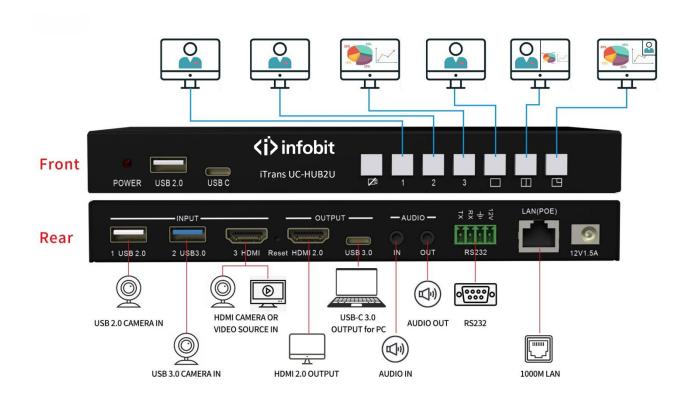


ID	Name	Description
1 Left-Right switching	Loft Dight switching	Toggle press this button to switch the left
	and right images position.	
2 Constitutore resistion	Cmall image position	Toggle press this button to change the small
2	2 Small image position	image positions among 4x corners.
3	Big-Small switching	Long press this button for 3s to switch the big
		and small images positons.

INFOBIT AV www.infobitav.com info@infobitav.com



3. DIAGRAMS



4. POWER SUPPLY

Local Power Source

Plug the power connector to the power adapter to the power input connector of the **iTrans UC-HUB2U.** Choose the appropriate power plug (US, UK, EU or AU) to be installed on the power adapter.



Power over Ethernet

The LAN Ethernet switcher supports PoE (Power over Ethernet).



5. PACKAGE LIST

- > 1x 4-Pin Phoenix terminal male
- 2x Mounting ears
- > 4x Screws
- > 1x Power adapter
- > 1x 1m USB C to c cable

6. SPECIFICATIONS

ОИТРИТ		
HDMI output	1x HDMI 19-pin female connector	
Format Compliance	HDMI1.4 / HDMI2.0	
HDCP	HDCP1.4 / HDCP2.2	
USB Interface	Type C x1, UVC and UAC	
	HDMI: 3840x2160@60Hz, 3840x2160@30Hz, 1920x1080@60Hz,	
Video Output Resolution	1280x720@60Hz	
	Type C: 1920x1080@30Hz, 1280x720@30Hz etc.	
Analog Audio Output	HDMI, USB, Jack (analog input)	
INPUT		
HDMI Input	1x HDMI 19-pin female connector	
Format Compliance	HDMI1.4	
HDCP	HDCP1.4	
USB interface	Rear: USB 3.0, Type A x1; USB2.0, Type A x1	
USB interface	Front: USB 2.0, Type A x1, Type C x1	
	HDMI: 1920x1080@60Hz, 1280x720@60Hz	
Video Input Resolution	USB 3.0: 1920x1080@30Hz, 1280x720@30Hz etc.	
	USB 2.0: 1920x1080@30Hz, 1280x720@30Hz etc.	
Audio Input	HDMI, USB, Jack (analog input)	
CONTROL		
Control connectors	3.5mm Phoenix terminal / RS232 interface	
LAN port	RJ45 x1: 1,000Mbps, POE option (802.3af)	
Control method	Web GUI, Telnet, RS232, Buttons	
Dimension (W x D x H)	180mm x 95mm x 18mm	



Weight	1KG	
Operating Temperature	0° C to +45° C	
storage Temperature	0° C to +60° C	
Relative humidity	20%~ 85% RH (no condensation)	
DC Power	12V	
Power Consumption	Power Consumption 15W(MAX)	
Power adapter	AC100~240v 50/60Hz 12V/1.5A	
	Adapter with four options: US, Europe, AU and UK	

7. DEFAULT CONFIGURATIONS

Network settings

Ethernet Network Configuration

- > DHCP, Enable.
- ➤ Wired Authentication Status, Disconnected from the network.
- Display Settings
- Preview
- > HDMI Resolution: Auto
- Layout
- Signal Source: USB 1
- UVC Output (Video Mute)
- Mute Output OFF
- Customize Home screen.
- Audio Setting
- Speaker: USB 1
- Microphone: USB 1



- Volume Setting
- > Speaker, HDMI Out
- ➤ Microphone, USB 1 & USB 2 & HDMI In & Line In

System Settings

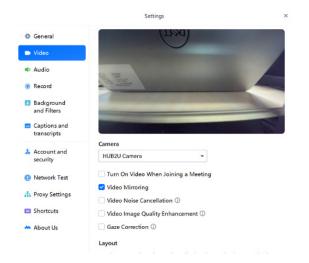
Date & Time

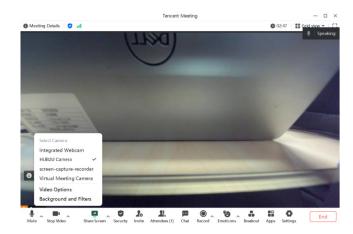
- Use 24-hour time format.
- Set date & time, Use time server (online)
- Time zone, (GMT+02:00) Amsterdam
- Language
- ➤ Home screen language, English (United States)
- ➤ Web-GUI language, English
- Configuration file
- > Auto Standby: Never
- Login Password
- Developer tools
- Factory reset.
- Firmware Updates
- Automatic upgrades: ON
- About Device



8. UC SOFTWARE CONNECTION

Launch video conference client (such as Zoom, Microsoft Teams, etc.) to use the camera connected to the **iTrans UC-HUB2U** device, select the camera name **HUB2U Camera**. Refer to the following figure:





Note:

The HDMI output will show the default homepage without camera activated; it will sync the video image as long as camera source is selected during video conferencing.

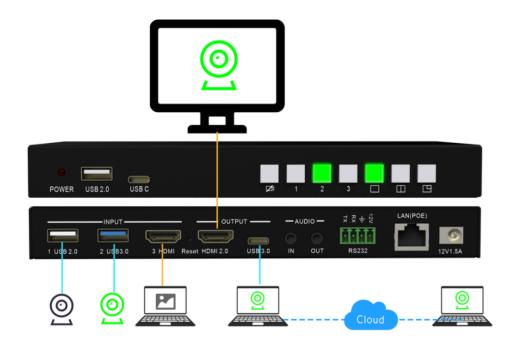
9. SWITCHING

9.1 Single Screen Display

By pressing the button to enter **Single Screen** mode, press the button to select the

video source you want to output as shown in the following example:





When the Single Screen control button is pressed and lights up green, USB 2 port control button lights up green, the Single Screen video signal source is output USB 2.

Press the USB 1 port control button and then light up green, it will switch Single Screen video signal source to USB 1 port.

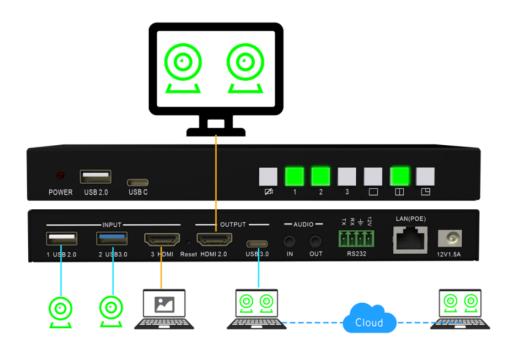
Press the HDMI 3 port control button and then light up green, it will switch Single Screen video signal source to HDMI 3 port.

9.2 Dual Screen Display

9.2.1 PBP Mode

By pressing the button to enter PBP (Picture-By-Picture) mode, press the button to select two video sources you want to output as shown in the following example:





When the green lights of PBP control button is on, USB 1 and USB 2 control button





light up green, the PBP video signal source is output USB 1 and USB 2

Press the USB 1 and HDMI 3 control button and then light up green, it will switch PBP video signal source to USB 1 and HDMI 3.

Press the USB 2 and HDMI 3 control button and then light up green, it will switch PBP video signal source to USB 2 and HDMI 3.

During the PBP on display, press the PBP control button again, it will swap the left and the right video source display from each other.

By toggle pressing the button to switch the left-right images position.

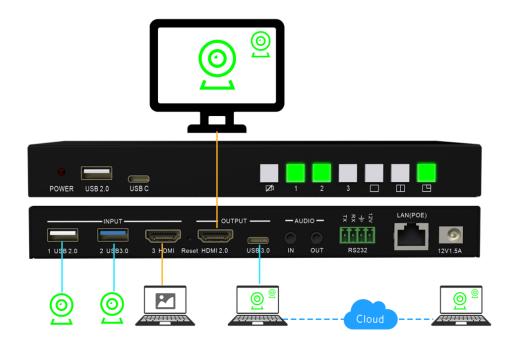




9.2.2 PIP Mode

By pressing the button to enter the PIP (Picture-In-Picture) mode, press the button

to select two video sources you want to output as shown in the following example:



When the green lights of PIP control button is on, USB 1 and USB 2 control button light up green, the PIP video signal source is output USB 1 and USB 2.

Press the USB 1 and HDMI 3 control button and then light up green, it will switch PIP video signal source to USB 1 and HDMI 3.

Press the USB 2 and HDMI 3 control button and then light up green, it will switch PIP video signal source to USB 2 and HDMI 3.

During the PIP on display, press the PIP control button again, it will swap the large and the small video source display from each other.

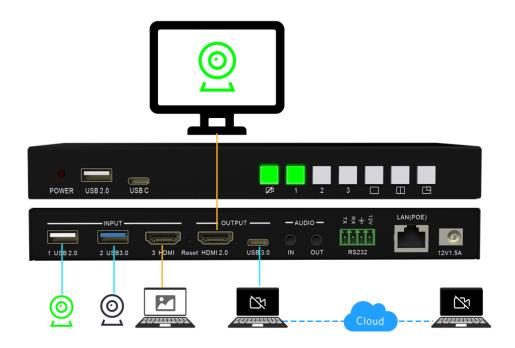
Toggle press the button to switch the small image positions from the 4 corners.



Long press the button for 3s to switch the big-small images positions.

9.3 Mute UVC output

By pressing the button to enter the Mute UVC output as shown in the following example:



When the green lights of video mute button is on, USB 1 port control button lights up green. You can still see the camera image from HDMI connected monitor, however both PC and remote conference participant can't see the camera image, which are blocked.

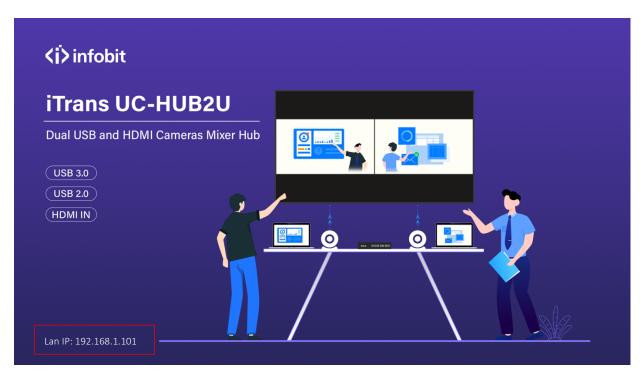
Long press the button to show IP address.

Note:

This function can be used to debug the local camera device before the meeting, so that the remote participants will not be able to see the process of debugging the local camera, to protect the user's privacy.



10. HOME PAGE



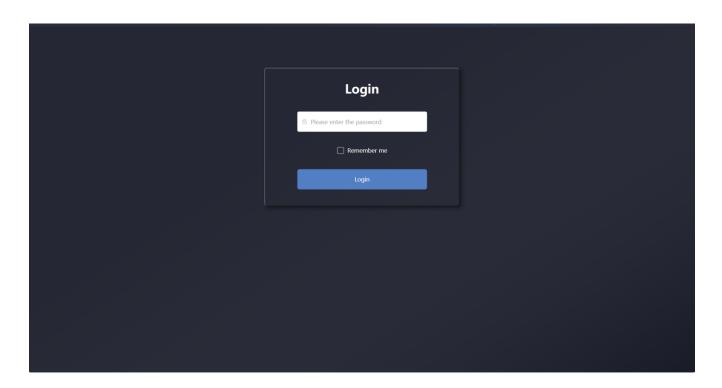
Attention:

You can access the web management page through this IP address. Also you can use Telnet function via this kind of IP as below photo example IP 192.168.3.89 showed:



```
Welcome to WMedia telnet
input 'help' to see command list
WMedia>help
help show all commands, help xxx to show comand detail help
standby wakeup device or set device standby time
uvc UVC Output On/Off
layout layout control
OK
WMedia>help standby
standby set xxx set auto standby time, xxx can be off, 1M 5M 10M 15M 30M, 1M = 1 minute
standby sleep if ScreenOn, set stand by now
standby wakeup if sleeping, wake up
for example: standby set lmin
OK
WMedia>__
```

11. WEB PAGE



The login page will be shown when enter the IP that showed on the home page.

The default password is admin.



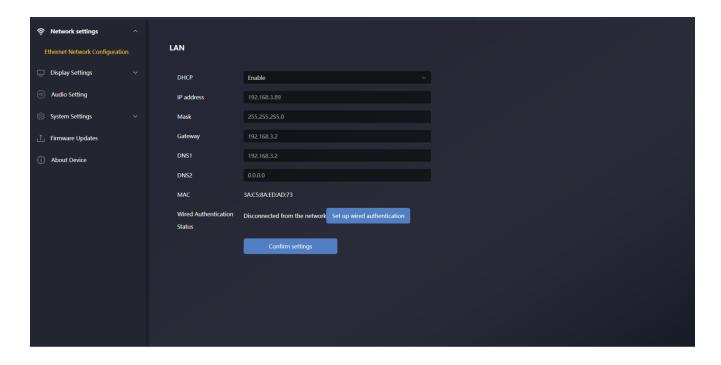
Note:

It doesn't need to enter the password again when you ticked on the Remember me after the first time login.



11.1 Network settings

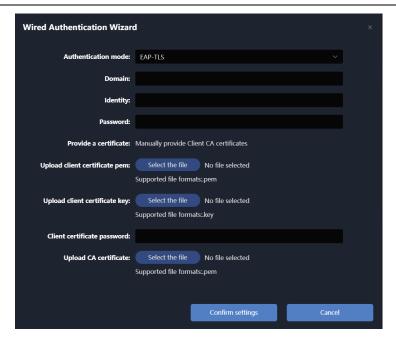
11.1.1 Ethernet Network Configuration



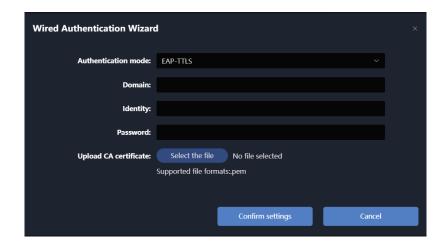
Here you can set to automatically obtain the LAN IP or manually. **The DHCP function is turned on by default.** The Wired Authentication Status has the following four states:

EAP-TLS

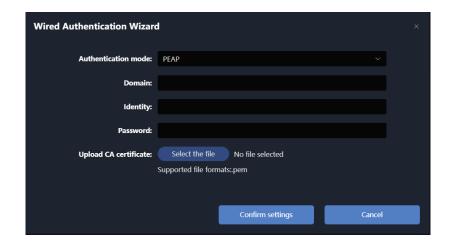




EAP-TTLS



PEAP





No Authentication



Note:

The default is No Authentication, which means no authentication is required. The LAN network with network cable can be plug-and-play.

11.2 Display settings

11.2.1 Preview



Here you can preview the signals of the three input sources, including camera signals and computer HDMI signals.



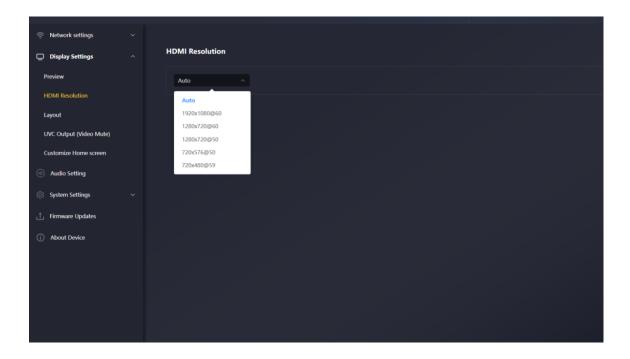
Attention:



If the camera is occupied by video conferencing software or the computer system camera, the video output test and preview will not be possible here, and the following red font error will be prompted.



11.2.2 HDMI Resolution



The default mode is Auto. The resolution in the drop-down list is the resolution that the monitor is connected to and can use.

Note:

If the display only supports 1080P, the 4K output resolution will not appear in the above resolution list.



11.2.3 Layout

Single Screen



Single Screen mode, you can select the corresponding signal input source for single-screen output display. Simply click the Signal Source with the mouse. When the green button of the corresponding interface lights up, the signal input source is displayed on the screen.

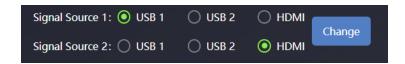
PBP Mode



In PBP mode, you can select two signal sources at the same time and then they will be output and displayed on the same screen in the same proportion, one on the left and one on the right. You can directly click Signal Source 1 and Signal Source 2 with the mouse. When the green button of the corresponding interface lights up, this signal input source is output and displayed on the screen.

After clicking the "Change" button, Signal Source 1 and Signal Source 2 will be swapped as below photo showed:



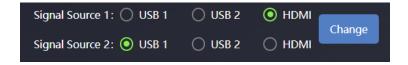


PIP Mode



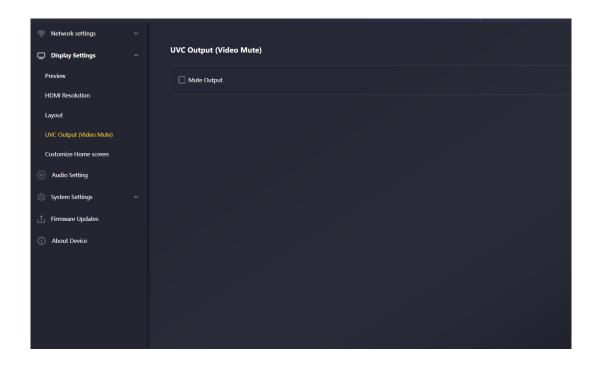
In PIP mode, you can select two signal sources at the same time and then display them on the same screen, one large and one small. You can directly click Signal Source 1 and Signal Source 2 with your mouse. When the green button of the corresponding interface lights up, this signal input source is being output to the screen. Layout 3-6 are all PIP modes with the small window in different position.

After clicking the "Change" button, Signal Source 1 and Signal Source 2 will be swapped as below photo showed:



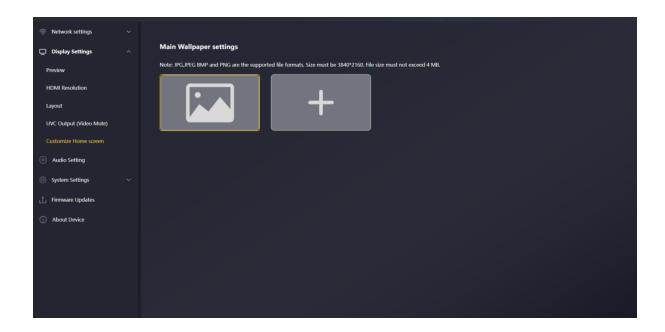


11.2.4 UVC Output (Video Mute)



This feature is the same as "Mute UVC Output" button in the front panel. It is turned off by default.

11.2.5 Customize Home Screen

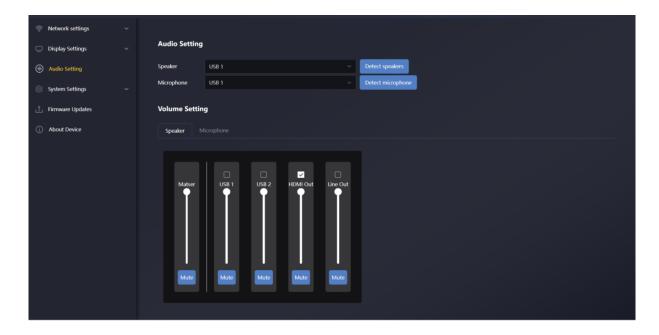


When the device is started, the boot screen will be displayed. Users can change the background image of the main page by themselves. Select an image (supports jpg, bmp, png, gif image formats,



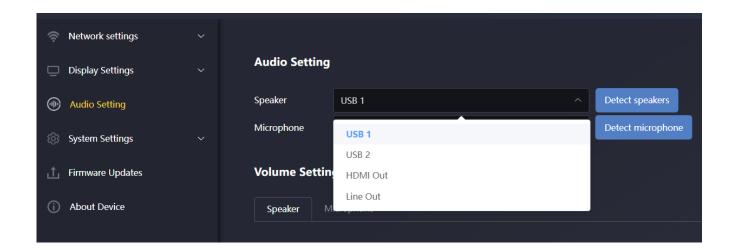
resolution is 1920 * 1080P) to change. Of course, users can also return to the original main interface every time.

11.3 Audio settings



Here you can test whether the speakers and microphones that connected to the device are available or not. You can also select which available speaker output and corresponding volume adjustment and select which available microphone input and corresponding volume adjustment.

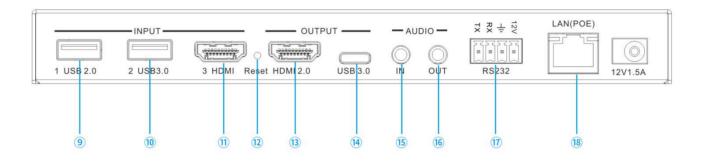
In the Speaker drop-down options, you can test the following four options. After selecting the corresponding option, click the "Detect speakers" button to test whether it is available and can output sound.





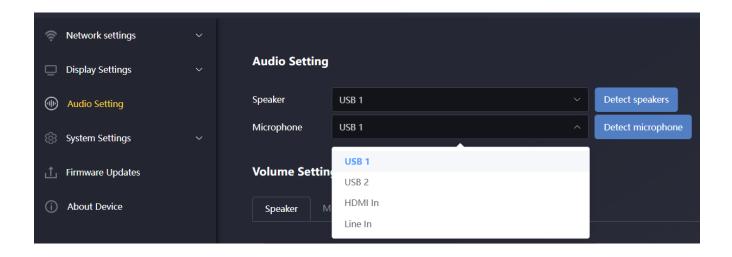
As below device interface diagram showed:

- ➤ USB 1 corresponds to the audio output of ⑨
- USB 2 corresponds to the audio output of 10
- > HDMI Out corresponds to the audio output of (3)
- Line Out corresponds to the audio output of 16



Device Interface Diagram

In the Microphone drop-down option, you can test the following four options. After selecting the corresponding one, click the button "Detect microphone" to test whether it is available and can input sound.



As above device interface diagram showed:

- USB 1 corresponds to the audio input of 9
- > USB 2 corresponds to the audio input of (10)



- HDMI In corresponds to the audio input of (1)
- Line In corresponds to the audio input of (15)

Volume Setting > Speaker

As below example shown, HDMI OUT is checked by default HDMI out, so the speaker output is currently

HDMI OUT port. The volume bar below can adjust the volume of this HDMI OUT speaker output port. The volume bar below Master can adjust the speaker output volume of the ticked one, which has a multiplication effect. For example, in the current example of the HDMI OUT port, when you click the

"Mute" button, a red background frame will appear Mute, indicates that the function is enabled.



Volume Setting > Microphone

As shown in the following example, all are currently checked by default



There is a volume bar under the corresponding microphone input port to adjust the sound volume. If it is ticked, it means the current function is enabled.

The volume bar under Master can adjust the microphone input volume of the ticked microphone source, which has a multiplicative effect. When you click the "Mute" button to take effect, a red

background frame will appear had indicates that the function is enabled.

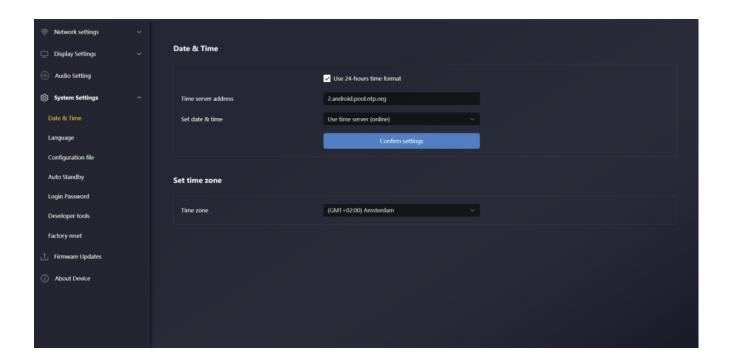
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11.4 System settings

11.4.1 Date & Time



Use 24-hours time format is enabled by default.

Time server address is synchronized to the Google server 2.android.pool.ntp.org of the Android platform by default.

Note: If you have your own server, you can also set it here to synchronize the time with your own server address

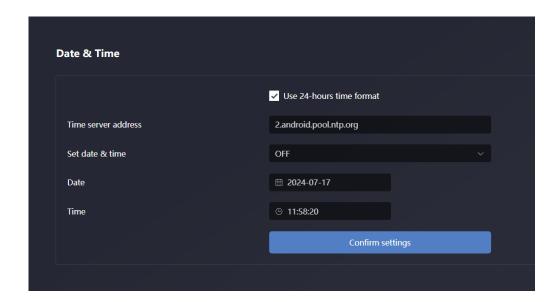


Set date & time, there are two modes:

- Use time server (online)
- This function is enabled by default.

OFF

Here you can manually set the time and date you want.



Note: It needs to re-login the web client automatically to take effect when Set date & time from OFF to Use time server (online).

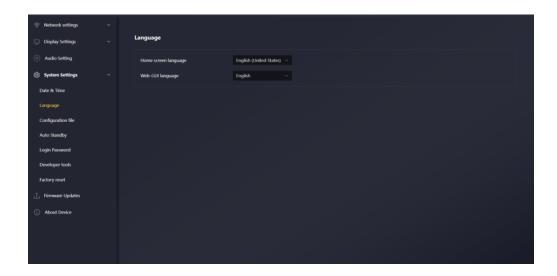
Set time zone.

Here you can manually set the desired time zone. After syncing to the Internet time, it will be displayed in local time. The default time zone is (GMT+02:00) Amsterdam.



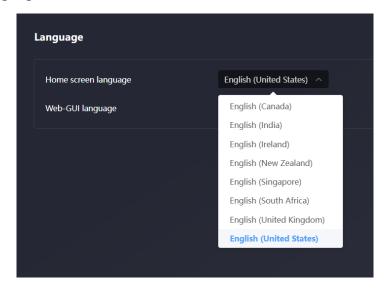


11.4.2 Language



Here you can choose and define the language you want to display on the home page and web client.

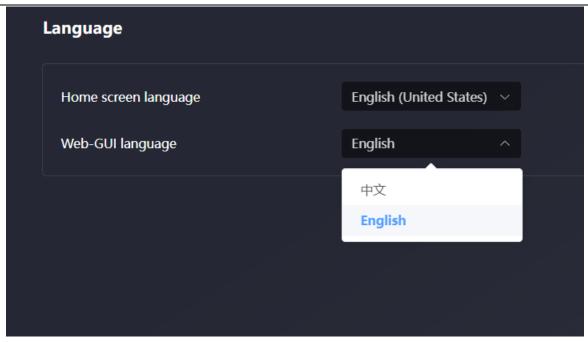
Home screen language



Here is to set the language displayed on the Home Page, which supports the languages of many countries.

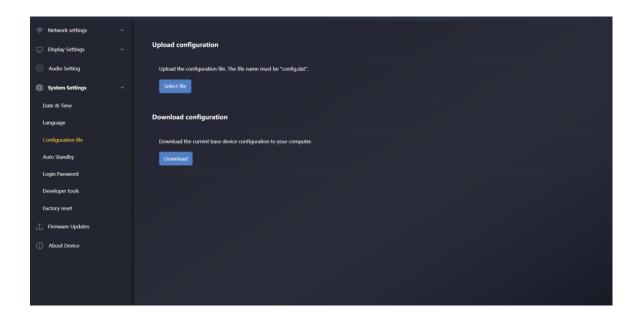
Web-GUI language





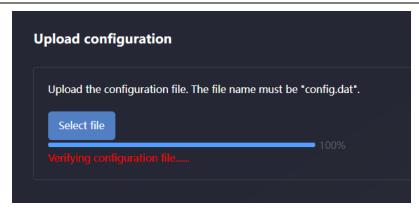
Here is to set the language displayed on the web side, currently English and Chinese are supported.

11.4.3 Configuration file



Upload configuration





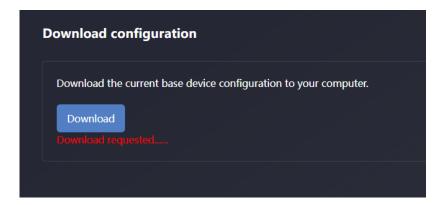
Here you can upload the previously saved configuration file Config.dat. Click the button "Select file" to load the Config.dat file you want to upload, as shown in the following figure:

After Upload is completed



Note: After uploading and configuring, it needs to re-login automatically to the web page to take effect.

Download configuration.



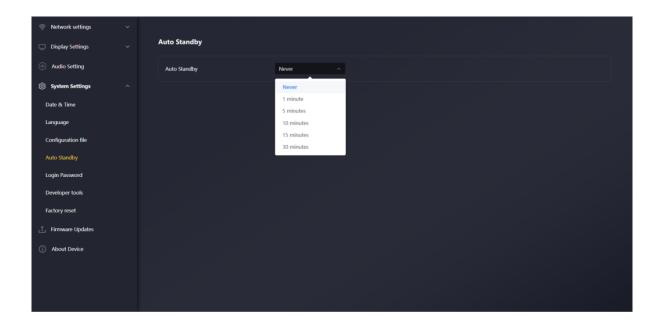
Here you can download the configuration file Config.dat for the current web settings. Click the "Download" button as shown below.



After the download is complete, there will be the following Config.dat file.



11.4.4 Auto Standby



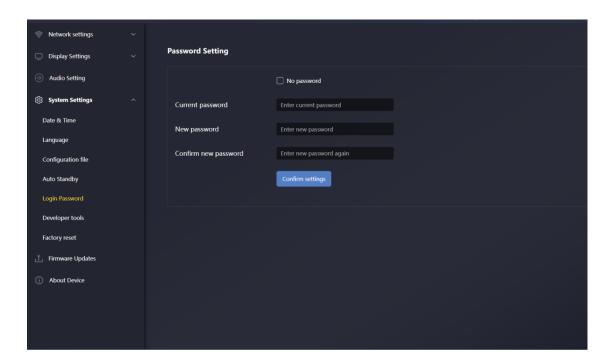
Here you can set the standby time interval:

- > Never: always on-screen display.
- ➤ 1 minutes: enter standby mode after 1 minute.
- > 5 minutes: enter standby mode after 5 minutes.
- > 10 minutes: enter standby mode after 10 minutes.
- > 15 minutes: enter standby mode after 15 minutes.
- > 30 minutes: enter standby mode after 30 minutes.

Note: The default standby time setting is Never. The device will wake up automatically when the video conferencing software calls the camera.

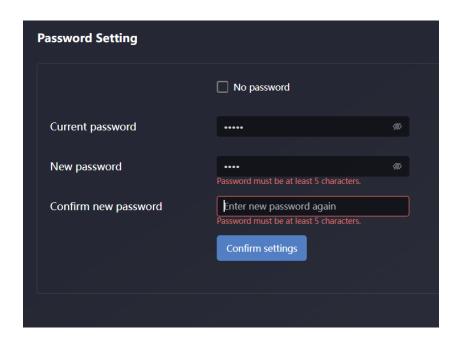


11.4.5 Login Password



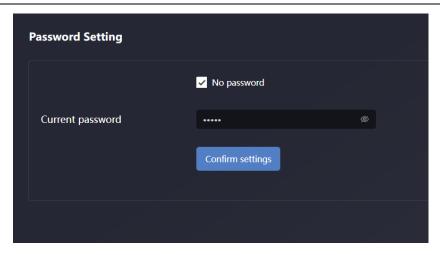
The default login web page password is admin.

You can change your password here and the minimum required password is 5 characters. Otherwise, the following error message will appear:

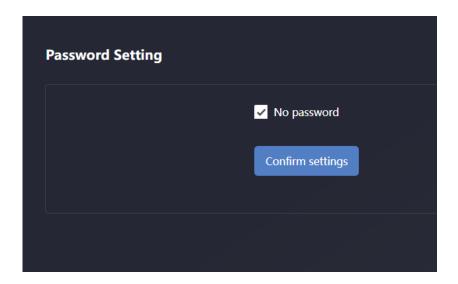


After ticking **No password**, enter the current login password for confirming, no password is required to enter the web in the future.

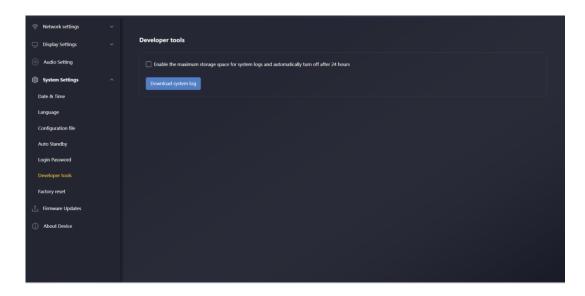




After click the button Confirm settings



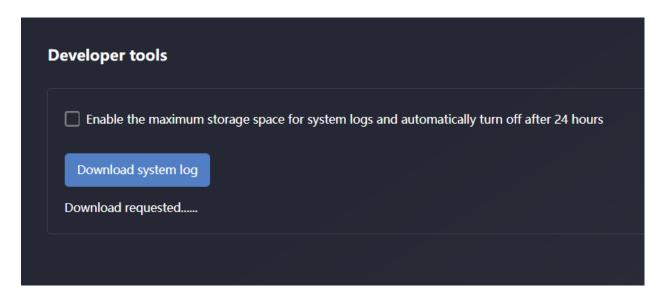
11.4.6 Developer tools



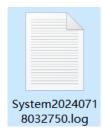


Here you can capture some abnormalities during the operation of the device, the capture the log that can be used for further analysis.

Click the button "Download system log" to request to download the log file, as shown in the following figure:

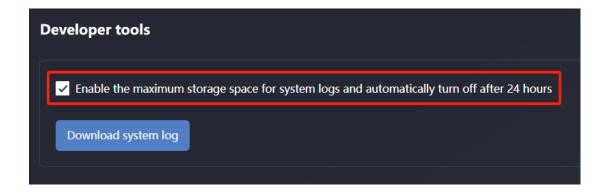


The downloaded log file is shown in the figure below:



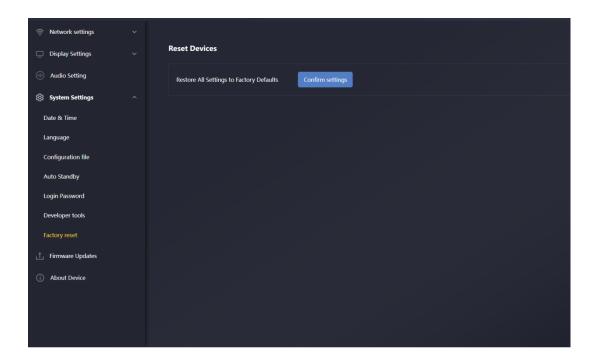
Note:

More log content will be captured during 24-hour period when ticked "Enable the maximum storage space for system logs and automatically turn off after 24 hours". It means richer log content will be captured.





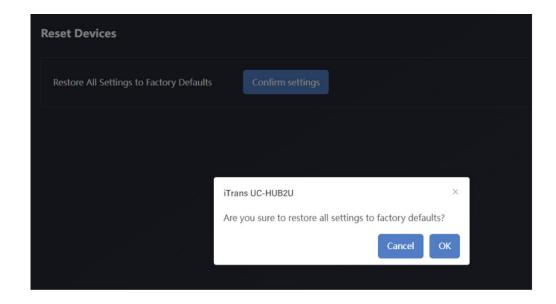
11.4.7 Factory reset.



Here you can restore the device to factory settings.

When the device encounters some problems that cannot be solved conventionally, you can restore the factory settings to eliminate some faults.

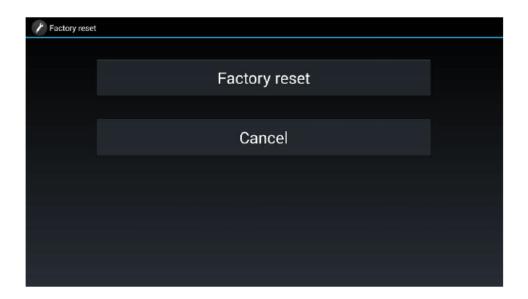
Click the "Confirm settings" button to enter the following page. After clicking the "OK" button, the device begins to enter the factory settings restoration process.



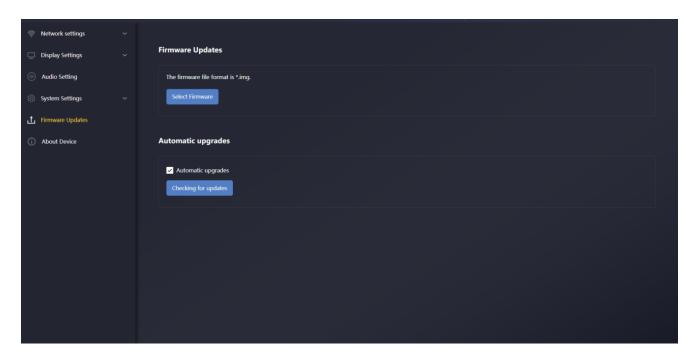


Note: After restoring the factory settings, the relevant settings will be restored to the factory default state and need to be reset.

There is a reset button on the back panel of the device. Use a pointed object (such as an unbent paper clip) to press this button for **at least 2 seconds** until the "Factory Reset" page appears as shown below.



11.5 Firmware Updates



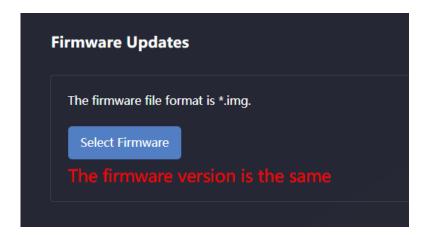


Here you can upgrade the device's firmware. There are manual upgrade operations and automatic upgrade settings. Be careful not to have power outages during the upgrade process, otherwise the device may be damaged.

Firmware Updates

Click the "Select Firmware" button to load the firmware program file to be manually updated.

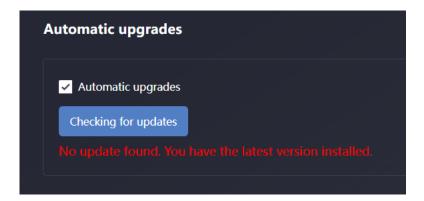
Note: If you are updating the firmware to the same version of the device, there will be an error message in red as shown below



Automatic upgrades

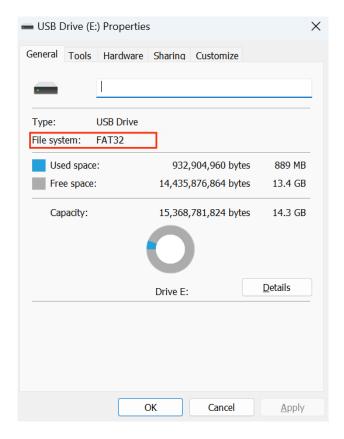
The function "Automatic upgrades" is checked by default. When the device has network access, it will actively access the OTA server in the deep night to detect whether the current device is the latest version or not. If not, it will automatically update and upgrade.

Click the button "Checking for updates" to check and find that it is the latest firmware. There will be a red font prompt as shown below:





Note: In addition to the above method of upgrading the device firmware through the web, you can also upgrade it through a USB flash drive. Copy the upgrade file "update.img" to the root directory of the USB flash drive. The USB flash drive needs to be in FAT 32 format.





update.img



11.6 About Device



Here you can see the relevant information of the device and the web version information, including below:

- Model Number
- > Firmware Version
- Web server version
- > Serial number of the base



12. DRAWGING

