



IPE Series AV over IP Management Engine

IPE-300C



User Manual

Thank you for purchasing this product.

Please read this manual carefully before use to ensure optimal performance and safety.

Please retain this manual for future reference.

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Safety and Compliance

FCC NOTICE (Class A)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

European Community Compliance Statement (Class A)

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

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All trademarks in this document are the properties of their respective owners.

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What's in the box?

IEC-300C	x 1
6pin-3.81mm Phoenix Connector (male)	x 1
3pin-3.81mm Phoenix Connector (male)	x 2
Mounting Ear	x 2
Machine Screw (M3*4)	x 4
Thank you Card	x 1

Notice

The contents of this manual are subject to change without prior notice as part of continuous product improvement. All updates will be incorporated into subsequent versions of this documentation, ensuring users have access to the most current information regarding product features and procedures.

Overview

Taska IPE-300C Management Engine seamlessly integrates with third-party control systems (e.g., AMX, Crestron) to enable centralized management of IPE-series AV-over-IP distributed systems. It also features dual 1GbE ports (with PoE support on the VIDEO LAN interface) for isolated control and multicast network operation. It offers flexible control via LAN or RS-232 interfaces and includes an intuitive web-based GUI with drag-and-drop functionality for simplified Dante system management.

Features

- Easy to create project, control and manage the system
- HTTPS, SSH, SFTP security compatible
- Support video AES256 security encryption
- Built-in Web GUI control interface for easily system setup and management
- Intuitive "drag & drop" source selection with video preview
- Powerful video wall function, supporting window roaming and marquee
- Support video, audio, RS-232, IR, USB control and management of the distributed system
- Support seamless switching for the distributed system
- Support collaboration management of computers via mouse roaming, allowing one operator manages multiple PCs
- Dual 1G network ports (VIDEO LAN port supports PoE function) to isolate Controls and video networks
- Support IP camera imported as source
- Support high definition background image (both video and picture are available), as well as multi-screen splicing display
- Dual RS-232 ports, capable of connecting to central control or controlling external devices
- 4 channel GPIO control ports (5V/12V optional level) for external devices control
- Easy to integrate with the 3rd party major control system brands
- Multiple circuits protection, lightning protection and ESD design
- PoE (802.3af PD device) or local 12V power supply
- Reliable system design, ensuring 7*24 hours reliable and stable work
- Compatible with 1U/6U V2 rack installation

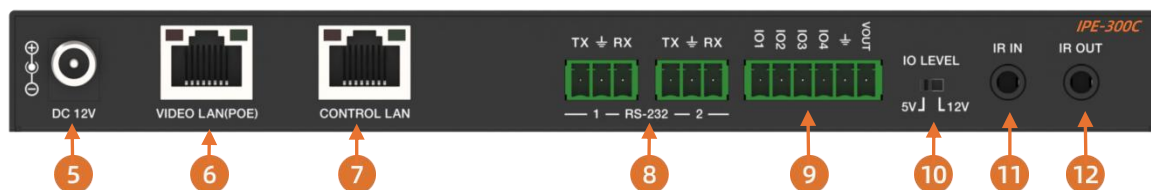
Panel Description

Front Panel



No.	Name	Function Description
1	UPDATE Port	Firmware update port. Note: Must keep no connection on this port when Controller works in normal mode.
2	RESET Button	Press and hold the button (about 10 seconds) until the STATUS indicator starts flashing and the control server will automatically reset.
3	POWER LED	The red LED will light on when the Controller is powered on.
4	STATUS LED	The status LED will flash in yellowish-green at 1-second intervals until Controller boots up completely and Control LAN is ready, then it becomes solid.

Back Panel



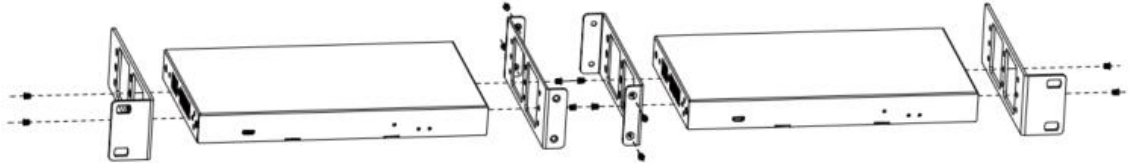
No.	Name	Function Description
5	DC 12V	DC 12V/2.5A power input port.
6	VIDEO LAN (PoE)	1G Video LAN port, supporting PoE (IEEE802.3af Class 3 PD mode). Default settings: Static mode, IP address→169.254.8.100, subnet mask→255.255.0.0, gateway→169.254.8.1 Note: When PoE is enabled, DC 12V/1A power supply is not required.
7	CONTROL LAN	TCP/IP control network port. Default settings: DHCP mode, the IP address is assigned by the router; If no router is connected, the static IP address→192.168.6.100 is used, subnet mask→255.255.255.0, gateway→192.168.6.1
8	RS-232 1/2 Port	Two identical RS-232 serial communication ports. Baud rate→57600, Data bit→8bit, Stop bit→1bit, Check bit→none
9	I/O Port	4 channel I/O level outputs, 1 channel grounding, 1 channel power supply (supports up to 12V/0.5A) to the outside.
10	IO LEVEL DIP Switch	Used to control I/O level output and VOUT voltage. Switch to left: 5V I/O level output, VOUT is 5V. Switch to right: 12V I/O level output, VOUT is 12V.
11	IR IN	Reserved Function Only.
12	IR OUT	Reserved Function Only.

Installation

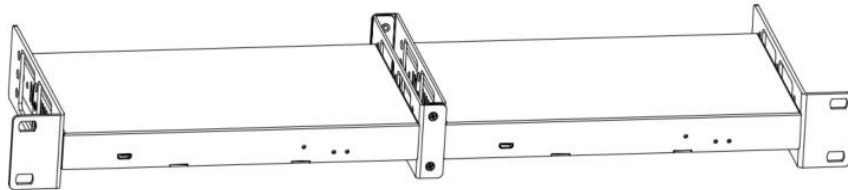
This controller provides dual mounting configurations for standard 19-inch equipment racks, supporting both 1U and 6U installation formats to accommodate diverse spatial and operational requirements. (The rack mounting kit is sold separately as an optional accessory. Please contact your authorized supplier for purchasing information and availability.)

1U V2 Rack Mounting

Step 1: Using the provided screws, securely attach two 1U V2 rack panels to the Controller. Repeat the same process to mount two rack panels to an additional Controller, ensuring all components are firmly fastened as illustrated in the diagram below.



Step 2: Securely fasten the provided screws between the two 1U V2 rack panels to mount both Controllers simultaneously within a single 1U V2 rack space, ensuring precise alignment and stable installation as illustrated in the figure below.

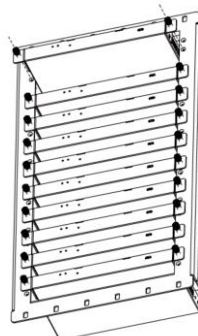


6U V2 Rack Mounting

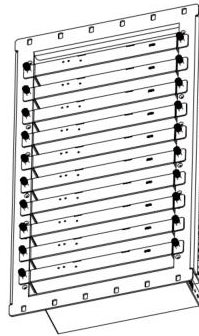
Step 1: Using the provided screws, securely attach the two included mounting ears to the Controller, ensuring all components are firmly fastened as illustrated in the diagram below.



Step 2: Insert the Controllers with pre-attached mounting ears vertically into the 6U V2 rack, selecting from three installation configurations (6/8/10 units) based on operational requirements, as illustrated in the figure below.



Step 3: Securely fasten the mounting ears to the rack using the provided screws to complete the installation, ensuring all components are firmly and safely mounted as illustrated in the figure below.



Operation Guide

Getting to start

The Controller's Web GUI allows centralized management and control of IPE-Series products connected to the network switch. Users can configure, monitor, and operate compatible devices directly through the intuitive web interface.

Step 1: When the system is not connected to a router, you can access the Controller's Web GUI by entering following default IP address or default URL directly into a web browser.

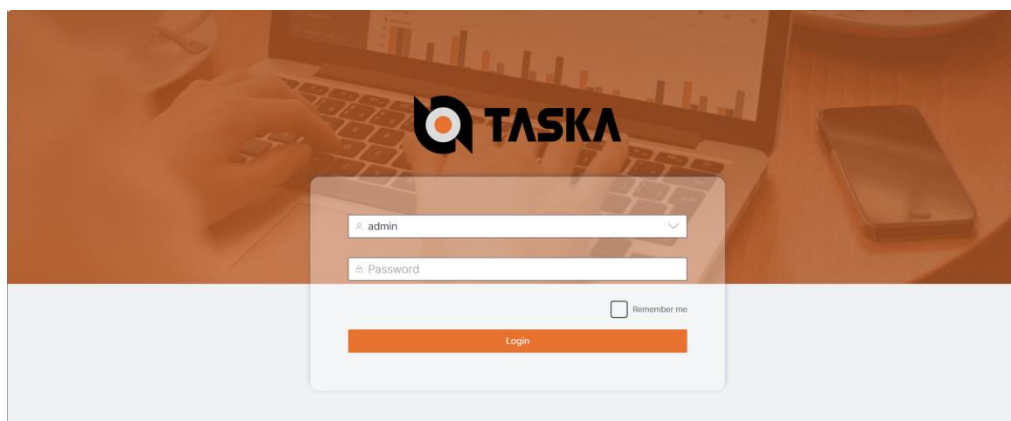
Control LAN port : 192.168.6.100

Video LAN port : 169.254.8.100

URL : http://controller.local

Steps to Access:

1. Connect your PC directly to the Controller's Control LAN or Video LAN port via an Ethernet cable.
2. Open a web browser (e.g., Chrome, Edge, or Firefox).
3. Enter one of the default addresses above into the address bar according to the connected LAN port and press "**Enter**".
4. The Web GUI login interface will load for authentication.

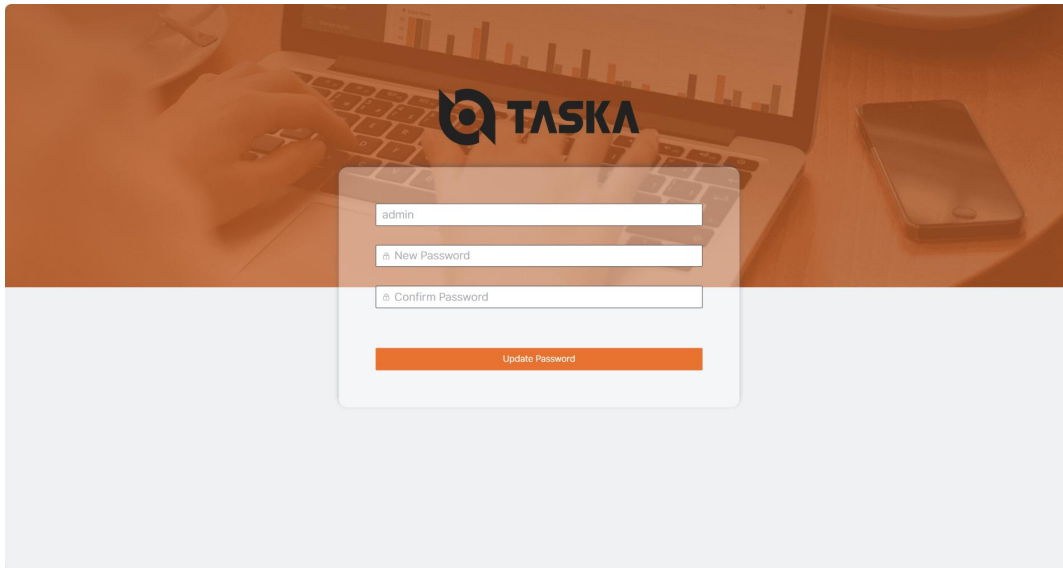


When logging in for the first time, user need to use default username and password on the login interface.

Username: admin

Password: admin

Click **"Login"** to proceed to the password modification screen, where you must set a new secure password.



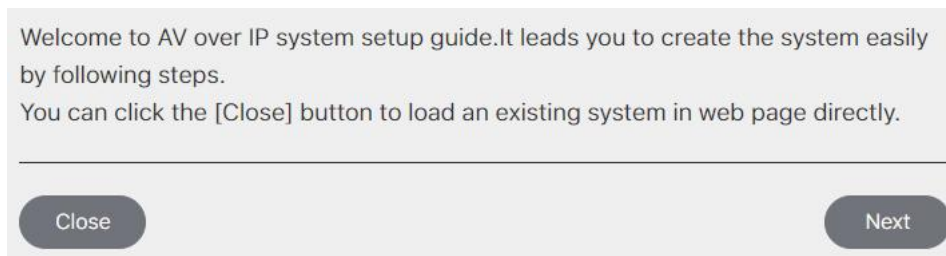
Password Requirements:

Length: 6-8 characters

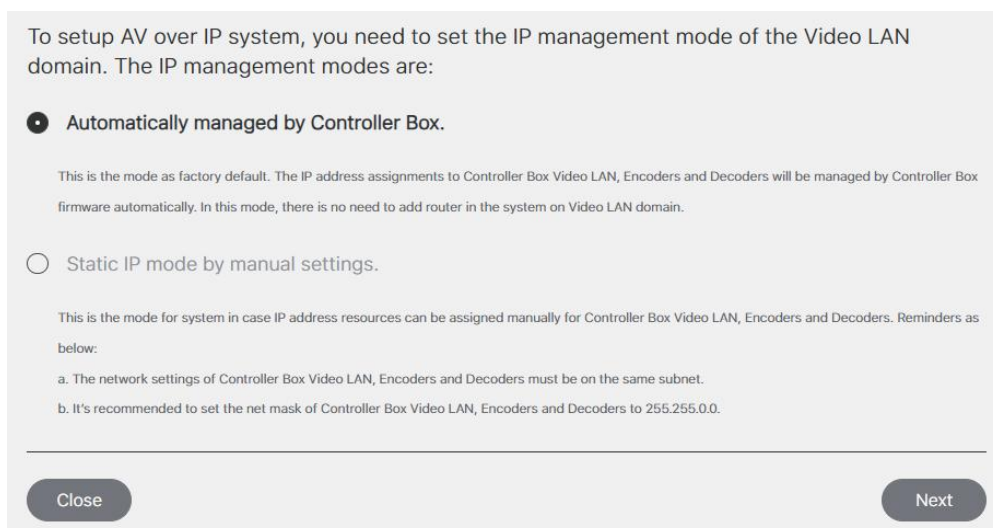
No special characters (e.g., @, #, \$)

Note: The new password will be required for all future logins.

For the first-time login, you must complete the initial system configuration to activate the Controller's full functionality. Follow the on-screen instructions to set up basic parameters, as shown in the figure below.



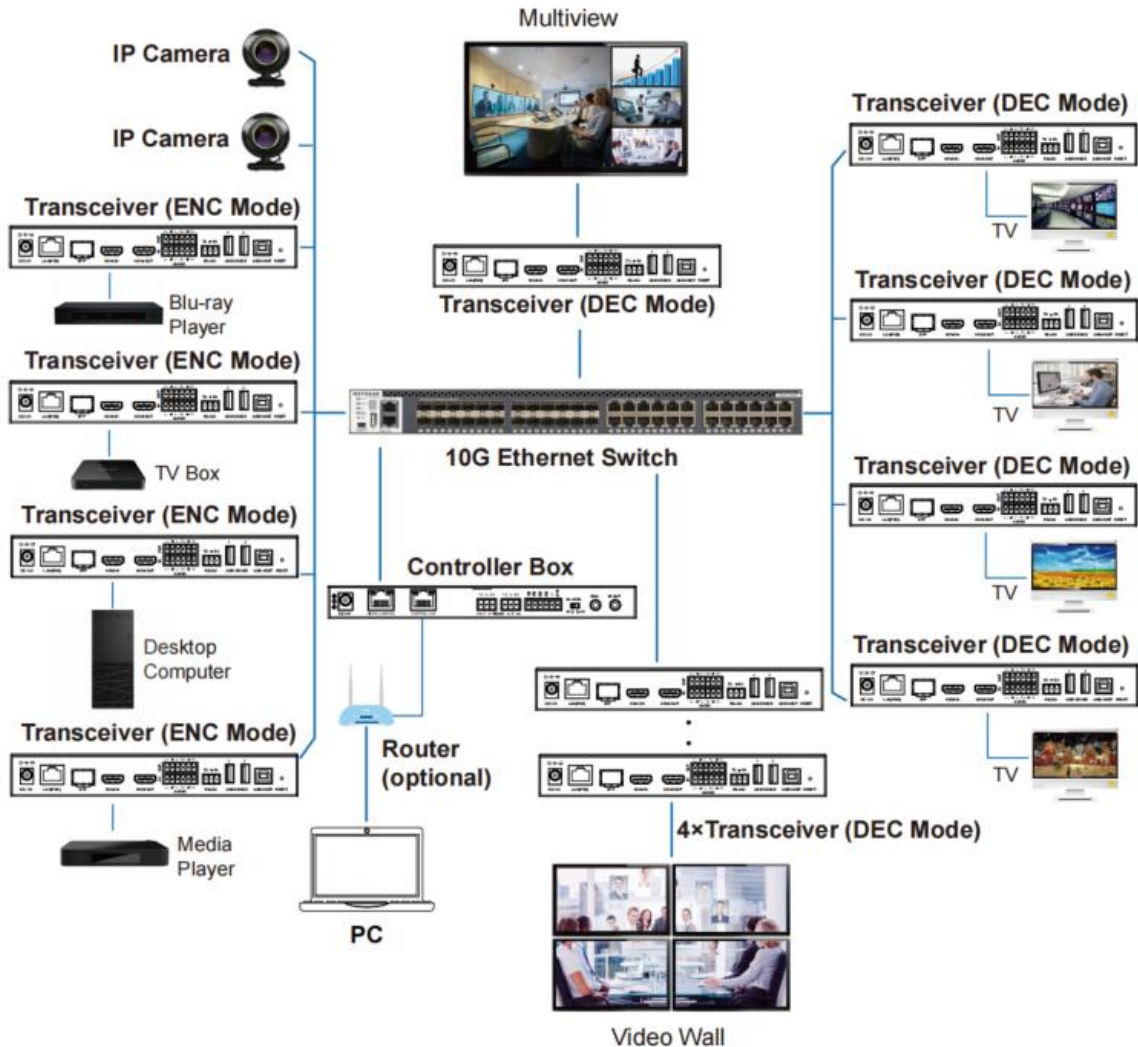
Step 2: Click the **"Close"** button to load an existing system in web page directly, or click **"Next"** button to go to the next step.



On this interface, set the IP mode for the Video LAN port to define how the Controller assigns and manages IP addresses for video transmission.

Mode 1 Automatic addition is recommended for large-scale deployments to save time.

Mode 2 Manual addition allows for selective integration of devices.



Mode 1: Automatically managed by Controller Box.

The Controller automatically assigns IP addresses to the Video LAN port, Encoder, and Decoder to ensure seamless communication within the system.

Click the **"Next"** button and wait for the system to complete the current operation. Upon completion, the interface will automatically transition to the screen displayed in the figure below.

Now you can select to automatically add all following discovered Encoders and Decoders to system or just list them in the web page and you can add each of them to system manually.

Please click the [Search] button to search Encoders and Decoders in the system:

- ☒ Automatically add Encoders and Decoders to system.
- ☐ List all discovered Encoders and Decoders.

Close

Next

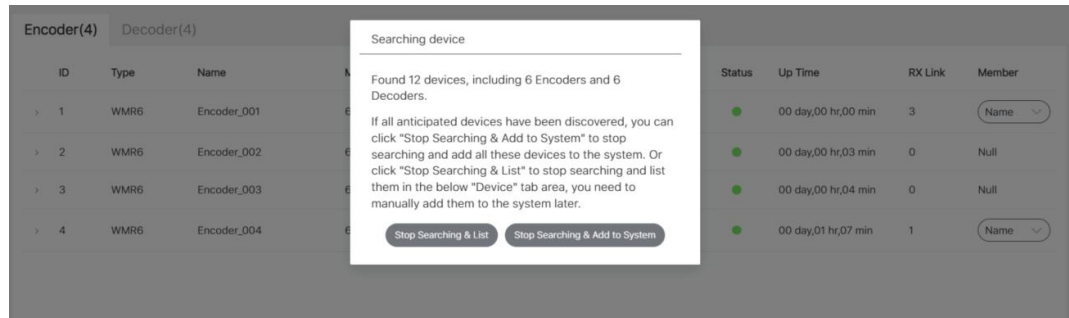
- If you select **"Automatically add Encoders and Decoders to system"** and click the **"Next"** button to proceed to the Device page, the system will initiate a search for available devices. Upon completion, a dialog box will appear. You may choose:

Stop Searching & List

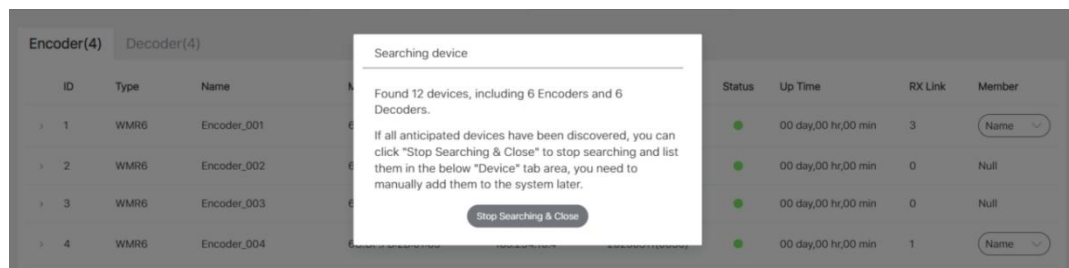
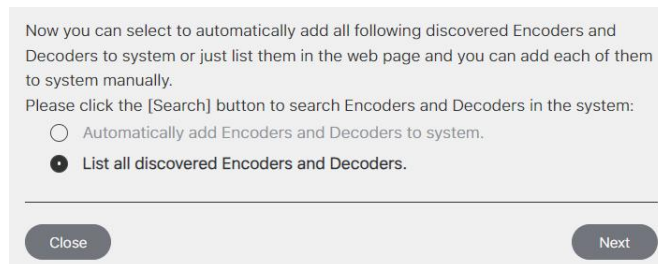
Stops the search and displays the discovered devices in the "Device" tab below for manual selection and addition to the system.

Stop Searching & Add to System

Terminates the search and automatically adds all discovered devices to the system (displayed in the Encoder/Decoder list).



- If you select **"List all discovered Encoders and Decoders"** and click the **"Next"** button to enter the Device page, the system will begin searching for available devices. Once the search is complete, a dialog box will appear. You may then choose:



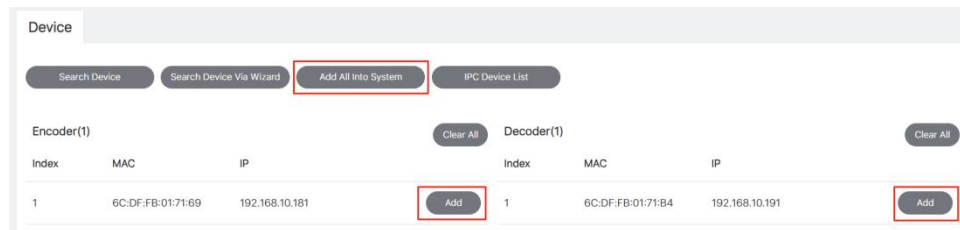
You can select **"Stop Searching & Close"** to terminate the device discovery process. All detected devices will be listed in the **"Device"** tab area. To add them to the system:

Add Individual Devices:

Click the **"Add"** button next to each device to incorporate them into the system one by one.

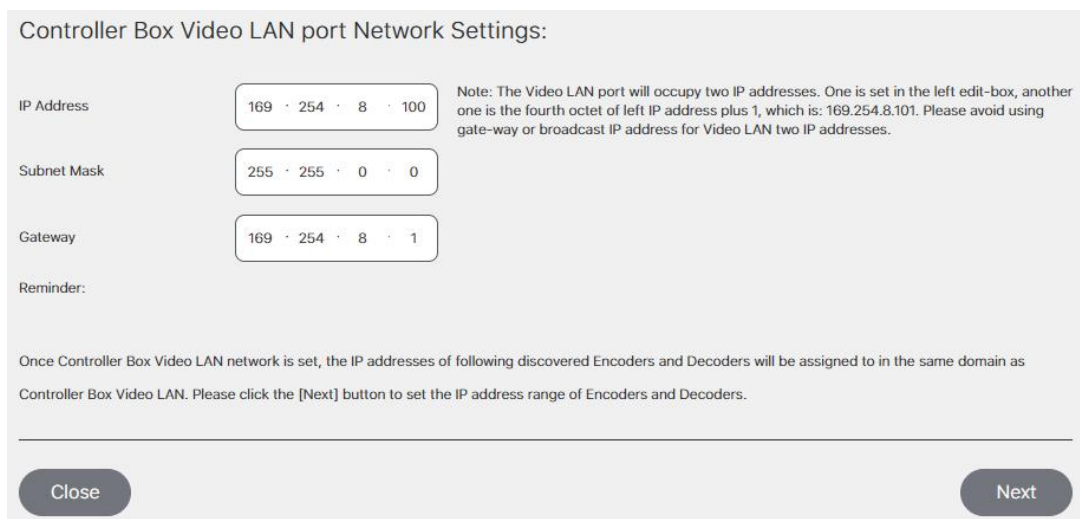
Add All Devices:

Click **"Add All Into System"** to include all listed devices simultaneously.

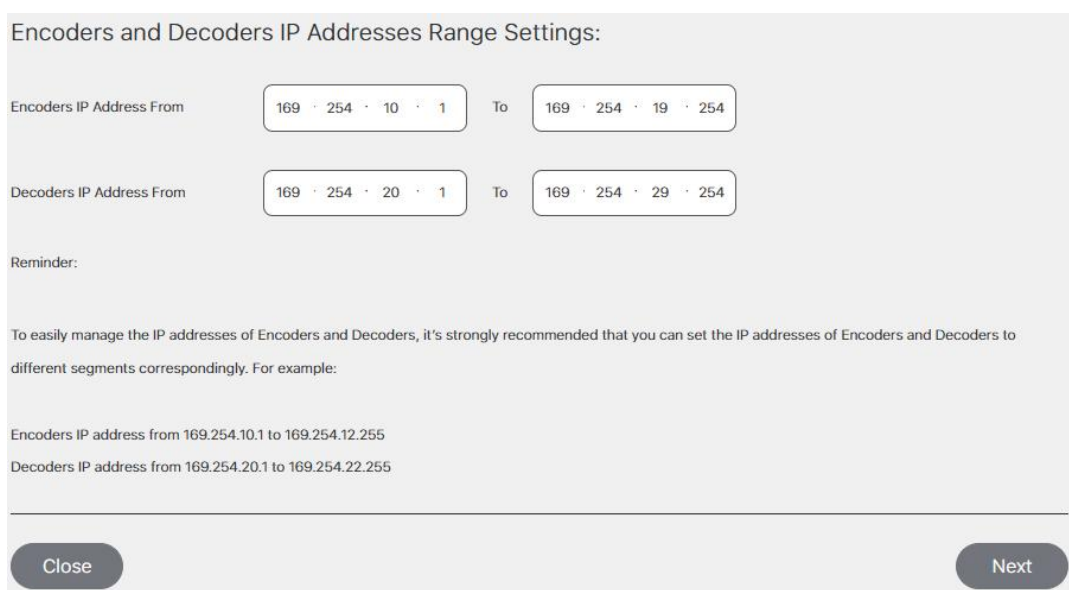


Mode 2: Static IP mode by manual setting.

Upon entering the interface displayed in the figure below, manually configure the IP address, subnet mask, and gateway for the Video LAN port. Click the **"Next"** button to proceed.



Once the progress indicator reaches **100%**, the system will automatically transition to the interface displayed in the figure below.



On this interface, you can define the IP address range for Encoders and Decoders within the system. After completing the configuration, click the **"Next"** button to proceed to the interface displayed in the figure below.

Now you can select to automatically add all following discovered Encoders and Decoders to system or just list them in the web page and you can add each of them to system manually.

Please click the [Search] button to search Encoders and Decoders in the system:

☒ Automatically add Encoders and Decoders to system.

☐ List all discovered Encoders and Decoders.

Close Next

The remaining steps for this configuration mode are identical to those in **Mode 1**.

To modify the IP mode of the Video LAN, click **"Search Device Via Wizard"** on the Device interface. This action will return you to the IP mode selection interface, where you can reconfigure the settings as needed.

Device

Search Device Search Device Via Wizard Add All Into System IPC Device List

Web pages

Device

On this page, you can comprehensively view detailed information of all encoders and decoders in the system by clicking the **Encoder/Decoder** tab. This information includes device ID, type (encoder or decoder), name, MAC address, IP address, firmware version, online status, up time, RX link status, and member or source associations.

TASKA Device										
Encoder(1)		Decoder(1)								
ID	Type	Name	MAC	IP	Firmware	Status	Up Time	RX Link	Member	
1	IPE-200U-TZ	Encoder_001	6C:DF:FB:01:71:69	192.168.10.181	20250704(0030)		00 day,02 hr,03 min	1	Name	

Clicking the drop-down icon to the left of the device ID, you can configure individual encoders or decoders in detail. The expanded menu provides the following options:

Encoder Configuration

Basic Settings

Name

The name of the Encoder can be changed (Note: The maximum length is 16 characters. Special characters are not supported).

Change ID

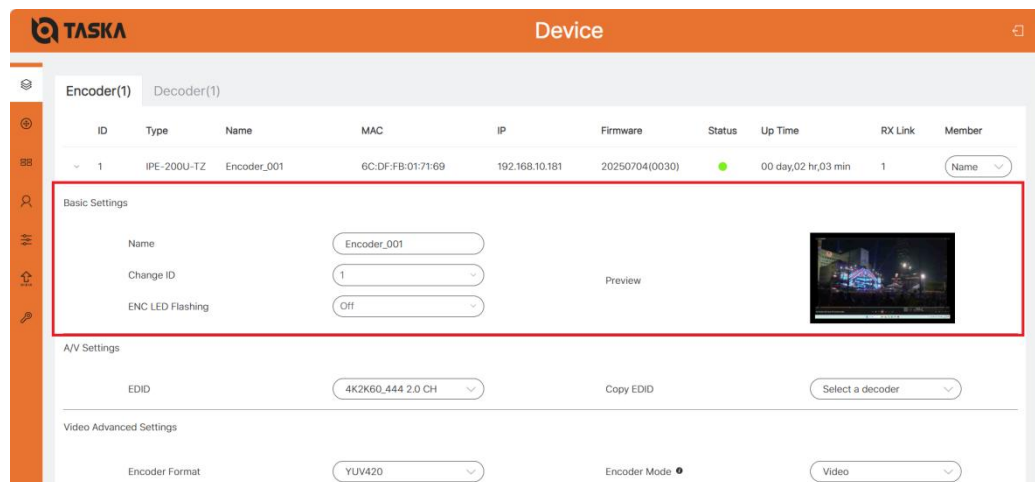
The ID of the Encoder can be set (ID range: 1-762). Note: Both ID and name cannot be duplicated.

ENC LED

The "Show me" function of the Encoder, used to quickly find the corresponding device. Click the drop-down menu to select On/Off to turn on/off the ENC LED on the front panel of the Encoder.

Preview

The preview of the Encoder.



The screenshot shows the TASKA Device management interface. The 'Encoder(1)' tab is selected. A table lists the device details. Below the table, the 'Basic Settings' section is highlighted with a red box. It contains three fields: 'Name' (Encoder_001), 'Change ID' (1), and 'ENC LED Flashing' (Off). To the right of these fields is a 'Preview' window showing a night scene. Below the 'Basic Settings' section are the 'A/V Settings' and 'Video Advanced Settings' sections.

ID	Type	Name	MAC	IP	Firmware	Status	Up Time	RX Link	Member
1	IPE-200U-TZ	Encoder_001	6C:DF:FB:01:71:69	192.168.10.181	20250704(0030)	●	00 day,02 hr,03 min	1	Name

Basic Settings

Name: Encoder_001

Change ID: 1

ENC LED Flashing: Off

Preview

A/V Settings

EDID: 4K2K60_444 2.0 CH

Copy EDID: Select a decoder

Video Advanced Settings

Encoder Format: YUV420

Encoder Mode: Video

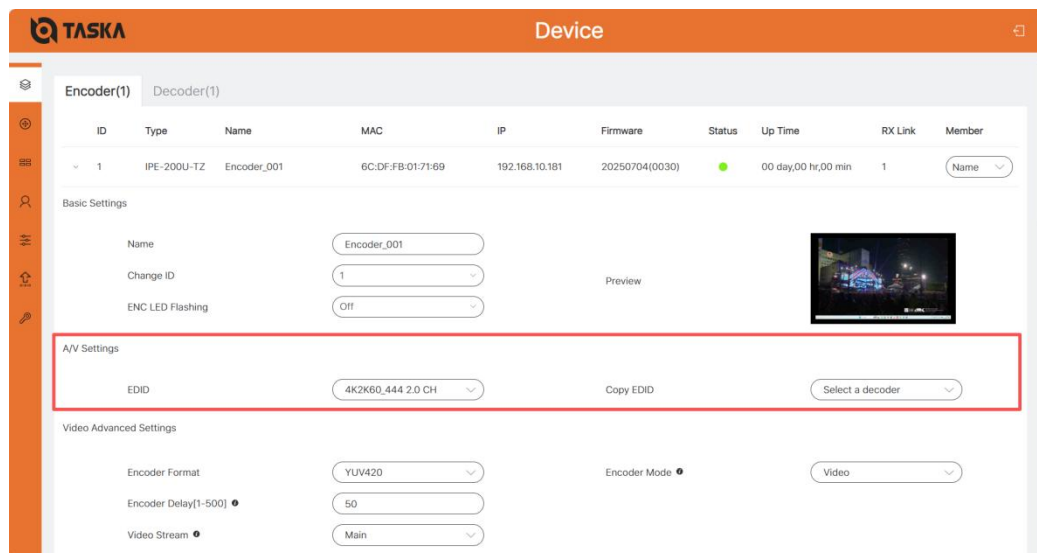
A/V Settings

EDID

Click the drop-down menu to select the EDID mode for the Encoder.

Copy EDID

Click the drop-down menu to select a target decoder for EDID copy.



The screenshot shows the TASKA Device management interface. The 'Encoder(1)' tab is selected. A table lists the device details. Below the table, the 'Basic Settings' section is visible. The 'A/V Settings' section is highlighted with a red box. It contains two fields: 'EDID' (4K2K60_444 2.0 CH) and 'Copy EDID' (Select a decoder). Below the 'A/V Settings' section are the 'Video Advanced Settings' and 'Encoder Mode' sections.

ID	Type	Name	MAC	IP	Firmware	Status	Up Time	RX Link	Member
1	IPE-200U-TZ	Encoder_001	6C:DF:FB:01:71:69	192.168.10.181	20250704(0030)	●	00 day,00 hr,00 min	1	Name

Basic Settings

Name: Encoder_001

Change ID: 1

ENC LED Flashing: Off

Preview

A/V Settings

EDID: 4K2K60_444 2.0 CH

Copy EDID: Select a decoder

Video Advanced Settings

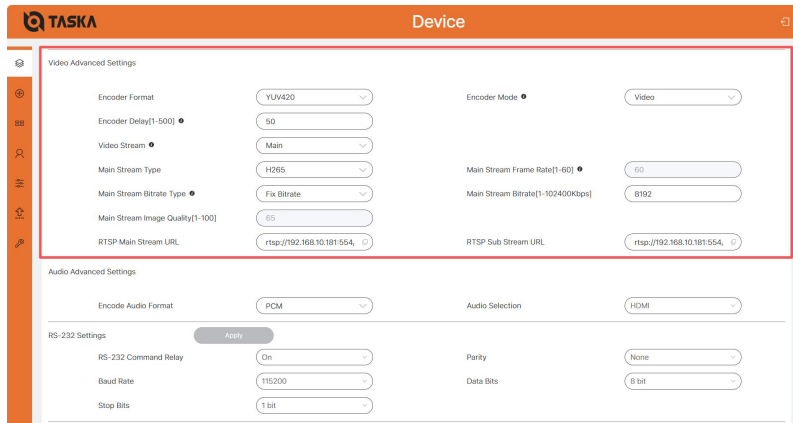
Encoder Format: YUV420

Encoder Delay(1-500): 50

Video Stream: Main

Encoder Mode: Video

Video Advanced Settings



Encoder Format

Video Format of the Encoder.

Encoder Mode

Click the drop-down menu to select the Encoder mode (Video/Text). This option relates to the transmission delay (latency).

Video Mode

The delay time is determined by the "Encoder Delay" setting, suitable for general video transmission scenarios.

Text Mode

Optimized for KVM use. The encoder automatically detects and analyzes signal content to calculate the minimum delay internally.

Note: The "Encoder Delay" setting is ignored in this mode.

Encoder Delay

Input a value between **0-500** to set the Encoder delay. This option configures the transmission delay time threshold.

The default setting is **50 milliseconds**, optimized to achieve the lowest possible latency.

Note: Adjust this setting along with the **"Main Stream Image Quality"** option to optimize video fluency if needed.

Video Stream

Click the drop-down menu to select the video stream.

Main

The Main Stream is used to display high-quality video on TVs or video walls.

Sub

The Sub Stream displays video on a TV or video wall, typically for window sizes equal to or smaller than 1080p.

KVM Preview

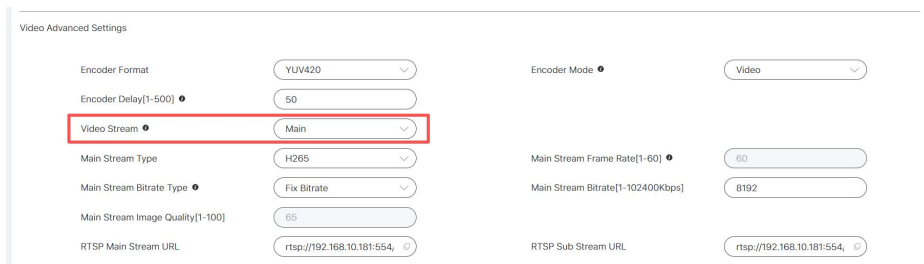
The Preview stream is used to display for KVM client.

RTSP Main

The standard RTSP main stream can be accessed by third-party applications (e.g., VLC). It supports up to **1080p30Hz**.

RTSP Sub

The standard RTSP main stream can be accessed by third-party applications (e.g., VLC). It supports up to **720p30Hz**.



After selection, the following 5 parameters can be configured independently:

Stream Type

Click the drop-down menu to select the video encoding format (**H.264** or **H.265**) for the stream.

Stream Frame Rate

The main stream frame rate automatically matches the frame rate of the input signal source.

Notes:

- ① When "Main" is selected for Video Stream, the main stream frame rate will always follow the input source frame rate and cannot be changed manually.
- ② For video streams other than the main stream (e.g., sub-stream or KVM preview stream), the default frame rate is **30Hz**. The frame rate can be adjusted within the range of **1 to 60Hz**, but the actual output frame rate will never exceed the source frame rate.

Stream Bitrate type

Click the drop-down menu to select the stream bitrate type (Fixed Bitrate/Variable Bitrate). Variable Bitrate is set by default.

Stream Bitrate

Fix Bitrate

When selected, set the bitrate threshold (in kbps) for the corresponding stream in the "Bitrate" field. The "Image Quality" option is disabled, and video quality will be directly controlled by the fixed bitrate.

Variable Bitrate

When selected, the "Bitrate" field is disabled. Use the "Image Quality" setting (High/Medium/Low) to indirectly control video quality and transmission bitrate. The "Bitrate" option is disabled. The system will dynamically adjust the actual bitrate based on scene complexity.

Stream Image Quality

Input a value between [1-100] to set the main stream image quality (65 by default).

RTSP Main Stream URL

Set the URL for the Main RTSP Stream using the following format:

rtsp://[encoder IP]:554/main

(Replace the IP address with the encoder's actual IP address.)

RTSP Sub Stream URL

Set the URL for the Main RTSP Stream using the following format:

rtsp://[encoder IP]:554/sub

(Replace the IP address with the encoder's actual IP address.)

Audio Advanced Settings

Encode Audio Format

Click the drop-down menu to select the audio encoding format (**PCM** or **AAC**).

Audio Selection

Click the drop-down menu to select the audio source (**HDMI** or **Analog**).

HDMI: When selected, the Encoder's HDMI input will be the audio source for the Decoder's audio output.

Analog: When selected, the Encoder's analog audio input will be the audio source for the Decoder's audio output.



RS-232 Settings

RS-232 Command Relay

Click the drop-down menu to select **On/Off** to enable or disable the RS-232 command relay function.

Parity

Click the drop-down menu to set the parity (**None/Odd/Even**).

Baud Rate

Click the drop-down menu to set the baud rate (**9600/19200/38400/57600/115200**).

Data Bits

Click the drop-down menu to set the data bits (**5 bit/6 bit/7 bit/8 bit**).

Stop Bits

Click the drop-down menu to set the stop bits (**1 bit/2 bit**).

After setting, click **"Apply"** to take effect.



Info OSD Settings



Enable

Select "On" or "Off" to enable or disable the Info OSD display. If "On" is selected, the Info OSD (the content can be customized by the user) will by default display in the top left corner of all signal channels that capture this Encoder. The position and color of the Encoder Info OSD can be modified. The Info OSD will be overlaid on top of the video stream without affecting the original video content.

Content

Input the content for OSD display in the text field.

Size

Click the drop-down menu to select the OSD size (Small/Middle/Large).

Position X

Click the drop-down menu to select the horizontal position (Left/Middle/Right) of the OSD.

Position Y

Click the drop-down menu to select the vertical position (Top/Middle/Bottom) of the OSD.

BG Color

Click to set the background color of the OSD.

FG Color

Click to set the foreground (text) color of the OSD.

Transparency

Click the drop-down menu to select the transparency type (Transparency/Opaque) of the OSD.



Other Settings

KVM OS Select

Click the drop-down menu to select the KVM operating system (Linux/Windows/Mac OS). The default option is **Windows**, meaning the KVM function is optimized for Windows OS. If the KVM-connected device uses **Linux** or **Mac OS**, select the corresponding option.

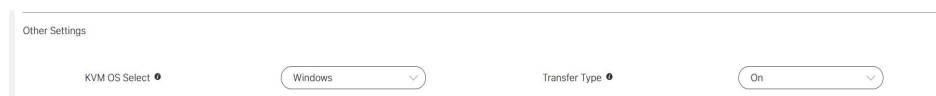
To use the touch screen function, set "**Touch**" to **On**. This feature is only supported in **Windows**.

Note: This setting requires a device reboot to take effect. Do not change it unless necessary. Incorrect settings may cause keyboard/mouse malfunctions or limited functionality.

Transfer Type

Select **On/Off** to enable/disable the stream transfer mode. This setting requires a device reboot to take effect. Do not change it unless absolutely necessary.

Caution: This item must be set to **On** by default for normal operation. The **Off** option is for debugging only: If video fluency is poor when multiple windows/layers are created for a TV or video wall, set this to Off to check if the symptom disappears or improves, indicating whether the stream bitrate is too high. After debugging, be sure to restore the setting to **On** to avoid system performance issues.



Network Settings

IP Mode

Click the drop-down menu to set the IP mode (Static/DHCP).

IP Address

The IP address of the Encoder.

Subnet Mask

The Subnet Mask of the Encoder.

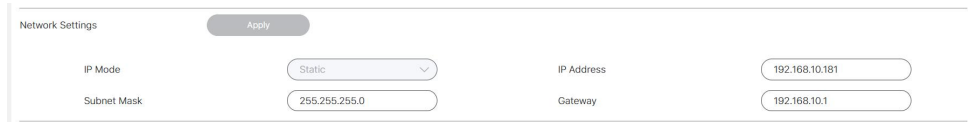
Gateway

The Gateway of the Encoder.

Notes:

- ① If the IP mode is set to "Static", you can manually set the IP Address, Subnet Mask, and Gateway as required. Then click "Apply" to take effect.

- ② If the IP mode is set to "DHCP", it will automatically search and be filled with the IP Address assigned by the router.
- ③ If the Encoder is actually online but appears offline due to incorrect network segment settings, its network settings (including IP address) can still be modified to make it discoverable again.



Network Settings

Apply

IP Mode: Static

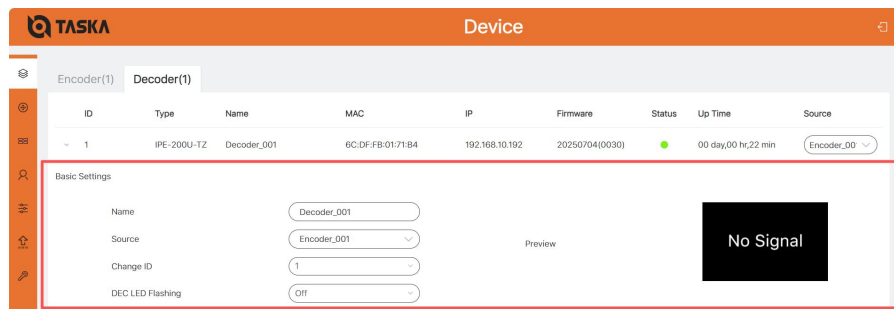
Subnet Mask: 255.255.255.0

IP Address: 192.168.10.181

Gateway: 192.168.10.1

Decoder Configuration

Basic Settings



Device

Encoder(1) Decoder(1)

ID	Type	Name	MAC	IP	Firmware	Status	Up Time	Source
1	IPE-200U-TZ	Decoder_001	6C:DF:FB:01:71:84	192.168.10.192	20250704(0030)	Online	00 day,00 hr,22 min	Encoder_001

Basic Settings

Name: Decoder_001

Source: Encoder_001

Change ID: 1

DEC LED Flashing: Off

Preview: No Signal

Name

The name of the Decoder can be changed (Note: The maximum length is 16 characters. Special characters are not supported).

Source

Click the drop-down menu to select the signal source for the Decoder.

Change ID

The ID of the Decoder can be set (ID range: 1-762). Note: Both ID and name cannot be duplicated.

DEC LED Flashing

The "Show me" function of the Decoder, used to quickly find the corresponding device. Click the drop-down menu to select On/Off to turn on/off the DEC LED on the front panel of the Decoder.

Preview

The preview of the Decoder.

A/V Settings

Scaling

Click the drop-down menu to select the video output resolution

Output Mode

Display the current video output mode (Matrix/Video Wall).

Show ID OSD

Select On/off to enable/disable the ID OSD display. If "On" is selected, the ID OSD (with Decoder's IP address and name) will display in the upper left corner of the TV connected to the Decoder. The position, color and content cannot be modified, and the Decoder ID OSD will be overlaid on top of the video stream, as shown in the figure below.

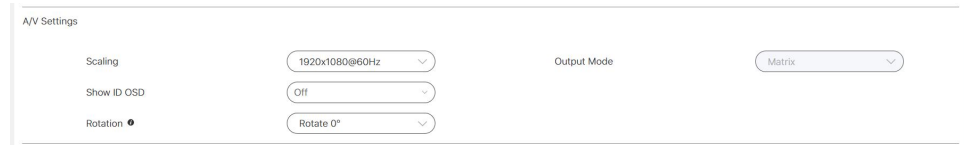
Rotation

The "Rotation" setting is only supported when "Scaling" is configured to a resolution of **3840x2160@30Hz**, **4096x2160@30Hz**, or **lower**.

"Rotation Mode" is only supported when the video wall is configured with a resolution of **3840x2160@30Hz**, **4096x2160@30Hz**, **1080p@60Hz**, or **lower**.

If rotation is required for a video wall, and the setup involves a **50Hz or 60Hz source** paired with a video wall resolution

of **4K24Hz** or **4K25Hz**, video stuttering may occur.



A/V Settings

Scaling	1920x1080@60Hz	Output Mode	Matrix
Show ID OSD	Off		
Rotation	Rotate 0°		

Video Advanced Settings

Decoder Delay

Input a value between **[0-500]** to set the Decoder delay (default is **0**). This option sets the data buffering time in milliseconds before data is transferred to the display, primarily for LED array display walls. It adjusts the video line scanning mode, and the value is typically set as a multiple of the frame period relative to the decoder's HDMI output frame rate. Normally, this setting does not require adjustment.



Video Advanced Settings

Decoder Delay[0-500] 0

Audio Advanced Settings

Audio Output Type

Click the drop-down menu to select the audio signal output type (**HDMI + Analog** or **DVI + Analog**).

Audio Volume

Input a value between **[0-100]** to set the audio volume.



Audio Advanced Settings

Audio Output Type	HDMI + Analog	Audio Volume[0-100]	96
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Locked Signal Routing

When a new RS-232 data connection is set for an encoder, the prior RS-232 connection to this encoder will be automatically turned off.



Locked Signal Routing

RS-232 Off

RS-232 Settings

RS-232 Command Relay

Click the drop-down menu to select **On/Off** to enable or disable the RS-232 command relay function.

Parity

Click the drop-down menu to set the parity (**None/Odd/Even**).

Baud Rate

Click the drop-down menu to set the baud rate (**9600/19200/38400/57600/115200**).

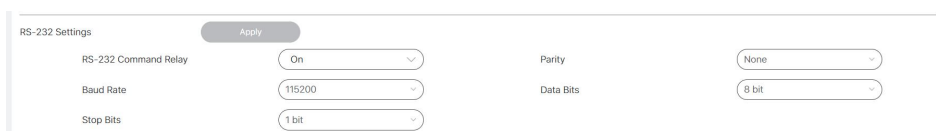
Data Bits

Click the drop-down menu to set the data bits (**5 bit/6 bit/7 bit/8 bit**).

Stop Bits

Click the drop-down menu to set the stop bits (**1 bit/2 bit**).

After setting, click **"Apply"** to take effect.

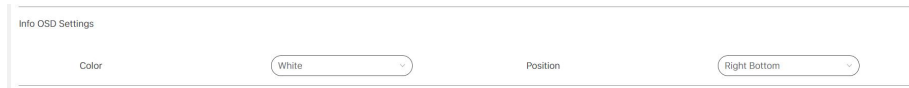


RS-232 Settings

Apply

RS-232 Command Relay	On	Parity	None
Baud Rate	115200	Data Bits	8 bit
Stop Bits	1 bit		

Info OSD Settings



Color

Click to set the color (**White/Black**) of the OSD.

Position

Click the drop-down menu to select the position (**Left Top/Right Top/Left Bottom/Right Bottom**) of the OSD.

The Decoder's Info OSD (showing its IP address and name) is displayed by default in the bottom right corner of the TV connected to the Decoder, as shown in the figure below. While the position and color of this OSD can be modified, please note that it will be fully obscured by the video stream.



Other Settings

Decode Test Mode

Click the drop-down menu to set the decoder to output test pattern

(**Off/Gray/Color/Geo/Message/White/Red/Green**).

Decoder Sync Level

Click the drop-down menu to select the decoder sync level (Low/High).

Notes:

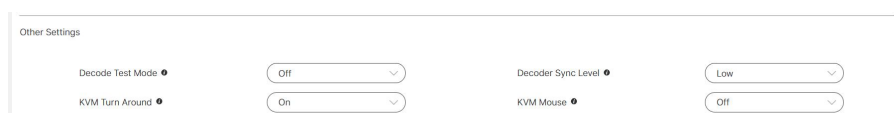
- ① It is designed for debugging system installations to improve video synchronization performance in specific cases (e.g., LED array display wall systems). Normally, there is no need to adjust this setting. Default setting is "Low".
- ② Only one device can be set to "High" at a time. When a new device is set to "High", the previously set "High" device will automatically revert to "Low".
- ③ This setting requires a **device reboot** to take effect. Do not change it unless absolutely necessary.

KVM Turn Around

Select **On/Off** to enable or disable the KVM Turn Around function. When enabled, you can open or close the KVM menu on the decoder client side by moving the mouse **clockwise/counterclockwise three times**.

KVM Mouse

Select **On/Off** to enable or disable the KVM virtual mouse cursor. In KVM mode, if you need to align the local PC system mouse cursor with the KVM virtual cursor, first switch the setting to "On" to display the KVM virtual cursor. After completing the alignment operation, promptly restore the setting to "Off" to hide the virtual cursor.



Network Settings

IP Mode

Click the drop-down menu to set the IP mode (Static/DHCP).

IP Address

The IP address of the Encoder.

Subnet Mask

The Subnet Mask of the Encoder.

Gateway

The Gateway of the Encoder.

Note:

- ① If the IP mode is set to "Static", you can manually set the IP Address, Subnet Mask, and Gateway as required. Then click "Apply" to take effect.
- ② If the IP mode is set to "DHCP", it will automatically search and be filled with the IP Address assigned by the router.
- ③ If the Decoder is actually online but appears offline due to incorrect network segment settings, its network settings (including IP address) can still be modified to make it discoverable again.



Reboot

Click the Reboot button to restart the Encoder/Decoder.

Replace

This is a reserved button for device replacement functionality.

Remove

Click the Remove button to delete the Encoder/Decoder from the system. After removal, the device will no longer be managed by the system, but its local configuration remains unchanged.

Remove All

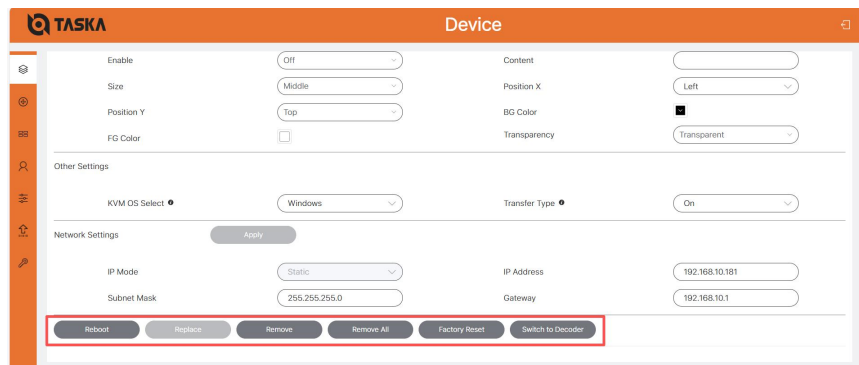
Click this button to remove all Encoders/Decoders from the system. This operation is suitable for large-scale system restructuring or collective device replacement scenarios and should be used with caution.

Facotry Reset

Click this button to restore the Encoder/Decoder to factory settings.

Switch to Decoder/Encoder

Click this button to switch the current Encoder to Decoder mode, or Decoder to Encoder Mode.



A confirmation window will pop up, indicating that the mode switch will alter current functionalities and require reconfiguration of the device role.

Switch Encoder_001 to Decoder

Are you sure you want to switch Encoder_001 to a Decoder. By doing so Encoder_001 will be removed from the current project and you will need to "Search Device" to add it to the project again.

No Yes

Switch Decoder_002 to Encoder

Are you sure you want to switch Decoder_002 to a Encoder. By doing so Decoder_002 will be removed from the current system and you will need to "Search Device" to add it to the system again.

No Yes

Once "Yes" is selected, the Encoder/Decoder will be removed from the current system. After removal, you will need to use the "Scan" function to add it to the system again.

Device

Device

Search Device

Search Device Via Wizard

Add All Into System

IPC Device List

Search Device

Click this button to search for devices not currently in the system. The system will automatically scan the network for encoders and decoders, then display a list of devices available for addition.

Search Device Via Wizard

Click this button to return to the IP mode selection interface and follow the step-by-step wizard to complete system setup. This function is suitable for initial deployment or device rediscovery after network configuration changes.

Add All Into System

Click this button to add all searched devices to the system at once. After successful addition, the devices will appear in the Encoder/Decoder list

IPC Device List

Click the **IPC Device List** button to open the dialog box for managing IP camera devices. This dialog provides a centralized interface to **Add** IP Camera, **Export** current IP Cameras configuration List, and **Import** IP Cameras configuration List from file.

IPC Device List

+

Export

Import

Name	IP Address	Main Stream URL	Main Stream Port	Sub Stream URL	Sub Stream Port	Operations
No Data						

Apply List

Add “+”

Step 1: Click the + button to open the Add IPC dialog box, where you can manually enter the details of an IP camera to add it to the system.

Add IPC

Name

Note: Set a Name for the IPC device.

Authentication Required
Yes

User Name

User Password

Note: Refer to IPC user manual to fill these items.

IP Address

Main Stream URL

Main Stream Port

Sub Stream URL

Sub Stream Port

Note: Refer to IPC user manual to fill these items. IPC IP Address should be in same network segment.

Clear All Settings
Add To List

Step 2: After filling in the connection information for the IPC device, click the **"Add To List"** button to import the device into the system. Repeat this process to add more IPC devices one by one. The imported devices will be listed in the IPC Device List dialog box as shown in the figure below.

IPC Device List

Name	IP Address	Main Stream URL	Main Stream Port	Sub Stream URL	Sub Stream Port	Operations
Test	169.254.3.1	rtsp://169.254.3.1/main	554	rtsp://169.254.3.1/sub	554	Edit Remove
Test2	169.254.3.2	rtsp://169.254.3.2/main	554	rtsp://169.254.3.2/sub	554	Edit Remove
Test3	169.254.3.3	rtsp://169.254.3.3/main	554	rtsp://169.254.3.3/sub	554	Edit Remove
Test4	169.254.3.4	rtsp://169.254.3.4/main	554	rtsp://169.254.3.4/sub	554	Edit Remove

+
Export
Import

Apply List

Step 3: Click the **Apply List** button to apply the new IPC device list to the system.

IPC Device List

Name	IP Address	Main Stream URL	Main Stream Port	Sub Stream URL	Sub Stream Port	Operations
IPC-1	169.254.30.1	http://169.254.30.1/main	5004	http://169.254.30.1/sub	5004	Edit Remove
IPC-3	169.254.30.3	http://169.254.30.3/main	5004	http://169.254.30.3/sub	5004	Edit Remove

+
Export
Import

Apply List

Export

Click the **Export** button in the IPC Device List dialog box to export the list of IPC devices in the system to the local PC as a TXT file. The export file must include the following data fields in order: data length (number of IPC devices), device name, IP address, authentication information (username and password), main stream URL and port, and sub stream URL and port, as shown in the figure below.

```
Data Length: 3

name: IPC1
ip: 169.254.3.10
authReq: yes
username: admin
userpassword: admin
mainStreamUrl: rtsp://169.254.3.10/live/main/av_stream
mainStreamPort: 554
subStreamUrl: rtsp://169.254.3.10/live/sub/av_stream
subStreamPort: 554

name: IPC1
ip: 169.254.3.11
authReq: yes
username: admin
userpassword: admin
mainStreamUrl: rtsp://169.254.3.11/live/main/av_stream
mainStreamPort: 554
subStreamUrl: rtsp://169.254.3.11/live/sub/av_stream
subStreamPort: 554

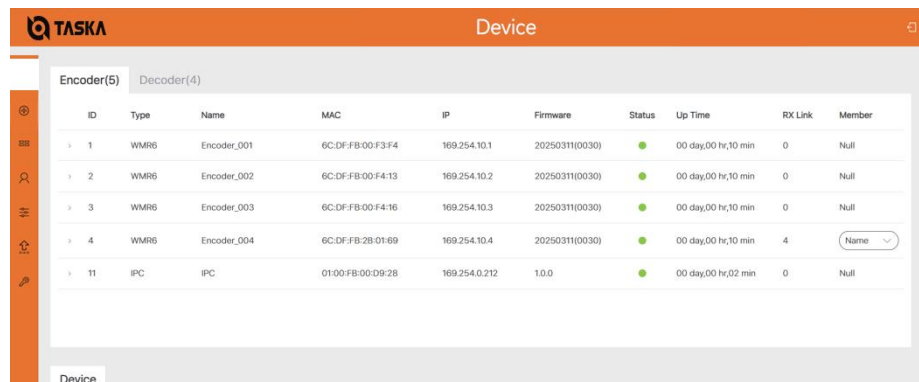
name: IPC1
ip: 169.254.3.12
authReq: yes
username: admin
userpassword: admin
mainStreamUrl: rtsp://169.254.3.12/live/main/av_stream
mainStreamPort: 554
subStreamUrl: rtsp://169.254.3.12/live/sub/av_stream
subStreamPort: 554
```

Import

You also can click the **Import** button to import multiple IPC devices via a TXT file (similar to the export file format).

Edit

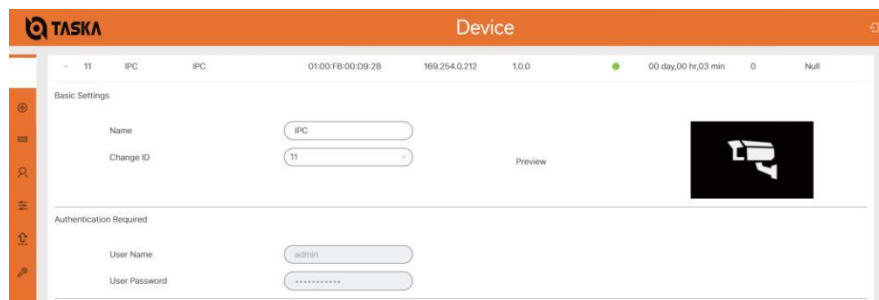
Click the **Edit** button to modify the information of an IPC device, or click the **Remove** button to delete the device as needed. After configuring the devices, click **Apply List** to add the imported devices to the system. The devices will then appear in the Encoder list, as shown in the figure below.



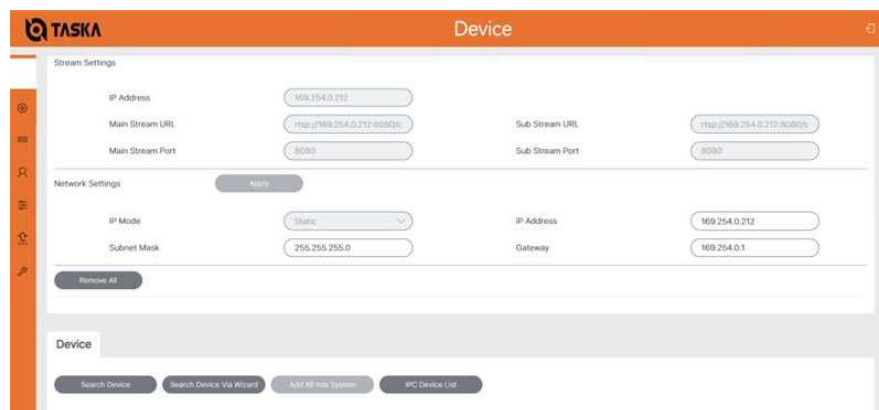
ID	Type	Name	MAC	IP	Firmware	Status	Up Time	RX Link	Member
1	WMR6	Encoder_001	6C:DF:FB:00:F3:F4	169.254.10.1	20250311(0030)	●	00 day,00 hr,10 min	0	Null
2	WMR6	Encoder_002	6C:DF:FB:00:F4:13	169.254.10.2	20250311(0030)	●	00 day,00 hr,10 min	0	Null
3	WMR6	Encoder_003	6C:DF:FB:00:F4:16	169.254.10.3	20250311(0030)	●	00 day,00 hr,10 min	0	Null
4	WMR6	Encoder_004	6C:DF:FB:28:01:69	169.254.10.4	20250311(0030)	●	00 day,00 hr,10 min	4	Name
11	IPC	IPC	01:00:FB:00:D9:28	169.254.0.212	1.0.0	●	00 day,00 hr,02 min	0	Null

On this page, you can view detailed information about IPC devices, including ID, Type, Name, MAC address, IP address, Online/Offline Status, Up Time, RX Link, and Member. Additionally, by clicking the drop-down icon to the left of the ID, you

can access further details about each device, as shown in the figures below.



Clicking "Remove All" will remove all IPC devices from the system and reboot the controller.



This operation is irreversible. Please proceed with caution.

Remove all IPC, sure to continue?

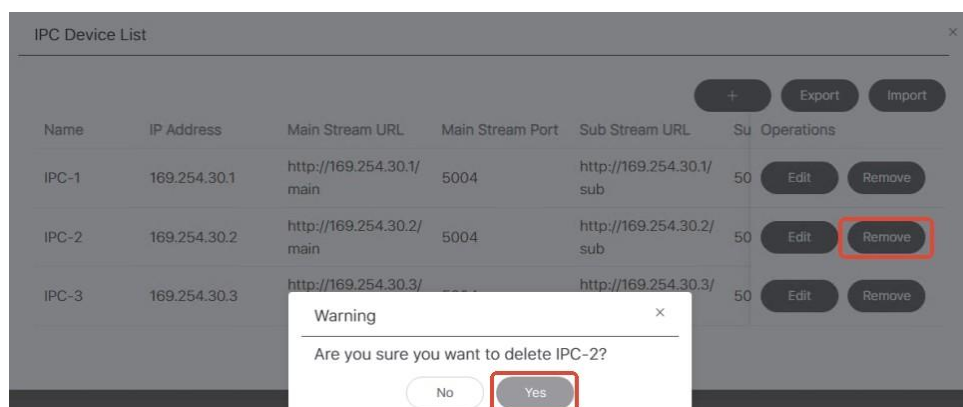
It takes about one minute to remove all IPC devices, remove all IPC devices will reboot the controller. Are you sure you want to continue?

No

Yes

Remove

To remove an IPC device, first click the **IPC Device List** button to open the dialog box. Then, click the **Remove** button next to the device you wish to remove. A confirmation message will appear—click **Yes** to confirm the removal.



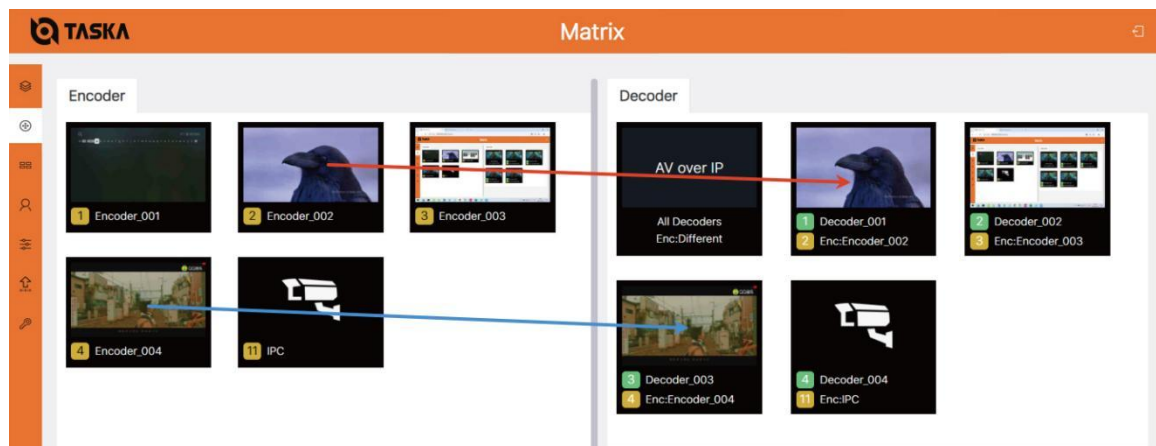
Name	IP Address	Main Stream URL	Main Stream Port	Sub Stream URL	Operations
IPC-1	169.254.30.1	http://169.254.30.1/main	5004	http://169.254.30.1/sub	Edit Remove
IPC-2	169.254.30.2	http://169.254.30.2/main	5004	http://169.254.30.2/sub	Edit Remove
IPC-3	169.254.30.3	http://169.254.30.3/main	5004	http://169.254.30.3/sub	Edit Remove

Matrix

Matrix Switching Function

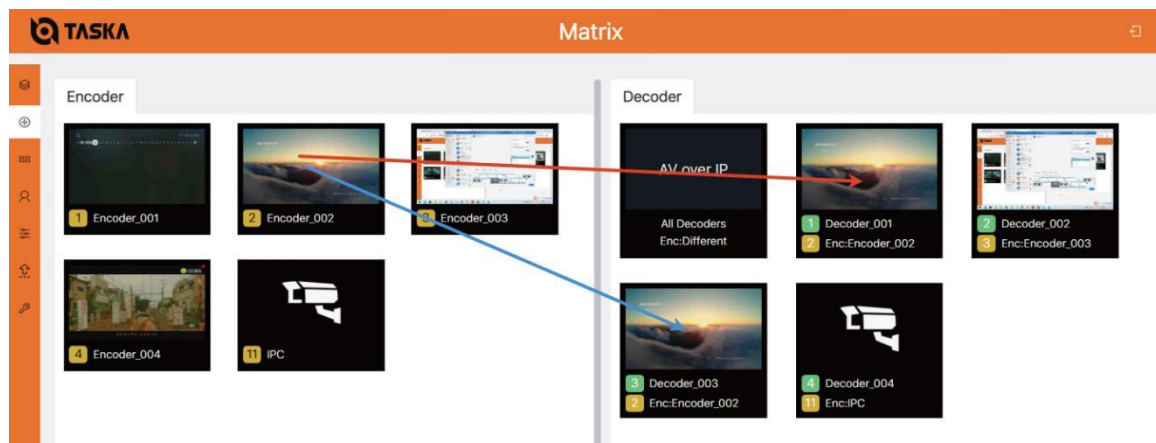
One-to-One signal switching

Left-click the preview image of the Encoder/IPC device, drag it to the Decoder window, and release the mouse button. This action will immediately route the selected source to the target decoder.



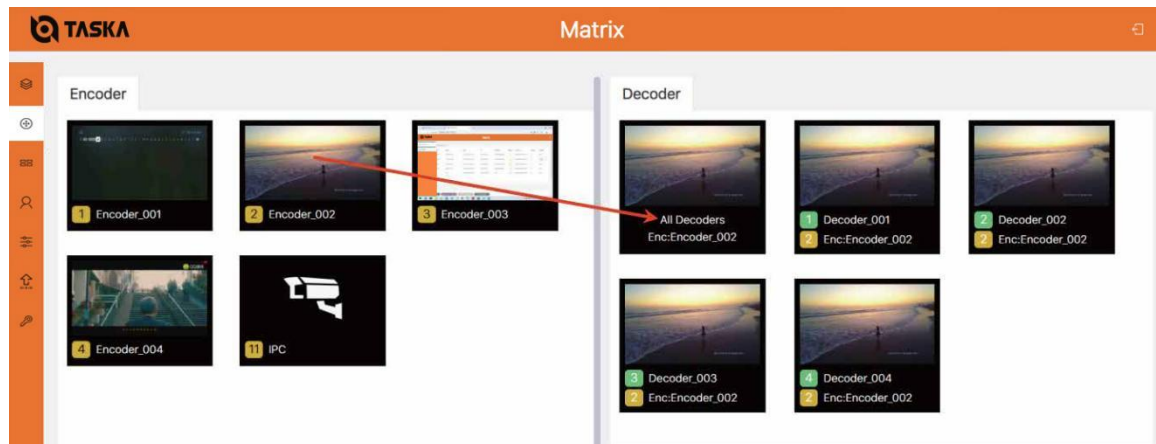
One-to-Many signal Switching

Left-click the preview image of the Encoder/IPC device, drag it to multiple Decoder windows, and release the mouse button. This action will immediately route the selected source to all selected decoders simultaneously.



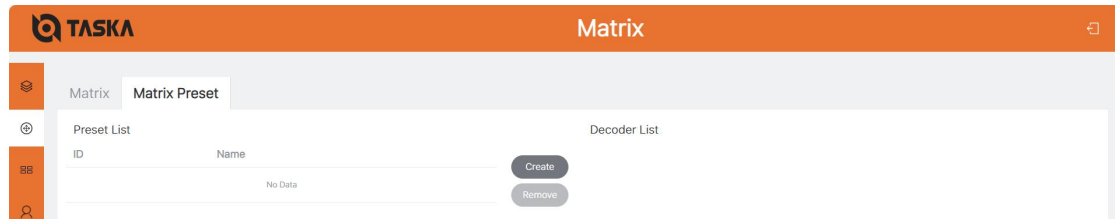
One-to-All signal Switching

Left-click the preview image of the Encoder/IPC device, drag it to the "All Decoders" window, and release the mouse button to broadcast the same source to every connected Decoder simultaneously.



Matrix Preset

On the Matrix Preset interface, you can create and configure matrix preset as required.



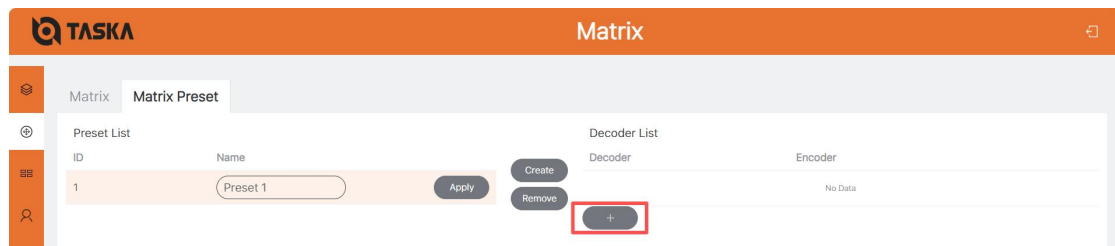
The screenshot shows the 'Matrix Preset' interface. On the left, there's a sidebar with icons for 'Matrix' and 'Matrix Preset'. The main area is divided into two sections: 'Preset List' and 'Decoder List'. The 'Preset List' section has a table with columns 'ID' and 'Name'. It shows a single entry with ID '1' and Name 'Preset 1'. Below the table are 'Create' and 'Remove' buttons. The 'Decoder List' section is currently empty, showing 'No Data'.

Click **"Create"** to open the configuration dialog. Assign a unique ID and descriptive Name as needed. To delete an existing preset, select it and click **"Remove"**.



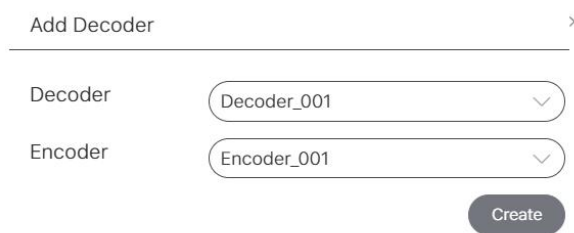
The screenshot shows the 'Create Matrix Preset' dialog. It has a title bar with a close button. Inside, there are two input fields: 'ID' with a dropdown menu showing '1' and 'Name' with a text input field containing 'Preset 1'. At the bottom right, there is a 'Create' button.

Click the **"+"** button to add a decoder.



The screenshot shows the 'Matrix Preset' interface after adding a decoder. The 'Preset List' section remains the same. The 'Decoder List' section now has a table with columns 'Decoder' and 'Encoder'. It shows a single entry with 'Decoder_001' and 'Encoder_001'. Below the table are 'Create', 'Remove', and a '+' button (highlighted with a red box).

In the dialog, select an existing decoder and assign an encoder source to it.



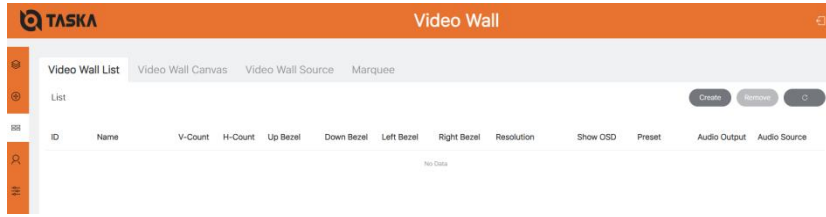
The screenshot shows the 'Add Decoder' dialog. It has a title bar with a close button. Inside, there are two input fields: 'Decoder' with a dropdown menu showing 'Decoder_001' and 'Encoder' with a dropdown menu showing 'Encoder_001'. At the bottom right, there is a 'Create' button.

You can continue adding decoders until all devices appear in the decoder list. The encoder source assigned to any decoder can be modified at any time. To remove a decoder from the currently selected preset, locate the decoder you wish to remove within the decoder list and click the **"-"** button associated with it. Following this action, you must press the **"Apply"** button within the Preset section to save the changes and make the removal effective.



The screenshot shows the 'Matrix Preset' interface after removing a decoder. The 'Preset List' section remains the same. The 'Decoder List' section now has a table with columns 'Decoder' and 'Encoder'. It shows a single entry with 'Decoder_001' and 'Encoder_001'. Below the table are 'Create', 'Remove', and a '+' button. The 'Remove' button is highlighted with a red box.

Video Wall



Video Wall List

On the Video Wall List interface, you can create and configure video walls as required. Please follow the steps below to set up a video wall.

Click **“Create”** to open the pop-up dialog box. Set the following parameters:

Create a new Video Wall

Video Wall ID

1

Video Wall Name

Video Wall 1

Row Number

2

Column Number

2

Up Bezel

0

Down Bezel

0

Left Bezel

0

Right Bezel

0

Resolution

Default/3840x2160@60Hz

Go

Create a new Video Wall

Video Wall ID

1

Video Wall Name

Video Wall 1

Row Number

2

Column Number

4096x2160@25Hz

4096x2160@30Hz

4096x2160@50Hz

4096x2160@60Hz

1360x768@60Hz

1680x1050@60Hz

1920x1200@60Hz

Custom Resolution

Up Bezel

0

Down Bezel

0

Left Bezel

0

Right Bezel

0

Resolution

Default/3840x2160@60Hz

Go

If **“Custom Resolution”** is selected, additional detailed customization options will be displayed, as shown in the figure below.

Create a new Video Wall

Video Wall ID

1

Video Wall Name

Video Wall 1

Row Number

2

Column Number

2

Up Bezel

0

Down Bezel

0

Left Bezel

0

Right Bezel

0

Resolution

Custom Resolution

Total Horizontal Pixel

0

Total Vertical Pixel

0

Driver Card H-Pixel

1

Driver Card V-Pixel

1

Refresh Rate

0

Horizontal Cut

Left Side

Right Side

Vertical Cut

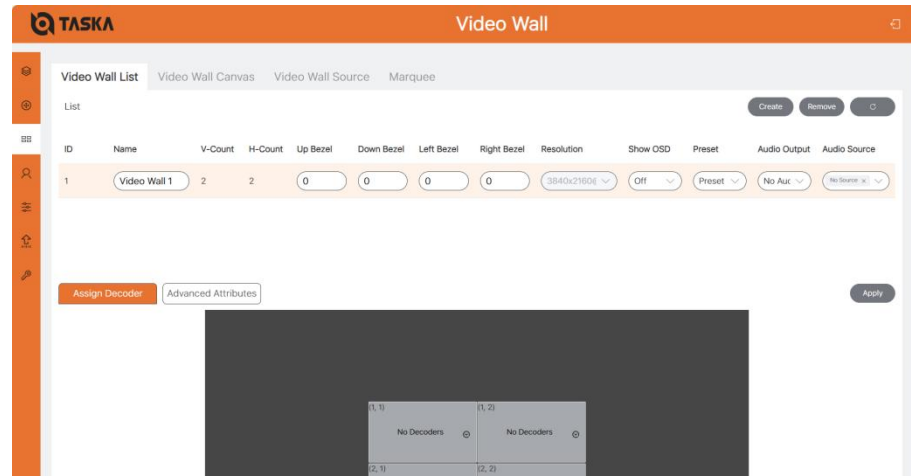
Top Side

Bottom Side

Go

Assign Decoder

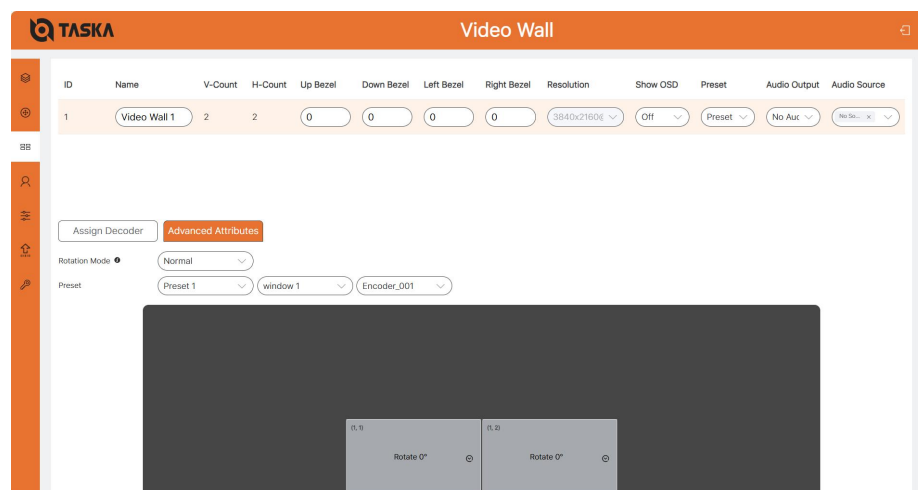
- Step 1:** Select the video wall that you want to configure from the Video Wall List interface. Click “Assign Decoder” at the bottom of the interface to enter the Decoder assignment interface.
- Step 2:** Click each screen segment (e.g., top-left, bottom-right)
- Step 3:** Select a corresponding Decoder device from the pop-up list.
- Step 4:** Click “Apply” to save the configuration and make it take effect immediately.



Notes:

- ① A decoder can only be assigned to one video wall.
 - ② If a decoder doesn't support the selected video resolution, it will display in gray and unselectable. Please replace it with a compatible decoder, or adjust the resolution of the video wall to match the decoder's capabilities.
- If you want to delete a video wall, just select the video wall on the “Video Wall List”, then click “Remove”. A prompt window will pop up and you can delete it after clicking “Yes”.

Advanced Attributes

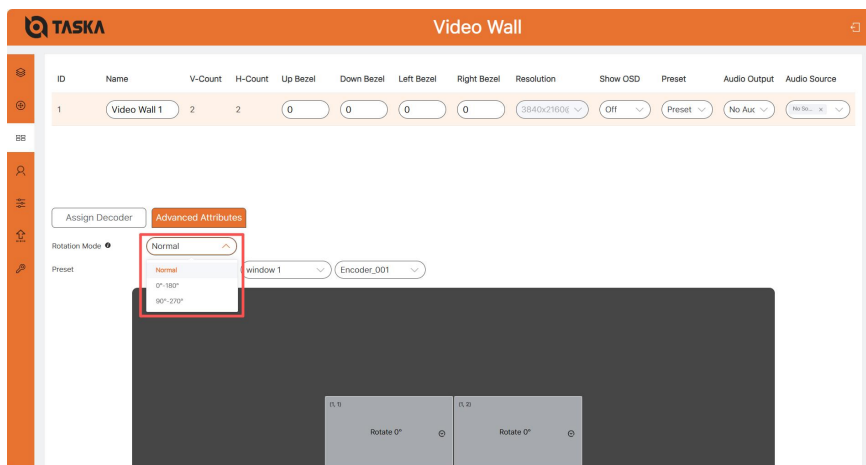


This function supports rotation mode configuration for video wall display content, suitable for special installation angles or display requirements.

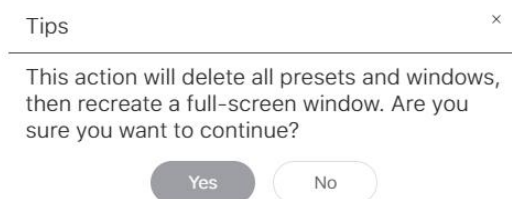
Notes:

- ① “**Rotation Mode**” is only supported when the video wall is configured with a resolution of 3840x2160@30Hz, 4096x2160@30Hz, 1080p@60Hz, or lower.
- ② If rotation is required for a video wall, and the setup involves a **50Hz or 60Hz source** paired with a video wall resolution of **4K24Hz or 4K25Hz**, video stuttering may occur.

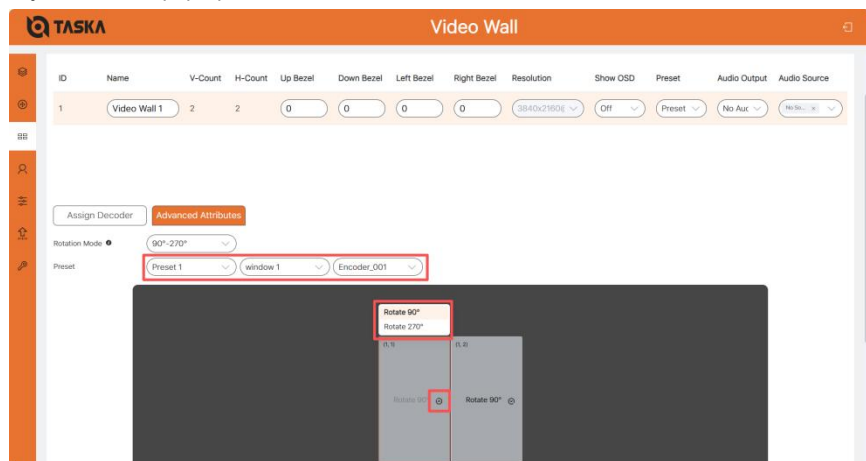
Step 1: The system allows selecting the rotation angle from a pop-up list, with options including **Normal**(0°), **0°-180°**, and **90°-270°**.



Step 2: Since the video wall layout has been changed, all presets and windows will be deleted. A full-screen window is recreated. Click **“Yes”** to confirm and proceed

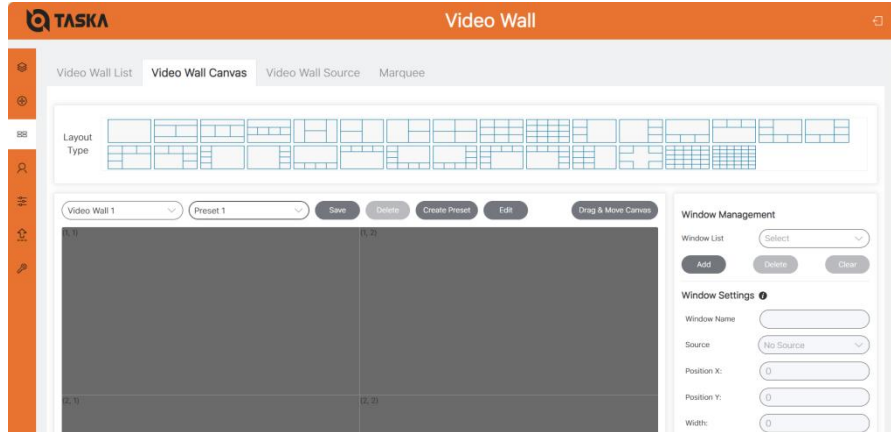


Step 3: The system allows selection of presets, windows, and sources from available encoders, with rotation angles adjustable via a pop-up list.



Video Wall Canvas

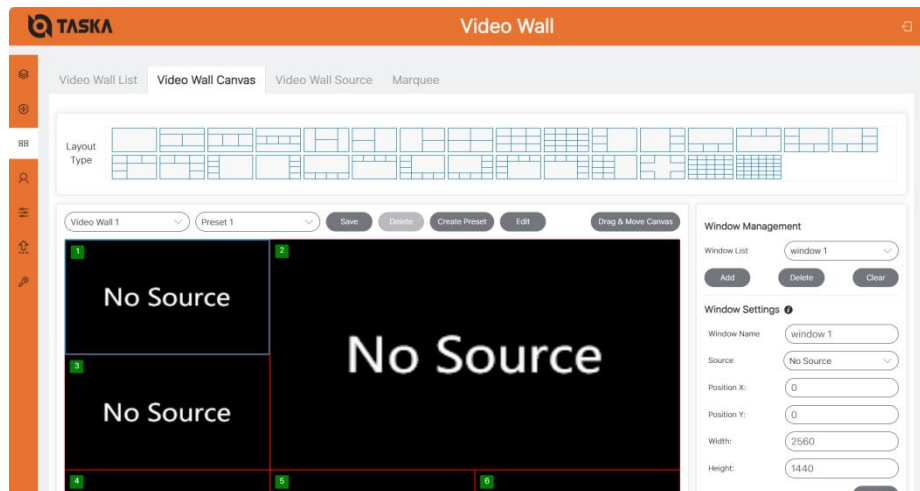
After creating and configuring the video wall, click the **Video Wall Canvas** tab to set the layout, create and manage presets, or perform windowing operations.



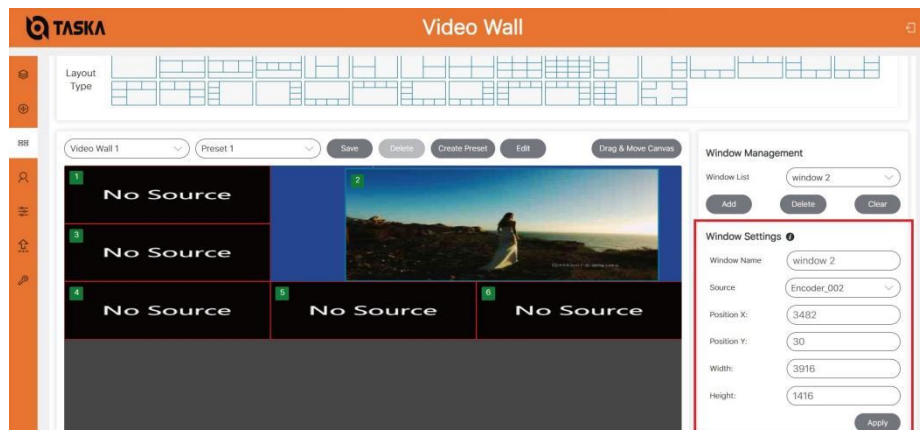
Video Wall Layout

Follow the steps below to set the video wall layout:

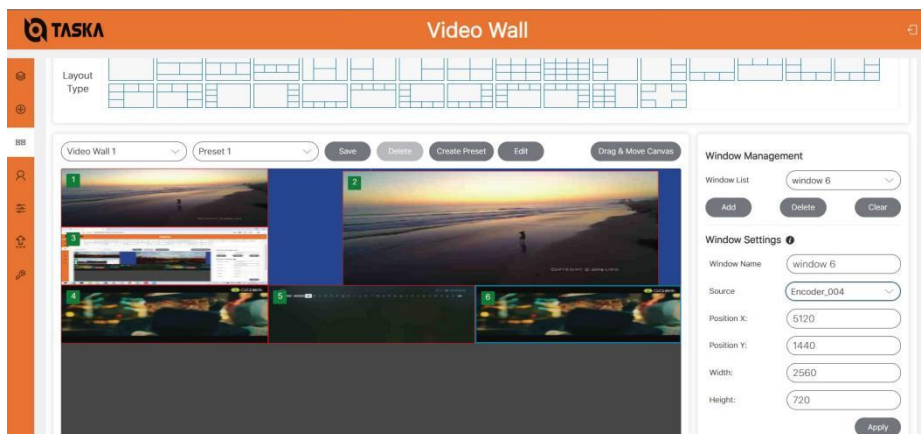
Step 1: Click to select the desired layout in the **Layout Type** area. The selected layout will be immediately displayed in the video wall canvas, as shown in the figure below.



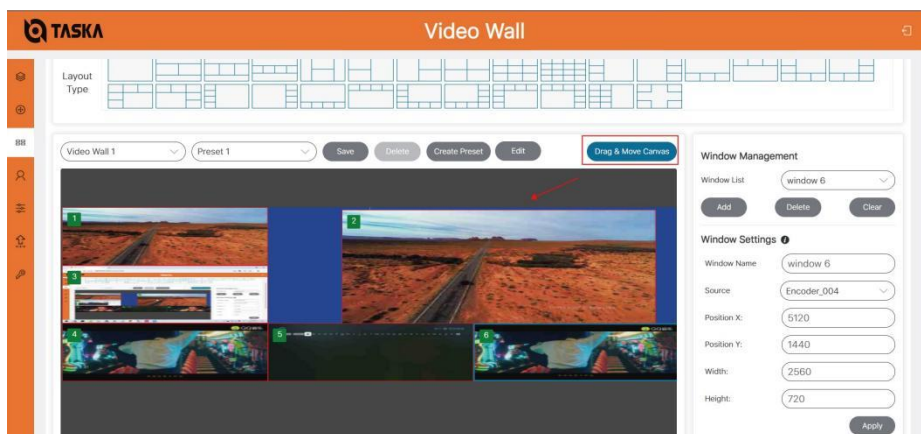
Step 2: Select a window within the layout to access its settings. In the Window Settings area, you can modify the window name, assign a signal source, and adjust the position or size. You may also drag the window directly to reposition or resize it visually. Click "Save" to confirm your changes before exiting.



Step 3: Select signal sources and set the position/size for each window as needed using the same method. Then, click **"Save"** above the video wall canvas to save the current settings as **Preset 1**. The configuration will take effect immediately, as shown in the figures below.



After clicking **"Drag & Move Canvas"** above the video wall canvas, you can freely drag the entire video wall to any position on the canvas for optimal previewing.



Preset Creation

To create and configure a video wall preset, follow these steps:

Step 1: Click **"Create Preset"** to open a dialog box. Enter a **Preset ID** and **Preset Name**, then click **"Go"** to save the configuration as a new preset.

Create Video Wall Preset
×

Preset ID

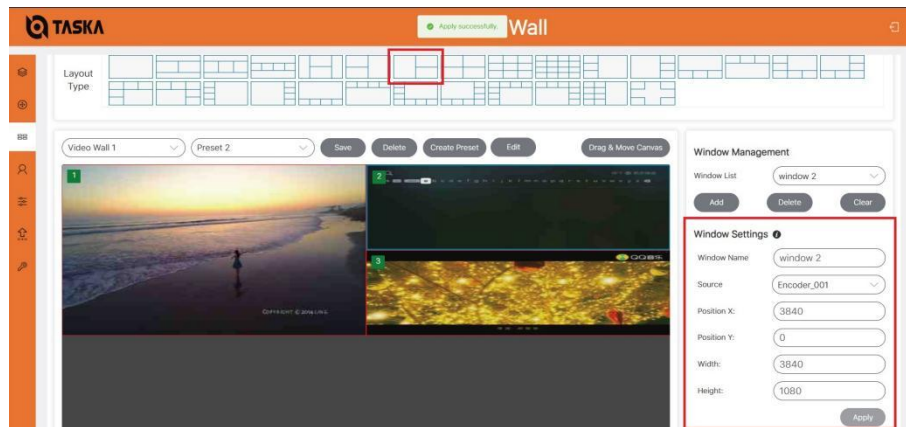
2

Preset Name

Preset 2

Go

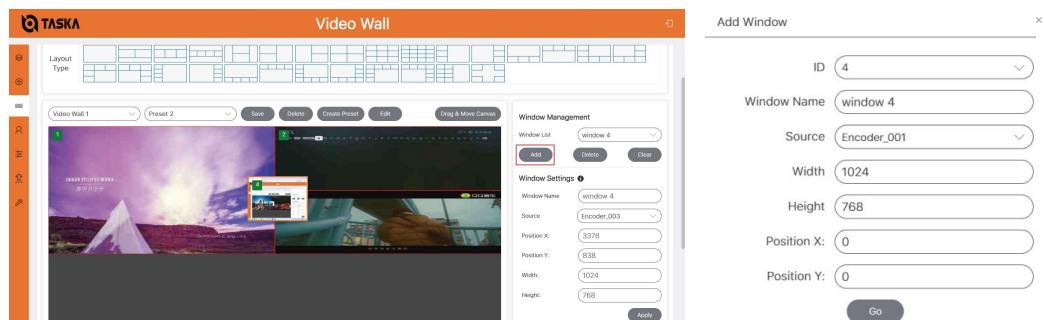
Step 2: After selecting the desired layout and configuring the windows, click **"Save"** above the video wall canvas to store the settings as a preset.



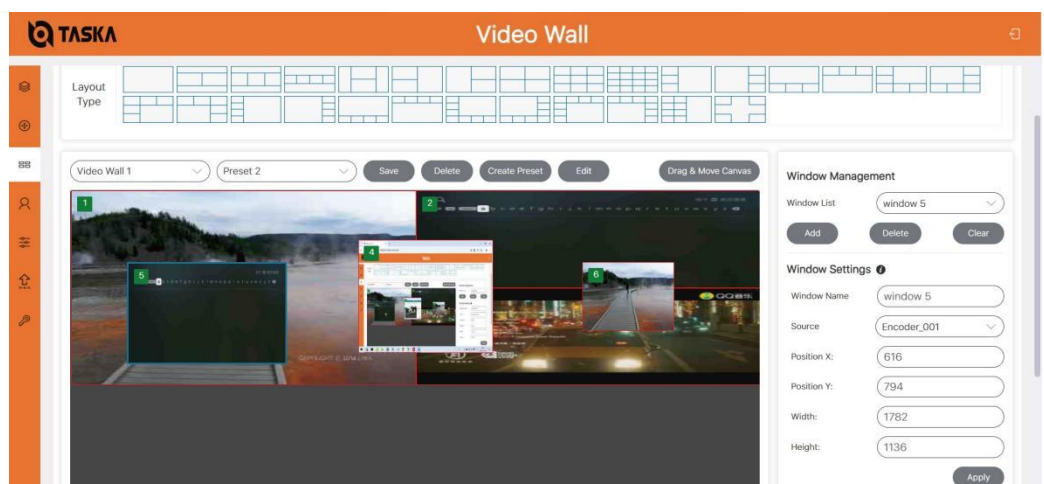
Windowing Configuration

Video Wall Windowing Configuration Steps:

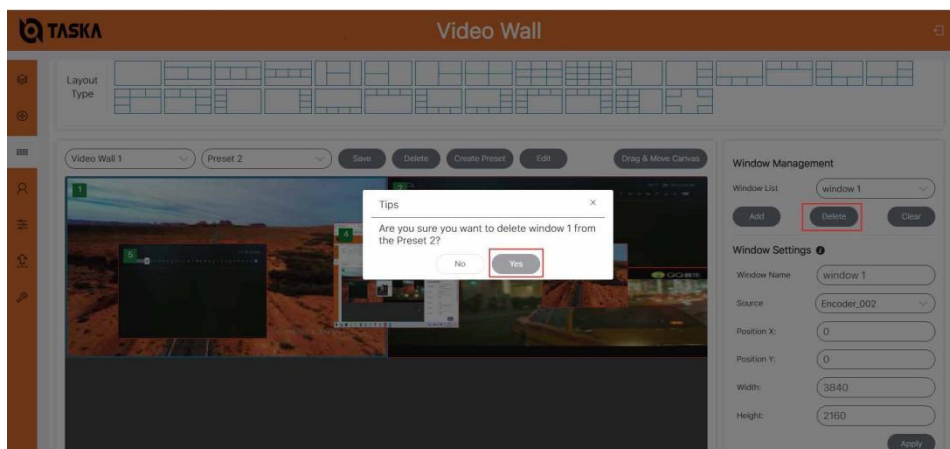
Step 1: Click **"Add"** in the Window Management area to open a dialog box. Set the **ID**, **name**, **source**, **size** and **position** for the new window, then click **"Go"**. The newly created window will be placed above the video wall.



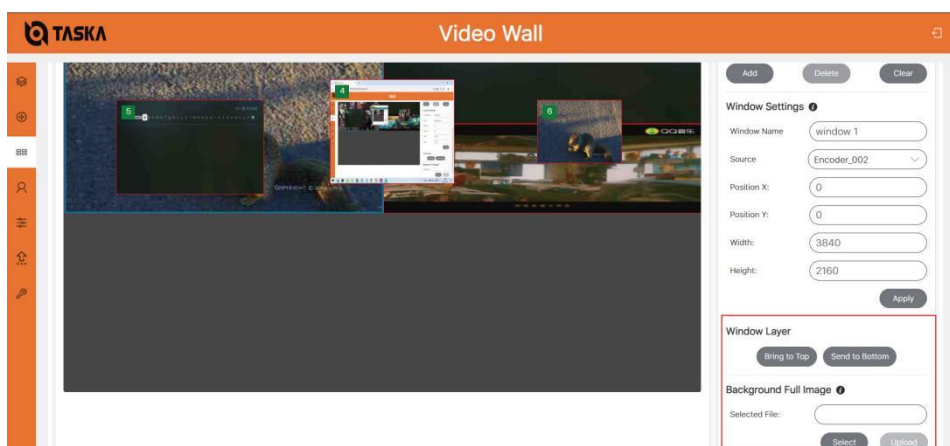
Step 2: Add more windows in the same way: click the **"Add"** button, set the window parameters in the dialog box, and then click **"Go"**. Additionally, you can directly click to select a window and drag it to set its position and size.



If you want to delete a window, select the target window in the Window List, then click **"Delete"**. A confirmation dialog will pop up, and you can complete the deletion by clicking **"Yes"**.



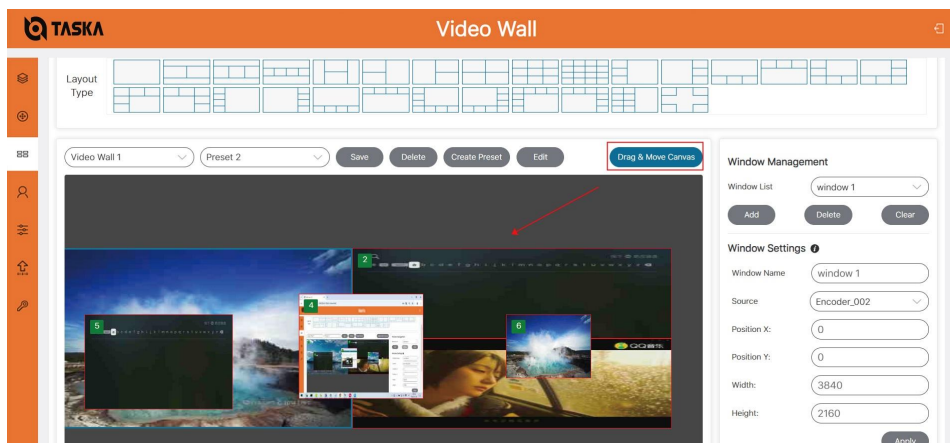
Clicking **"Clear"** will remove all windows from the canvas. **This action cannot be undone, so please proceed with caution.** Additionally, you can adjust window layers using **"Bring to Top"** or **"Bring to Bottom"** in the Window Layer area, or upload a custom background image (JPG/PNG formats supported) in the Background Full Image area, as shown in the following figure.



Notes:

- ① Please use a PNG format image file with the same resolution as the current video wall.
- ② Please re-import the background image if the decoder is reset to factory settings.

After clicking the **"Drag & Move Canvas"** button above the video wall canvas, you can drag the entire video wall to other positions on the canvas as needed for a better preview.



Video Wall Source

After completing video wall and windowing configuration, click the **"Video Wall Source"** tab to view real-time previews.

Video Wall

Click the dropdown menu to switch between different video walls

Preset

Click the dropdown menu to quickly switch saved video wall presets

Audio Output Channel

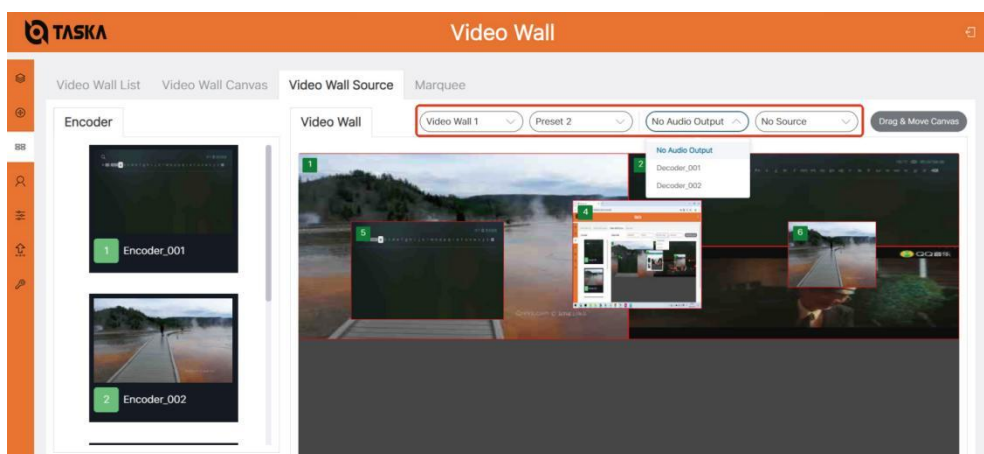
Click the dropdown menu to select audio output channels

Signal Source Assignment

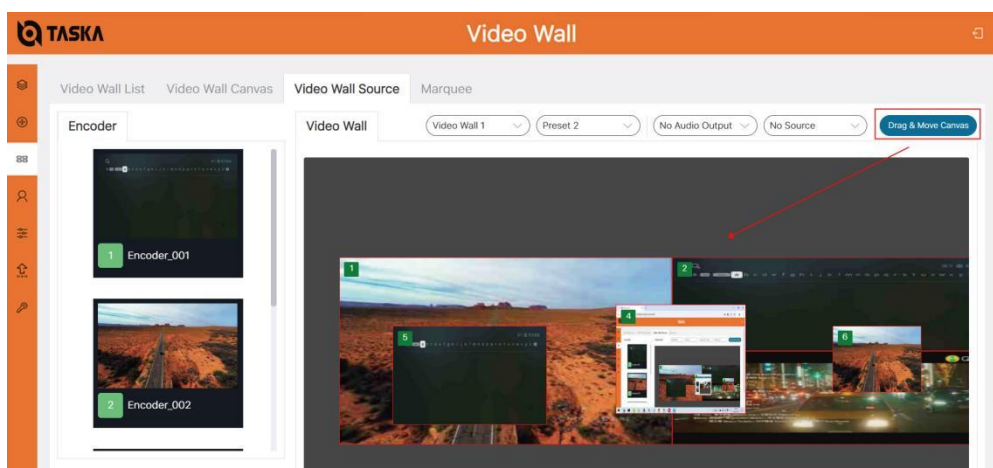
Click the dropdown menu to select a signal source for each window.

Or directly drag encoders to video wall windows for quick switching.

Note: If an encoder is offline, it cannot be dragged to the video wall matrix. The system will automatically disable the drag function for offline encoders and display the device in gray on the interface.

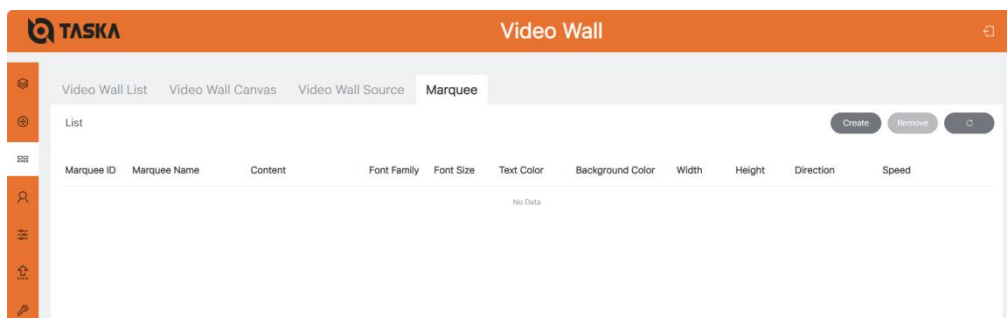


After clicking the **"Drag & Move Canvas"** button, you can freely adjust the display position of the video wall on the canvas by dragging to achieve optimal preview angles.

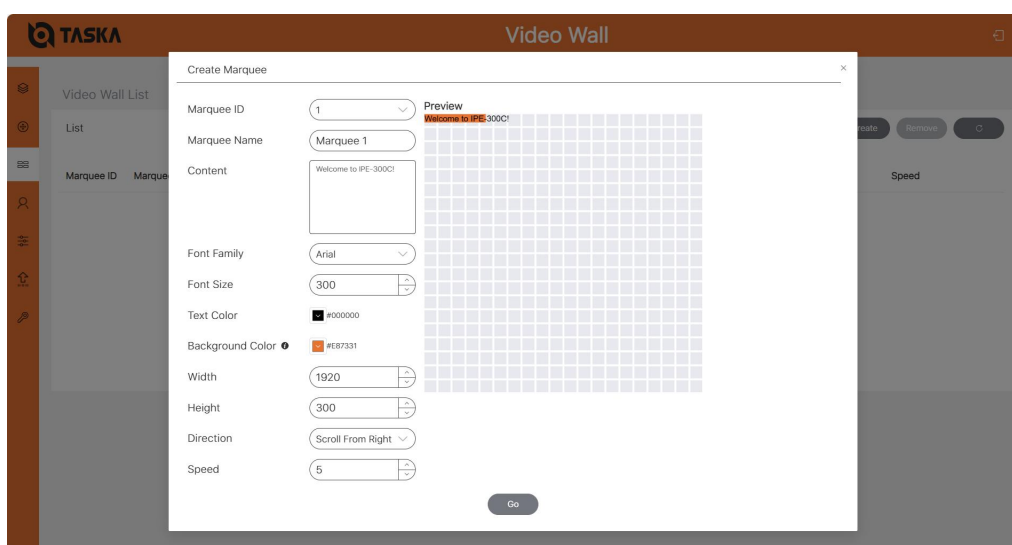


Marquee

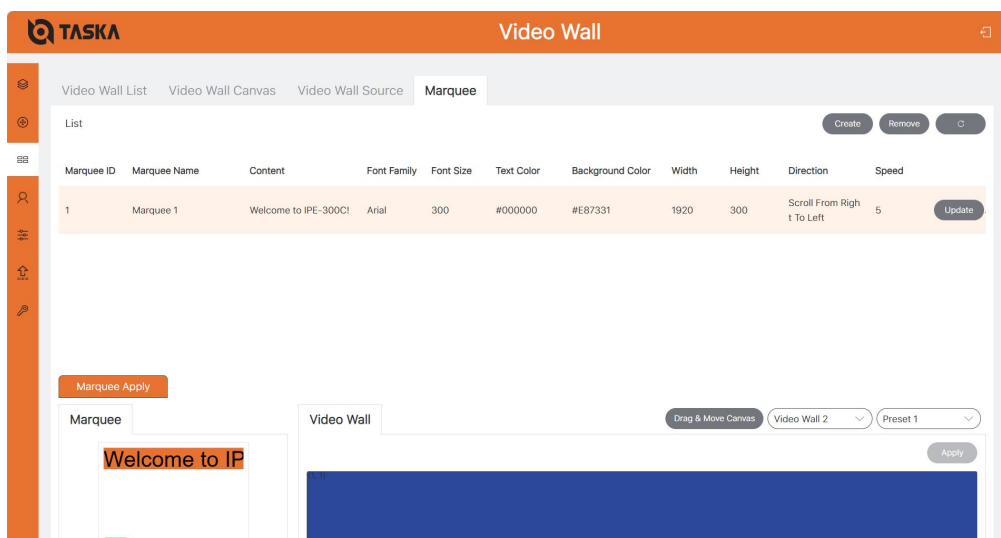
The matrix supports the marquee function. Click the **"Marquee"** tab to set a marquee for the video wall.



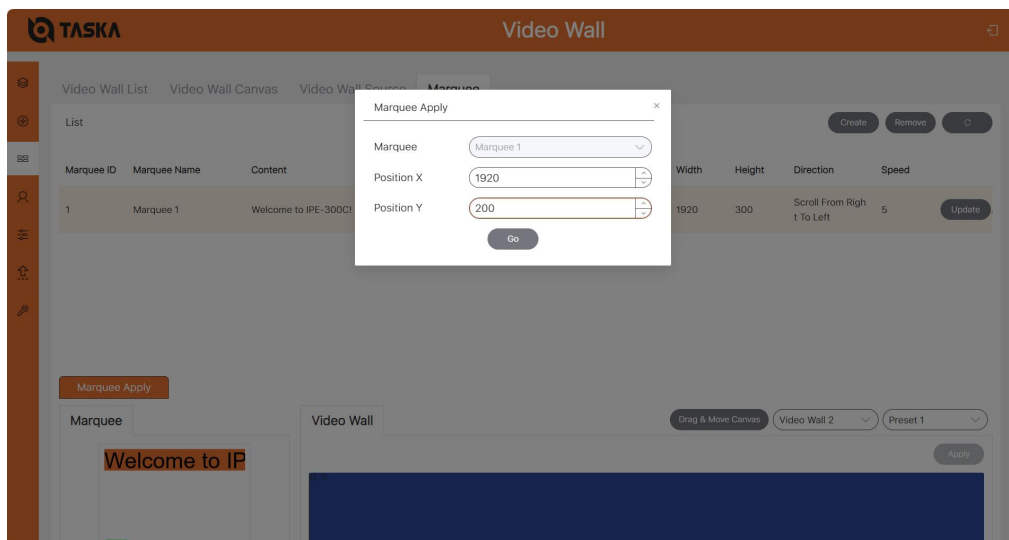
Step 1: Click the **"Create"** button, and a dialog box will pop up as shown below:



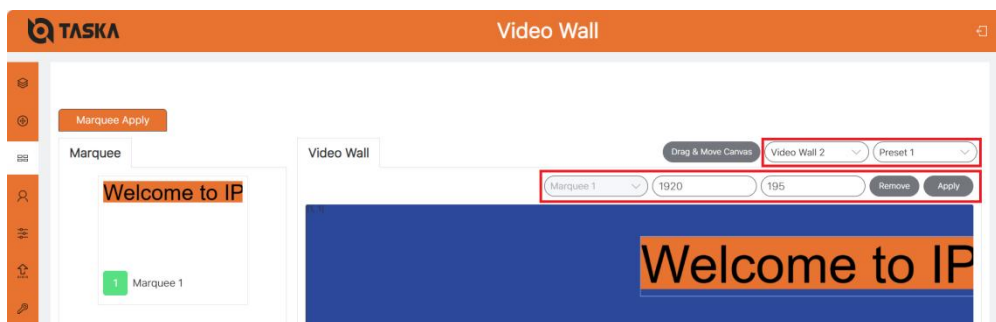
Set the **Marquee ID**, **name**, **content**, **font**, **font size**, **text color**, **background color**, **width**, **height**, **direction**, and **speed**. Then click **"Go"** to create the marquee.



Step 2: Drag the newly created marquee from the **Marquee area** to the **Video Wall area**. A pop-up dialog box will appear as shown below.



Step 3: Set the **Position X** and **Position Y** values for the marquee in the dialog box, then click **"Go"** to apply the settings. The marquee will be displayed on the canvas at the specified coordinates, as shown in the figure below.



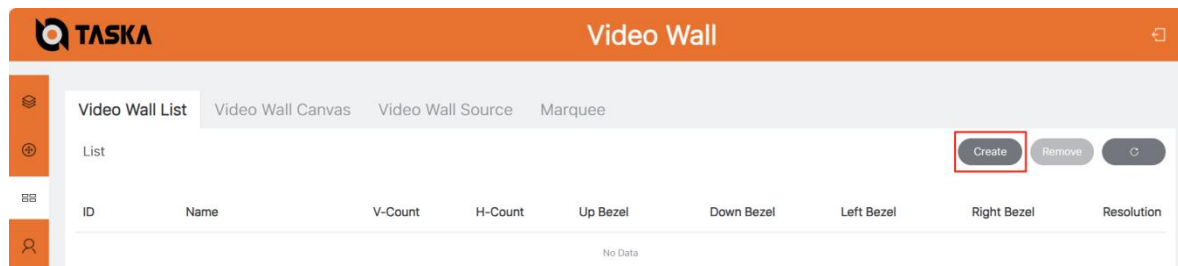
If multiple marquees are set, you can use the dropdown menu to switch between them, or modify the Position X/Y values in the input box. To delete a marquee, click "Remove" and then confirm by clicking "Yes" in the pop-up dialog box.

After clicking "Drag & Move Canvas", you can freely drag the video wall to other areas of the canvas for detailed preview.

Step 4: Click the drop-down menu to switch different video walls, and click the drop-down menu to switch different video wall presets. Then, click **"Apply"** to apply the marquee on the video wall.

Multiview

The multiview function can be configured directly on the Video Wall page. Simply create a **1x1 video wall** to serve as the multiview canvas, as demonstrated in the following figures.



Create a new Video Wall

Video Wall ID: 1

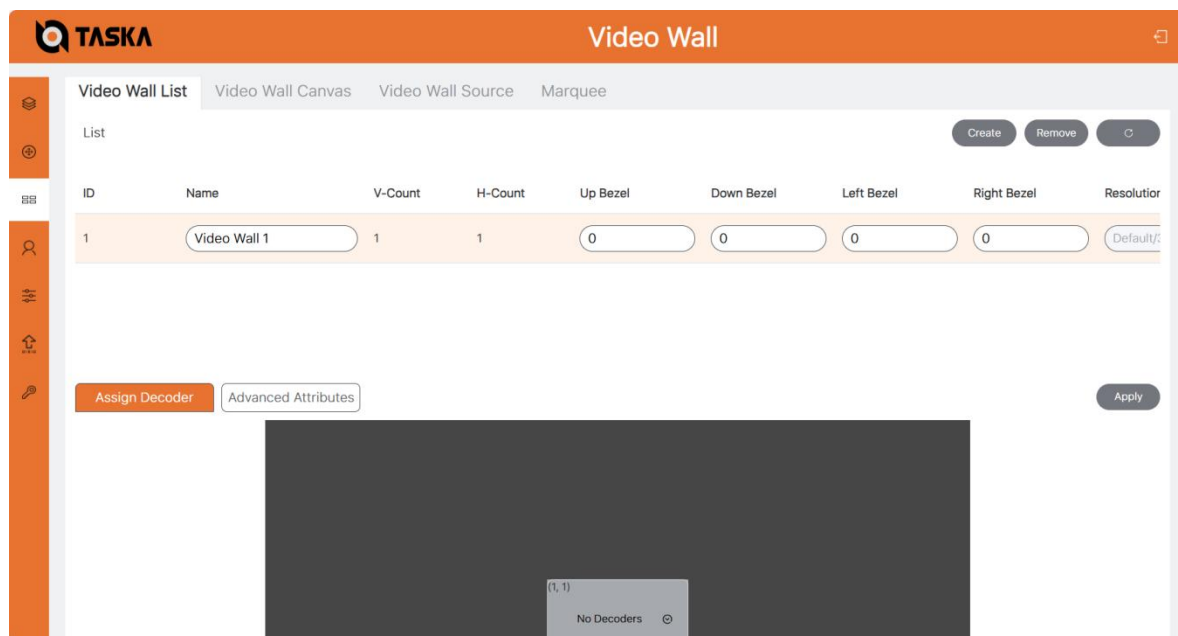
Video Wall Name: Video Wall 1

Row Number: 1

Column Number: 1

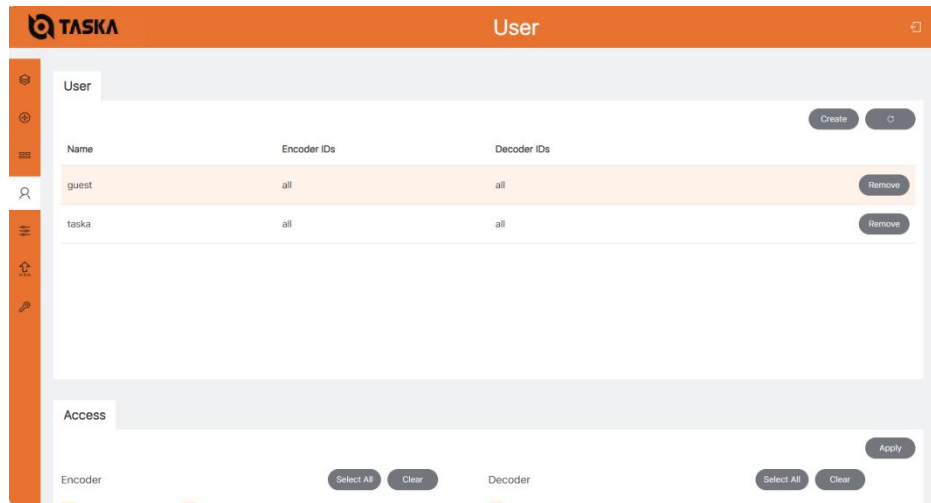
Resolution: Default/3840x2160@60Hz

Go



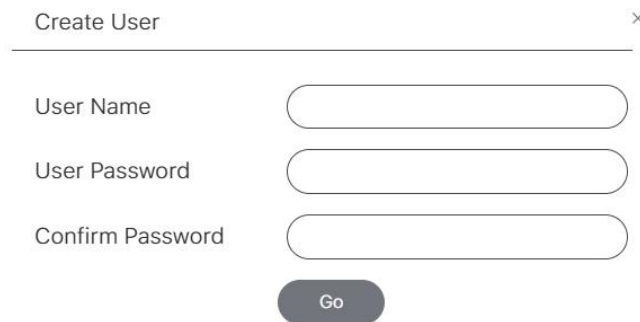
You can configure the multiview layout, create new presets, preview the multiview display, and set windowing or marquee effects using the same methods as those applied to video wall operations.

User



On this page, you can create new user accounts with customized control privileges. This allows you to assign unique login credentials and restrict access to specific features, such as inputs and outputs, for each user. Follow the steps below to add a new user.

Step 1: Click the "Create" button. A pop-up dialog box will appear, as shown in the figure below.

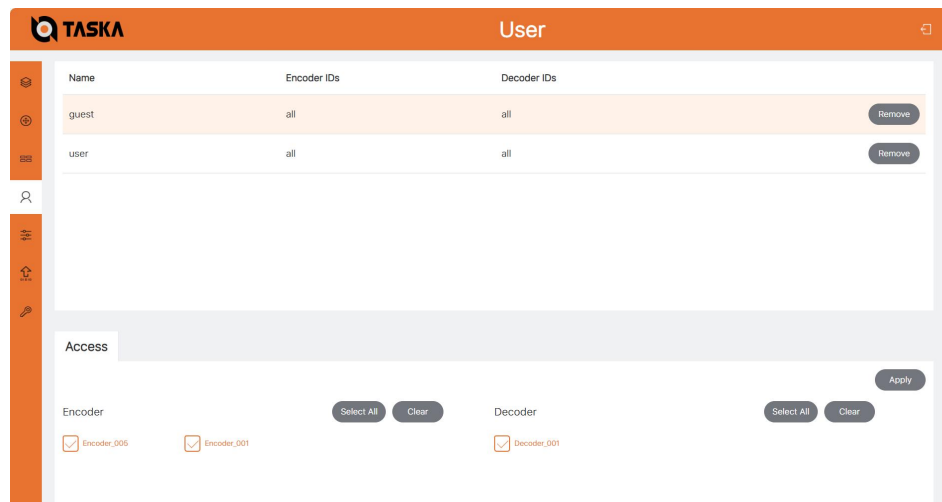


Step 2: Enter the desired username, password, and confirmation password in the designated fields, then click "Go" to successfully create the user account.

Password Requirements:

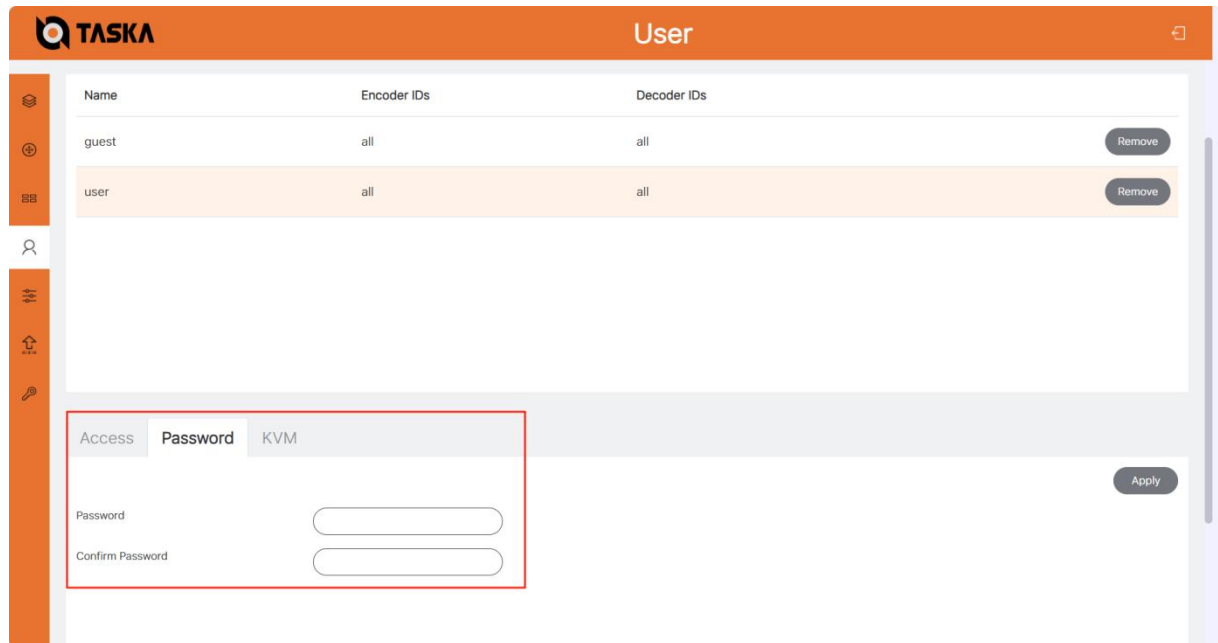
Length: 6-8 characters

No special characters (e.g., @, #, \$)



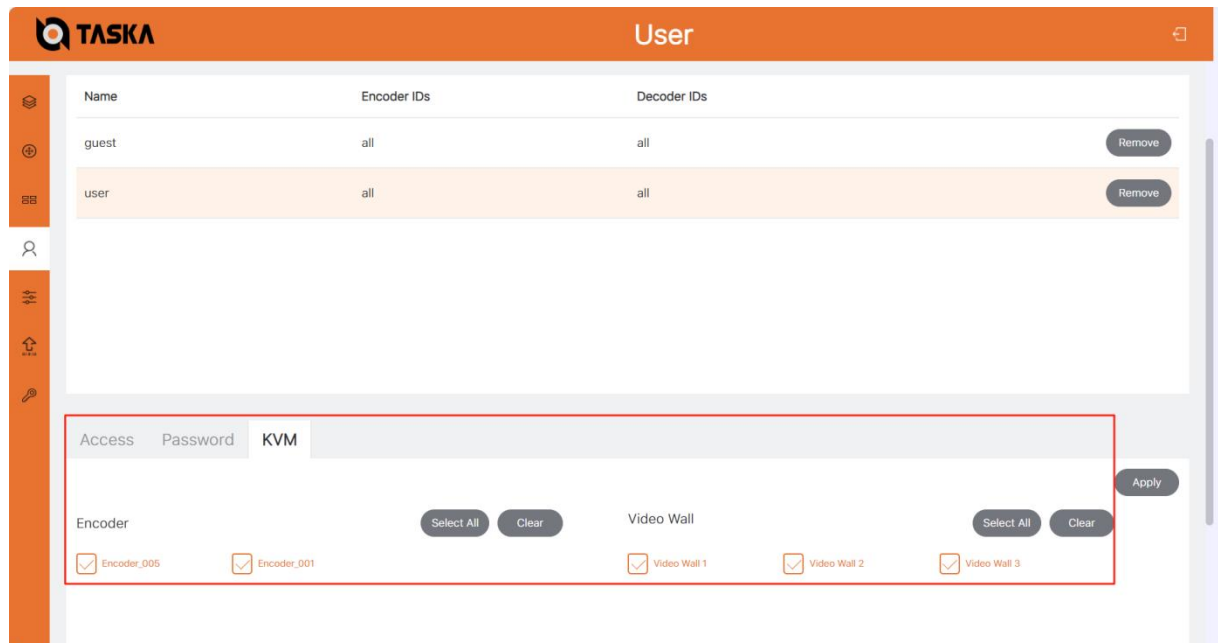
After creating a new user, you can assign Encoders and Decoders by selecting individual devices listed at the bottom of the User page or clicking **"Select All"** to include all system devices. Click **"Apply"** to confirm, granting the user access to the selected devices.

Additionally, use the **"Password"** option to modify the user's password or **"Remove"** to delete the account. To log in as the new user, click the logout icon in the upper right corner and enter the new credentials on the login interface.



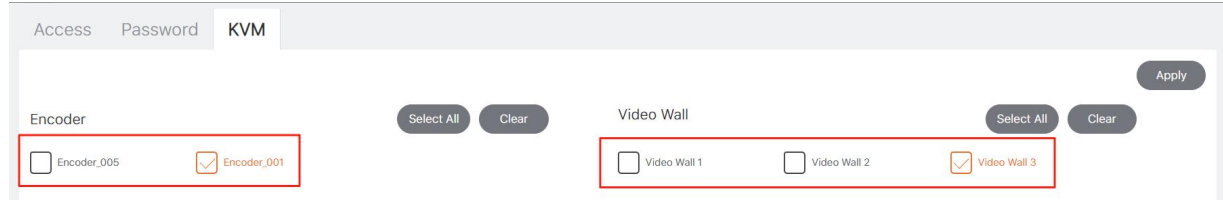
The screenshot shows the TASKA User Management interface. The top bar is orange with the TASKA logo and the word "User". Below the bar is a table with columns: Name, Encoder IDs, Decoder IDs, and a Remove button. The table contains two rows: "guest" and "user", both with "all" for Encoder IDs and Decoder IDs. Below the table is a form with three tabs: Access, Password, and KVM. The Password tab is selected and highlighted with a red box. It contains two input fields: Password and Confirm Password. An Apply button is located to the right of the form.

Click **"KVM"** to configure KVM permissions. These settings define the resources accessible to the user after logging into the KVM OSD menu. By default, the user can access all video walls and encoders, as shown in the figure below.



The screenshot shows the TASKA User Management interface with the KVM tab selected and highlighted with a red box. The table above the form is the same as in the previous screenshot. The KVM tab contains two sections: Encoder and Video Wall. Each section has a Select All button, a Clear button, and a list of checkboxes. The Encoder section has checkboxes for Encoder_005 and Encoder_001. The Video Wall section has checkboxes for Video Wall 1, Video Wall 2, and Video Wall 3. An Apply button is located to the right of the form.

You can configure the user to access only specific Video Walls and Encoders. For example, restrict the user to operate only **Encoder 001**, and **Video Wall 3**. After selecting the corresponding options, click **Apply** to activate the settings, as shown in the figure below.

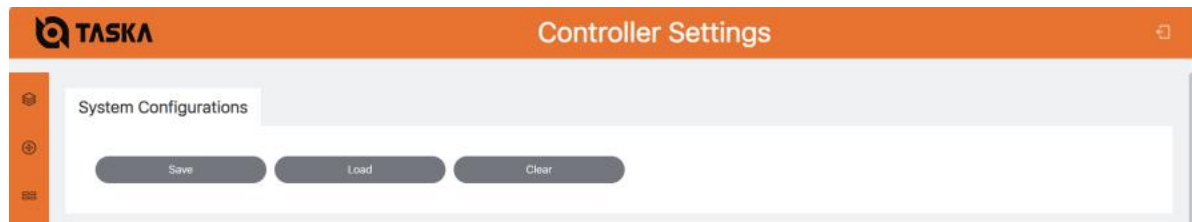


The screenshot shows the KVM configuration page with two tabs: 'Access' and 'Password'. The 'KVM' tab is active. Under the 'Encoder' section, there are two checkboxes: 'Encoder_005' (unchecked) and 'Encoder_001' (checked). Under the 'Video Wall' section, there are three checkboxes: 'Video Wall 1' (unchecked), 'Video Wall 2' (unchecked), and 'Video Wall 3' (checked). There are 'Select All' and 'Clear' buttons for both sections, and an 'Apply' button at the top right.

Controller Settings

After modifying any settings for the Controller on this page, the system will automatically reboot to apply the changes. Please ensure that operations are saved and avoid interrupting the reboot process.

System Configurations



The screenshot shows the 'Controller Settings' page with a sub-tab 'System Configurations'. It features three buttons: 'Save', 'Load', and 'Clear'.

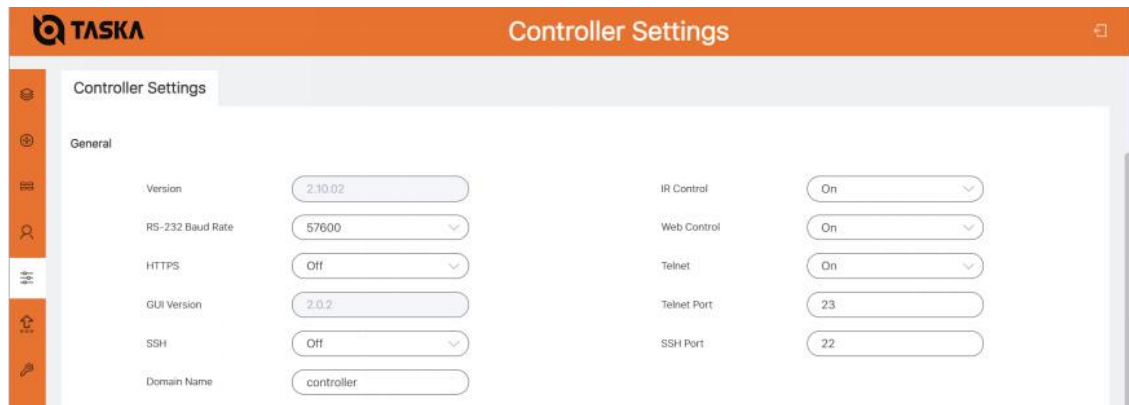
Click "Save" to store the current configuration settings.

Click "Load" to import a system configuration file and overwrite the existing settings (it is strongly recommended to save the current configuration before loading a new file).

Click "Clear" to erase all configured settings in the controller, requiring a complete system setup restoration.

Controller Settings

General



The screenshot shows the 'Controller Settings' page with a sub-tab 'General'. It displays various system information and settings:

- Version: 2.10.02
- RS-232 Baud Rate: 57600
- HTTPS: Off
- GUI Version: 2.0.2
- SSH: Off
- Domain Name: controller
- IR Control: On
- Web Control: On
- Telnet: On
- Telnet Port: 23
- SSH Port: 22

This section displays the Controller's system information.

Version : Show the Controller version

RS-232 Baud Rate : Set Baud Rate of RS-232 port

HTTPS : Enable/Disable HTTPS function

GUI Version : Show the GUI version

SSH : Enable/Disable SSH function

Domain Name : Set Domain name of DNS. Controller can be reached by "[Domain Name].local".

Note: HTTPS must be set to OFF.

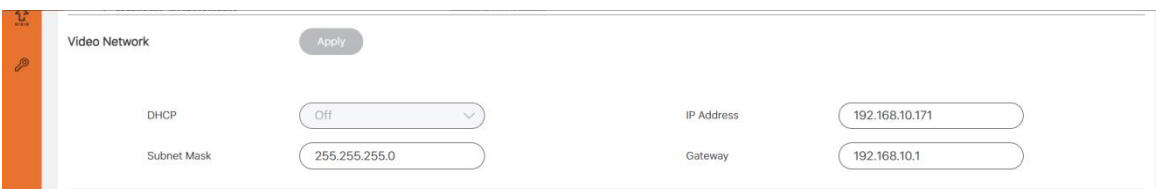
IR Control	: Reserved function only
Web Control	: Enable/Disable WebUI control
Telnet	: Enable/Disable Telnet function
Telnet port	: Set the port number of Telnet
SSH port	: Set the port number of SSH

Control Network



This section configures the network port of the Controller connected to the router, PC, or control network switch. When DHCP is set to "Off," manually configure the IP Address, Subnet Mask, and Gateway, then click "Apply" to save the settings. When DHCP is set to "On," the system will automatically obtain and fill in the IP Address assigned by the router.

Video Network



This section displays the network port settings of the Controller connected to the Encoder/Decoder network.

Controller Reset

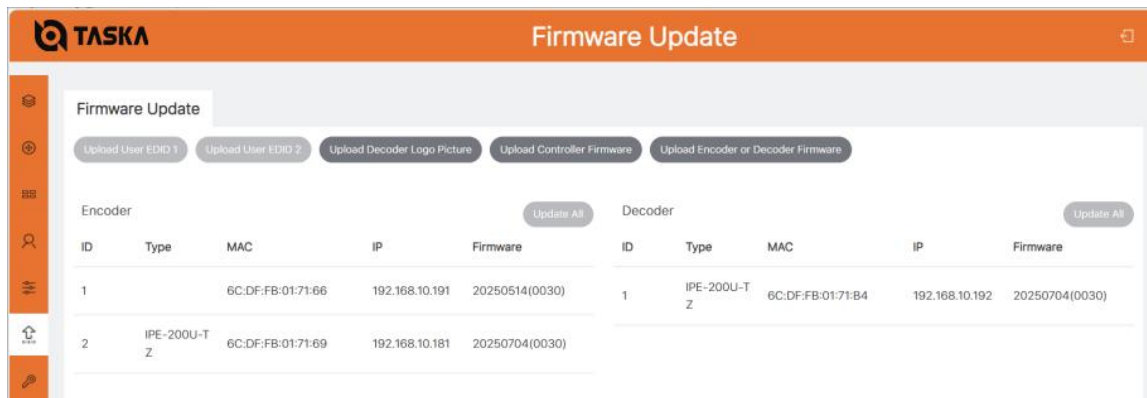


Click **"Network Reset"** to reset only network-related settings.

Click **"Settings Reset"** to restore all Controller settings to factory defaults while preserving network configurations.

Click **"Reset All"** to restore the Controller to complete factory conditions, including network and system settings.

Firmware Update



Upload User EDID 1/2

Click the button to open and upload a binary EDID file to User EDID 1/2. This functionality is planned for implementation in a future firmware update.

Upload Decoder Logo Picture

Click the button to open and upload a BMP picture file as the Decoder Logo Picture. To apply the picture, click "Update All" to update all Decoders simultaneously, or click "Update" to apply it to a single selected Decoder.

Upload Controller Firmware

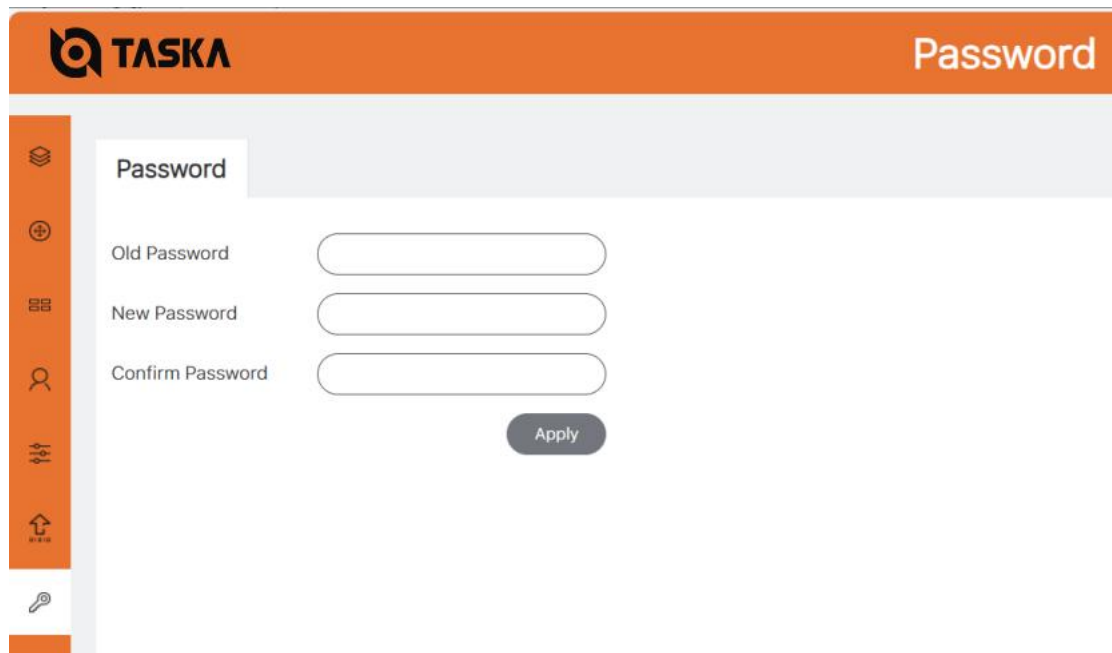
Click the button to upload and install the latest firmware for the Controller. Ensure that the firmware file is compatible and obtained from an official source before proceeding.

Upload Encoder or Decoder Firmware

Click the button to upload the firmware file for Encoder/Decoder devices. After the file is loaded, click "Update All" to simultaneously update all compatible devices, or click "Update" to update a single selected device.

After uploading the firmware file, the system will automatically detect whether it is compatible with your Encoder/Decoder devices. If the firmware is compatible, the corresponding "Update" button will be activated and available for selection. If the firmware is not compatible with a device, the "Update" button will remain grayed out and unavailable.

Password



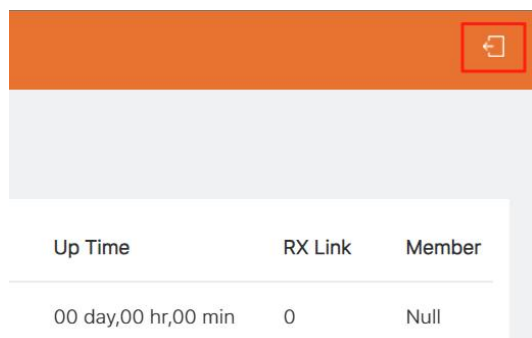
On this page, users can change their password by entering the Old Password, New Password, and Confirm Password fields, followed by clicking the "Apply" button to confirm the changes.

Password Requirements:

1. Password must contain 6 to 8 characters (special characters are not permitted).
2. New password cannot match the old password
3. New Password and Confirm Password entries must match exactly

After password modification, the system will automatically redirect to the Web GUI login interface. Users must log in again using the new password.

Logout



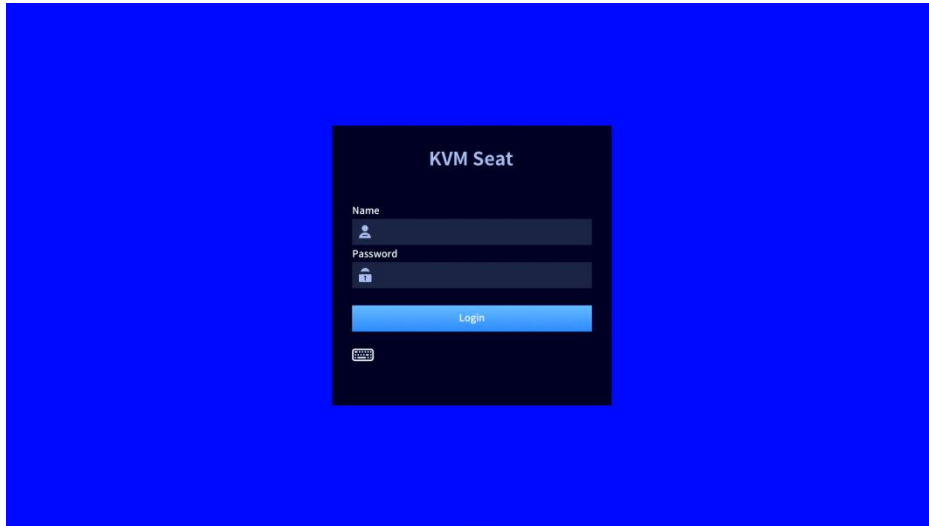
Up Time	RX Link	Member
00 day,00 hr,00 min	0	Null

A logout icon is consistently positioned in the upper right corner of every Web GUI page for secure session termination. Clicking this icon immediately exits the current session and automatically redirects to the login interface.

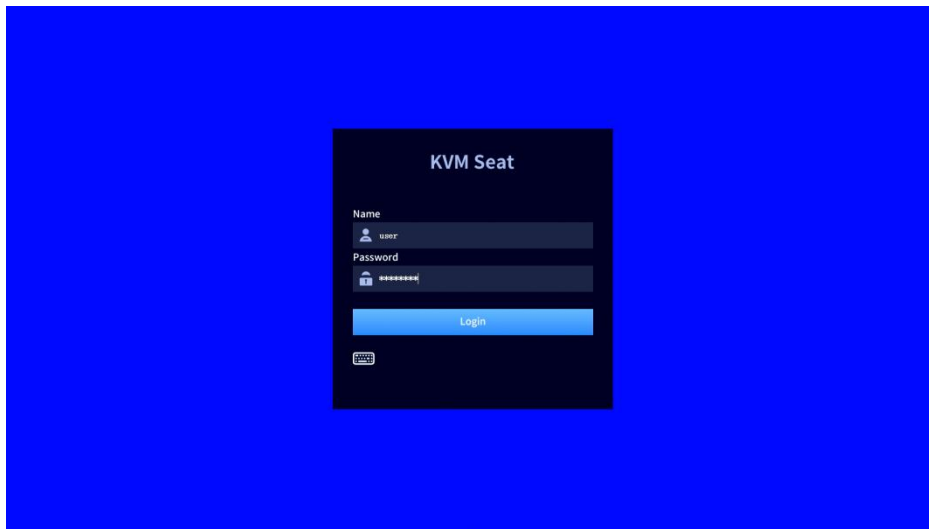
KVM access

KVM Seat

To access KVM permissions, connect the mouse and keyboard to the USB device port of any decoder within the **Video Wall** configured for KVM operations. The decoder screen will immediately display the KVM login menu, as shown in the figure below.



Enter the username and password in the fields, then click **Login** to access the KVM control interface.



After successful login, the login interface will disappear.

To display the KVM menu:

- Rotate the Mouse clockwise three times on the screen.

- Press **Ctrl + Win** on the keyboard.

To hide the KVM menu:

- Rotate the Mouse counter-clockwise three times on the screen.

- Press **Esc** on the keyboard.

KVM Menu is shown in the figure below.



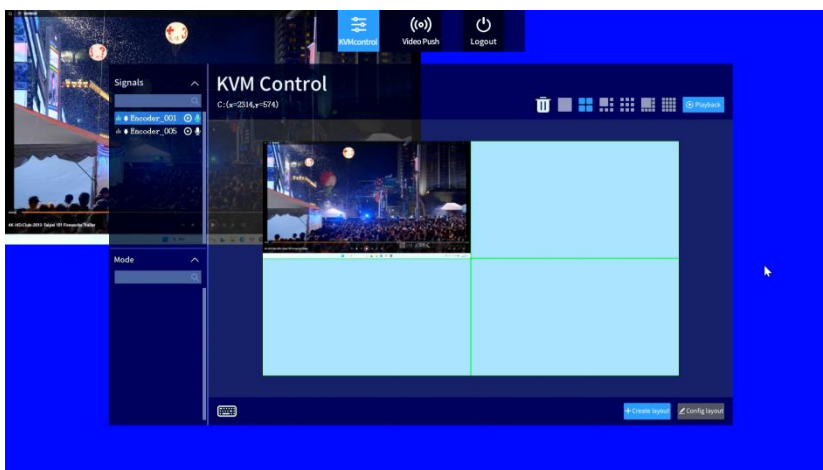
It includes KVM Control, Video Push and Logout.

KVM Control

It is used to directly control the video wall (KVM seat) where the keyboard and mouse are currently located, as shown in the figure below.



- ① Signals: The list of signal sources, only displaying the encoders that the user can access.
- ② Large Screen Area: Drag the signal source from the signal source list to the large screen area to switch the signal source.
- ③ Grid Settings: You can set the grid of each screen in Video Wall, including 1 split screen, 4 split screen, 6 split screen, 9 split screen, 8 split screen, and 16 split screen. Clicking on the corresponding icon will highlight it, as shown in the figure below.



Click on the 4 split screen icon, then drag the signal source to the 1/4 grid of the screen. The signal source window will automatically adapt to the grid size and position.

To cancel the grid, click the highlighted grid icon again. This allows you to freely drag and adjust the signal source window to any size and position.

④ Preview: Click to open the window preview; click again to close the preview

⑤ Delete Window: Clicking this will delete all current windows.

Video Push

It is used to control the matrix and other accessible video walls within the system, as shown in the figure below.



① Signals: The list of signal sources, only displaying the encoders that the user can access.

② Screen: The list of all matrix decoders and video walls for which this user has permissions. Clicking on an item in the list will display the matrix decoder or video wall in the large screen area. Switching signal sources and other operations are the same as KVM Control.

Note: If a decoder is assigned to the Video Wall of the currently logged-in KVM seat, the Video Push function cannot push other encoder signal sources to it.

Logout

It is used to exit the current account and return to the login interface.

Note: For security purposes, all windows in the video wall (KVM seat) where the keyboard and mouse are located will be deleted upon logout.

Protocol

IPE-300C can configure IPE series devices, IPE-100U-TZ and IPE-200U-TZ, by using a simplified API protocol. For the latest protocol specifications, please download the technical documentation from: <https://www.taska-tech.com>

Technical Specifications

Technical	
Network Port	1000M Base-T (supporting PoE)
Transmission Distance	100M CAT5E/6/6A/7
Connection	
Control	2 x LAN [RJ45] [VIDEO LAN supports PoE] 2 x RS-232 [3pin-3.81mm Phoenix connector] 1 x DIGITAL I/O [6pin-3.81mm Phoenix connector] 1 x IR IN [3.5mm Audio Jack] 1 x IR OUT [3.5mm Audio Jack] 1 x UPDATE [Micro USB, 5-pin female]
Mechanical	
Color	Black
Dimensions	204mm [W] x 117.5mm [D] x 21.5mm [H]
Weight	597g
Electrical	
Power Consumption	6.84W (Max)
Power Supply	Locking 5.5mm x 2.5mm jack: DC 12V/2.5A PoE (IEEE802.3af Class 3, PD mode)
Environment	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20~80% RH (Non-condensing)
Storage Humidity	10~90% RH (Non-condensing)

Warranty

Taska Technology Limited warrants that the IPE-300C is free from defects in materials and workmanship under normal use for a period of 60 months (5 years) from the original date of purchase. To obtain warranty service, customers must contact their local authorized Taska distributor.

This warranty does not apply under the following conditions:

- A. Damage resulting from negligence, accident, lightning, water, acts of God, or improper handling;
- B. Failure to operate the equipment in accordance with the procedures specified in the official user manual;
- C. Repairs, modifications, or alterations performed by unauthorized service centers;
- D. Removal, alteration, or defacement of the original product serial number;
- E. Damage caused by the use of unauthorized external equipment that affects performance, safety, or reliability;
- F. Products for which replacement parts or components are discontinued and no longer available.

Proof of purchase is required for all warranty claims.



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