Visual Intelligent Control Platform

User Manual

Contents

1 Introduction

Visual Intelligent Control Platform (hereinafter referred to as VICP) is a visualized control software for comprehensive management and control of screen display systems, multimedia playback and control systems, audio systems, and environment peripherals in various fixed installation application scenarios, such as exhibition halls, conference rooms or centers, media centers, command and control centers, and smart city data centers.

What you see is what you get

VICP allows fully-visualized operations, enabling more accurate and pertinent on-site control. In addition, its elaborated and interactive UI design brings a more friendly, simple and smooth using experience, thus providing users with a highly smart and efficient operating environment.

Everything is under your control

VICP can realize all-round management and control of splicing screen display systems, audio systems and environment peripherals, such as input signal switching, preset switching, screen brightness adjustment, system topology viewing, IP camera control, plan management, media service management, lighting, curtains, screens, TVs and audio, and more.

2 Installation Requirements

Device Requirements

OS	Hardware Configuration
Android	• Android: Android 10.0 or later • Memory: 6 GB or above • Processor: 8 cores or above • Storage: 128 GB or above
Harmony	• HarmonyOS: HarmonyOS from 2.0 to 5.0 • Memory: 6 GB or above • Processor: 8 cores or above • Storage: 128 GB or above
iOS	• iOS: iPadOS 14.4 or later • Memory: 4 GB or above • Processor: A10 or above • Storage: 32 GB or above
Windows	• Processor: 9th Generation Intel® Core™ i5 Processor or above • Memory: 16 GB or above • Hard disk space: 256 G or above • OS: Windows 10 64-bit, version 20H2 or above

Obtaining

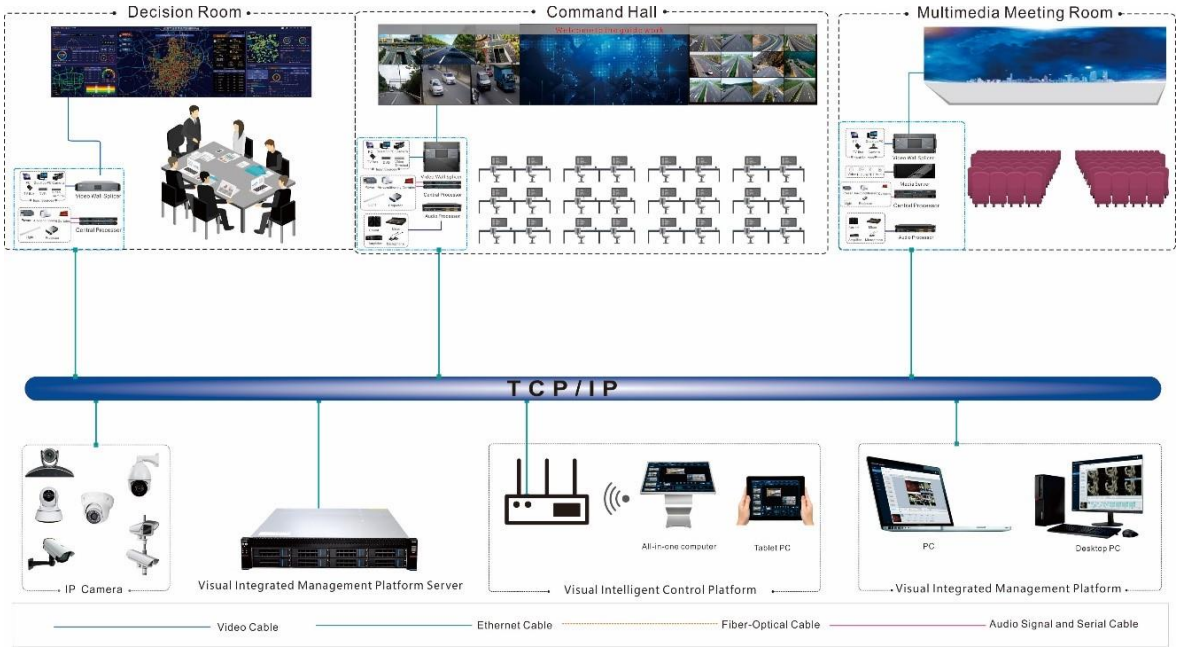
VICP supports tablet PC (iOS, Android OS and HarmonyOS) installation and Windows installation.

- For tablet PCs: Search for VICP in Apple or Android app store, or HUAWEI AppGallery to download and install the software.
- Windows OS: Obtain the package from your sales engineer or technical support engineer.

Installation

VICP is installed in the same way as an ordinary software. Follow the instructions to complete the installation.

3 Typical Networking



4 Authorization

After you log into the platform for the first time, you need to authorize the system before you use it.

The operations in the Windows system are performed in the same way as those on tablets. Here take the operations on tablets as an example to illustrate.

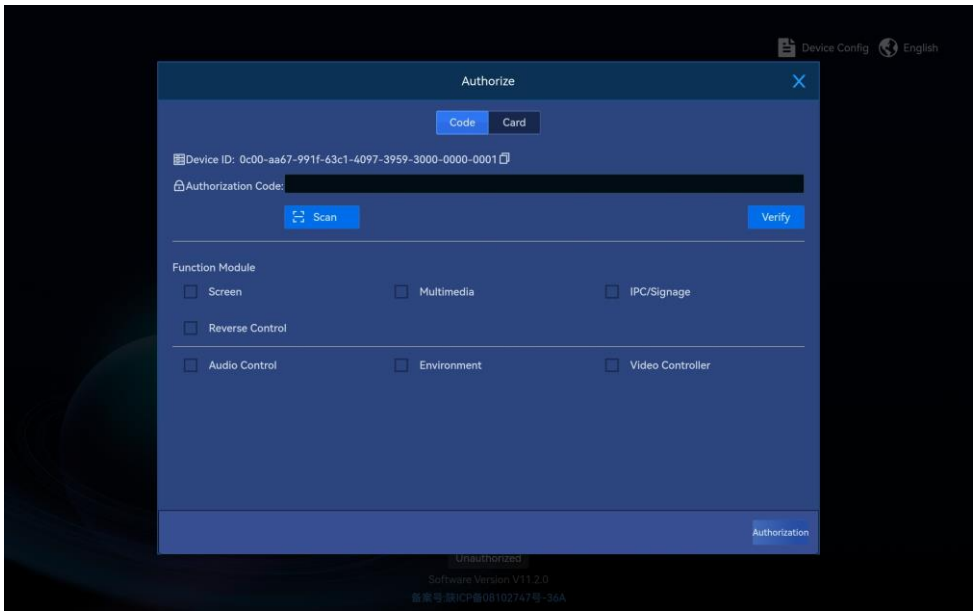
- If you select **Visual Integrated Management Platform** (hereinafter referred to as VIMP), you need to authorize the system in VIMP.
- If you select **Distributed Integrated Management Platform** or **Video Wall Splicer Integrated Management Platform**, you need to authorize the system in VICP.

4.1 Authorization Code

Step 1 Tap VICP to run the app, and then tap **Distributed Integrated Management Platform** or **Video Wall Splicer Integrated Management Platform** to enter the corresponding interface.

Step 2 Tap **Unauthorized** at the bottom to open the authorization window.

Figure 4-1 Authorization interface



Step 3 Send **Device ID** shown here to your sales.

Step 4 Obtain the authorization code from your sales, and fill in the code in the text box.

Tap **Scan** and scan the authorization code, the system will automatically fill in the code in the text box.

Note:

VICP on Windows terminal does not support scanning to fill in the authorization code.

Step 5 Tap **Verify** and the authorized function modules will be displayed below.

Step 6 Tap **Authorization** to complete the authorization.

After a successful authorization, the prompt "**Authorized**" is shown on the login interface.

Tap  at the top right to switch the language. The options include English, Russian, Portuguese, Indonesia and Chinese.

4.2 Authorization Card

Prerequisites

You have purchased the authorization card.

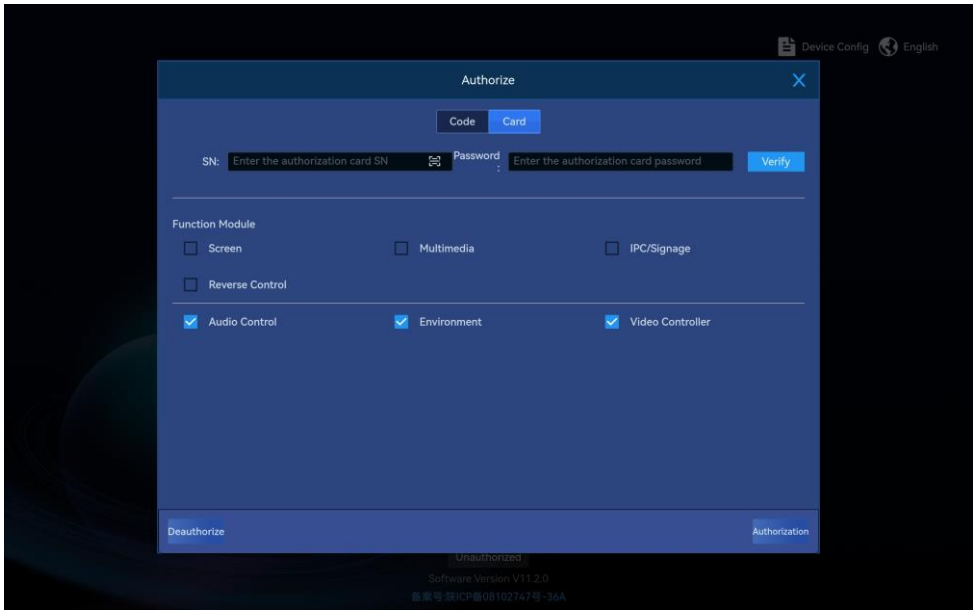
Operating Procedure

Step 1 Tap VICP to run the app, and then tap **Distributed Integrated Management Platform** or **Video Wall Splicer Integrated Management Platform** to enter the corresponding interface.

Step 2 Tap **Unauthorized** at the bottom to open the authorization window.

Step 3 Tap **Card** to enter the authorization card interface.

Figure 4-2 Authorization card



Step 4 Enter the authorization card SN in the text box.

Step 5 Scratch off the password coating, and then enter the password in the text box.

Step 6 Tap **Verify** to verify whether the filled-in information is correct. After a successful verification, the authorization card information will be displayed automatically.

Step 7 Select the desired function module to authorize it.

Step 8 Tap **Authorization** to complete the authorization.

Notes:

- Both the SN and password are case-sensitive.
- Tap next to **SN** and you can take a picture of the authorization card where the authorization information is displayed. The SN and password will be filled in the corresponding text box automatically.
- One authorization card can authorize only one function module at a time.

Reauthorization

You can use the authorization card to reauthorize another function module.

Step 1 After you enter the SN and password, tap **Deauthorize** to deauthorize the current function module.

Step 2 Reselect the desired function module.

One authorization card can authorize only one function module at a time.

Step 3 Tap **Authorization** to authorize the selected function module.

5 Import Project to Other Systems

5.1 Import Projects via VI Designer

After a project file is configured in VI Designer, you can import the configured file to VICP by using VI Designer.

Prerequisites

- The computer where VI Designer is installed and the tablet are on the same network segment.
- You have installed VICP on the tablet.
- You have logged into VICP.
- You have obtain the IP address of the tablet.

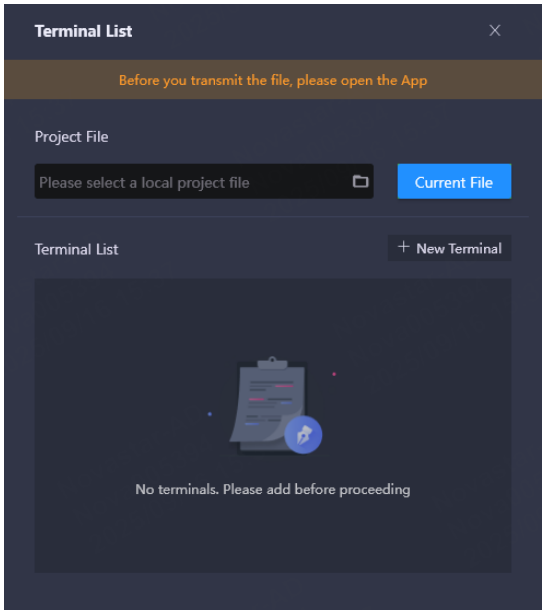
Notes

- The tablet running iOS can only be added manually.
- After the file is transmitted successfully, restart the app on the tablet.

Operating Procedure

Step 1 Go to **Project** > **Transfer Project** and the system will compress the current project file. Once the compression is completed, the terminal adding window will be displayed.

Figure 5-1 Add terminals



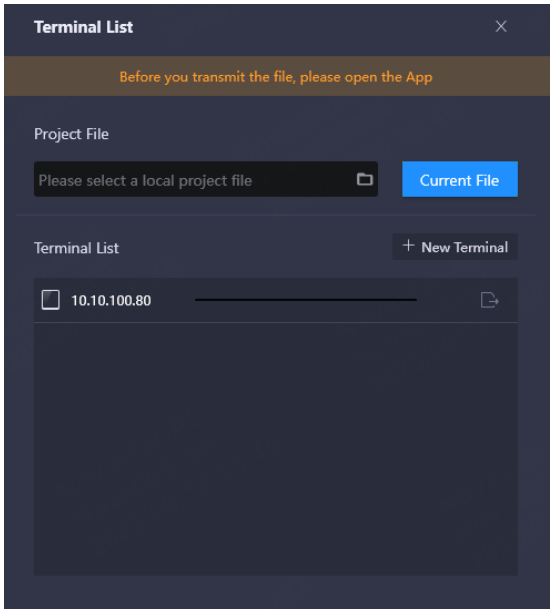
The system will automatically search for the terminals on the current network.

Step 2 Click **New Terminal** to manually add a terminal.

Step 3 Enter the IP address of the tablet.

Step 4 Click ✓ to complete the adding.

Figure 5-2 Terminal list



Step 5 Click **Current File** and the system will compress the current project file. After the compression is completed, you can transmit the project to the device.

If you need to import other project files, click next to **Current File** to select other files in the popup window. Once selected, the files will be automatically compressed.

Step 6 Click next to the desired terminal to import the current project file to the target terminal.

The system will prompt whether the file is sent successfully. If the failure occurs, click to cancel the transmission, and then click to send the project file once again.

After the file is sent, a prompt will be displayed on the receiving end. After the receiving end accepts the request, the system will transmit the file.

5.2 Import Projects to iPads

If a project file cannot be imported to iPads following the steps in 5.1 Import Projects via VI Designer, you need to manually import the edited central control project file.

Prerequisites

- You have installed VICP on your iPad.
- You have installed iTunes on your computer.

Notes

If a project file is imported to the **vct** folder in the VICP program, you should clear the project file in the **vct** folder before importing.

Operating Procedure

Step 1 Connect the iPad with your computer via a USB cable.

Step 2 Create a folder named vct on your computer and copy the folders and files (**audio** folder, **material** folder, **resource** folder and **index.vct** file) in the local **VICP Projects** folder to the created **vct** folder.

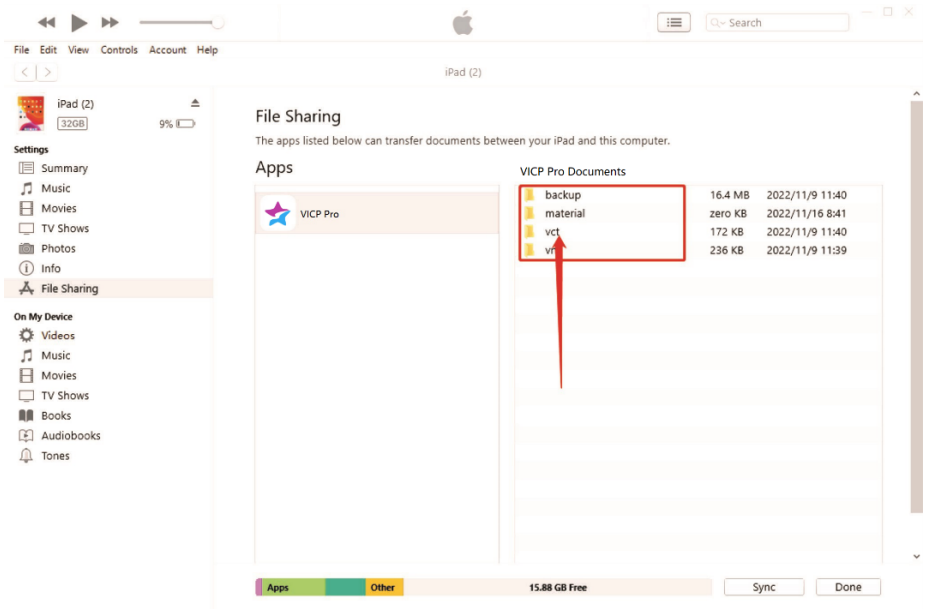
Step 3 Start iTunes on the computer.

Step 4 Go to **Settings** > **File Sharing**.

Step 5 Find **VICP** in the Apps area.

Step 6 Click the created **vct** folder and drag it to the **VICP Documents** area.

Figure 5-3 Import projects to iPads



Step 7 Go to the **Environment** interface to view the imported project files.

5.3 Import Projects to Android Systems

If a project file cannot be imported to Pads installed with Android systems following the steps in 5.1 Import Projects via VI Designer, you need to manually import the edited central control project file.

Prerequisites

You have installed VICP on your Pad.

Operating Procedure

Step 1 Go to **File Manager** > **Apps** on the Android device to enter the file manager interface.

Step 2 Go to the internal storage folder > **Android** > **data** > **com.nova.vicp** > **files** and create a new folder named **vct**.

Step 3 Connect the Android device with the computer via a USB cable.

Step 4 Copy the folders and files (**audio** folder, **material** folder, **resource** folder and **index.vct** file) in the local **VICP Projects** folder to the created vct folder.

Step 5 After the import is completed, restart VICP. Go to the **Environment** interface to view the imported project files.

5.4 Import Projects to Windows Systems

VICP supports Windows installation.

Import the edited project file to VICP installed on the computer running Windows OS.

Prerequisites

You have installed VICP on your computer running Windows OS.

Operating Procedure

Step 1 Go to **C:/Users/User/AppData/Roaming/NovaStar/VICP /** to enter the VICP folder.

Step 2 Create a new folder and name it **vct**.

Step 3 Copy the folders and files (**audio** folder, **material** folder, **resource** folder and **index.vct** file) in the local **VICP Projects** folder to the created vct folder.

Step 4 After the import is completed, restart VICP. Go to the **Environment** interface to view the imported project files.

6 Log into System

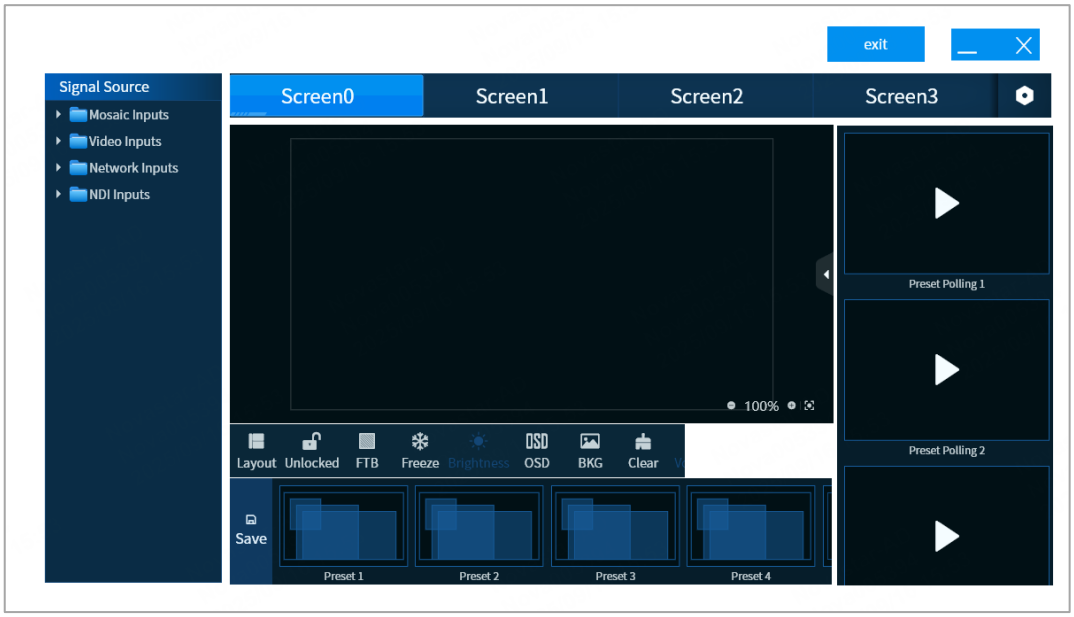
6.1 Log into Custom Devices

You have bound the device and imported the project file in VI Designer.

6.1.1 Log into Devices

If the integrated management and control system is not included in the imported project, tap **Enter System** after starting VICP to directly enter the control interface.

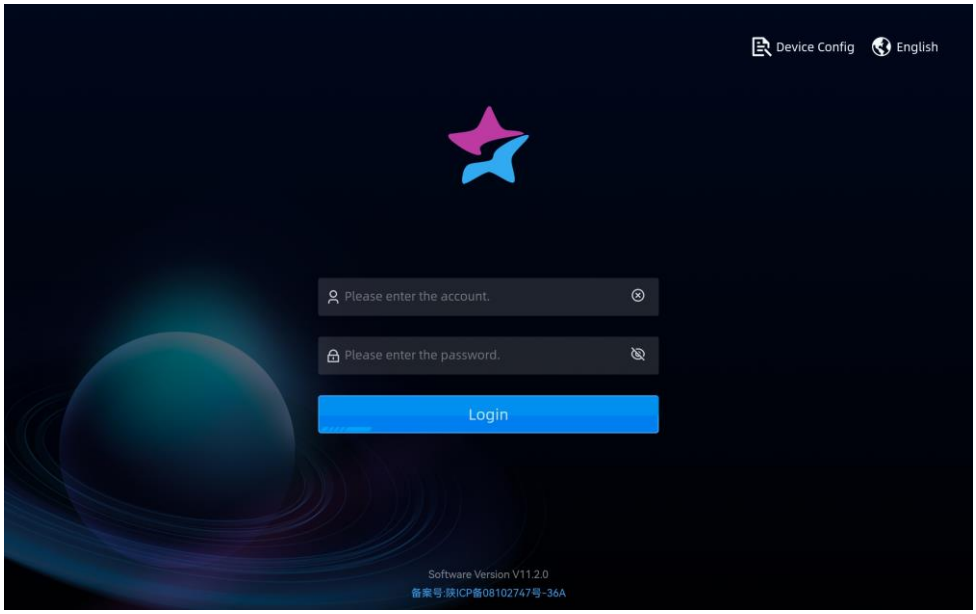
Figure 6-1 Control interface



6.1.2 Log into VIMP Server

If the integrated management and control system is included in the imported project, tap **Enter System** after starting VICP to directly enter the login interface of the system.

Figure 6-1 Log into VIMP

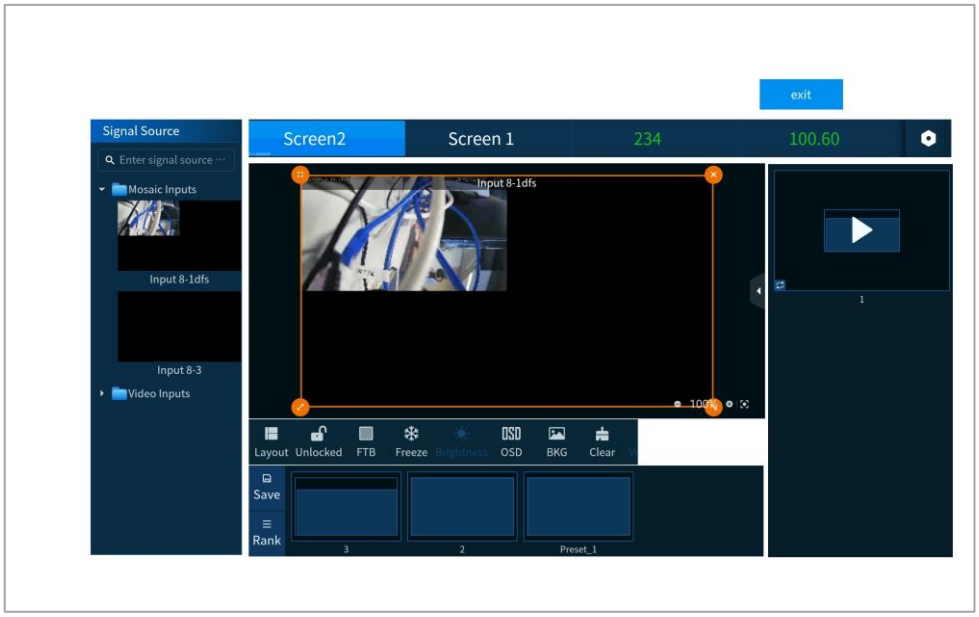


You need to configure the IP address of the integrated management and control system in VI Designer.

Enter the username (default: admin) and password (default: password123).

Tap **Login** to enter the configuration interface of VI Designer.

Figure 6-2 Control interface



6.2 Log into Standard Templates

When a standard template is imported, you need to configure the template information. After the configuration is completed, you can control and manage the added device.

You can obtain the standard template from your sales.

6.2.1 Log into Direct Control System

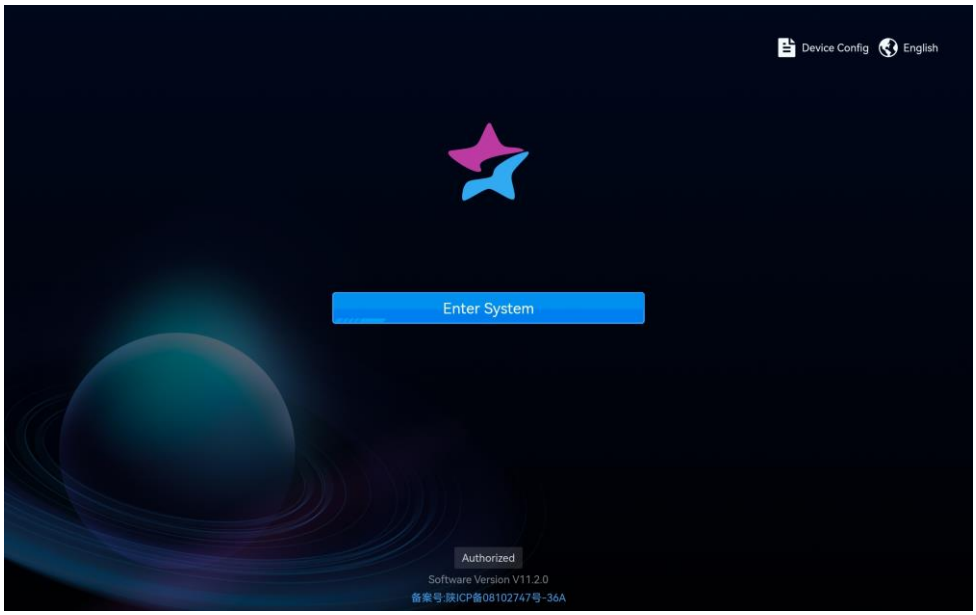
Prerequisites

You have imported the direct control template, and also obtained the IP address, username and password of the controlled device.

Operating Procedure

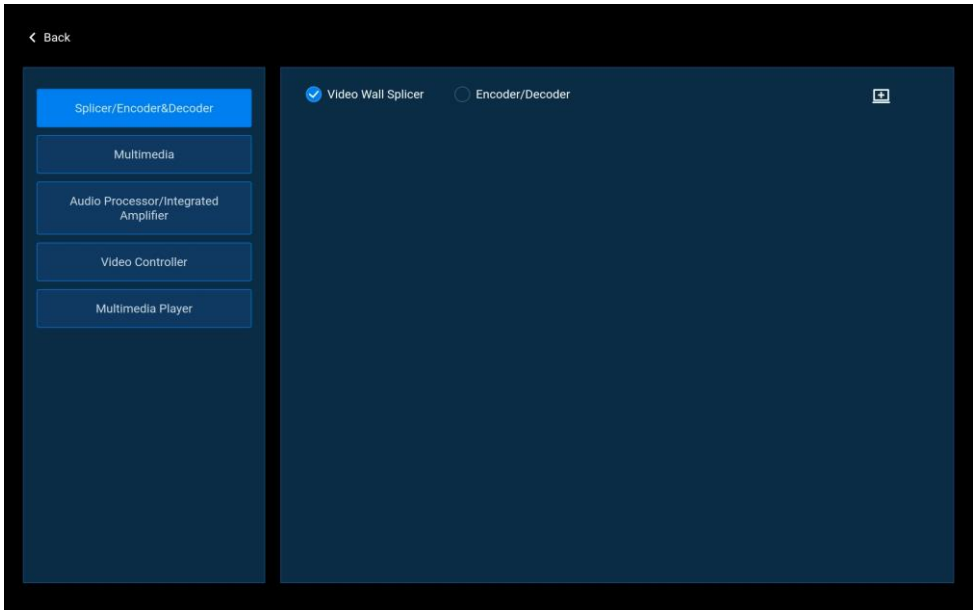
Step 1 Tap **VICP** to run the app.

Figure 6-3 VICP



Step 2 Tap **Device Config** to enter the device configuration interface.

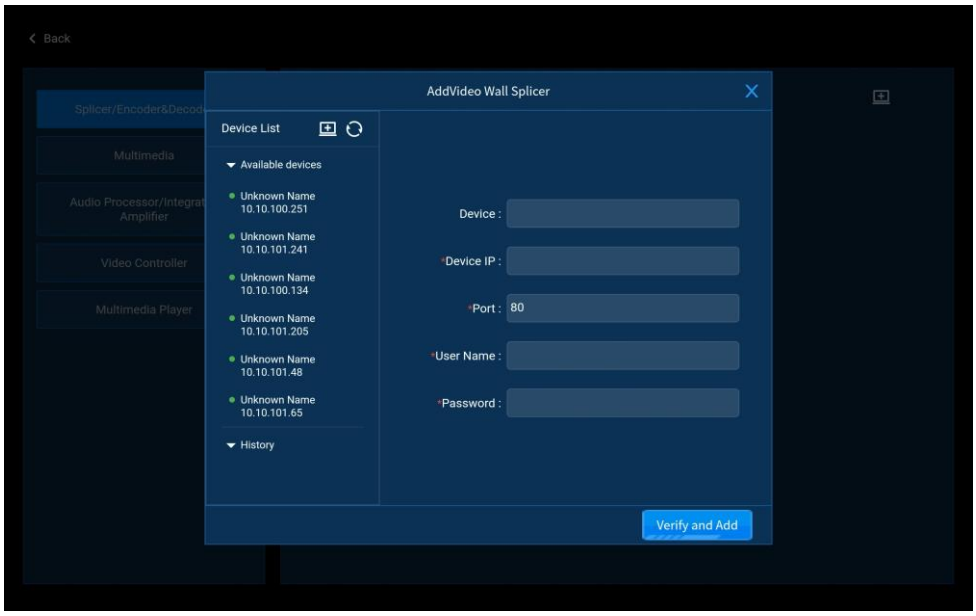
Figure 6-4 Configure devices



Step 3 Select the desired device type from the left list.

Step 4 Tap  to open the device adding window.

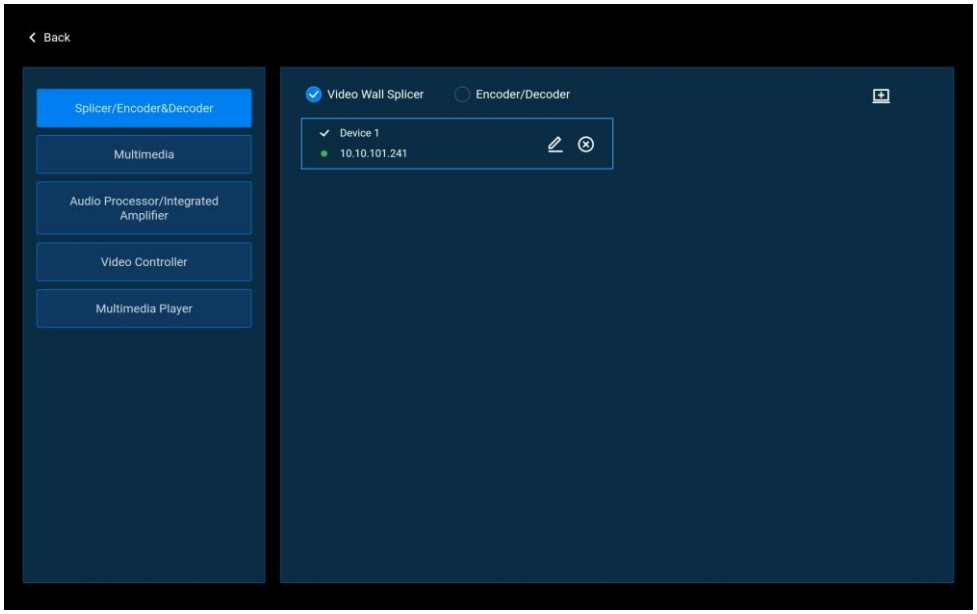
Figure 6-5 Add devices



Step 5 Enter the device information.

Step 6 Tap **Verify and Add** and the system will automatically verify the entered device information. After a successful verification, the device will be automatically added.

Figure 6-6 Device added successfully



- : Tap the icon to open the device editing window.
- : Tap the icon to delete the added device.

Step 7 Repeat Step 3 to Step 6 to add other controlled devices.

6.2.2 Log into VIMP

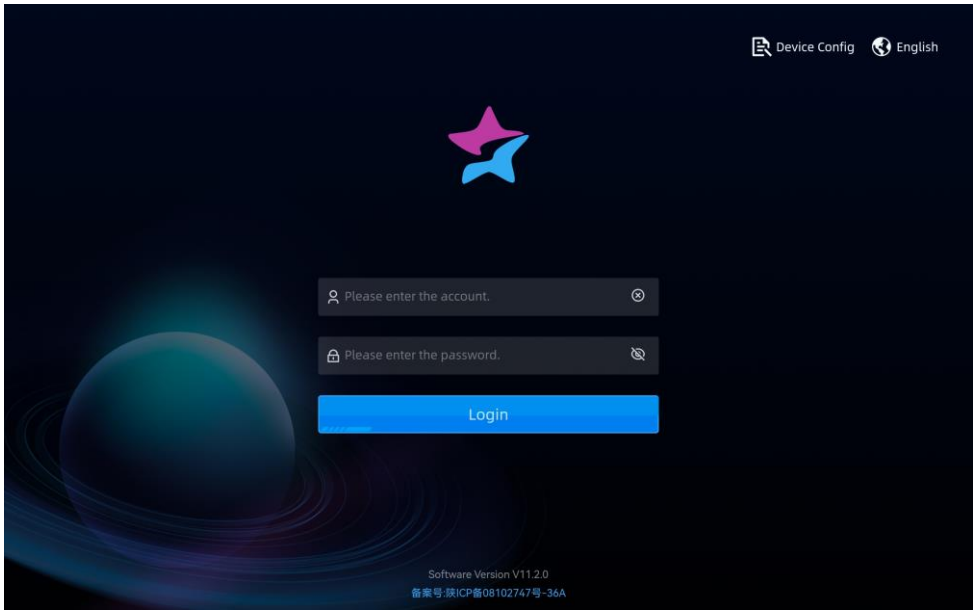
Prerequisite

- You have imported the VIMP template.
- You have obtained the IP address, username and password of VIMP.

Operating Procedure

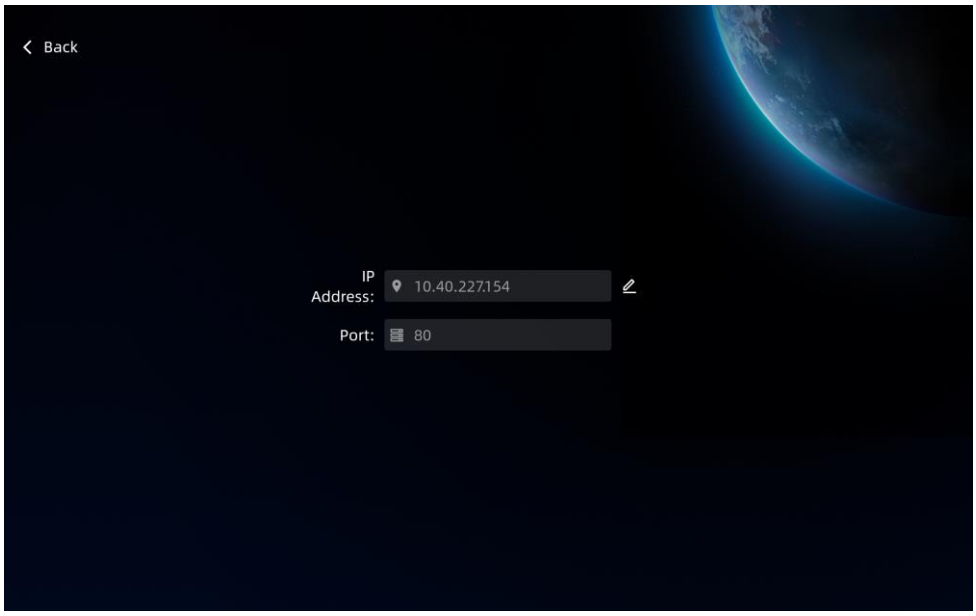
Step 1 Tap **VICP** to run the app.

Figure 6-7 VIMP



Step 2 Tap **Device Config** at the top right corner to enter the device configuration page.

Figure 6-8 Configure VIMP



Step 3 Enter the system IP address.

Step 4 Enter the system port number.

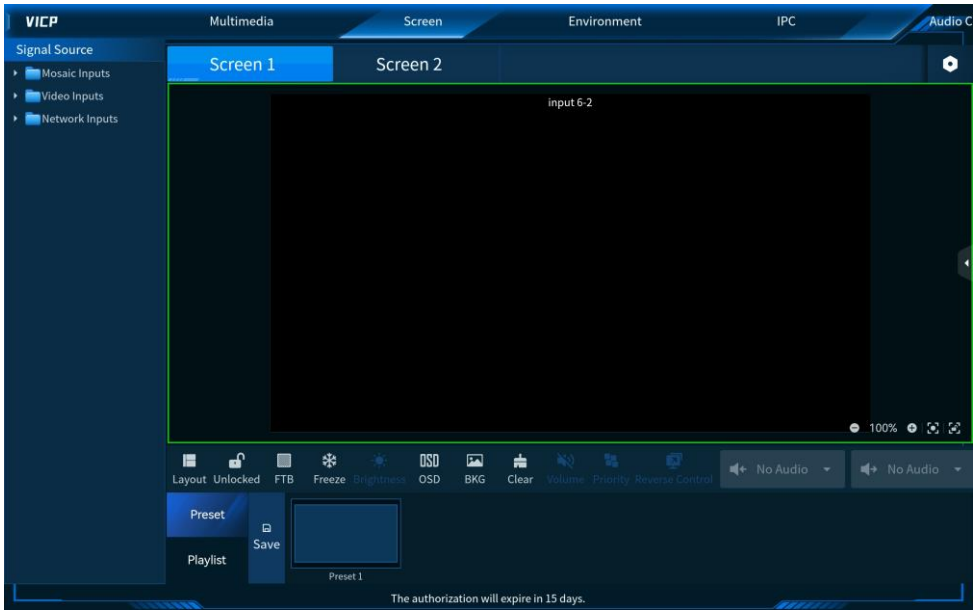
The default port number is 80.

Step 5 Tap **Return** to return to the system login interface as shown in Figure 6-8.

Step 6 Enter the username and password.

Step 7 Tap **Login** to log into the system.

Figure 6-9 Log into system



7 Function Operation Descriptions

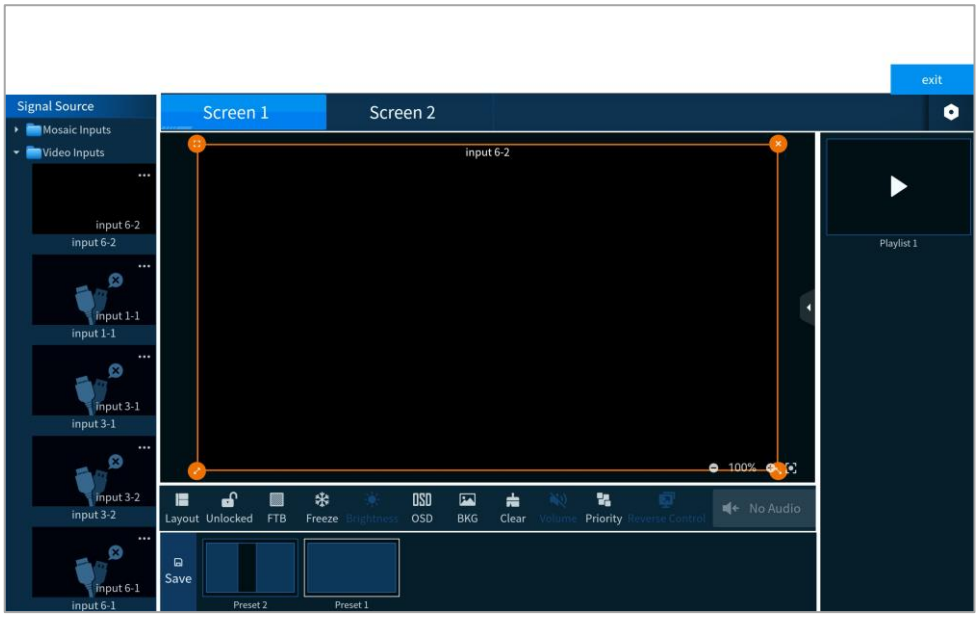
This chapter takes the control of custom devices as an example to illustrate. If you need to change the controlled device information, please change the related information in the project file. Once the project file is edited, you need to import it again.

7.1 Screen Control

Operate and control screens loaded by video wall splicers and video controllers.

This section takes the operations and control of screens loaded by video wall splicers as an example to illustrate.

Figure 7-1 Screen control interface



7.1.1 Add Layers

Tap and drag an input source in the signal list on the left and drag it to the screen to add a layer.

When you tap the layer, four function icons appear at four corners of the layer, allowing for quick adjustment.

- : Tap this icon to make the selected layer fill the screen.

- : Tap and hold the icon, and then drag it to change the layer size. The position of the top left corner of the layer remains unchanged.
- : Tap and hold the icon, and then drag it to change the layer size. The position of the top right corner of the layer remains unchanged.
- : Tap the icon to delete the layer.

Note:

Double tap the layer to make the layer fill the output connectors where it locates and crosses.

7.1.2 Adjust Layer Properties

After a layer is selected, tap « on the right edge to expand the layer properties pane.

- X: Set the initial horizontal position of the layer, that is, the horizontal offset from the top left corner of the layer to the top left corner of the screen. The unit is the pixel.
- Y: Set the initial vertical position of the layer, that is, the vertical offset from the top left corner of the layer to the top left corner of the screen. The unit is the pixel.
- Width: Set the layer size in the horizontal direction. The unit is the pixel.
- Height: Set the layer size in the vertical direction. The unit is the pixel.
- Parameter Adjustment
  - Tap ⊟ or ⊞ to increase or decrease the parameter value by one pixel at a time.
  - Enter the parameter value directly between ⊟ and ⊞.

7.1.3 Delete Layers

After you have loaded a preset or added a layer, tap the layer and four function icons appear at the corners of the layer. Tap ⊗ at the top right corner to delete the layer.

Tap 🧹 in the control area to clear all the layers on the current screen.

7.1.4 Switch Layer Input Sources

Slide the signal source list up and down, and then select the target source and drag it to the layer to switch the layer input source. The layer size remains unchanged.

7.1.5 Set Reverse Control

When the accessed signal is from your local computer, the reverse control function is supported.

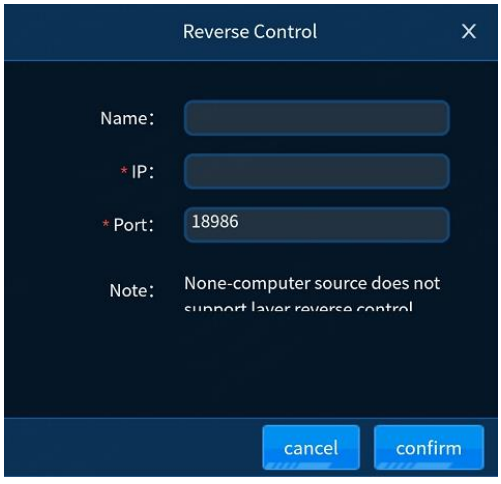
Prerequisites

The signal source must be a local signal (connected to your local device) and must come from a computer with the Windows OS installed.

Operating Procedure

Step 1 In the signal list on the left, tap ••• at the top right of a desired input source and tap **Reverse Control** to open the reverse control setting window.

Figure 7-2 Reverse control of input source



Step 2 Enter the name of the reverse control device.

Step 3 Enter the IP address of the computer where the signal source comes from. For the port No., use the default value.

Step 4 Tap **Confirm** to complete the input source configuration.

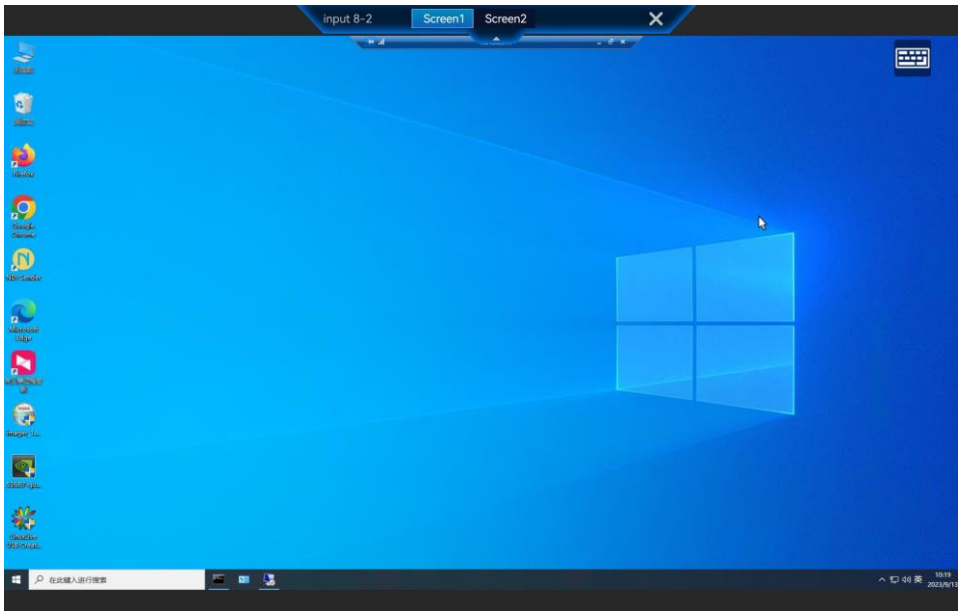
Step 5 Tap a video wall name to select the desired video wall.

Step 6 In the **Signal Source** list on the left, select the signal source that has been configured for reverse control, and then use this signal to add a layer.

Step 7 Tap the layer you have added.

Step 8 Tap **Reverse Control** in the screen control area and the system will connect to the signal source and show the desktop of your local computer. Enter the login password if required to log in to the local computer and perform the needed operations.

Figure 7-3 Reverse control



Tap **×** at the top to exit the reverse control interface.

7.1.6 Add OSDs

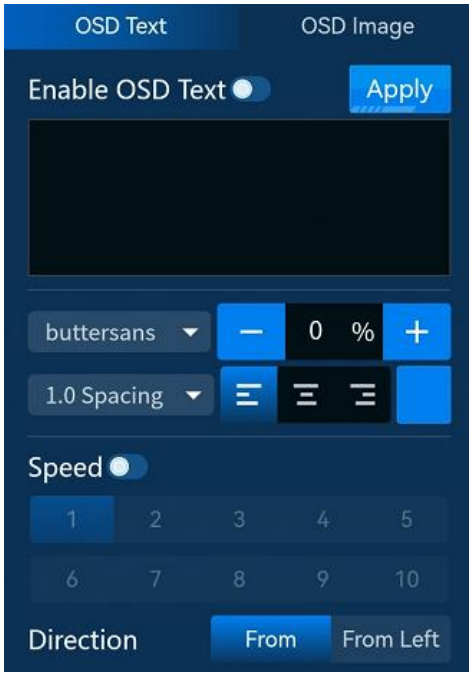
Text OSD

Step 1 Tap a video wall name to select the desired video wall.

Step 2 Tap OSD in the control area to expand the OSD settings pane.

If you do not select a layer, tap « on the right edge to expand the OSD properties pane.

Figure 7-4 OSD settings pane



Step 3 Tap the **OSD Text** tab to show the OSD text settings.

Step 4 Toggle the switch next to **Enable OSD Text** to turn on the OSD text function.

Step 5 In the text box below **Enable OSD Text**, enter the OSD text content.

Figure 7-5 OSD Text

Step 6 Set the OSD text properties.

Figure 7-6 OSD Text properties

- Set the text font.

  From the drop-down list, select the desired text font.

- Set the text size.

  Set the text size by either entering the value in the text box or tap  or  . The text size is shown in percentage that indicates the ratio of the text area height.

- Set the text spacing.

  From the drop-down list, set the spacing between two letters or characters.

- Set the color and opacity of the text OSD.
- Set the text alignment method.

  When the switch next to **Speed** is disabled, the alignment item is available. Three alignment options are provided.

  -  (Align left): Align the text content with the left margin of the OSD area.
  -  (Center): Center the text content in the OSD area.
  -  (Align right): Align the text content with the right margin of the OSD area.

Step 7 Set the OSD text scrolling speed.

Toggle the switch next to **Speed** to enable the text scrolling.

Tap the desired speed in the Speed area. The default value is 5.

Step 8 Set the OSD text scrolling direction.

The options are **From Right** (default) and **From Left**.

Step 9 Set the background color of the OSD text.

A solid color is supported.

1. Toggle the switch next to **Background Color** to turn on the background for OSD text.
2. Tap the color block icon next to **Background Color** to open a window where you can select or custom colors.
3. Select an existing color or enter the RGB values to define a custom color in the displayed window.
4. Tap and drag the slider block to set the opacity for the OSD background.

Step 10 Set the OSD position and size.

- Position
  - X: Set the horizontal distance from the top left corner of the OSD to that of the screen.
  - Y: Set the vertical distance from the top left corner of the OSD to that of the screen.
- Size
  - Width: Set the OSD area width. The value ranges from 64 to 7620 pixels.
  - Height: Set the OSD area height. The value ranges from 64 to 3240 pixels.

Step 11 Tap **Apply** at the top right corner of the OSD settings pane to complete the OSD text settings and display the OSD text on the screen.

Note:

The displayed functions may vary based on the controlled devices. For detailed operations, please refer to the user manual of the controlled device.

OSD Image

Before enabling the OSD image, you need to upload or crop the image on the device's control end.

Step 1 Tap the **OSD Image** tab to show the OSD image settings.

Step 2 Toggle the switch next to **OSD Image** to display the OSD image in VICP.

7.1.7 Add Other OSDs

When an EL series video wall splicer is added, you can add the static text OSD, dynamic text OSD, time OSD and weather OSD.

Step 1 Tap a video wall name to select the desired video wall.

Step 2 Tap OSD in the control area to expand the OSD settings pane.

If you do not select a layer, tap « on the right edge to expand the OSD properties pane.

Set Static Text OSD

Step 1 Tap  and the system will automatically create an OSD layer.

Step 2 Tap the OSD layer to expand the static text OSD settings pane.

Step 3 Enter the text OSD content.

The static text OSD supports multi-line display. You can press **Enter** on the keyboard to have line breaks.

Step 4 Set the text properties.

- : Select the desired text font from the drop-down list.
- : Set the font size. The value ranges from 8 to 512 px and it defaults to 100 px.
- : Make the text bold or not.
- : Italicize the text or not.
- : Underline the text or not.
- : Set the spacing between characters. The value ranges from 0 to 1000 px and it defaults to 0 px.
- : Set the spacing between rows. This parameter is available when there are multiple rows. The value ranges from 0 to 1000 px and it defaults to 0 px.
- : Align the text content with the left margin of the OSD area.
- : Center the text content in the OSD area.
- : Align the text content with the right margin of the OSD area.
- : Align the text to the top of the display area.
- : Center the text vertically to the display area.
- : Align the text to the bottom of the display area.
- : Horizontally display the text.
- : Vertically display the text.
- Position and Size: Set the position and size of the OSD area.
  - X: Set the horizontal distance from the top left corner of the OSD area to that of the OSD layer.
  - Y: Set the vertical distance from the top left corner of the OSD area to that of the OSD layer.

- W: Set the OSD area width.
- H: Set the OSD area height.

Step 5 Set the OSD common properties.

- Color: Click the color block icon to open a window where you can select the desired color or customize your own color. Drag the slider or enter a value in the text box to adjust the opacity. The opacity ranges from 0% (totally transparent) to 100% (nontransparent).
- Set the OSD background color.

a. Check the box next to **Enable BKG Color** to turn on the background for OSD text.

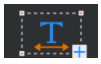
b. Tap the color block icon to open a window where you can select the desired color or customize your own color

c. Set the opacity for the OSD background.

- Position and Size: Set the position and size of the OSD layer, that is, the position and size of the OSD layer displayed on the screen.
  - X: Set the horizontal distance from the top left corner of the OSD layer to that of the screen.
  - Y: Set the vertical distance from the top left corner of the OSD layer to that of the screen.
  - W: Set the OSD layer width.
  - H: Set the OSD layer height.

Step 6 Click **Apply** at the top right corner of the OSD settings pane to complete the static text OSD settings and display the static text OSD on the screen.

Set Dynamic Text OSD

Step 1 Tap  and the system will automatically create an OSD layer.

Step 2 Tap the OSD layer to expand the dynamic text OSD settings pane.

Step 3 Enter the text OSD content.

The dynamic text OSD supports single-line display only. When there is a line break in the OSD text area, the system will automatically display it as one line.

Step 4 Set the text properties.

- : Select the desired text font from the drop-down list.
- : Make the text bold or not.
- : Italicize the text or not.
- : Underline the text or not.
- : Set the font size. The value ranges from 8 to 512 px and it defaults to 100 px.
- : Set the spacing between characters. The value ranges from 0 to 1000 px and it defaults to 0 px.
- : Align the text content with the left margin of the OSD area.

  When the switch next to Speed is disabled, the alignment item is available.
- : Center the text content in the OSD area.

  When the switch next to Speed is disabled, the alignment item is available.
- : Align the text content with the right margin of the OSD area.

  When the switch next to Speed is disabled, the alignment item is available.

Step 5 Set the text OSD scrolling speed and direction.

- Speed: Tap the desired speed in the **Speed** area. The value ranges from 0 (static) to 10 (fastest).
- From right: The text scrolls from right to left in the OSD display area.
- From left: The text scrolls from left to right in the OSD display area.

Step 6 Set the OSD common properties.

- Color: Click the color block icon to open a window where you can select the desired color or customize your own color. Drag the slider or enter a value in the text box to adjust the opacity. The opacity ranges from 0% (totally transparent) to 100% (nontransparent).
- Set the OSD background color.
  a. Check the box next to **Enable BKG Color** to turn on the background for OSD text.
  b. Tap the color block icon to open a window where you can select the desired color or customize your own color
  c. Set the opacity for the OSD background.

- Position and Size: Set the position and size of the OSD layer, that is, the position and size of the OSD layer displayed on the screen.
  - X: Set the horizontal distance from the top left corner of the OSD layer to that of the screen.
  - Y: Set the vertical distance from the top left corner of the OSD layer to that of the screen.
  - W: Set the OSD layer width.
  - H: Set the OSD layer height.

Step 7 Click **Apply** at the top right corner of the OSD settings pane to complete the dynamic text OSD settings and display the dynamic text OSD on the screen.

Set Time OSD

Step 1 Tap  and the system will automatically create a time OSD layer.

Step 2 Tap the OSD layer to expand the time OSD settings pane.

Step 3 In the **Time Zone Settings** area, set the time zone for the screen or time offset to ensure a precise time.

- Time Zone: Select the time zone from the drop-down list.
- Time Offset: Set the time offset value. The value ranges from -2 to +2 (unit: hour).
- Spacing: Set the spacing between the date, day of the week and time in **Single Line** display mode or set the spacing between rows in **Multi-Line** display mode.
- Display Mode: Set the display mode of the time OSD.
  - Single Line: Display the date, day of the week and time in single-line.
  - Multi-Line: Display each item in single-line.

Step 4 In the **Date Settings** area, set the content to be displayed in the time OSD.

Toggle the switch next to **Date Settings** to display the date and set relevant parameters.

- Date: Set the date format.
  - Year Format: Set the year format. The supported options include YYYY (four-digit year) and YY (two-digit year).
  - Date Format: Set the date format.
- Week: Toggle the switch next to **Week** to display or hide the week.

Step 5 In the **Time Settings** area, set the following parameters.

Time: Set the specified time and time format.

- AM/PM: Set whether to display AM or PM.
  - Display: Display the time with AM or PM in 12-hour format.
  - Hide: Display the time without AM or PM in 24-hour format.
- Time Format: Set the time format.

Step 6 In the **Font Settings** area, set the text properties.

- : Select the desired text font from the drop-down list.
- : Make the text bold or not.
- : Italicize the text or not.
- : Underline the text or not.
- : Set the font size. The value ranges from 8 to 512 px and it defaults to 100 px.
- : Set the spacing between characters. The value ranges from 0 to 1000 px and it defaults to 0 px.
- : Set the spacing between rows. This parameter is available when there are multiple rows. The value ranges from 0 to 1000 px and it defaults to 0 px.
- : Align the text content with the left margin of the OSD area.
- : Center the text content in the OSD area.
- : Align the text content with the right margin of the OSD area.
- Position and Size: Set the position and size of the OSD area.
  - X: Set the horizontal distance from the top left corner of the OSD area to that of the OSD layer.
  - Y: Set the vertical distance from the top left corner of the OSD area to that of the OSD layer.
  - W: Set the OSD area width.
  - H: Set the OSD area height.

Step 7 Click **Apply** at the top right corner of the OSD settings pane to complete the time OSD settings and display the time OSD on the screen.

Set Weather OSD

Step 1 Tap  and the system will automatically create a weather OSD layer.

Step 2 Tap the OSD layer to expand the weather OSD settings pane.

Step 3 In the **Weather Settings** area, set the location for the current screen, refresh interval and display mode for the weather information.

- Location: Click to open the map window, where you can select the desired location or enter the address. Click **OK** to complete the settings.
- Refresh: Set the automatic refresh interval for the weather information. The value ranges from 1 to 1440 minutes and it defaults to 10 minutes.
- Spacing: Set the spacing between each selected content in **Single Line** display mode or set the spacing between rows in **Multi-Line** display mode.
- Display Mode: Set the display mode of the weather OSD.
  - Single Line: Display all items in single-line.
  - Multi-Line: Display each item in single-line.
- Temperature Unit: Set the temperature unit. The supported options include ℃ and ℉.

Step 4 Set the content to be displayed in the weather OSD.

Check the box next to the desired content to display it in the weather OSD. You can also click **Custom Tab** to edit the default display content.

Step 5 In the **Font Settings** area, set the text properties.

- : Select the desired text font from the drop-down list.
- B: Make the text bold or not.
- I: Italicize the text or not.
- U: Underline the text or not.
- : Set the font size. The value ranges from 8 to 512 px and it defaults to 100 px.
- VA: Set the spacing between characters. The value ranges from 0 to 1000 px and it defaults to 0 px.

- : Set the spacing between rows. This parameter is available when there are multiple rows. The value ranges from 0 to 1000 px and it defaults to 0 px.
- : Align the text content with the left margin of the OSD area.
- : Center the text content in the OSD area.
- : Align the text content with the right margin of the OSD area.
- Position and Size: Set the position and size of the OSD area.
  - X: Set the horizontal distance from the top left corner of the OSD area to that of the OSD layer.
  - Y: Set the vertical distance from the top left corner of the OSD area to that of the OSD layer.
  - W: Set the OSD area width.
  - H: Set the OSD area height.

Step 6 Set the OSD common properties.

- Color: Click the color block icon to open a window where you can select the desired color or customize your own color. Drag the slider or enter a value in the text box to adjust the opacity. The opacity ranges from 0% (totally transparent) to 100% (nontransparent).
- Set the OSD background color.
  a. Check the box next to **Enable BKG Color** to turn on the background for OSD text.
  b. Click the color block icon to open a window where you can select the desired color or customize your own color
  c. Set the opacity for the OSD background.
- Position and Size: Set the position and size of the OSD layer, that is, the position and size of the OSD layer displayed on the screen.
  - X: Set the horizontal distance from the top left corner of the OSD layer to that of the screen.
  - Y: Set the vertical distance from the top left corner of the OSD layer to that of the screen.
  - W: Set the OSD layer width.
  - H: Set the OSD layer height.

Step 7 Click **Apply** at the top right corner of the OSD settings pane to complete the weather OSD settings and display the weather OSD on the screen.

Delete OSDs

Step 1 Tap a video wall name to select the desired video wall.

Step 2 Tap OSD in the control area to expand the OSD settings pane.

Step 3 Tap **Clear** to clear all OSDs.

Step 4 Tap **Apply** to complete the deletion.

7.1.8 Preset Operations

7.1.8.1 Save Presets

After the layer settings, you can save the current layer layout and settings as a preset for future use.

Tap and hold the desired empty preset and select **Save** in the popup menu to save the current layer layout as a preset.

Overwrite Presets

Tap and hold the desired preset and select **Overwrite** in the popup menu to replace the selected preset with a new one.

Rename Presets

Tap and hold the desired preset and select **Rename** in the popup menu. Enter a new name for the selected preset.

Delete Presets

Tap and hold the desire preset and select **Delete** in the popup menu to clear the layer information saved in the preset.

Load Presets

Step 1 On the **Screen** interface, tap the desired screen to enter the corresponding screen control interface.

Step 2 Tap the desired preset to load it.

Note:

After a preset is loaded, you can select a layer and change its size and position, or switch the layer input source by tapping and dragging the desired source to the layer. All the changes you have made will not be saved to the preset.

7.1.8.2 Preset Playback

Prerequisites

You have added a preset playlist playback on the Web control page.

Operating Procedure

Step 1 On the **Screen** interface, tap the desired screen to enter the corresponding screen control interface.

Step 2 Tap **Schedule** to show the preset playback list.

Step 3 Tap ▶ on a preset playlist to play it.

During the playback, the screen is locked automatically and no operations are allowed. Tap ⏸ to stop the playback and then you can perform other operations.

7.1.9 Screen Control

- Priority:
  - Top: Bring the selected layer to the top.
  - Bottom: Send the selected layer to the bottom.
  - Up: Bring the selected layer one level up.
  - Down: Send the selected layer one level down.

- : Quickly add and arrange the layers with the selected layout.
- : Tap to lock the current screen layers. When locked, the screen layers cannot be edited and changed.
- : Tap to unlock the layers on the screen.
- : Make the screen fade to black.
- : Turn off the fade to black setting.
- : Freeze the output image.
- : Unfreeze the output image.
- : Adjust the output image brightness of the LED screen.
- : Clear all the layers on the current screen.
- Volume: Adjust the layer output volume.

  If the H_2xAudio input+2xAudio output card is installed on an H series device, you can set the input and output audio.
- Reverse Control: When the signal source is from your local computer, control the computer where the signal comes from.
- Take: When **Pre-Edit** is selected, tap **Take** after the layer editing is completed to send the layer images to the screen.

7.2 Multimedia

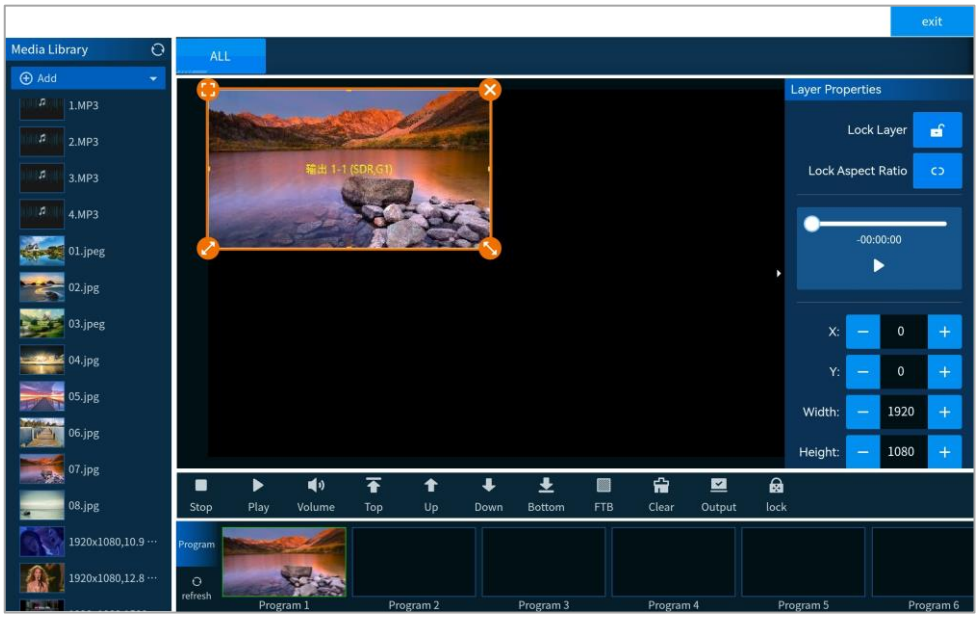
You can edit the programs saved in the media server and control playback.

Prerequisites

- The multimedia playback software that is built in the media server runs normally and the port listening is enabled.

  For how to enable the port listening, please refer to the user manual of the multimedia playback software.
- You have configured the output area and imported the media files to the multimedia playback software.
- You have added the online media server in VIMP.

Figure 7-7 Media server control

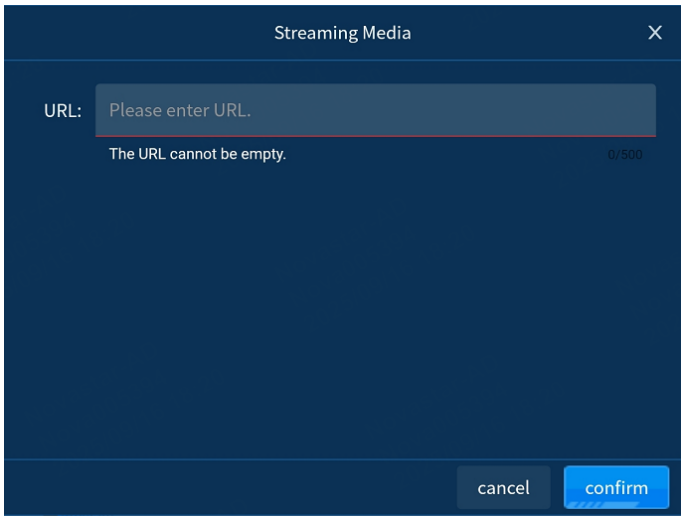


7.2.1 Add Media

7.2.1.1 Add Streaming Media

Step 1 Under **Media Library** area, tap **Add Media** to open the window for adding streaming media.

Figure 7-8 Add streaming media



Step 2 Enter the media URL address in the URL field.

The path must begin with "rtsp://", "rtmp://", "http://" or "https://".

Step 3 Tap **Confirm** once you are done.

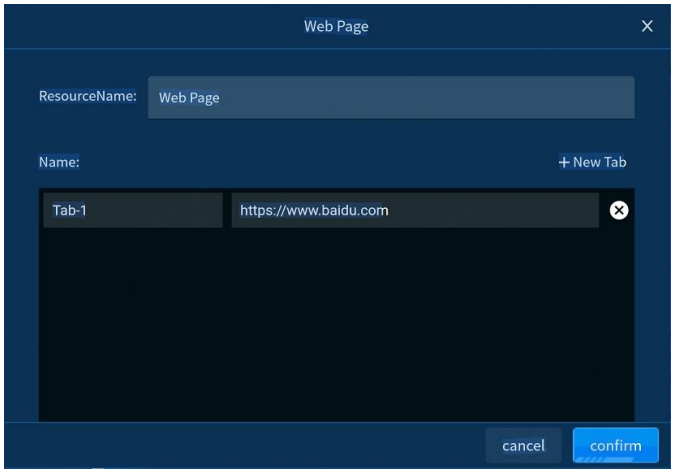
The system will automatically use the streaming media URL as the default media name. However, you can easily change the name within the **Media Library** section of the multimedia playback control software.

7.2.1.2 Add Website Pages

Step 1 In the **Media Library** area, tap **Add Media** to open the window for adding streaming media.

Step 2 Tap **Website** on the left to enter the interface for adding website pages.

Figure 7-9 Add website pages



Step 3 Enter the name of the website in the **Resource Name** field.

Step 4 Enter the tab name in the left text box below **Website URL**.

Step 5 Enter the website URL in the right text box below **Website URL**.

Step 6 [Optional] Tap **Add Tab** to add more tab pages.

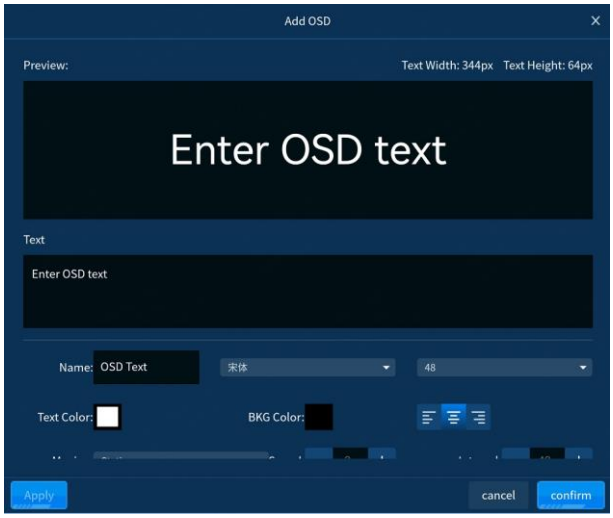
Step 7 Tap **Confirm** once you are done.

If the added webpage media has multiple tab pages, you need to change the playback tab in the multimedia playback control software after you add the media to the program.

7.2.1.3 Add OSD

Step 1 In the **Media Library** area, go to **Add** > **OSD** to enter the OSD adding interface.

Figure 7-10 Add OSD



Step 2 Enter the desired content in the **Text** area.

Step 3 Enter a name next to **Name**.

- Select the desired font from the drop-down list.
- Select the desired font size from the drop-down list.

Step 4 Tap the color block next to **Text Color** to set the font color.

Step 5 Tap the color block next to **BKG Color** to set the display area color.

Step 6 Set the text display position.

When you set the moving effect to **Static**, you can set the text display position.

- : Align the text to the left.
- : Center the text horizontally.
- : Align the text to the right.

Step 7 Set the moving effect.

- Static: The text is displayed statically.
- From Left: The text scrolls from left to right.
- From Right: The text scrolls from right to left.

Step 8 Set the moving speed.

The value ranges from 0 (static) to 10.

Step 9 Set the interval from the end character of the previous scrolling to the start character of the next scrolling.

Step 10 Set the display area information.

1. Deselect the box next to **Adaptive**.
2. Set the display area width.
3. Set the display area height.

7.2.2 Add Layers

Step 1 In the **Program** area, tap the desired program.

Step 2 In the **Media Library** area, select the desired media file by sliding up or down the media list.

Step 3 Tap and hold the media and then drag it to the stage area to add or switch the media for the target layer.

7.2.3 Edit Layer Properties

The layer properties include the layer size, position, priority and playback.

Quick Editing

In the stage area, tap the target layer. After a layer is selected, four quick operation buttons appear at four corners of the layer.

- : Tap the icon to make the layer fill the output connector.
- : Tap and hold the icon, and then drag it to change the layer size. The position of the top left corner of the layer remains unchanged.
- : Tap and hold the icon, and then drag it to change the layer size. The position of the top right corner of the layer remains unchanged.
- : Tap the icon to delete the layer.
- Tap and hold the layer, and then drag it to quickly adjust its position.

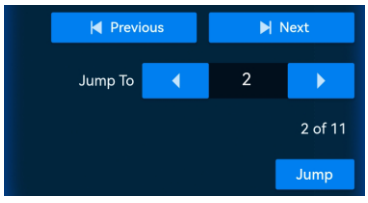
Precise Editing

In the stage area, tap the desired layer and then tap « on the right edge to expand the layer properties pane.

- Lock: Once the layer is locked, you will no longer be able to control playback, adjust its size, volume, or change the layer order in the **Layer Properties** section.
- Playback control
  - Tap ▶ or ⏸ to play the media or pause the media playback.
  - Drag the slider block to control the playback progress.
- Position and size adjustment

  Adjust the position and size of the layer by either tapping + or − for fine adjustments or directly entering the exact values in the text boxes.
  - X: Adjust the initial horizontal position of the layer.
  - Y: Adjust the initial vertical position of the layer.
  - Width: Adjust the layer width.
  - Height: Adjust the layer height.
  - Rotate: Rotate the layer image clockwise with the layer center as the rotation point. The value range is 0–360.
- Volume control
  - 🔊: Turn on the layer sound, and adjust the volume by either tapping **+/-** or dragging the slider block.
  - 🔇: Turn off the layer sound.
- Lock aspect ratio

  Select whether to lock the aspect ratio of the selected layer during the adjustment.
- Playback control over PowerPoint files



  - Previous: Tap the icon to view the previous page.
  - Next: Tap the icon to view the next page.

- Jump: Enter a page number in the text box and tap **Jump** to jump to the specified page.

7.2.4 Delete Layers

Step 1 In the **Program** area, tap the desired program.

Step 2 Tap the target layer.

Step 3 Tap  at the top right of the layer to delete it.

7.2.5 Switch Layer Media

Step 1 In the **Program** area, tap the target program.

Step 2 In the **Media Library** area, select the desired media file by sliding up or down the media list.

Step 3 Tap and hold the media and then drag it to the center of the target layer to replace the existing media.

7.2.6 Play Programs

In the **Program** area, tap the desired program to play and switch it.

7.2.7 Playback Control

In the **Program** area, double tap the desired program to play and control it.

- Stop: Stop the program playback.
- Play: Play the selected program.
- Suspend: Pause the program playback.
- Volume: Tap the icon to show the volume adjustment bar and then drag the slider block to adjust the volume.
- Top: Bring the layer to the front.

- Up: Move the layer one level up.
- Down: Move the layer one level down.
- Bottom: Send the layer to the back.
- Clear: Clear all layers in the current program.
- Output: Enable or disable the media server outputs.

7.3 Audio Control

Adjust the system audio info, including the input and output volume as well as the audio matrix correspondence settings.

Figure 7-11 Audio control

7.3.1 Adjust Audio Volume

Move the slider block up or down to increase or decrease the audio volume.

Toggle the switch next to **Mute** in the **Input** or **Output** area to make the inputs or outputs no sound.

7.3.2 Load Presets

Load a preset to quickly adjust the output audio.

Prerequisites

You have saved the preset to the audio processor.

Operating Procedure

Step 1 Tap **Audio Control** to enter the audio control interface.

Step 2 Tap the **Preset** tab to enter the audio preset interface.

Step 3 In the preset list, tap the desired preset to load it.

7.3.3 Configure Audio Matrix

Configure the correspondence relations between the input and output audio connectors.

On the **Matrix** interface, double tap the matrix cells to relate or unrelate the inputs with the outputs.

Tap  at the top right to delete all the relations.

7.4 Signage

VICP allows you to perform the playback control over the following multimedia players on the current network segment.

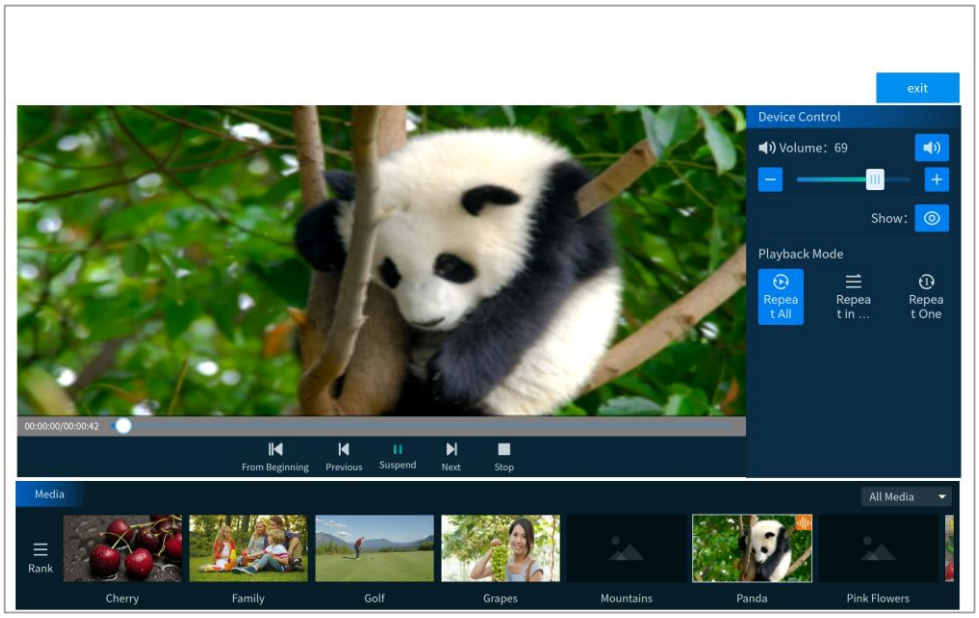
- Multimedia player: TB30, TB40, TB50, TB60, LCB 4K, NS2K-40H, EMP200-40H
- LED playback control processor: TU15 Pro, TU20 Pro, SMP4 Pro, SMP6 Pro, TU40 Pro
- Kompass FX0

Prerequisites

- The multimedia player or Kompass FX0 and VICP are on the same network segment.
- You have published the programs and made the program schedules via the multimedia player.

- You have obtained the user name and password for logging into the multimedia player and LED playback control processor. The default user name is "admin". For the default password, please refer to the SSID label on the device or the matched quick start guide.
- You have added Kompass FX0 in VIMP.

Figure 7-12 Signage



Control Playback

Use the icons at the bottom of the playback area to control the program playback.

- Play: Play the program.
- Pause: Pause the program playback.
- Stop: Stop the program playback.
- From Beginning: Play the first program in the media library.
- Previous: Play the previous program.
- Next: Play the next program.

Other Control Operations

- Volume: Adjust the media volume.
  - In the **Volume** area, drag the slider block or tap ⊞/⊟ to adjust the output volume.

- Tap  / to mute or unmute the media.

- If the controlled device is an LED playback control processor or Kompass FX0, you can search for the desired media according to the media type.

  Tap the **Media** tab to display the media list. Tap **All Media** and select the desired media from the drop-down list, and the media of the selected type will be displayed. Tap **Internal Source** to view the imported media or external media.

7.5 Reverse Control

Prerequisites

- You have configured the device to be reversely controlled in VI Designer.
- The input source PC must have the program package installed. The installed program is shown as **KVM**.

  The program package can be downloaded on the help page of VIMP. Before enabling the reverse control, you need to double click **KVM** on the input source PC to restart the remote control service.
- The input source PC and VIMP are on the same network.

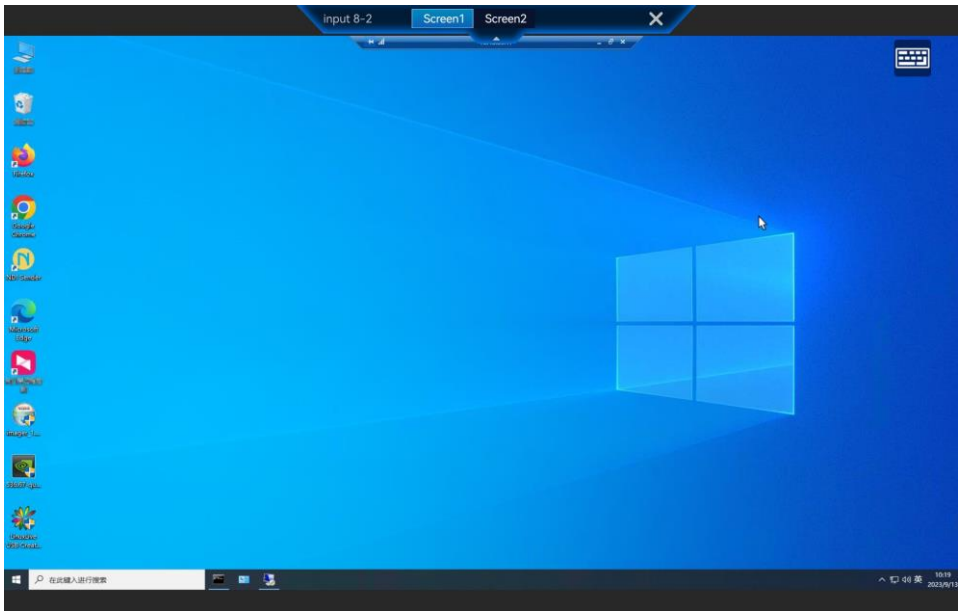
Figure 7-13 Reverse control

Operating Procedure

Step 1 On the **Reverse Control** interface, tap the desired device.

The system will automatically connect the device based on the configured device information. After successful connection, the desktop of the input source PC will be displayed.

Figure 7-14 Desktop of the input source PC



Step 2 Tap the screen name at the top to switch to the desired signal screen.

Step 3 Tap ✕ at the top to exit the reverse control interface.

After you set the reverse control, if the input source PC is configured with two or more screens, you can tap the screen name at the top to switch to the desired screen.

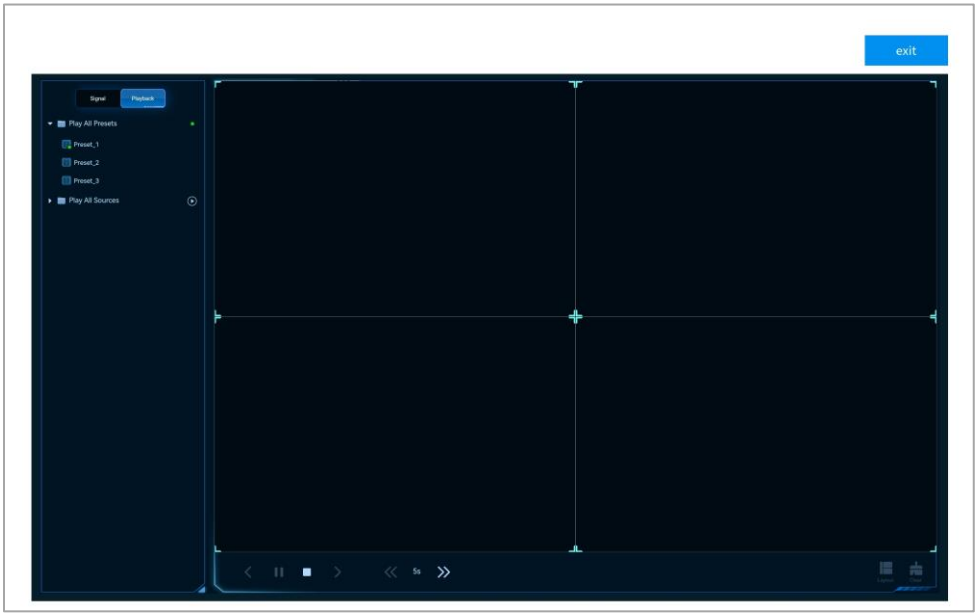
7.6 IPC Management

7.6.1 View Monitoring Images

Set the monitoring images of the IP camera to view the situation of the monitoring area at any time.

You need to add the network sources on the signal source management page in VIMP.

Figure 7-15 IPC management



Tap **Layout** at the bottom right to select a layout.

After the layout setting is completed, the signal images will be added automatically to the layout area.

Other Operations

- Change the signal source.

  Tap and drag the desired signal in the signal list on the left to the target area to replace the current signal.

- Maximize or restore the image.

  Tap the desired image and tap  at the top right to display the image in full screen. Tap  to restore the image area to the original size.

- Delete the signal source.

Tap the desired image and tap  at the top right to delete the signal.

- Clear the signal sources.

  Tap  at the bottom right to clear all the signals.

Control Cameras

Adjust the camera shooting angle, lens zoom, focus and aperture via the PTZ control function. It is recommended to save the configuration data to a pattern for easy use in the future.

You can control the camera using the ONVIF protocol.

Tap the image and tap  at the top right to open the camera control interface.

- Tap  or  next to **Speed** to adjust the automatic rotation speed of the pan or tilt.

  The higher the value, the higher the adjustment speed of the angle, zoom, focus and aperture.
- Tap four buttons on  or directly drag the image to adjust the camera shooting angle
- Tap  or  to adjust the lens zoom, focus and aperture.

  For the function that is not supported, the adjustment button is shown in gray.
- Tap **Save to Pattern** and select the desired pattern to save your settings as a pattern.

  Four patterns are provided in total and cannot be deleted. If you need to edit a pattern, you can adjust the parameters and then overwrite it.

7.6.2 Set Signal Source Playbacks

Three playback options are provided.

- Play all the signal source presets
- Play the custom preset playback group
- Play all the network sources

Prerequisites

- To play the signal source presets, you need to create the custom presets in advance in VIMP.
- To play the custom preset playback group, you need to create the custom presets and playback group in advance in VIMP.
- You have configure the network sources in VIMP.

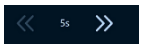
Operating Procedure

Step 1 Tap the **Playback** tab to enter the playback interface.

Step 2 Tap  next to the desired playback type to enable the playback.

-  : The preset playback is enabled.
-  : The preset is to be played.
-  : The preset is being played.

Step 3 Set the interval for the preset playback.

Tap  at the bottom right to select the desired duration in the popup list.

Tap  or  to switch the configured playback duration.

Step 4 Control the playback.

After the playback is enabled, you can pause or stop the playback and play the previous or next preset.

-  : Play the previous preset or signal source.
-  : Pause the playback.
-  : Stop the playback.
-  : Play the next preset or signal source.

7.6.3 Control PTZ

The PTZ control function allows you to view the camera images and remotely control the IP cameras within a monitoring system, including adjusting the lens zoom (ZOOM), focus (FOCUS), aperture (IRIS) and performing the camera pan/tilt operations.

You can control the IP camera using the ONVIF protocol only.

Before performing related operation, you need to configure the IP camera in VI Designer.

Figure 7-16 IPC management

Add IPC

Step 1 Tap + on the left to open the IPC adding window.

Figure 7-17 Add IPC

- Name: The IPC name must contain at most 20 English letters, numbers and special characters.

  It is recommended to use a name that is easy to identify, so that the camera can be quickly distinguished by the name in the future.
- IP: Enter the IP address of the camera.
- Port: Enter the port number of the camera. The default port is 80.
- User Name: Enter the user name for the login.
- Password: Enter the password matched with the entered user name.

Step 2 After all the blanks are filled, tap **Confirm** and the system will automatically connect and add the camera.

After the camera is added successfully, it appears in the IPC list on the left.

Control IPC

Step 1 Select the desired camera in the camera list.

The system interface displays the images captured by the current camera in real time.

Step 2 The camera control buttons are provided below the camera image. Tap the desired button to control the camera.

-  : Adjust the camera shooting angle by tapping four buttons.
- Zoom: Adjust the focal length of the camera to obtain a clearer image.
  -  : Zoom in the camera lens and the scene.
  -  : Zoom out the camera lens and the scene.
- Focus: Set the camera focus to obtain a precise focus position to calibrate the focal length to ensure a clearer image.
  -  : The nearby objects become clear and the distant ones gradually become blurred.
  -  : The distant objects become clear and the nearby ones gradually become blurred.
- Aperture: Adjust the amount of light transmitted in the lens. If the aperture is too large, it will cause overexposure; if it is too small, it will cause underexposure.
  -  : Decrease the aperture.
  -  : Increase the aperture.
- Speed: Adjust the automatic rotation speed of the pan or tilt.
  -  : Decrease the speed.
  -  : Increase the speed.

Step 3 (Optional) Tap **Save to Pattern** and select the desired pattern to save your settings as a pattern for easy use in the future.

Edit IPC

When the IPC parameters change, such as the camera IP, port, user name or password, the camera parameters need to be updated in time to ensure the correct control.

Tap **...** next to the desired camera name and then select **Edit** to open the camera editing window.

Figure 7-18 Edit IPC

Change the parameters as needed and tap **Confirm** to complete the editing.