ViPlex Express

User Manual

Contents

1 Software Description

ViPlex Express is a content publishing and management system designed for screens and installed on Windows PCs. It allows you to create playlists and display them on LCD or LED screens. In async mode, ViPlex Express can also be used to control multimedia players. This document will introduces you the functions and operations in async mode.

Two Working Modes

ViPlex Express comes with two working modes and you can switch to your desired mode as needed.

- **Async Mode**

  ViPlex Express sends playlists to multimedia players. The playlists will be stored in the local storage of the multimedia players and played according to their playback schedules. This mode is applicable to the scenarios where screens are loaded by multimedia players.

- **Demo Mode**

  In this mode, users can create virtual screens and publish playlists, enhancing their understanding of the software's functionalities, ideal for demonstrations or testing scenarios.

Note:

- The current version does not support studio mode.

Professional Playlist Editing

ViPlex Express is designed with a professional playlist editor allowing users to edit playlists with various contents as required.

- **Multiple pages**

  A playlist can be added with multiple pages which are played in order from top to bottom.

- **Flexible layout**

  Users can apply a system layout or customize a layout when adding a page. In a layout, users can set the number, coordinates, width and height of windows as needed.

- **A variety of media**

  Videos, images, text, documents, colorful text, analog clocks, digital clocks, count-up and countdown timers, weather, environmental monitoring, tables, RSS, streaming media, web pages, and HDMI IN (supported only by TU40 Pro/TU4K Pro) can be added to pages.

- **Multiple Properties**

  Every type of media has multiple properties which can satisfy user needs and present a variety of playlists.

- **Scheduling as you wish**

Each page can be set with a playback duration and interval. The schedule of a page can be batch applied to other pages. If the time periods of several pages overlap, the pages will be played in order from top to bottom.

- **Quick Preview**

  Clicking the preview button allows users to preview the current page. The preview widow refreshes immediately when you move on to another page.

All-round Control

When ViPlex Express is in async mode, users can fully control the multimedia players, such as network configuration, playlist management, input source management, display control, time management, playback management, power control, screen topology, cloud server configuration, peripheral management, etc.

2 Getting Started

2.1 Preparing a PC

Minimum requirements:

- Windows 10 64-bit, version 1809 or later

  Note: If the current PC is running Windows 10 64-bit (prior to version 1809), see section 9.1 Update Guide for PCs Running Windows 10 64-bit (Prior to Version 1809) to update the operating system.
- CPU: i5
- RAM: 4 GB
- HDD: 60 GB
- Integrated graphics card: Intel HD Graphics 4000 or a comparable integrated graphics card
- Dedicated graphics card: NVIDIA GeForce 8 series/AMD Radeon HD 5000 series or higher
- Video memory: 512 MB or more
- OpenGL: Support for OpenGL 2.1 or later

2.2 Install Software

Prerequisites

The installation package for ViPlex Express has been obtained.

Where to Obtain

Contact the technical support engineers of NovaStar.

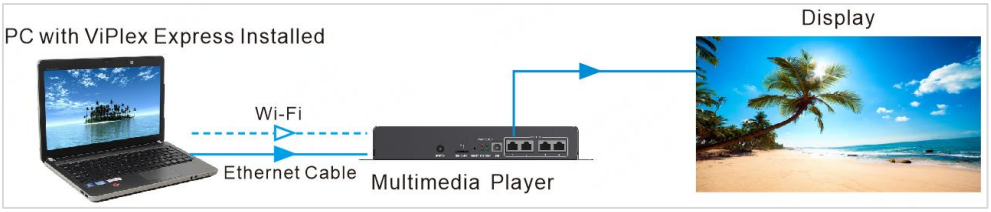
Software Installation

Double click the installer to install ViPlex Express by following the on-screen instructions.

2.3 Hardware Connection

Figure 2-1 and Figure 2-2 use the TB60 of the Taurus series multimedia players as an example to show the connection.

Figure 2-1 Direct connection



- **Ethernet cable**

  The PC with ViPlex Express installed is connected to multimedia players via Ethernet cable.

Note:

- The device's default static IP address is 192.168.0.10. When connecting to the device using a static IP address, the PC must be on the same netwrok segment as the device. If you encounter connection issues, please view the the device's IP address in the wired network configuration interface by connecting to the device via Ethernet cable. For specific operations, see 7.6.1 Configure Wired Network.

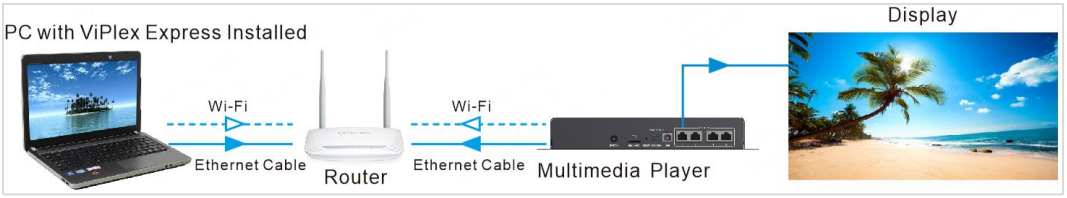
- **Wi-Fi**

  The PC with ViPlex Express installed is connected to multimedia players via Wi-Fi.

  When the multimedia player has built-in Wi-Fi AP, you can use this method without the need for configuration. For example:

  Taurus/TU series: The default SSID is "Model+*Last 8 digits of SN*" and the default password is printed on the SSID label of the product.

Figure 2-2 LAN



- **Wired LAN**

  The PC with ViPlex Express installed and multimedia players connected to the same wired LAN via Ethernet cable.

  For TU V1.6.0 and later, and Taurus V4.7.7 and later, the default static IP address of the devices is 192.168.0.10. When using a static IP address for connection, the PC and device must be on the same network segment.

- **Wireless LAN**

  The PC with ViPlex Express installed and multimedia players are connected to the same wireless LAN via Wi-Fi network.

  This method is available when multimedia players support Wi-Fi Sta. Log in to multimedia players with ViPlex Express and connect to the Wi-Fi AP of the router on the network configuration page.

3 Screen Management

3.1 Search for Screens

Automatically Search for Screens on the LAN

Step 1 Open ViPlex Express, the software will search for nearby screens automatically under **My Screens** on the left of the page.

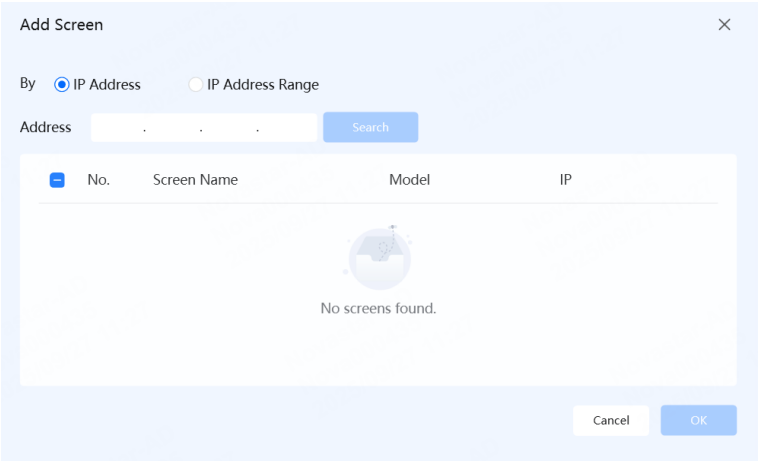
Step 2 After screens are found, the screen information will be displayed under **My Screens**. By clicking the **All**, **Online**, and **Offline** tabs, you can view screens in each status.

Search for Screens by IP address

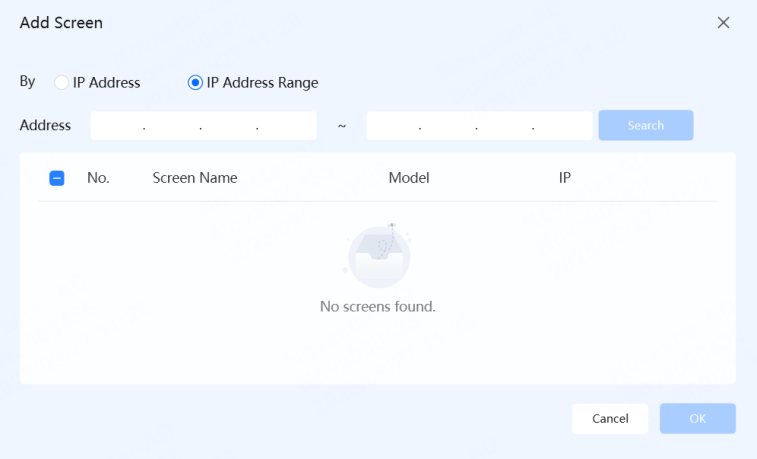
Step 1 Open ViPlex Express, choose **My Screens** > + > **Add Screen** on the left of the page.

Step 2 In the **Add Screen** window that appears, select a method to add IP address and enter the IP address.

- IP address: Specify an IP address.



- IP Range: Specify an IP address range.



Step 3 Click **Search**, select the screen you want to add after the search is complete, and click **OK**.

Note:

- If no screen is found, please troubleshoot by following these steps:

1. Check if the device is powered on and confirm that the Wi-Fi antenna is installed.
2. Check the network environment: Try to connect your computer to the device's Wi-Fi AP hotspot, or ensure both your computer and the device are on the same LAN, and confirm the VPN is off.
3. Check the firewall settings.

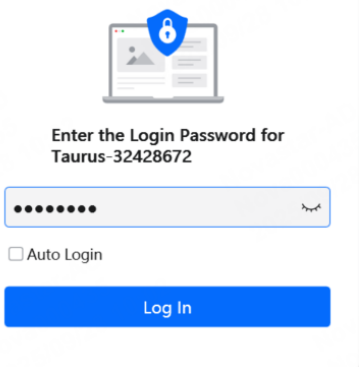
3.2 Log In to Screens

Required Information

Device login password. The default password is printed on the SSID label of the device.

Log In to Screens

Step 1 Under **My Screens**, select a screen in the  status, and enter the login password.



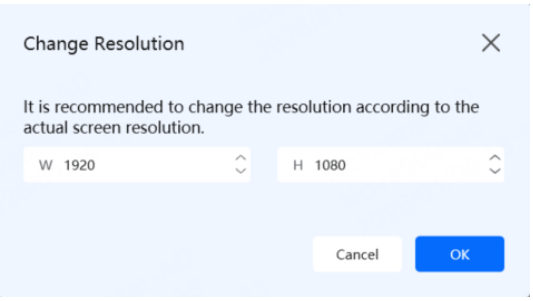
If **Auto Login** was selected during the last log in, the next time you log in, when ViPlex Express detects the screen, it will attempt to automatically log in to the screen using the default account or the account from the last successful login.

Screen statuses:

- : Denotes that you have successfully logged into the screen.
- : Denotes that the screen is online and you can log in to it.
- : Denotes that the screen is offline and you cannot log in to it.

Related Operations

- After successful login, you can change the resolution in the **Change Resolution** window that appears according to the actual resolution of the screen. After the resolution is changed, click **OK**.



- Right-click the screen name to display related operations:
  - Change Resolution: For scenarios requiring calculations of the number of parts on ultra-long screens, you may adjust the resolution according to the actual screen resolution. Once the modifications are complete, click **OK**.
  - Rename: After renaming the screen in the window that appears, click **OK**.
  - Change Password: After changing the login password, click **OK**.
  - Download Log: You can download or configure the logs. For specific operations, see 8.2 Debugging Tool.
  - Log Out: Log out of the screen. After logout, you will need to log in manually next time.
  - Delete Screen: For offline screens, click **Delete** to remove the screen.

3.3 Group Screens

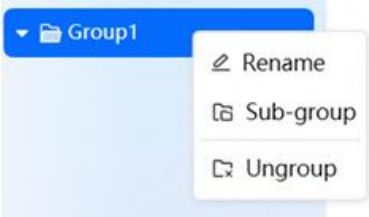
Scenarios

Users can group screens as needed for unified management.

Operating Procedure

Step 1 On the left of the page, choose **My Screens** > + > **Create Group**.

Step 2 After creating a group, right-click to rename the group, create a sub-group, or ungroup.



Step 3 (Optional) You can manually drag a screen to adjust its sequence within the group, or drag a group into another group for regrouping.

3.4 Screen Group Management

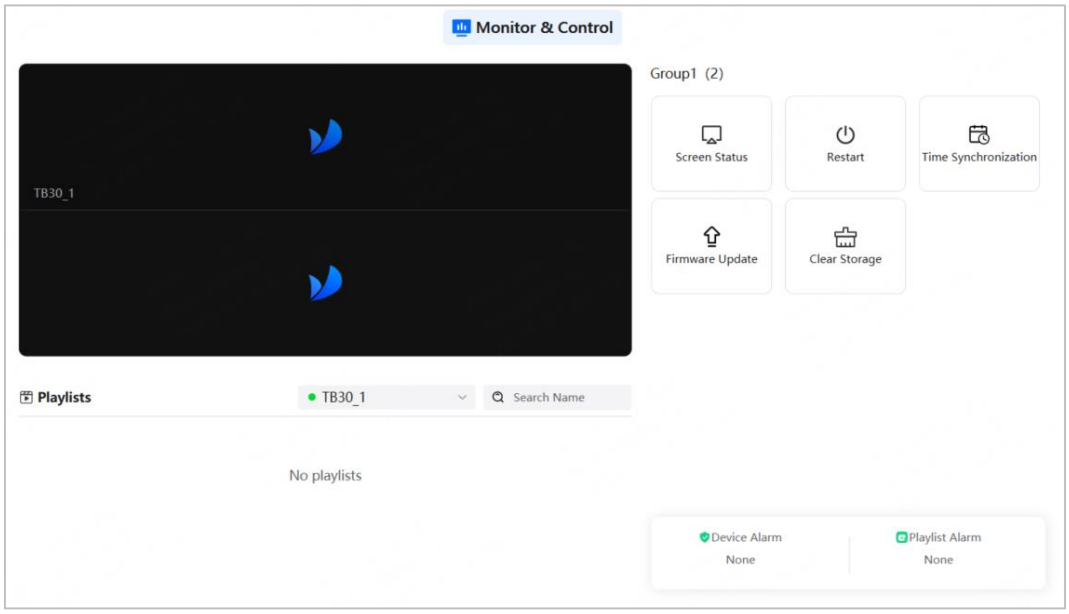
Notes

Multiple devices within the same group cannot be controlled simultaneously.

Operating Procedure

Step 1 On the left of the page, select a group name.

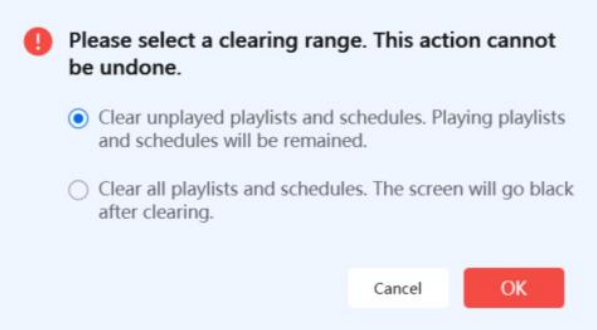
Step 2 On the right of the page, you can manage playlist playback, batch set parameters, and view alarm information for different screens within the same group.



- Playlist playback: In the **Playlists** area, the playlists playing on the current screen are displayed, and you can switch between different screens within the same group to play playlists. You can also enter a playlist name to search for the corresponding playlist.
- Group operations: You can control **Screen Status**, **Restart**, and **Time Synchronization** on the screens within the group. For specific operations, see 7 Monitor & Control.
- View alarm information: You can view device alarms and playlist alarms in the bottom right corner of the interface.

Other Operations

Clear cache: Click **Clear Cache** and select a clearing range from the window that appears.



4 Playlist Management

Prerequisites

The Taurus and TU series devices support playlist management.

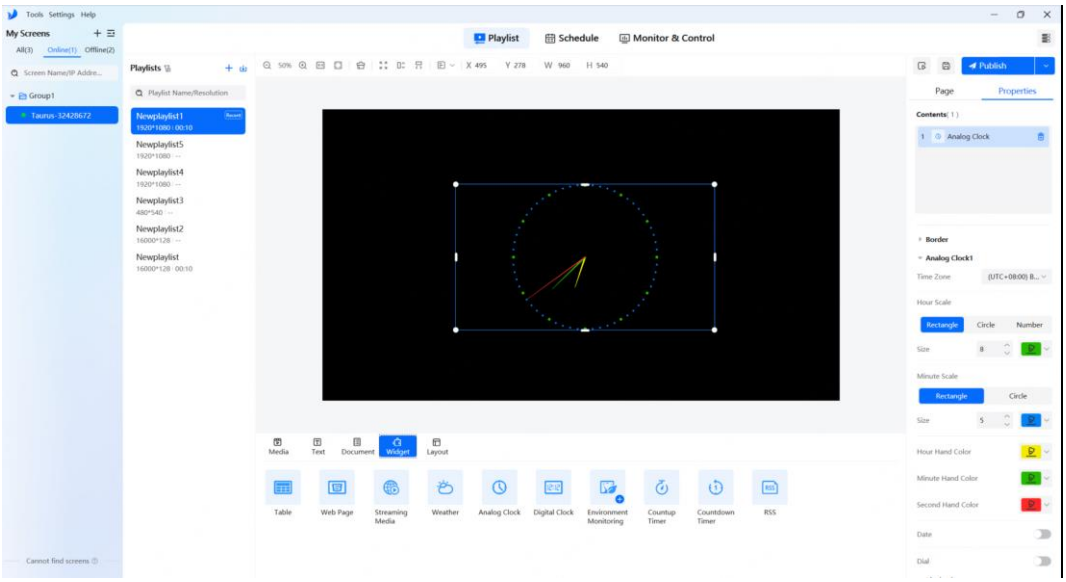
4.1 Create Playlists

Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Select **Playlist** to enter the playlist interface.

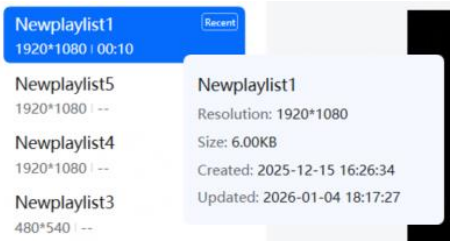
Figure 4-1 Playlist



Step 3 Next to the **Playlists** tab, to filter out playlists that match the current screen resolution or playlists that do not match the current screen resolution, click , and from the drop-down list, select **Current Resolution** or **Other Resolutions**. Click to create a playlist.

Step 4 After creating a new playlist, view the related playlist information.

- Playlist properties: When the mouse hovers over the playlist name, information such as resolution, size, creation time, and update time is displayed.



- Playlist search: Enter the playlist name or resolution in the search bar to search for the corresponding playlist.
- Recent: Recently used playlist

Step 5 Right-click the playlist name to perform operations such as rename, copy, export, USB playback, and delete.

- Rename: Rename the current playlist.
- Copy: Copy the selected playlist, enter the playlist name in the **Copy** dialog box, and click **OK**.
- Export: After selecting the local path for exporting the playlist, click **Save** and wait for the export to complete.
- USB Playback: For specific operations, see 4.4 USB Playback.

4.2 Import Playlists

Operating Procedure

Step 1 Select **Playlist** to enter the playlist interface.

Step 2 Next to the **Playlists** tab, click > **Import from Computer**.

After selecting a playlist from the local path in the window that appears, click **Select Folder** and wait for the import to complete.

4.3 Read from Player

Scenarios

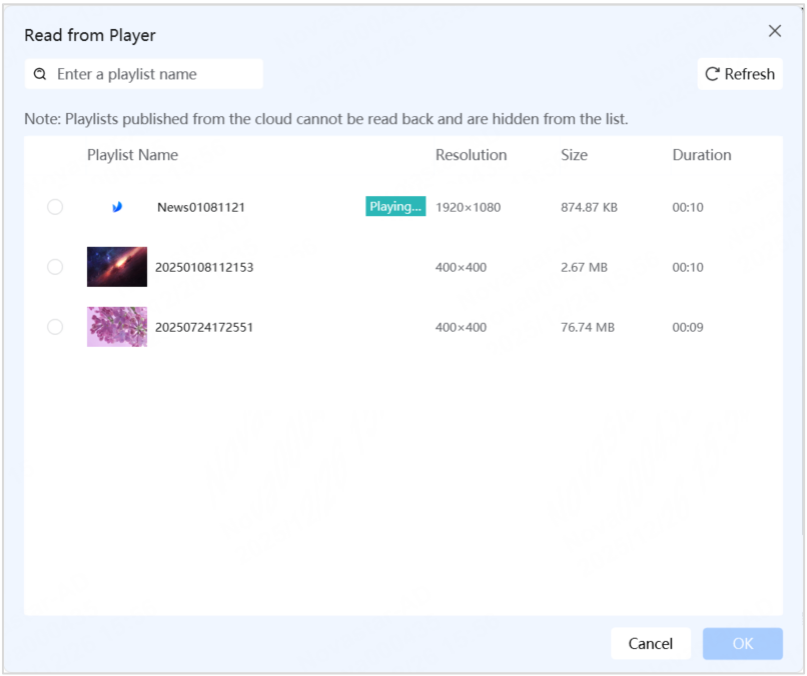
When users accidentally delete local playlists or contents, or needs to quickly update playlists, they can import the published playlists again by reading from the players.

Operating Procedure

Step 1 Select **Playlist** to enter the playlist interface.

Step 2 Next to the **Playlists** tab, click > **Read from Player**.

Step 3 After selecting the playlists read from the player in the window that appears, click **OK** and wait for the import to complete.



4.4 USB Playback

Scenarios

When the player supports playback of playlists imported from a USB drive, users can use the USB playback feature provided by ViPlex Express to export playlists to the USB. Then, insert the USB into the player to enable playback.

Related Information

- USB playback is supported only by playlists cantoning media.
- Only one playlist can be exported to the USB drive at a time.

- The specified playlist is played by default during USB playback.

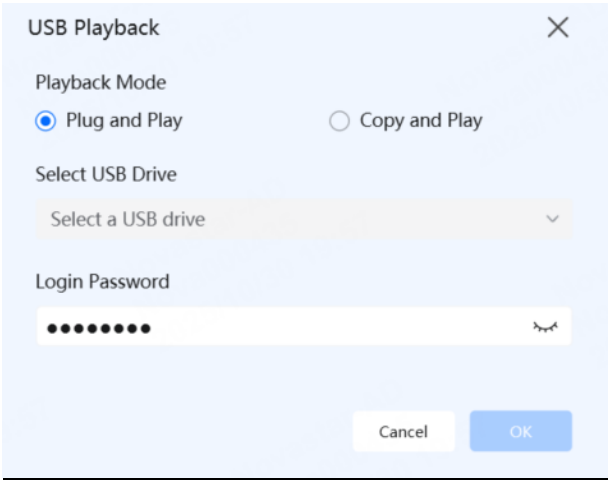
Operating Procedure

Step 1 Select **Playlist** to enter the playlist interface.

Step 2 Under the **Playlists** tab, right-click the playlist name and select **USB Playback**.

The **USB Playback** window appears.

Figure 4-2 USB playback (playlist)



Step 3 Specify a playback method.

- Plug and Play: Insert the USB drive containing the playlist into the player, and the playlist starts to play. Do not remove the USB drive during playback.
- Copy and Play: The player will start playing the playlist after the playlist is copied to the player from the USB drive. The USB drive can be removed during playback.

Step 4 (Optional) When selecting **Copy and Play**, choose an option for handling playlists with the same name, including **Keep Both** or **Replace**.

Step 5 Select a save path.

You can directly select the root directory of the USB drive, or save it first to the local path and then copy it to the root directory of the USB drive.

Step 6 Enter the device login password.

When the USB drive containing the playlist is inserted into the player, the password must match to play the playlist.

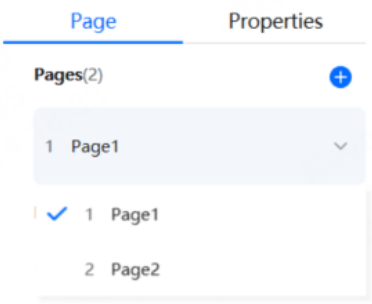
Step 7 Click **OK**.

4.5 Manage Playlist Pages

Operating Procedure

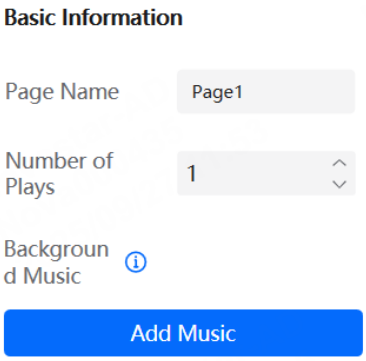
Step 1 Select **Playlists** to enter the playlist interface.

Step 2 After selecting a playlist, under the **Page** tab on the right, add , copy , and delete pages. You can also drag a page to adjust its sequence.



Step 3 In the **Basic Information** area, you can set the **Page Name** and **Number of Plays**.

Step 4 (Optional) For players V4.7.4 and later, click **Add Music** to add background music from a local path.



4.6 Edit Playlists

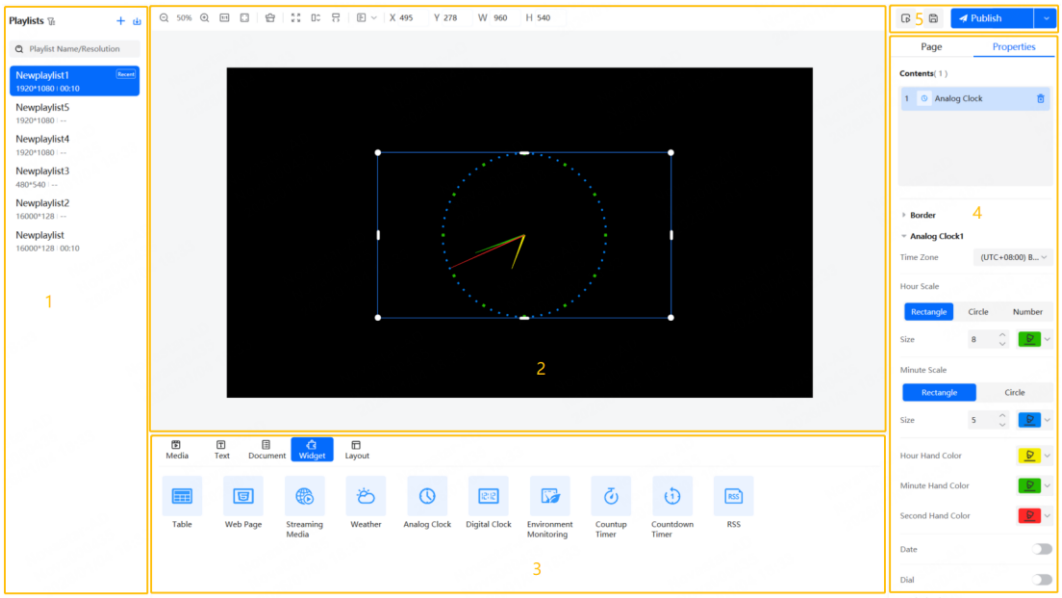
Related Information

- A playlist contains one or more pages, and a page can contain one or more other type of media.
- Pages are played in order from top to bottom.

Operating Procedure

Step 1 Select **Playlist** to enter the playlist interface.

Step 2 Next to the **Playlists** tab, click + to create a playlist, as shown in the figure below.



Descriptions of the editor are shown in the table below:

No.	Function	Details	
1	Playlists	Display all the playlists, and rename, copy, export, perform USB playback and so on.	
2	Media editing	: Zoom out	: Zoom in
		: Original aspect ratio	: Auto fit
		: Clear the canvas	: Fill the entire screen
		: Fill vertically	: Fill horizontally
		: Align top	: Center vertically
		: Align bottom	: Align left
		: Center horizontally	: Align right
		X: Horizontal starting position of the window	Y: Vertical starting position of the window
		W: Window width	H: Window height
		(Right-click): Bring forward	(Right-click): Send backward
		(Right-click): Bring to front	(Right-click): Send to back
3	Add media/widget Click a tab to add the corresponding type of media, text, widget, or	Media: Includes image and video. 1. After clicking **Import Media**, select the media type under the local resource manager and click **Open**. 2. You can search for the imported media in the search bar, or filter the	

<table>
<tr><th>No.</th><th>Function</th><th>Details</th></tr>
<tr><td></td><td>layout.</td><td>
media by order ( ), type ( ), and resolution ( ). Click to clear invalid media.
3. When hovering over the media with the mouse, click or drag the media to the media editing area. Right-click or press Delete to delete the media.

After media is added to the media editing area, you can set the media properties under the Properties tab in the properties editing area on the right.

Text: Select a text type including Single-line Text, Multi-line Text, Single-line Colorful Text, and Multi-line Colorful Text.

After text is added to the media editing area, you can set the text properties under the Properties tab in the properties editing area on the right.

Document: You can either click Import Document or drag a document here.

After a document is adding to the media edit area, you can set the document properties under the Properties tab in the properties editing area on the right side of the interface.

Widget: Add the corresponding widget type. Once added, you can set the widget properties under the Properties tab in the properties editing area on the right side of the interface. The widget types are as follows:
<table>
<tr><td>: Table</td><td>: Web page</td></tr>
<tr><td>: Streaming media</td><td>: Weather</td></tr>
<tr><td>: Analog clock</td><td>: Digital clock</td></tr>
<tr><td>: HDMI IN</td><td>: Environment monitoring</td></tr>
<tr><td>: Count-up timer</td><td>: Countdown timer</td></tr>
<tr><td colspan="2">: RSS</td></tr>
</table>
Layout: Set the layout of the editing area. A variety of layout templates are provided, including 1×2, 2×1, 1×3, 3×1, 2×2, and custom layout is also supported. After selecting one of the layout styles, click Save Layout, set the layout name in the window that appears, and then click
</td></tr>
</table>

No.	Function	Details
		OK. You can save up to 20 layouts.
4	Property editing	Edit page properties and media/widget properties. • Page Properties: Add, copy, delete pages, and adjust page order. You can also set the basic information of the page, including the page name, playback mode, number of plays, and background music. • Media/Widget Properties: Refers to the media or widget added to the page. The properties of different widgets vary. Before editing the widget properties, click to select the widget.
5	Preview, save and publish playlists.	Preview , save and publish the playlist.

Note:

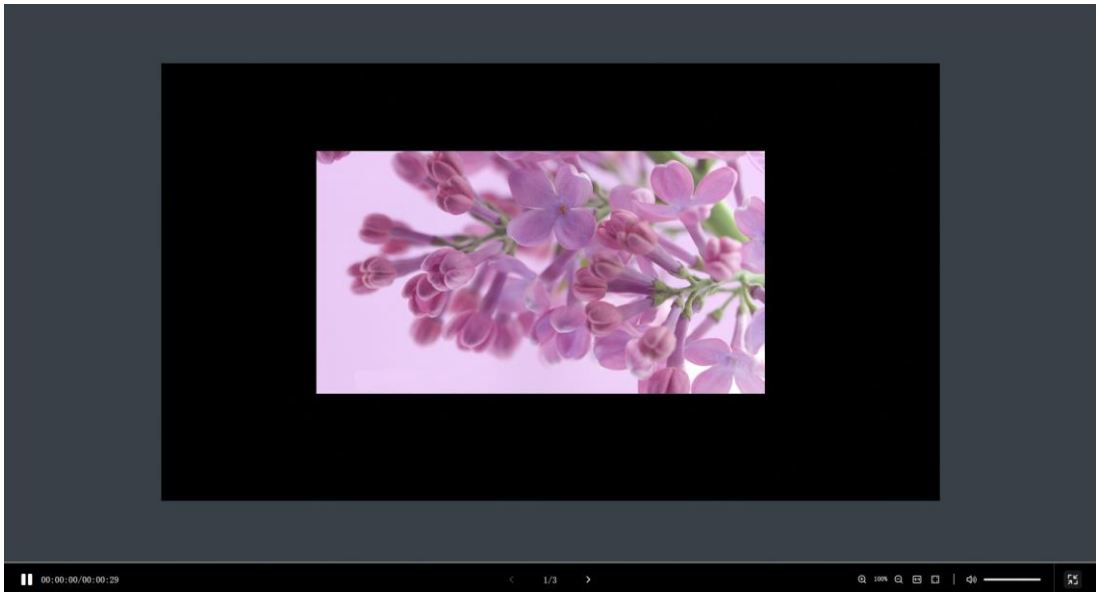
- For the Excel files imported under **Document**, it is recommended to use the default Excel row height and the number of rows must be less than or equal to 600, with the maximum number of rows subject to height. The total width of the columns is less than or equal to the width of an A4 page in landscape orientation. It is recommended to set the page layout to landscape A4 when creating the table.
- For the Excel file to be imported, users can set the text color in the cells and merge the cells. Other cell properties are currently not supported. If there are other properties settings in the cell, it might cause parsing failure or an error. You can try clearing the cell format and importing the table again.
- For the Excel file to be imported, inserting images and custom number cells is not supported.
- When adding RSS, streaming media, web pages, users must provide a valid address.
- When adding weather media, the screen must connect to the Internet to obtain real-time weather information.
- When adding environment monitoring media, after the screen hardware is connected to the corresponding sensor, connect the sensor logically in ViPlex Express. For details, see 7.10.2 Sensor.
- Only TU40 Pro/TU4K Pro support HDMI IN media, which allows the input source from the device's HDMI1 connector to be displayed simultaneously with the internal source from the control device on the same screen, enabling simultaneous external and internal source display.

4.7 Publish Playlists

Operating Procedure

Step 1 After editing the playlists, click **Save**.

Step 2 (Optional) Click the at the top right corner of the interface to preview the playlist in the preview window in real-time, ensuring the accuracy of the content and the playback effect.

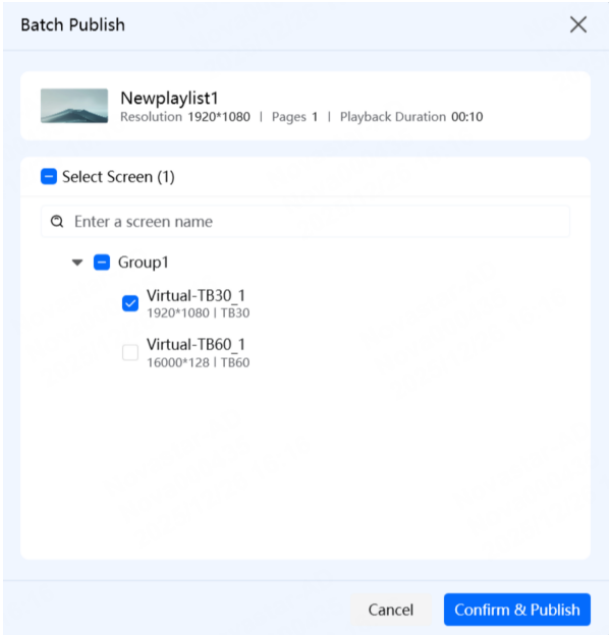


Press **Esc** or to exit preview.

Step 3 Click **Publish** in the top right corner of the interface.

Step 4 Select **Publish** or **Batch Publish**.

- If only a single screen is connected for publishing a single playlist, click Publish to publish the playlist.
- If multiple screens are connected for batch publishing of playlists, click Publish, select the screens in the **Batch Publish** window that appears, and click **Confirm & Publish**.



Note:

- When the resolutions of the playlist and the selected screen do not match, it may cause the image to stretch and distort, affecting the playback performance.
- When publishing a playlist, a pre-publish check will be performed, and any issues within the current playlist will be indicated in the prompt at the top right corner of the interface.

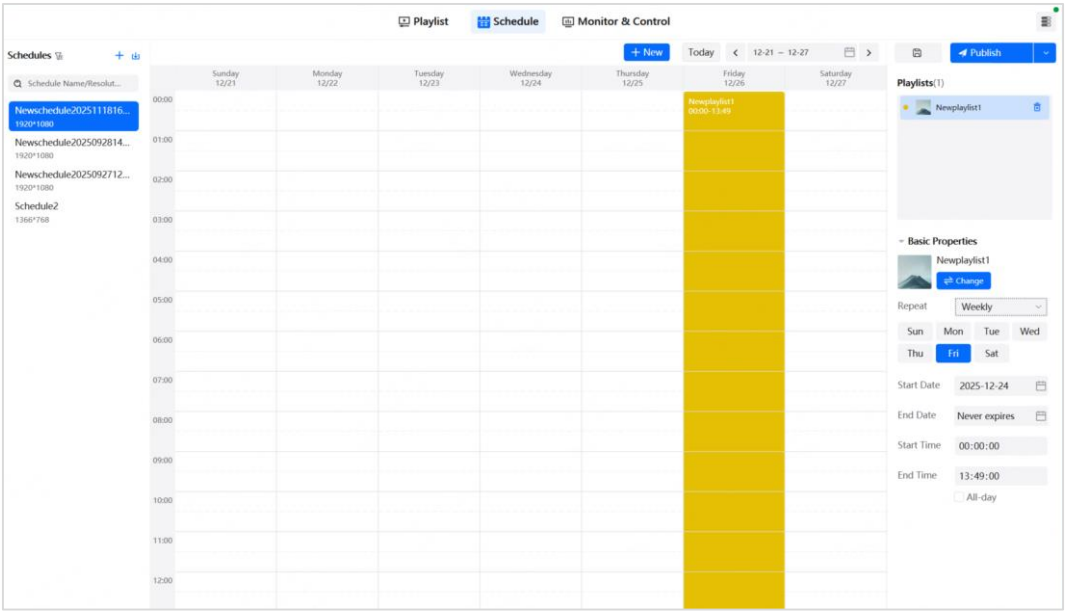
5 Schedule Management

5.1 Create Schedules

Operating Procedure

Step 1 Select **Schedule** to enter the playlist schedule interface.

Step 2 On the **Schedule** tab, to filter out playlists that match the current screen resolution or other resolutions that do not match, click , and select **Current Resolution** or **Other Resolutions** from the drop-down list. Click to create a schedule.



Step 3 Right-click the schedule name to rename, copy, export and delete playlists, and perform USB playback.

- Rename: Rename the current schedule.
- Copy: Copy the selected schedule, enter the schedule name in the window that appears, and click **OK**.
- Export: After clicking **Export**, select the local path for export, click **Save**, and wait until the export is complete.
- USB Playback: For detailed operation, see 5.3 USB Playback.

- Delete: Delete the schedule.

5.2 Import Schedules

Step 1 Select **Schedule** to enter the schedule interface.

Step 2 Next to the **Schedule** tab, choose > **Import from Computer**.

Step 3 After selecting a schedule from the local path in the window that appears, click **Select Folder** and wait for the import to complete.

5.3 USB Playback

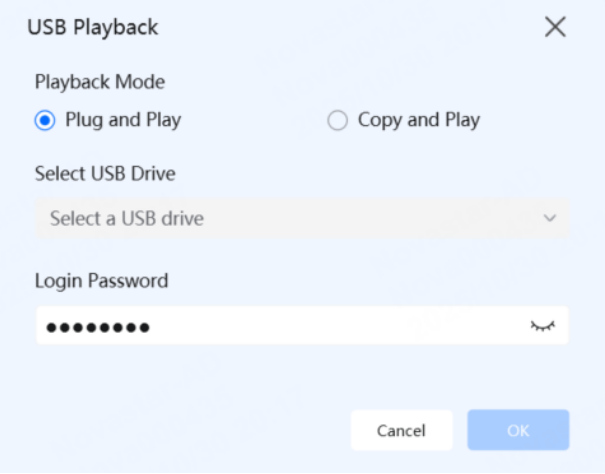
Operating Procedure

Step 1 Select **Schedule** to enter the schedule interface.

Step 2 Under the **Schedule** tab, right-click the playlist name and select **USB Playback**.

The **USB Playback** window appears.

Figure 5-1 USB playback (schedule)



Step 3 Specify a playback method.

- Plug and Play: Insert the USB drive containing the playlist schedule into the player, and the playlist starts to play. Do not remove the USB drive during playback.
- Copy and Play: The player will start playing the playlist after the playlist schedule is copied to the player from the USB drive. The USB drive can be removed during playback.

Step 4 (Optional) When selecting **Copy and Play**, choose an option for handling playlists with the same name, including **Keep Both** or **Replace**.

Step 5 Select a save path.

Step 6 Enter the device login password.

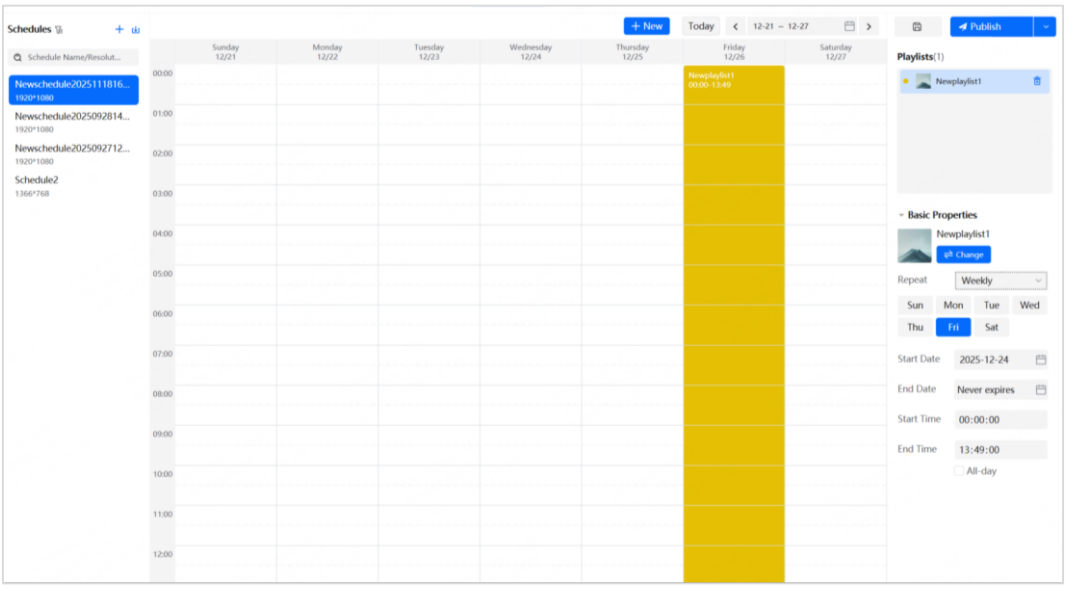
When the USB drive containing the playlist schedule is inserted into the player, the password must match to play the playlist.

Step 7 Click **OK**.

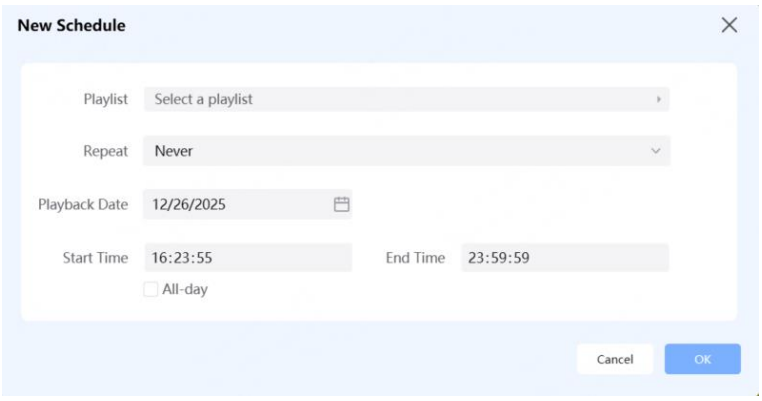
5.4 Schedule Management

Operating Procedure

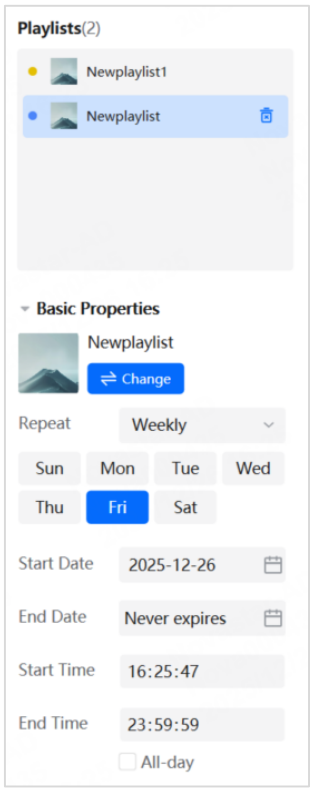
Step 1 Select **Schedule** to enter the playlist schedule interface.



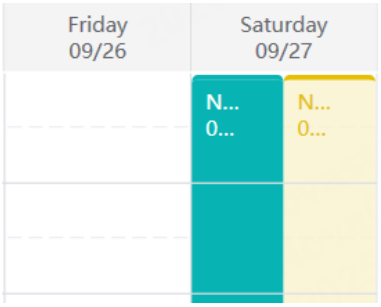
Step 2 Click **New** at the top of the interface or find the date you need to add the playlist to in the calendar grid. Click + in the blank area, and in the **New Schedule** window that appears, select a playlist, repeat interval, playback date, start time, and end time, then click **OK**.



Step 3 Once the new schedule is created, all playlists under the current schedule and their basic properties will be displayed on the right side of the interface, allowing for editing as needed.



If there are two playlists in the same time period, the playback order is determined by the schedule (for example, if Newplaylist 3 comes before Newplaylist 1, then play Newplaylist 3 first, followed by Newplaylist 1).



To delete a schedule, right-click the schedule and select **Delete**.

5.5 Publish Schedules

Operating Procedure

Step 1 Select **Schedule** to enter the playlist schedule interface.

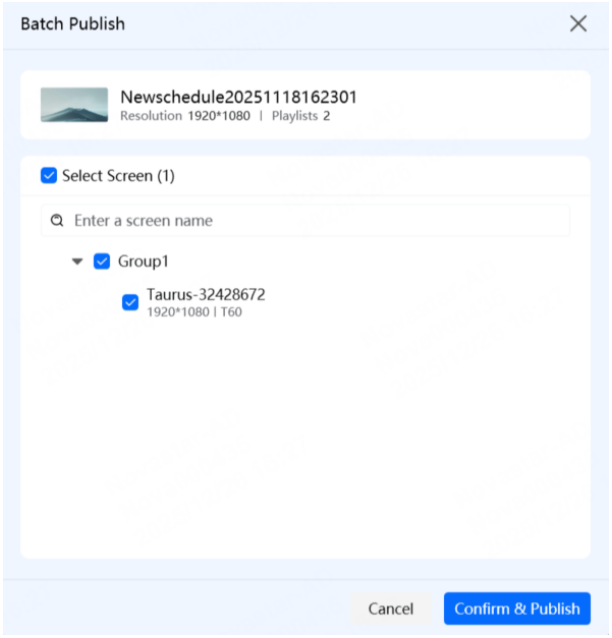
Step 2 After editing the schedule, click **Save**.

Step 3 Click **Publish** in the top right corner of the interface.

Step 4 Select **Publish** or **Batch Publish**.

- To publish a single schedule, click Publish.

- To batch publish schedules, click Publish, select screens in the **Batch Publish** window that appears, and click **Confirm & Publish**.



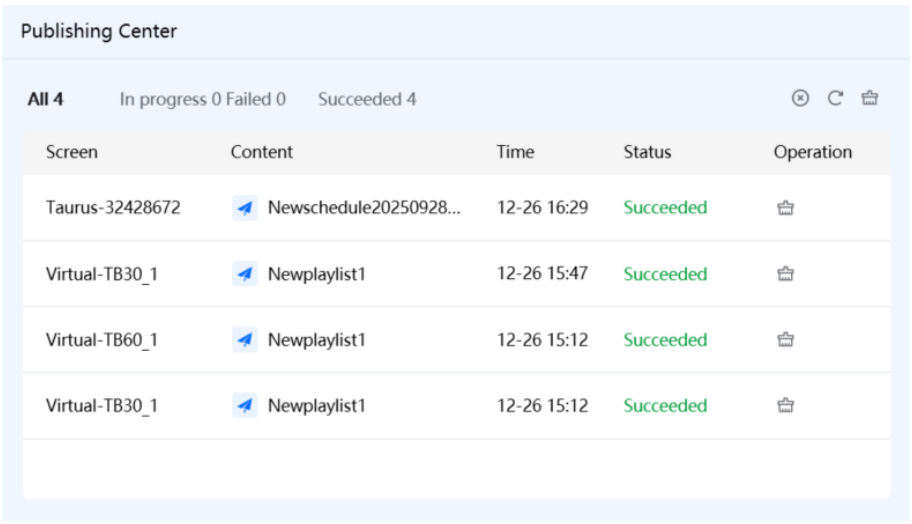
6 Publishing Center

In the publishing center, you can view the publish status, progress, and results of all playlists or schedules.

Operating Procedure

Step 1 Select **Playlist** to enter the playlist interface.

Step 2 In the upper right corner of the interface, click , and you can view the publish status, publish progress, and publish results of all playlists in the publishing center.



After a playlist is published successfully, will be displayed in the task center. If publishing failed, will be displayed.

Step 3 (Optional) Under the **Operation** column, you can perform related operations on the task.

- : Cancel publishing tasks in **Waiting** or **In progress** status.
- : Clear publishing tasks in **Succeeded** or **Failed** status. This action cannot be undone.
- : Perform a retry operation on tasks in **Failed** status.

7 Monitor & Control

Functions

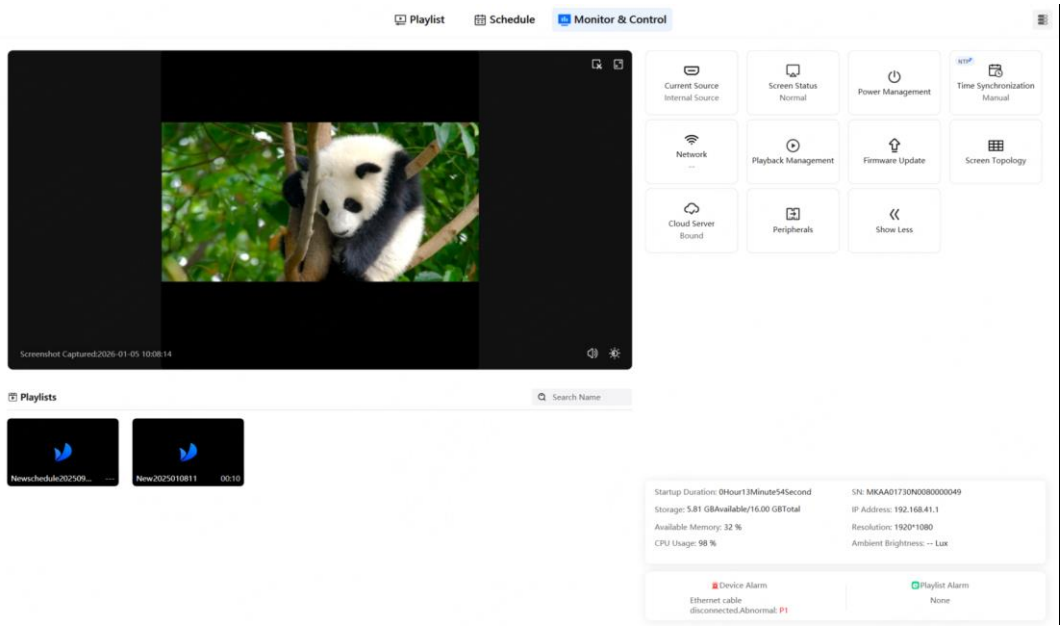
Function	Sub-function	Taurus	TU
Video source	Video source control	√	√
	Video source configuration	√	√
Screen status	Screen status control	√	√
	Brightness adjustment	√	√
	Color temperature adjustment	√	√
	Volume adjustment	√	√
Power management	Set power control mode	√	√
	Restart immediately	√	√
	Scheduled restart	√	√
Time management	Manual time synchronization	√	√
	GPS time synchronization	√	-
	NTP time synchronization	√	√
	RF time synchronization	√	-
Network configuration	Configure wired network	√	√
	Configure Wi-Fi	√	√
	Configure AP	√	√
	Configure 4G network	√	-
	Configure network detection	√	√
Playback management	Device storage	√	√
	Playlist management	√	√
	Basic configuration	√	√
	Standalone playback	√	-
	Multi-screen mosaic	√	-

Function	Sub-function	Taurus	TU
Screen topology	-	√	√
Cloud server Configuration	Bind to cloud publishing service	√	√
	View cloud monitoring binding information	√	√
Peripheral management	Multifunction card	√	√
	Sensor	√	√
	RF Configuration	√	-
About the screen	-	√	√

7.1 Monitor & Control Interface

The **Monitor & Control** tab page includes multiple functions: video source, screen status, relay power supply, network management, playback management, and screen topology modules. You can quickly switch between functions by clicking on the quick access to video source, screen status, restart, and relay power supply modules. At the bottom of the interface, basic information and real-time monitoring information of the screen are displayed, assisting users in achieving comprehensive monitoring and control of devices.

Figure 7-1 Monitor & Control interface



- Switch between playlists: In the **Playlists** area on the left side of the interface, you can switch between playlists. Click to adjust the volume, click to adjust the screen brightness, click to capture a screenshot of the playlist, click to maximize the preview window, and click to download the playlist to the local storage system.
- Detailed configuration: On the right side of the interface, click each function module's , to view more detailed configuration. For specific operations, see 7.2 Video Source~7.11 About the Screen.

- Monitoring alarm: Display basic screen information in the bottom right corner of the interface and perform real-time monitoring of the device. The device's operating status and alarm information are intuitively displayed, including startup duration, storage information, available memory, CPU usage, device SN, IP address, resolution, and ambient brightness. Click to copy the SN and IP Address. Click this area for more detailed screen information.

7.2 Video Source

Configure video source parameters and set the video source to HDMI or internal source..

7.2.1 Video source control

Set the video source control mode, including **Manual**, **Scheduled**, and **HDMI Preferred**.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

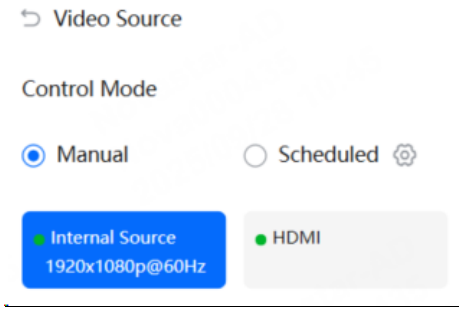
Step 2 Choose **Monitor & Control** > **Current Source**.

Step 3 (Optional) Click the center of the Current Source module to directly switch the video source type.

Step 4 Select **Manual**, **Scheduled** and **HDMI Preferred** as needed.

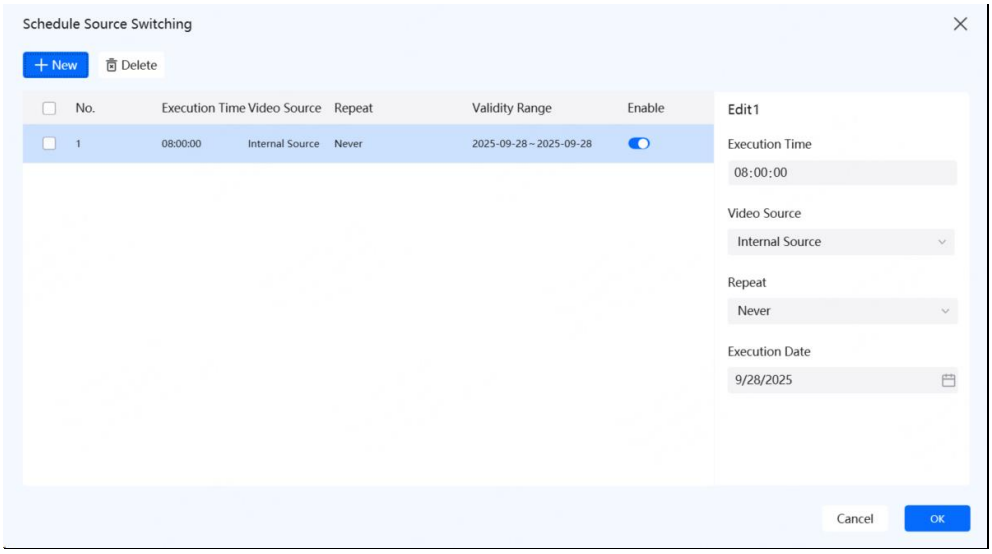
- Manual: Manually switch between the internal and HDMI video sources.

Figure 7-2 Manual switching



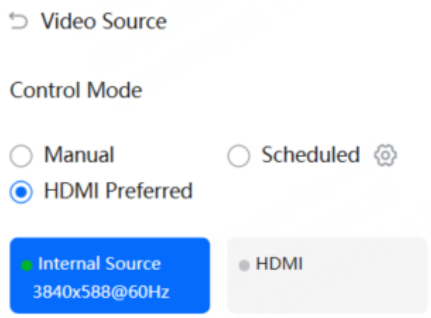
- Scheduled: Switch between the internal source and HDMI source as scheduled. Click , in the **Schedule Source Switching** window, click **New**, set the time and repeat interval for the video source, and click **OK**.

Figure 7-3 Scheduled switching



- HDMI Preferred (Supported only by Taurus series devices): Prioritize using the HDMI source in sync mode.

Figure 7-4 HDMI preferred



7.2.2 Video Source configuration

Take the Taurus series multimedia player as an example to set the internal source resolution and the HDMI source resolution.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Current Source**.

Step 3 Configure the internal source resolution or input source EDID.

- Internal Source Resolution Configuration: Click to set **Resolution** and **Frame Rate** in the window that appears. After completing the settings, click **OK**.
  - Resolution: Set the input source resolution.

    The resolution refers to the operating system resolution of the Taurus, which must be greater than the configured screen resolution.

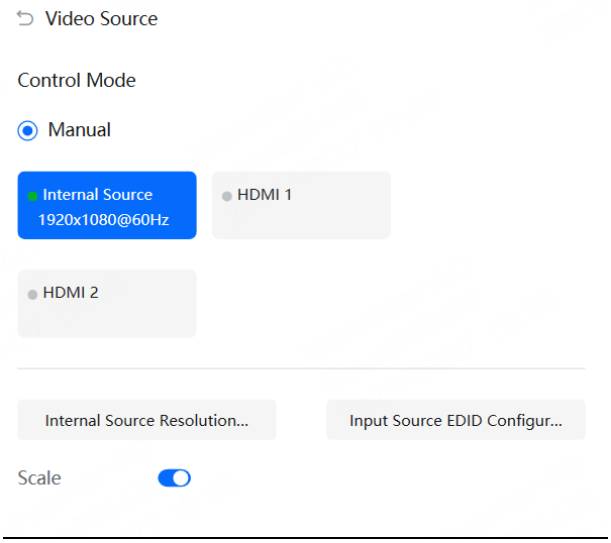
- Frame Rate: Set the frame rate of the input source.

- Input Source EDID Configuration: Click to set **EDID** and **Frame Rate** in the window that appears. After completing the settings, click **OK**.

  Custom EDID is supported.

Step 4 (Optional) Turn on **Scale** to scale the playback window.

Figure 7-5 Parameter configuration



Note:

- This is currently used only as a scale switch and unable to set scale resolution parameters.
- For the TU series devices, both the internal source and HDMI source can be scaled. For the Taurus series devices, only the HDMI source can be scaled.

Step 5 After the configuration is complete, click **Apply**.

7.3 Screen Status

7.3.1 Screen Status Control

Set the current playback status of the screen.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

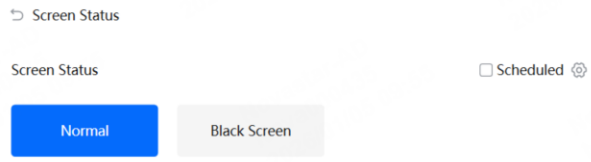
Step 2 Choose **Monitor & Control** > **Screen Status**.

Step 3 (Optional) Click the center of the **Screen Status** module to directly switch the screen status to **Normal** or **Black Screen**.

Step 4 In the **Screen Status** area, you can manually select or perform scheduled settings.

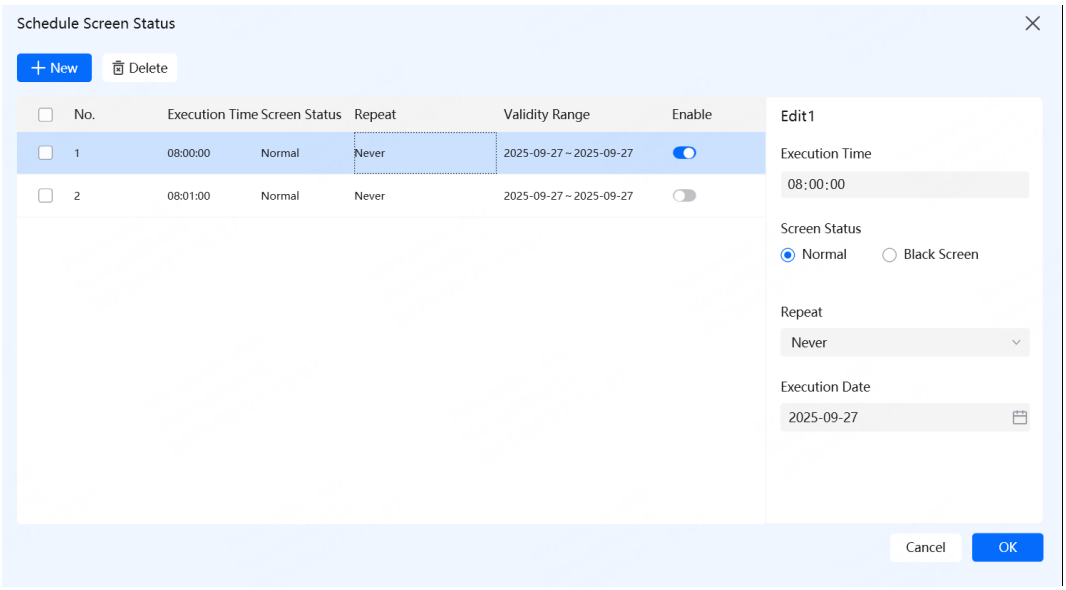
- Manual: Click **Normal** or **Black Screen**. The black screen here sends a black screen command to the receiving card, causing the screen to stop playing, not turning off the power.

Figure 7-6 Manual control



- Scheduled: Click . In the **Schedule Screen Status** window that appears, click **New**. In the editing area on the right side of the interface, set the execution time, screen status, repeat method, and execution date, then click **OK**.

Figure 7-7 Create a new scheduled rule



7.3.2 Brightness adjustment

Manually adjust brightness or set rules for automatic/scheduled brightness adjustments.

When the interface displays information related to RF synchronization, it indicates that the current screen has brightness synchronization enabled. For related operations, see 7.5.1.3 RF Time Synchronization.

Operating Procedure

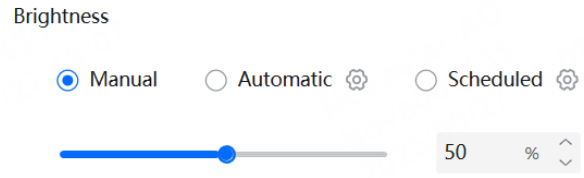
Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Screen Status**.

Step 3 In the **Brightness** area, set the **Control Mode**, which can be selected as **Manual**, **Automatic**, and **Scheduled**.

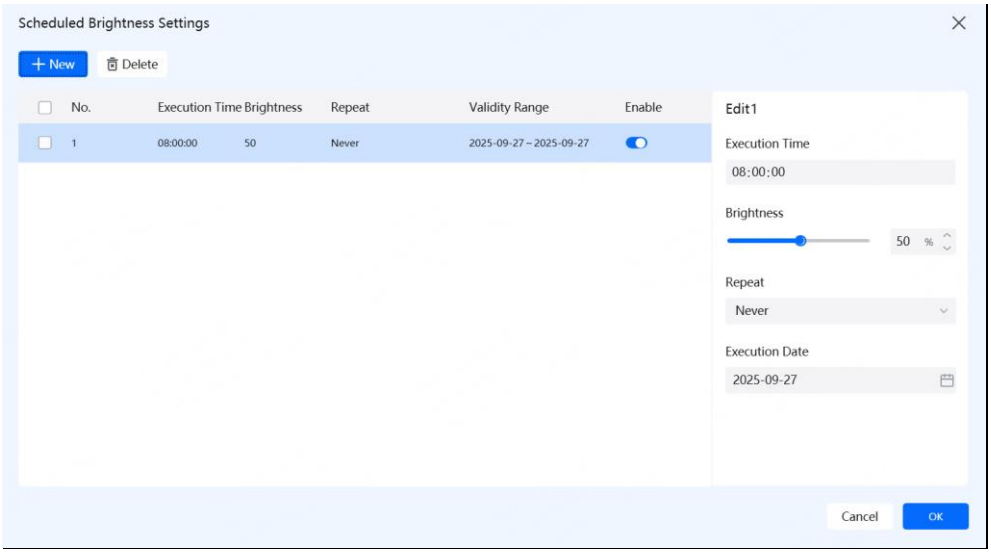
- Manual: Drag the scroll wheel or enter a value to adjust the screen brightness.

Figure 7-8 Adjusting brightness adjustment



- Scheduled: Click , in the pop-up dialog box, click **New**, set the time, brightness, repeat interval, and execution date, and then click **OK**.

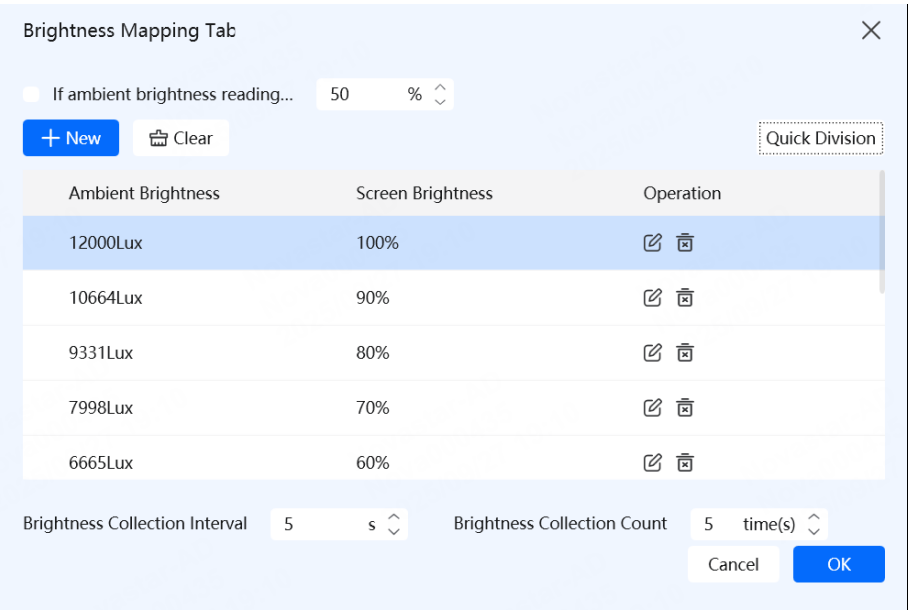
Figure 7-9 Scheduled brightness adjustment



- Automatic: Within the set power on time range, the screen brightness is automatically adjusted according to the brightness mapping table. Click , then click **New** in the pop-up dialog box. After setting the ambient brightness and screen brightness, click **OK**.

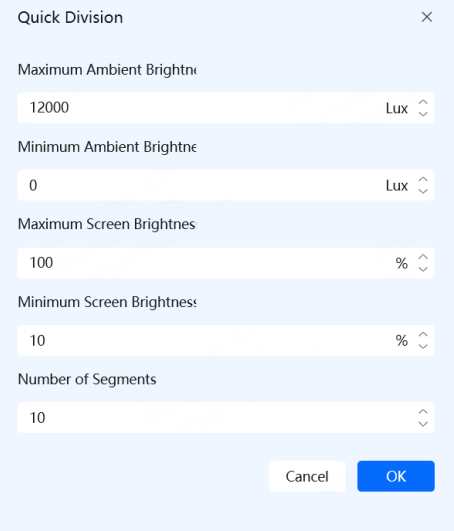
  The brightness mapping table divides ambient brightness into several intervals, assigns a corresponding display brightness to each interval, and then specifies the brightness collection interval and frequency. The screen brightness will automatically adjust based on the range of the collected ambient brightness.

Figure 7-10 Automatic brightness adjustment



Click **Quick Division**, set the range for **Ambient Brightness** and **Screen Brightness**, as well as the **Number of Segments** in the pop-up window, and then click **OK** when finished.

Figure 7-11 Quick division



Note:

- Automatic adjustment requires the device to be equipped with a light sensor.
- In the **Monitor & Control** > **Screen Status** module, you can view real-time brightness.
- When setting manual, scheduled, or automatic brightness adjustment, only one can be effective at a time.

7.3.3 Color Temperature Adjustment

Set the screen's color temperature. Color temperature includes neutral white, pure white, and cool white.

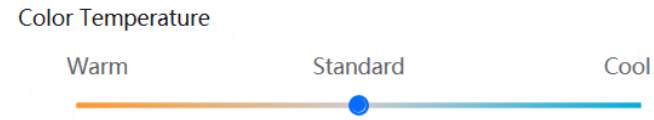
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Screen Status**.

Step 3 In the **Color Temperature** area, drag the slider to select the type of color temperature and adjust the color temperature.

Figure 7-12 Color temperature



Note:

- The TU device supports precise color temperature settings, while other devices only support three levels of adjustment: Warm, Standard, and Cool, without precise settings.

7.3.4 Volume Adjustment

Adjust the volume of the playing playlist.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Screen Status**.

Step 3 In the **Volume** area, drag the slider or enter a value to adjust the volume.

Figure 7-13 Volume

7.4 Power Control

When the relay power switch is turned on, the relay is energized, and the circuit is connected; when the switch is turned off, the relay releases, and the circuit is disconnected.

7.4.1 Power Management

Scenarios

Manage power supplies by configuring the relay, and use custom labels for each relay to achieve unified control of the player's relay engagement or release by label groups.

Prerequisites

The player is connected to the relay board.

Operating Procedure

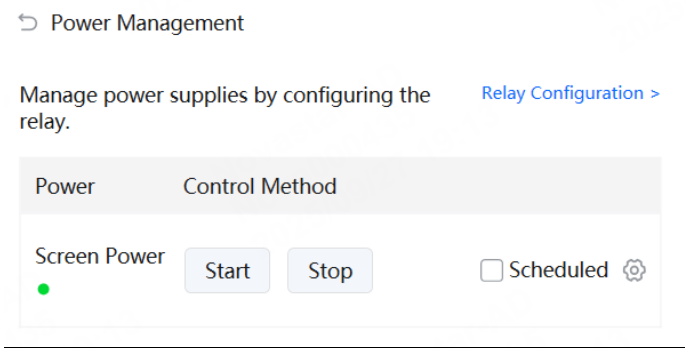
Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Power Management**.

Step 3 (Optional) Click the center of the **Relay Power Supply** module to quickly start or stop the screen power.

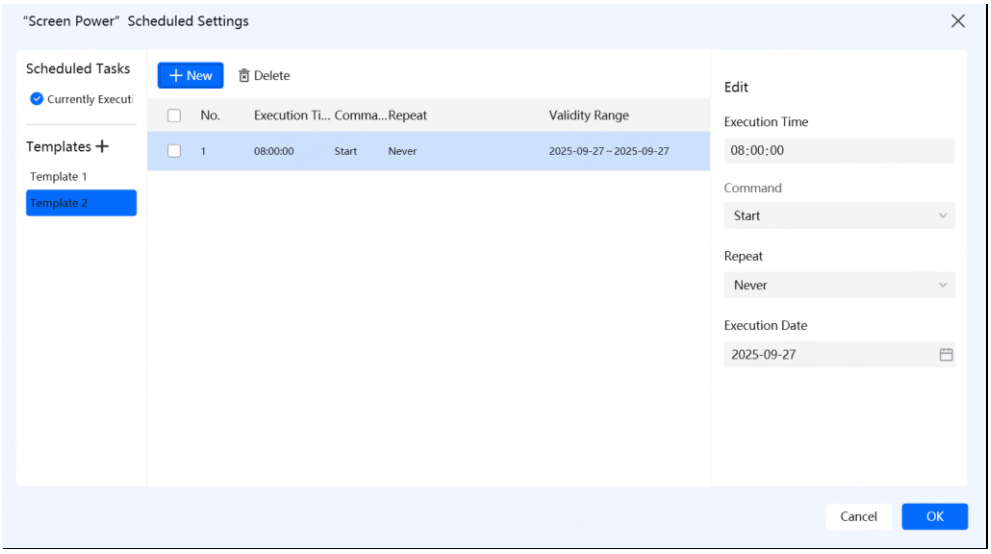
Step 4 In the **Screen Power** area, click **Start** or **Stop** to turn on or off the screen power.

Figure 7-14 Screen power



Step 5 In the **Screen Power** area, click , and in the **Scheduled Settings** window that appears, click **New** to set the execution time, command, repeat method, and date. Click + under **Template** on the left to add a new template. Click to rename the power template. After completing the settings, click **OK**.

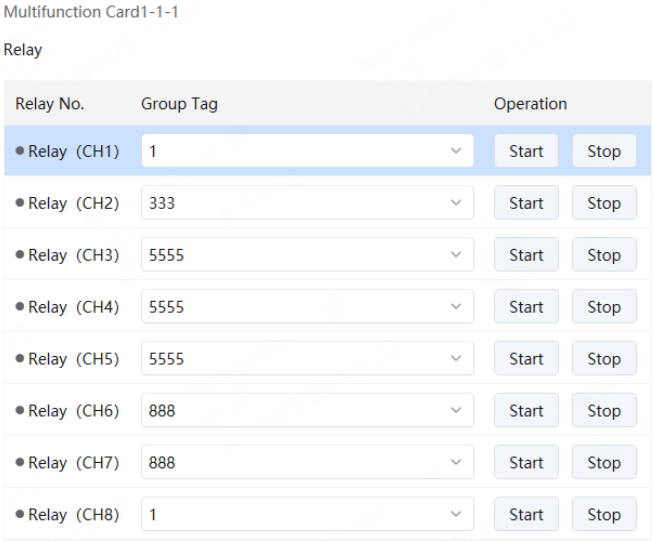
Figure 7-15 Scheduled settings



Step 6 Click **Read**.

Step 7 (Optional) Click **Relay Configuration** to set the duration for start delay, and assign group tags to the relays connected to the multifunction card. For specific operations, see 7.10.1 Multifunction Card.

Figure 7-16 Relay configuration



7.4.2 Restart Configuration

Select **Restart Now** or configure scheduled restart rules for the display.

Operating Procedure

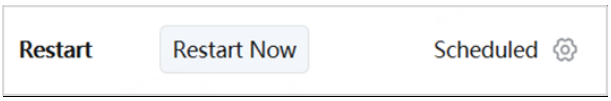
Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Restart/Relay Power Supply**.

Step 3 (Optional) Click the **Restart** module in the center, and in the pop-up window, click **OK** to restart the screen immediately.

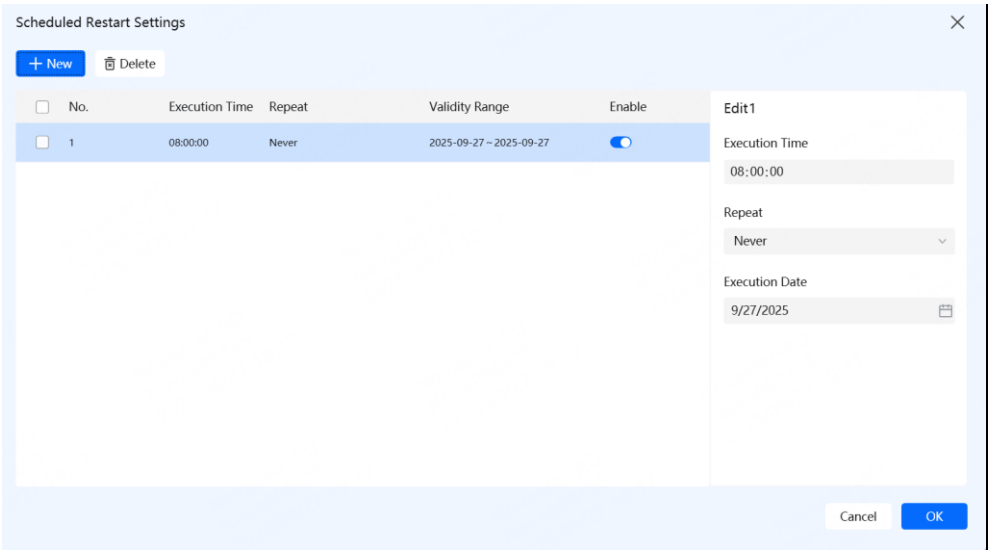
Step 4 Under the **Restart** area, click **Restart Now**.

Figure 7-17 Restart immediately



Step 5 Click , and in the pop-up dialog box, click **New** to set the restart time and repeat interval.

Figure 7-18 Scheduled restart settings



Step 6 After completing the settings, click **OK**.

7.5 Time Management

Time synchronization is used to calibrate the player's time.

Table 7-1 Time synchronization method

Method	Time Reference	Application Scenario
Manual time synchronization	PC with ViPlex Express installed	Manually adjust the time zone of the screen.
Automatic time synchronization	GPS time synchronization: Radio signals emitted by GPS satellites	Use GPS time synchronization, NTP time synchronization, or RF time synchronization to synchronize Taurus time, all of which are applicable to synchronous playback scenarios. • The accuracy of GPS time synchronization depends on satellite signals and is suitable
	NTP time synchronization: Time of the NTP server	
RF time synchronization	Time of the reference device	

Method	Time Reference	Application Scenario
		for outdoor unobstructed environments. • The accuracy of NTP time synchronization depends on the network speed and is suitable for situations where the synchronization requirement is not high. • RF time synchronization does not rely on the network environment, offering excellent synchronization, suitable for scenarios with high synchronization requirements.

Note:

- In a synchronous playback scenario, after ensuring time synchronization through automatic or RF time synchronization, the synchronous playback function also needs to be enabled.

7.5.1 Configuring Time Synchronization

Selectable Time Synchronization methods, Time Zone, and Date and Time.

7.5.1.1 Manual Time Synchronization

The screen synchronizes date and time according to the selected time zone.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

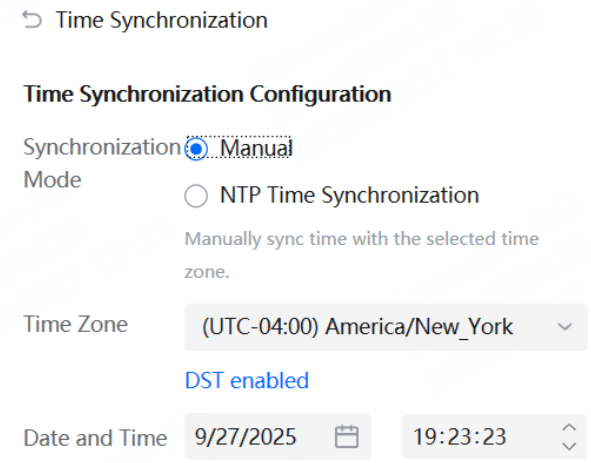
Step 2 Choose **Monitor & Control** > **Time Synchronization**.

Step 3 In the **Time Synchronization Configuration** area, select the time synchronization method as **Manual**.

Step 4 In the **Time Zone** drop-down menu, select the time zone. Users can also adjust the current date and time as needed.

If the current time zone observes daylight saving time, the app will prompt that the daylight saving time is enable, otherwise it will not be displayed.

Figure 7-19 Manual time synchronization



Step 5 For time synchronization settings, see 7.5.2 Set Time Synchronization.

Step 6 Click **Apply**.

7.5.1.2 NTP Time Synchronization

The screen synchronizes time according to the NTP Server's time.

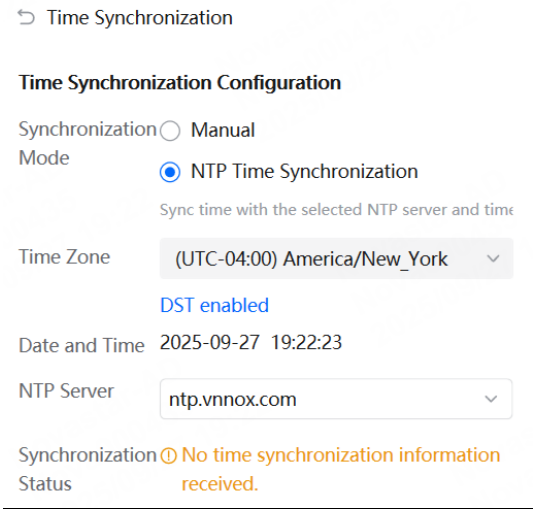
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Time Synchronization**.

Step 3 In the **Time Synchronization Configuration** area, select the time synchronization method as **NTP Time Synchronization**.

Figure 7-20 NTP Time Synchronization



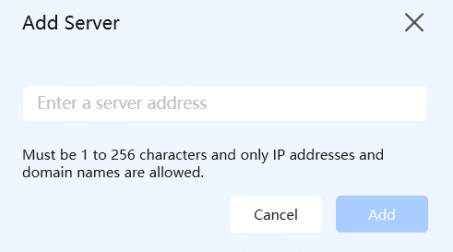
Step 4 (Optional) Select a time zone from the drop-down box of **Time Zone**.

If the current time zone observes daylight saving time, the app will prompt that the daylight saving time is enable, otherwise it will not be displayed.

Step 5 Set a time server, the time of the device is synced with the time of the time server. If the existing time server cannot meet your needs, please follow the operations below to configure a custom server.

1. Click **Add** in the NTP server drop-down list.
2. In the **Add Server** pop-up window, set the server's address. Once settings are complete, click **Add**.

Figure 7-21 Add a server



Step 6 For time synchronization settings, see 7.5.2 Set Time Synchronization.

Step 7 Click **Apply**.

Note:

- The default port used by the NTP server for LAN NTP time synchronization is port 123.
- After successful time synchronization, you can check the synchronization status of the device mode.

7.5.1.3 RF Time Synchronization

Related Information

When RF time synchronization is selected, set one Taurus device on the RF network as the master device and set other Taurus devices as slave devices.

- The master device is used for time reference. The time of the slave devices is synced with the time of the master device via RF signal.
- Taurus allows the master device to sync time with the NTP server.

Prerequisites

- The Taurus products support RF time synchronization, such as TB30, TB40, TB50, and TB60.
- Before using RF time synchronization, the RF module must be installed in advance. ViPlex Express can detect and display the RF module status.

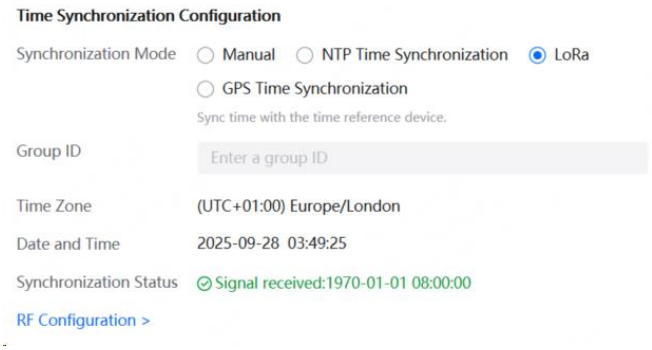
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Time Synchronization**.

Step 3 In the **Time Synchronization Configuration** area, select the time synchronization method as **LoRa**.

Figure 7-22 LoRa time synchronization



Step 4 (Optional) Select a time zone from the drop-down box of **Time Zone**.

If the current time zone observes daylight saving time, ViPlex Express will prompt that the daylight saving time is enabled, otherwise it will not be displayed.

Step 5 Set a group ID.

Enter the group ID of the master device for a slave device, and the slave device will be assigned to the same group as the master device.

Step 6 Click **RF Configuration**.

Step 7 Turn on **RF Synchronization**, and select **Master Device** and **Slave Device**.

After RF synchronization is applied, the time, brightness, volume, and environmental monitoring data of the slave devices will be synchronized with the master device via RF signal. Check the RF synchronization data needed according to the application scenarios.

Figure 7-23 Master device

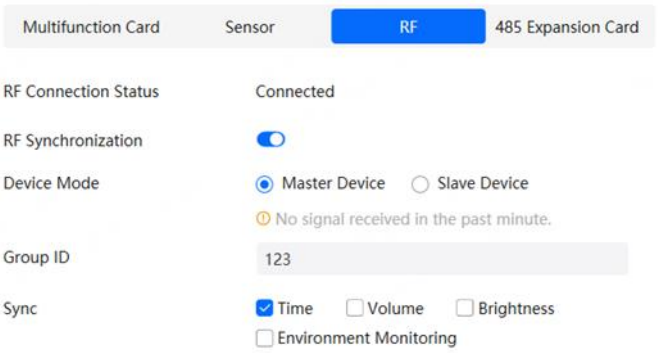
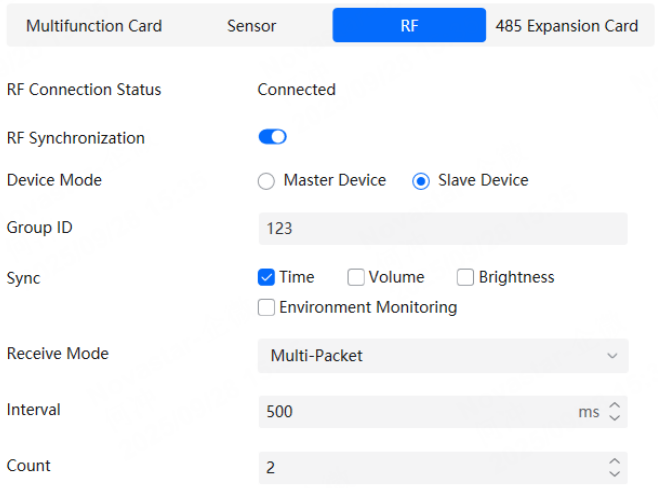


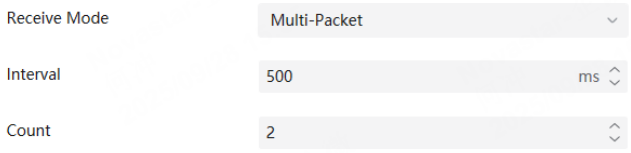
Figure 7-24 Slave device



Step 8 (Optional) Set the command receiving mode for the slave device.

- Single-packet: The slave device receives the command once.
- Multi-packet: Set the command receiving times to "X" and the command receiving interval to "Y". The slave device will receive commands X times in total, with an interval of Y seconds between each.

Figure 7-25 Receiving mode



Note:

- Multi-Packet: The control computer continuously sends n packets of black screen commands. As long as the slave device receives one, it is considered received, and then it is executed. Thus, the multi-packet scenario is generally used for real-time command response situations.
- Single Packet: Synchronous playback actually relies on the accuracy of time synchronization, which occurs every 1 min. Therefore, losing a few packets of data does not have a significant impact, so the single packet (default) is generally used for synchronous playback scenarios.

Step 9 Click **Apply**.

Step 10 For time synchronization settings, see 7.5.2 Set Time Synchronization.

Step 11 Click **Apply**.

Note:

- After successful time synchronization, you can check the synchronization status of the device mode.

7.5.1.4 GPS Time Synchronization

Prerequisites

- Before using GPS time synchronization, you need to purchase and install the network module in advance.
- Please update the Taurus player to the latest version.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

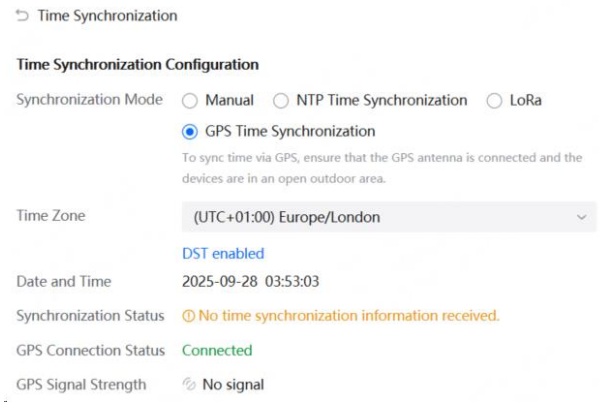
Step 2 Choose **Monitor & Control** > **Time Synchronization**.

Step 3 In the **Time Synchronization Configuration** area, select the time synchronization method as **GPS Time Synchronization**.

Step 4 (Optional) Select a time zone from the drop-down box of **Time Zone**.

If the current time zone observes daylight saving time, the app will prompt that the daylight saving time is enable, otherwise it will not be displayed.

Figure 7-26 GPS Time Synchronization



Step 5 For time synchronization settings, see 7.5.2 Set Time Synchronization.

Step 6 Click **Apply**.

Note:

- After successful time synchronization, you can check the synchronization status of the device mode.

7.5.2 Set Time Synchronization

Prerequisites

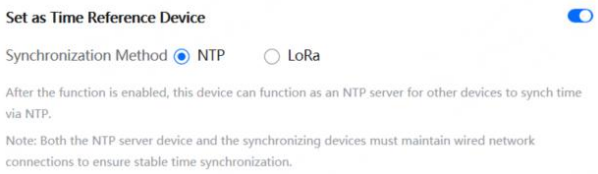
Time synchronization configuration is completed.

Operating Procedure

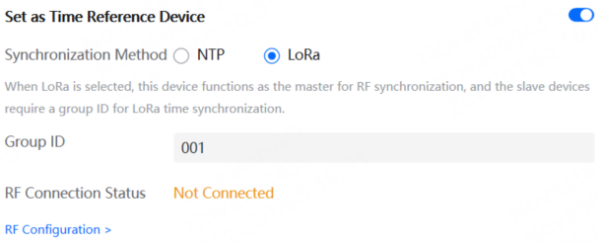
Step 1 Turn on **Use as a Reference Device**.

Step 2 Select a time synchronization method: **NTP** or **LoRa**.

- NTP: This device can serve as an NTP Server for other devices to use for NTP time synchronization.



- LoRa: Set the group ID of the master device, which acts as the RF synchronization master device. The slave device requires the group ID for LoRa time synchronization.



7.5.3 Synchronous playback

Step 1 Turn on **Synchronous Playback**.

After synchronous playback is turned on, the playback limits will change. It's recommended to turn on synchronous playback before publishing the playlist.

Figure 7-27 Synchronous playback

Step 2 Click **Apply**.

7.6 Network Configuration

Configure the currently used network, including wired network, Wi-Fi, AP, and 4G network, and also perform detection networks.

7.6.1 Configure Wired Network

Scenarios

When using an Ethernet cable to connect the screen to the Internet, please make settings based on actual needs.

Operating Procedure

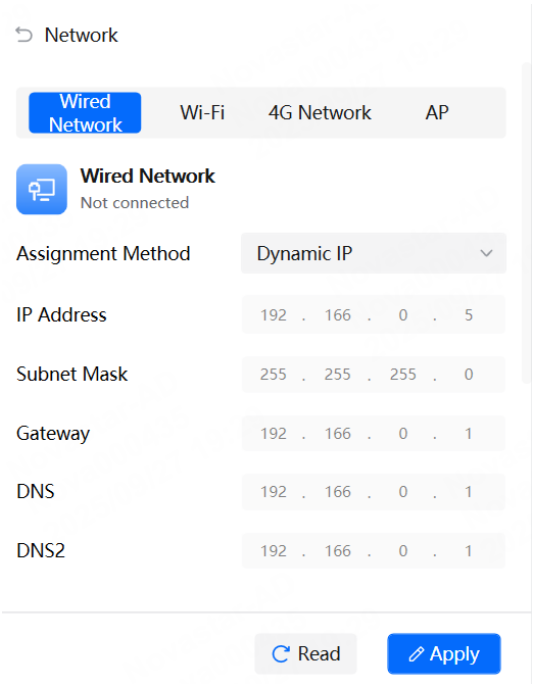
Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Network** > **Wired Network**.

Step 3 Perform the following operation according to actual requirements.

- In the **Assignment Method** drop-down menu, select **Dynamic IP** to automatically obtain an IP Address.
- Select **Static IP** from the **Assignment Method** drop-down, and manually configure the static IP address information.

Figure 7-28 Wired network configuration

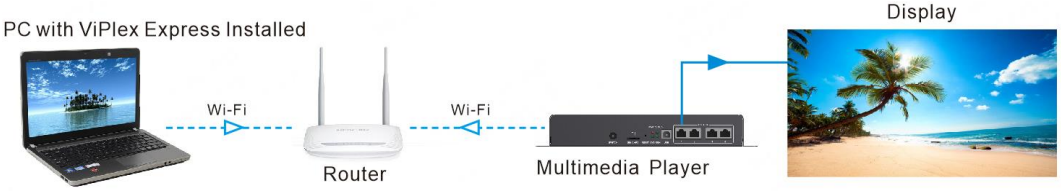


Step 4 After the configuration is complete, click **Apply**.

7.6.2 Configure Wi-Fi Network

Scenarios

Taurus that supports dual Wi-Fi modes, such as TB60, can be configured with Wi-Fi through ViPlex Express.



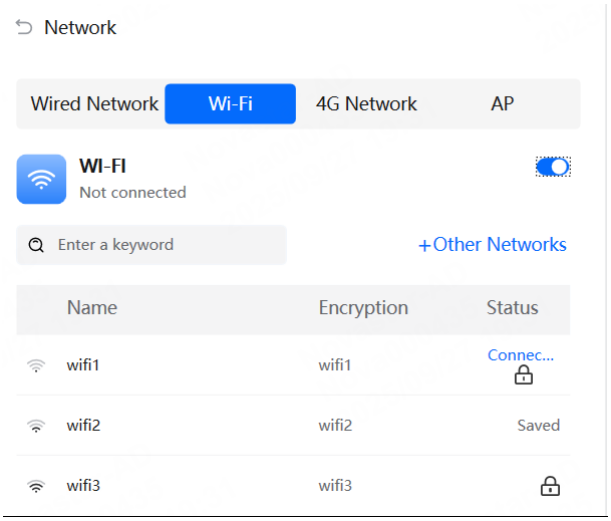
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Network** > **Wi-Fi**.

Step 3 Turn on Wi-Fi ( ).

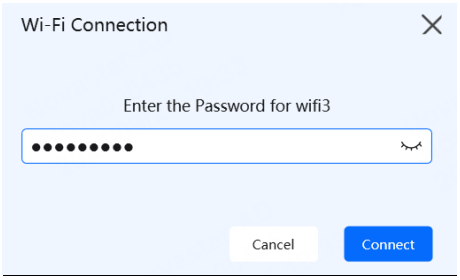
Figure 7-29 Wi-Fi configuration



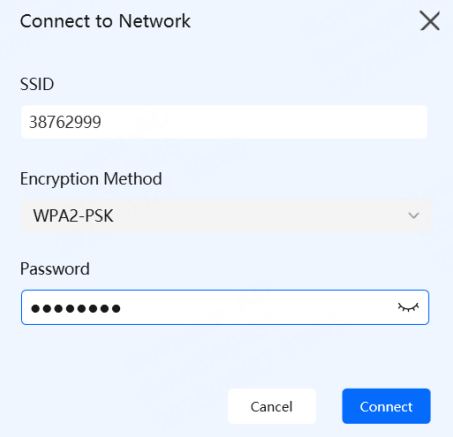
Step 4 (Optional) Enter a Wi-Fi network name in the search box to search for the Wi-Fi network.

Step 5 In the list, select a saved Wi-Fi network, double-click it, enter the password, and click **Connect**. Once the Wi-Fi network is connected, **Connected** will appear next to the Wi-Fi network name.

Figure 7-30 Wi-Fi network connected



Step 6 (Optional) Click **Other Networks**, enter the SSID and password in the window that appears, select the encryption method, and click **Connect**.



7.6.3 Configure 4G Network

A player with a network module can access the Internet using mobile data. ViPlex Express automatically detects the mobile network status and displays the detection results.

Note:

- Only TB series devices support configuring 4G Network.

Scenarios

If the Taurus supports the installation of network modules, you can configure a physical SIM to enable the Taurus to connect to the Internet via the physical SIM.

Prerequisites

- Network module has been purchased and installed.
- A 4G SIM card is ready for use.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Insert the 4G card into the slot.

Step 3 Choose **Monitor & Control** > **Network** > **4G Network**.

Step 4 Turn on **Mobile Network**.

Step 5 Set the AP name in the drop-down options.

7.6.4 Configure AP

Operating Procedure

Modify the screen's Wi-Fi AP name, password, channel, and power, and set local isolation.

Step 1 Select the target screen under **My Screens**.

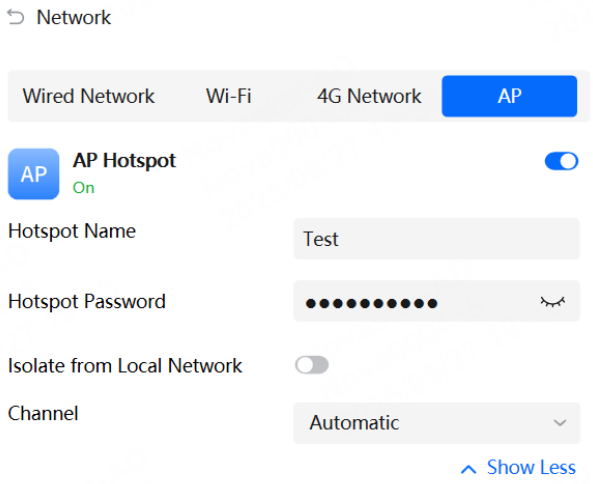
Step 2 Choose **Monitor & Control** > **Network** > **AP**.

Step 3 Do the following as required.

- AP Hotspot: Turn on/off the Screen's Wi-Fi AP.
- Hotspot Name: The hotspot name can be modified.
- Hotspot Password: Change the screen's Wi-Fi AP password.

  For example, the default SSID of the Taurus is "Model+*Last 8 digits of SN*", and the default password can be found on the SSID label on the device.
- Show More > Isolate from Local Network: When  is enabled, the screen's Wi-Fi AP can be isolated from the local network, preventing users from accessing the screen's local network via the Wi-Fi AP connection.
- Show More > Channel: Select **Automatic** or a channel from the drop-down menu.

Figure 7-31 Screen AP configuration



Step 4 After the configuration is complete, click **Apply**.

Note:

- When connecting to the screen AP, if both the AP and connection password are changed simultaneously, the AP will disconnect, and the screen will go offline, leading to a failure in changing the connection password.

7.6.5 Configure Network Detection

Players by default detect the network connection status via pinging cloud publishing and www.baidu.com. Users can configure the addresses to be pinged and enable or disable these addresses.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

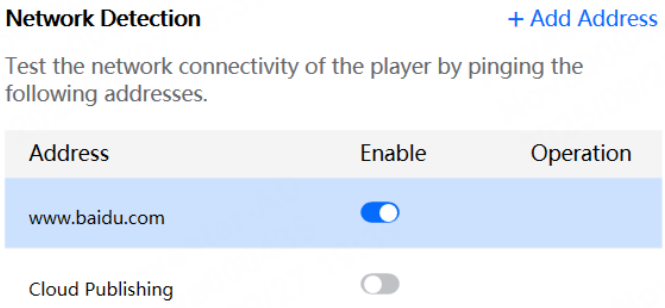
Step 2 Choose **Monitor & Control** > **Network**.

Step 3 In the **Network Detection** area, configure the network detection address.

- Click **Add Address**, and click ✓ after an address is added.
- Click ✎ to modify the address.
- Click 🗑 to delete the address.

Default configuration cannot be modified or deleted.

Figure 7-32 Network detection



Step 4 Enable or disable detecting addresses.

- Set the switch below **Enable** to ●, and ping the corresponding address to detect the screen network.
- Set the switch below **Enable** to ○ to prevent detecting the screen network through pinging the corresponding address.

Step 5 Click **Apply**.

7.7 Playback Management

Configure screen playlist management and playback.

7.7.1 Playlist Management

Display current device storage information and manage playlists.

7.7.1.1 Device Storage

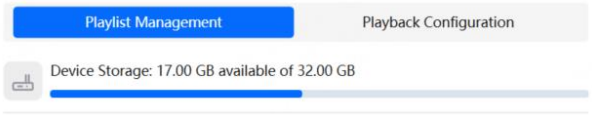
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Playback Management** > **Playlist Management**.

Step 3 View device storage information, including the device's total storage capacity, used space, and available space. If the screen has an external storage device, such as a storage expansion USB drive, you can also view the external storage information.

Figure 7-33 Device storage



7.7.1.2 Playlist Management

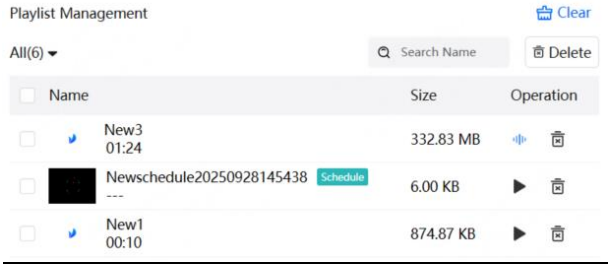
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Playback Management** > **Playlist Management**.

Step 3 In the **Playlist Management** area, you can view current playlists, search, play, and delete playlists, and more.

Figure 7-34 Playlist management



7.7.2 Playback Configuration

Configure the playback mode and content playing on the screen.

7.7.2.1 Basic Configuration

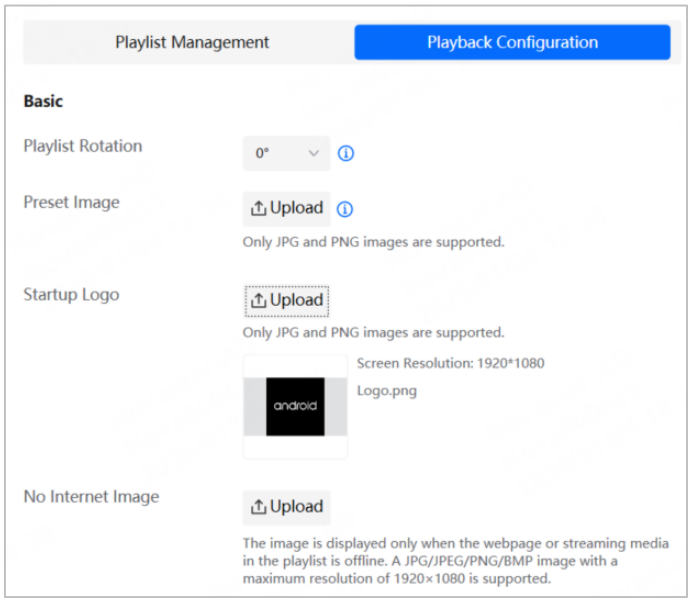
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Playback Management** > **Playback Configuration**.

Step 3 In the **Basic Configuration** area, you can configure the basic playback information as needed.

Figure 7-35 Basic configuration



- Playlist Rotation (supported only by Taurus and TU15 Pro/20 Pro): Select the rotation angle of the playback window from the drop-down options. The rotation angle is an absolute angle.
- Preset Image (supported only by Taurus): When the system runs abnormally, causing the playlists to be lost, the screen will play the preset image. Click **Upload** to proceed to settings. Only JPG and PNG images are supported, and the image needs to match the screen size.
- Startup Logo (supported only by Taurus): After enabling this feature, you can click **Upload** to configure settings, and it only supports images in JPG/PNG format. The image needs to match the screen size.
- No Internet Image (only supported by Taurus V4.7.7 and later): The image is displayed only when the web page or streaming media in the playlist goes offline. JPG/JPEG/PNG/BMP formats of images are supported and the maximum resolution is 1920×1080 pixels.

Step 4 After the configuration is complete, click **Apply**.

7.7.2.2 Simple USB Playback

Simple USB playback does not require entering a connection password, allowing the device to play video and image files from a USB drive.

Prerequisites

Only Taurus series devices are supported.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

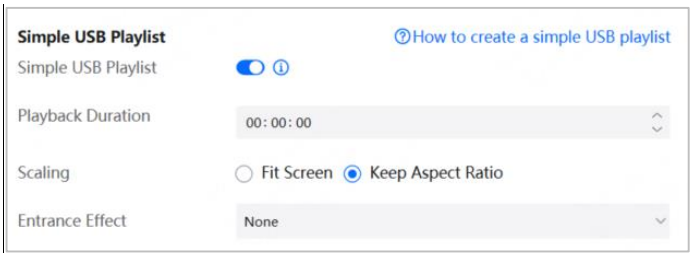
Step 2 Choose **Monitor & Control** > **Playback Management** > **Playback Configuration**.

Step 3 In the **Simple USB Playback** area, turn on **Simple USB Playback**.

Step 4 Set the playback duration, scaling and effect as needed.

Step 5 Click **Apply** to apply the standalone playback parameters to the screen.

Figure 7-36 Simple USB playback parameter configuration



Step 6 Insert a USB drive into the USB port of the computer, create a playback directory and put the required playback files into the root directory of the USB drive.

Step 7 Rules for playback file names: 3 digits in ascending order according to the playback sequence (example: 001-XXX, ..., 999-XXX)

Step 8 Insert the USB drive into the USB port of the device.

Step 9 The transfer progress is displayed on the screen. The files in the USB drive will be played on the screen after the files are copied to the device.

7.7.2.3 Multi-Screen Mosaic

Scenarios

Quickly mosaic multiple screens with the same specifications into a display.

Prerequisites

- Devices that support multi-screen mosaic include T50/T60/TB40/TB50/TB60/AD20 (V4.7.7 and later).
- The devices used for mosaic should be of the same model and firmware version.
- The devices used for mosaic have the same screen resolution, so there is no need to set an offset.
- The device's video source control mode is set to the default option: **HDMI Preferred**.
- The maximum number of screens used for mosaic is 10, and the maximum mosaic width is 4096 pixels.
- The video source only needs to be input at the starting device, and the internal source resolution (defaults to 1080p) must be greater than or equal to the resolution of the entire mosaicked screen.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

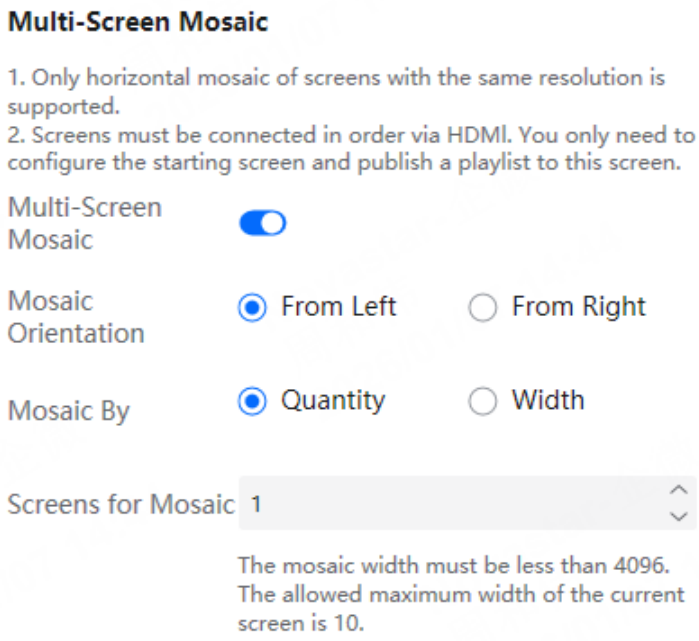
Step 2 Choose **Monitor & Control** > **Playback Management** > **Playback Configuration**.

Step 3 In the **Multi-Screen Mosaic** area, turn on multi-screen mosaic.

Step 4 Set relevant parameters according to actual conditions.

- Mosaic Orientation: Set the mosaic orientation for the screen, including **From Left** (default) and **From Right**.
- Mosaic By: Screens can be mosaicked by screen quantity (default) or by screen width.
- Screens for Mosaic: When screens are mosaicked by screen quantity, it is necessary to set **Mosaic Quantity** which refers to the number of screens used for mosaic.

Figure 7-37 Multi-Screen Mosaic



Note:

- For specific operations on multi-screen mosaic, see *Multi-Screen Mosaic Configuration Guide*.

Step 5 After the settings, click **Apply**.

7.8 Screen Topology

Configure the screen, which involves logically connecting the receiving cards. This includes configuration scenarios for both regular and ultra-long screens.

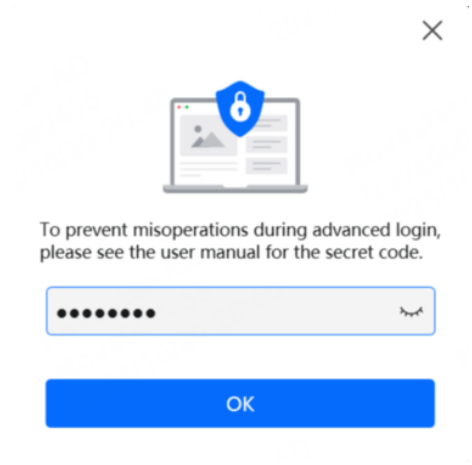
7.8.1 Regular Screen Configuration

Operating Procedure

Step 1 Select the target screen under **My Screens**.

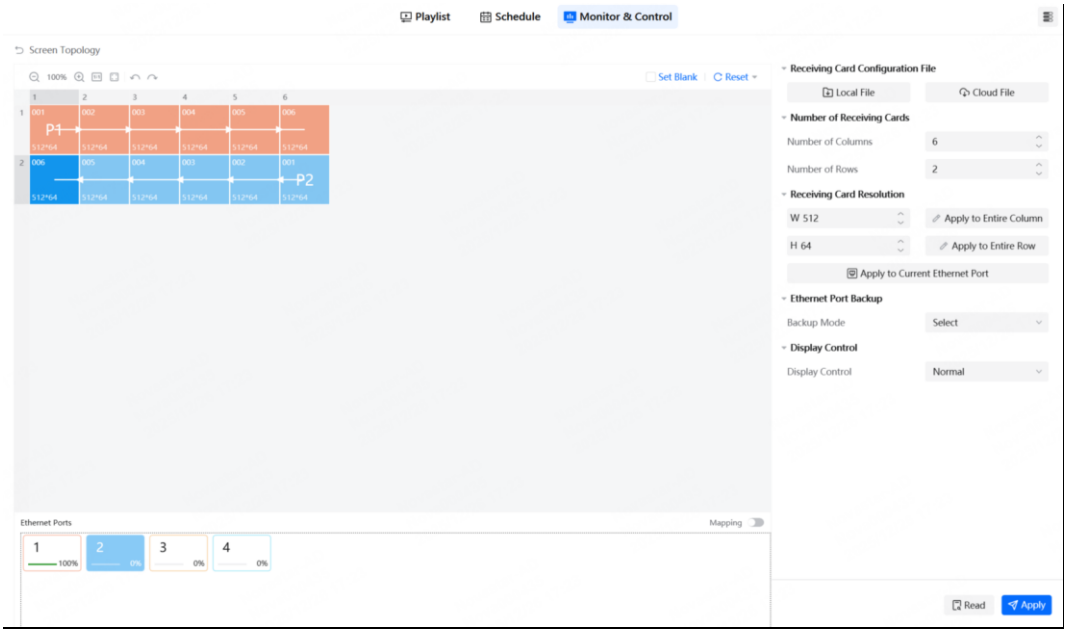
Step 2 Choose **Monitor & Control** > **Screen Topology**.

Step 3 Enter "**selftest/666888/novasoft**" and click **OK**.



Step 4 In the **Number of Receiving Cards** area on the right side of the interface, set the **Number of Columns** and **Number of Rows** for the receiving cards, for example, set Figure 7-38 to 6 columns and 2 rows.

Figure 7-38 Column and row quantity of receiving cards (Screen)



Step 5 Select an output port at the bottom of the interface. Once selected, the capacity of the first receiving card will be automatically read.

Step 6 (Optional) In the **Receiving Card Resolution** area, set the load capacity for the receiving card.

- Apply to Entire Row: Apply the height of the currently selected receiving card to all receiving cards in its row.
- Apply to Entire Column: Apply the width of the currently selected receiving card to all receiving cards in its column.
- Apply to Current Ethernet Port: Apply the current width and height to all the receiving cards connected to the output port.

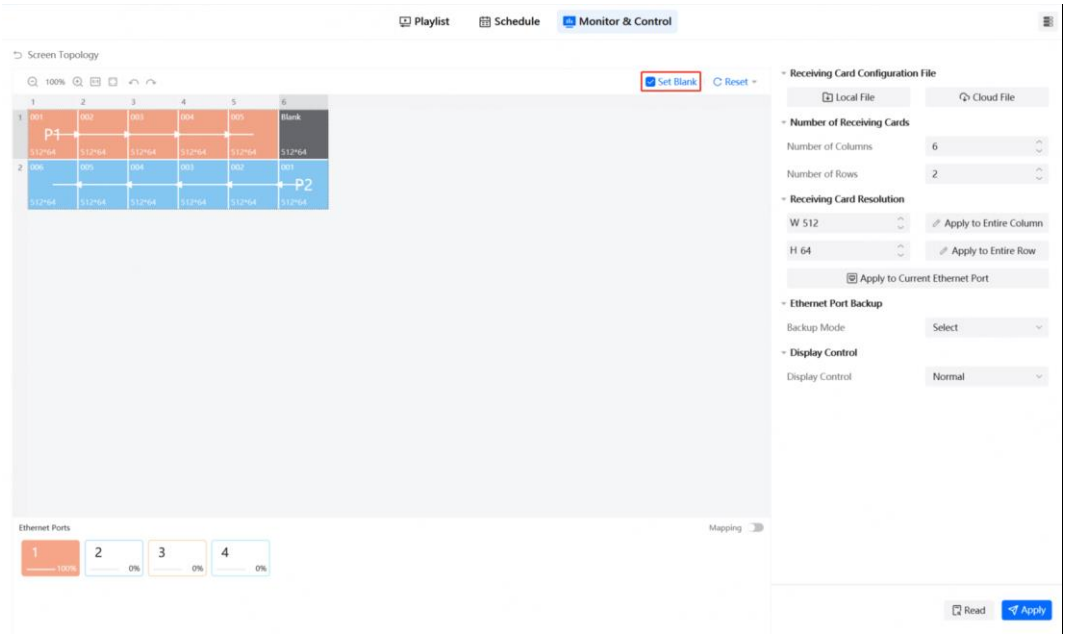
Step 7 Set the topology for the receiving cards. Click or drag the mouse to connect the receiving cards. During connection, the loading capacity defaults to the current value, but you can modify the loading capacity of the receiving card if needed.

- : Zoom out
- : Zoom in
- : Pixel to pixel
- : Auto fit
- /Right-click: Undo the last step.
- : Redo the last step.
- Reset: Reset all receiving card connections, then select **Reset Current Ethernet Port** or **Reset All Ethernet Ports**.

Step 8 Repeat Step 5 to Step 6 to set the connection of the receiving cards loaded by the other output ports.

Step 9 (Optional) To set receiving card to blank, click a receiving card and select **Set Blank** to leave the position of that receiving card blank. Continue clicking or dragging the mouse on the empty cabinets to set blank on the other positions.

Figure 7-39 Set blank



The receiving cards that are left blank do not load the screen to display the image, which helps to realize configuration of complex screen.

Note:

- For regular screen blank, when the receiving card slots are limited or damaged, setting the blank can passively leave the area vacant so it won't light up.

Step 10 Click **Apply** at the bottom right of the interface to send the configuration information to the hardware.

Related Operations

- Mapping: Turn on Mapping. The Mapping function is used to easily obtain the receiving card

connection information.

- Read: Read the current configuration information from the hardware.
- Receiving Card Configuration File: You can select **Local File** or **Cloud File**. After selecting a file, click **Send**.
  - Local File: Import configuration files (.scfg and .zip) from your computer.
  - Cloud File: Import the configuration file from the cloud.
- Ethernet Port Backup: Set the Ethernet port backup mode, including **No Backup**, **Half Backup**, and **Adjacent Backup**.
- Display Control: Includes **Normal**, **Test Pattern**, and **Black Screen**.

7.8.2 Ultra-Long Screen Configuration

Prerequisites

The TB60 and TU series supports ultra-long screen configuration.

Notes

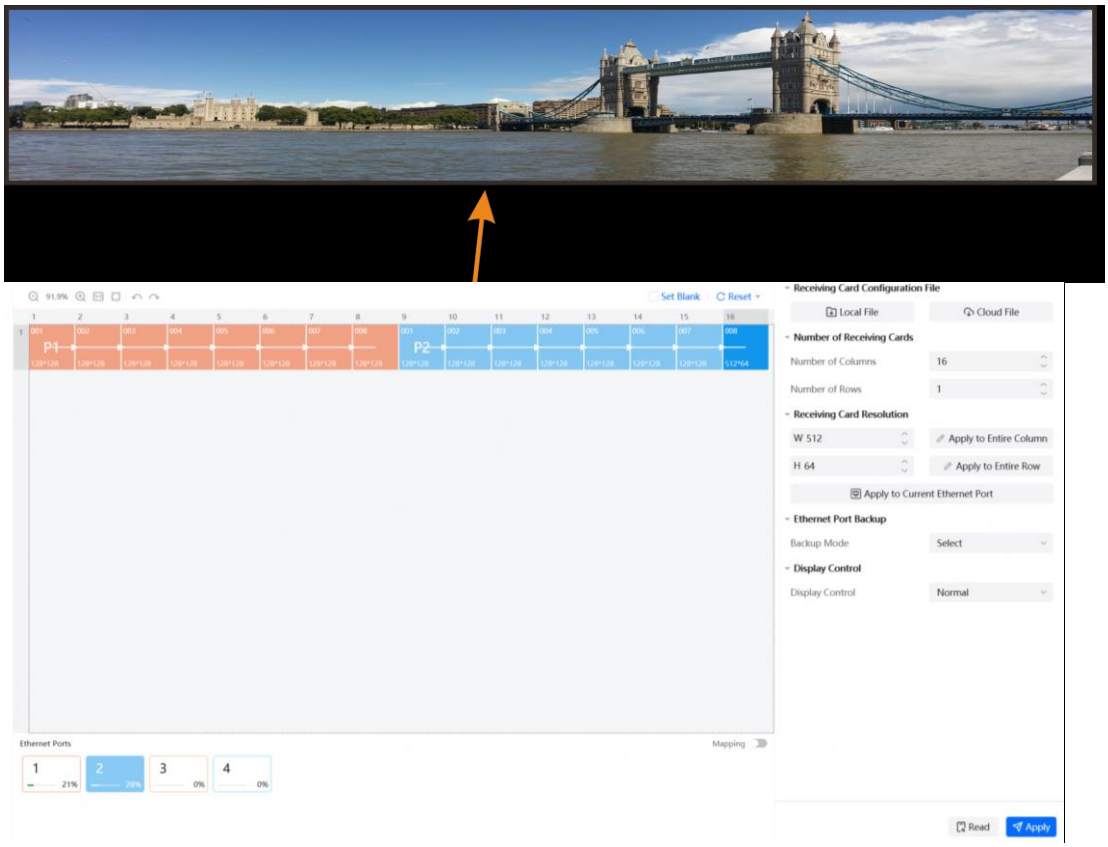
- To configure an ultra-long screen playlist with a width of 16368 pixels or less for the TB60, ViPlex Express must be used.
- To configure screens with a width more than 16368 pixels, see *Ultra-long-screen Content Playback Configuration Guide*.
- When configuring an ultra-long screen, simply set the receiving card connection as usual.

Operating Procedure

Step 1 For specific operations, see 7.8.1 Step 1~7.8.1 Step 3.

Step 2 In the **Number of Receiving Cards** area on the right side of the interface, set the **Number of Columns** and **Number of Rows** for the receiving cards.

Figure 7-40 Number of columns and rows (ultra-wide screen)



Step 3 For specific operations, see 7.8.1 Step 5~7.8.1 Step 10.

7.9 Cloud server Configuration

7.9.1 Bind to cloud publishing service

Scenarios

The screen can be bound to the ViPlex Express cloud.

Prerequisites

Only Taurus and TU devices support this feature.

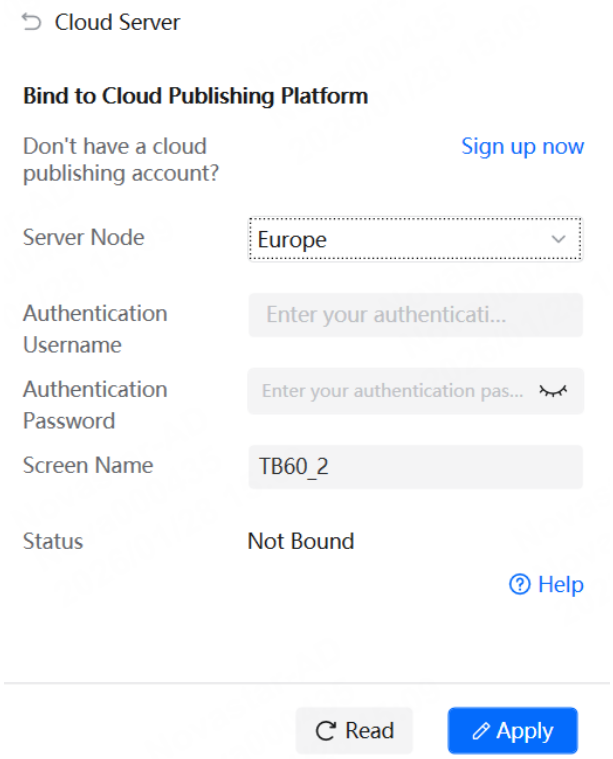
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Cloud Server**.

Step 3 In **Bind Cloud Publishing Platform**, select a server node, enter the authentication username, authentication password, and screen name. The authentication information must be consistent with the information in VNNOX.

Figure 7-41 Bind cloud publishing platform



Step 4 Click **Apply**.

7.9.2 View Cloud Monitoring Service Binding Information

Note:

- This feature is only displayed when the screen is bound to the cloud monitoring service.

View the information of the cloud monitoring service bound to the screen.

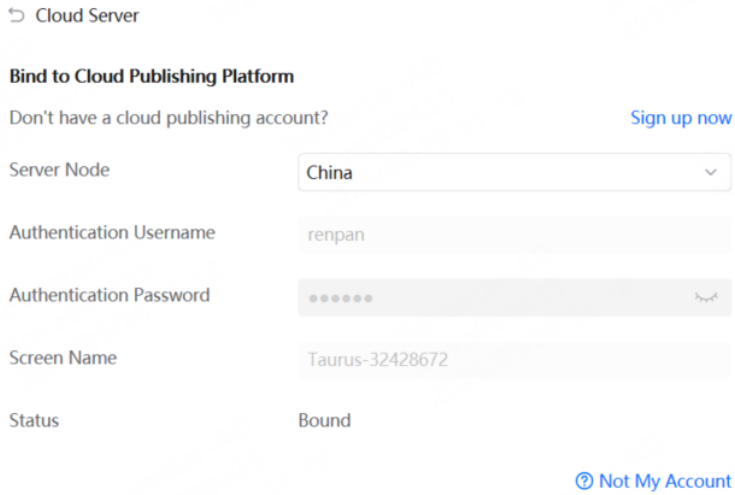
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Cloud Server**.

Step 3 In **Bind Cloud Monitoring Platform**, view the information about the cloud monitoring service bound to the current screen.

Figure 7-42 Binding information



7.10 Peripheral Management

7.10.1 Multifunction Card

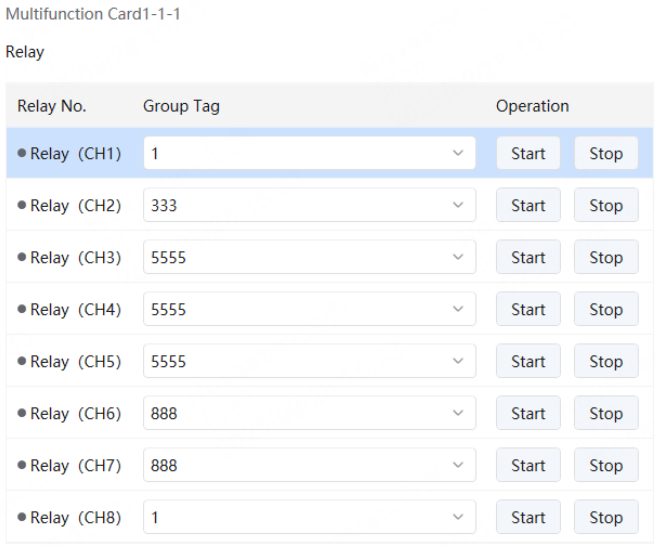
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Choose **Monitor & Control** > **Peripherals**.

Step 3 In the **Multifunction Card** area, you can view the connection status of the relay, set the start delay duration, and assign group tags to the relays on the multifunction card. You can also enable or disable the relay switch as needed.

Figure 7-43 Multifunction card



The group tag **Screen Power** indicates the board power.

7.10.2 Sensor

If the hardware connection includes a sensor, it is necessary to logically connect the sensor in ViPlex Express, so that the player can collect environment monitoring data through the sensor.

When the interface displays the RF Synchronization information, it indicates that the current player has enabled environment monitoring data synchronization. For related operations, see RF Time Synchronization. RF Synchronization divides into master device and slave device. Users only need to configure the sensor on the master device, while the slave device remains synchronized with the environment monitoring data of the master device via RF signals.

Operating Procedure

Step 1 Select the target screen under **My Screens**.

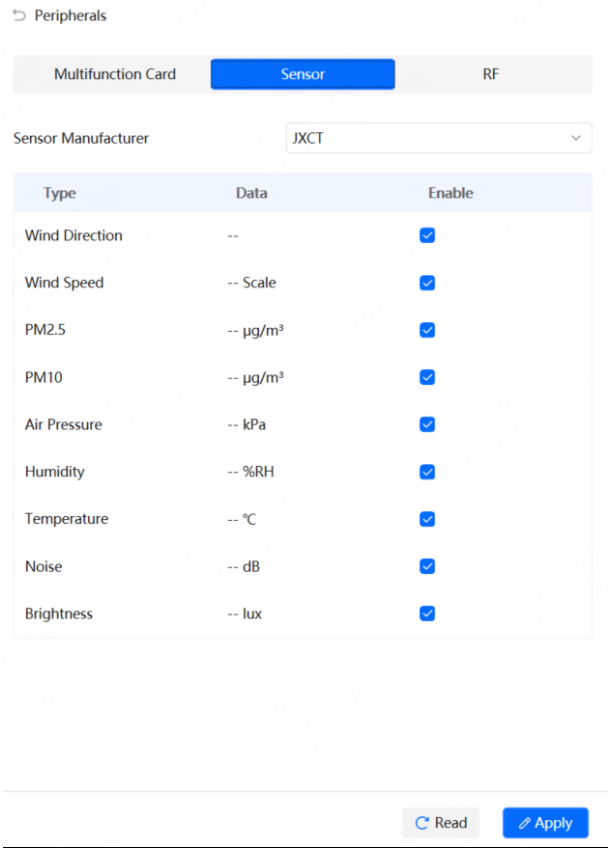
Step 2 Choose **Monitor & Control** > **Peripherals**.

Step 3 You can set the board sensors and the multifunction card sensors.

- Board sensor

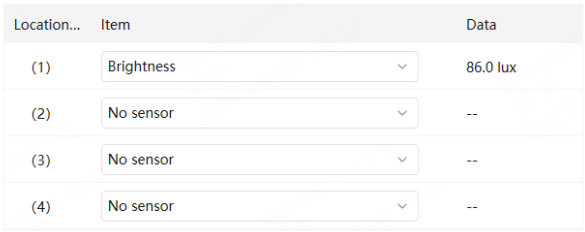
1. Choose Monitor & Control > Peripherals > Sensor.
2. Select a sensor manufacturer. NovaStar, Nenghui, or Jingxun Changtong can be selected, or click **Add** in the drop-down list to add other sensors.
3. Select **Enable** for the monitoring item that needs to be monitored.
   - NovaStar: brightness, temperature, humidity.
   - Nenghui: temperature, humidity, air pressure, wind direction, CO2, wind speed, PM2.5, PM10, noise, brightness.
   - Jingxun Changtong: wind direction, wind speed, PM2.5, PM10, temperature, humidity, air humidity, noise, brightness.

Figure 7-44 Board sensor



- Multifunction card sensor: Choose **Monitor & Control** > **Peripherals** > **Multifunction Card** to automatically display the data measured by the sensor.

Figure 7-45 Multifunction card sensor



Step 4 After the configuration is complete, click **Apply**.

7.10.3 RF

Configure the related parameters of RF synchronization and apply them to time synchronization, brightness synchronization, volume synchronization, and environment monitoring data synchronization, as well as enable or disable synchronous playback.

Prerequisites

- Only Taurus supports RF configuration.
- Before using RF time synchronization, the RF module must be installed in advance. ViPlex Express can

detect and display the RF module status.

For specific operations, see 7.5.1.3 RF Time Synchronization.

7.11 About the Screen

Display the screen's basic information, version information, network information, storage information, and time information.

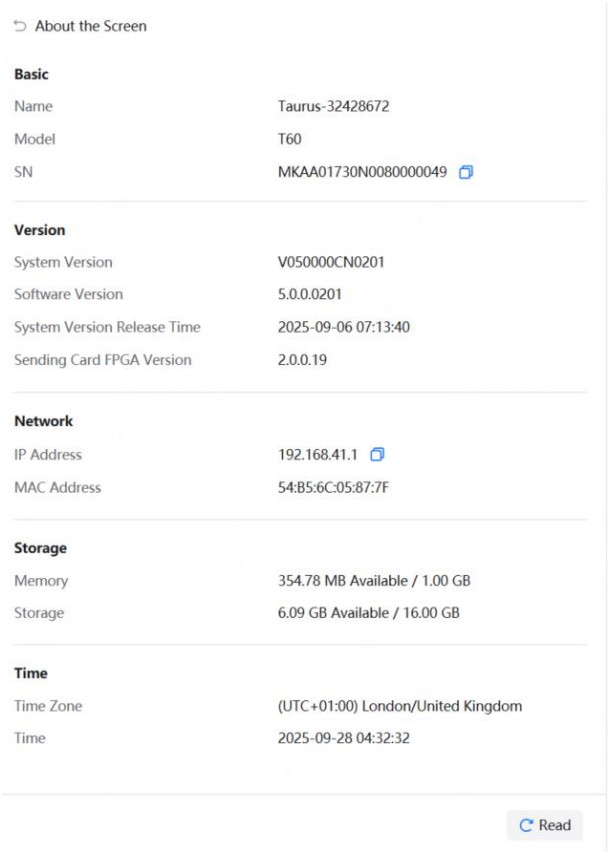
Operating Procedure

Step 1 Select the target screen under **My Screens**.

Step 2 Click the information module below the screen.

Step 3 View current screen information.

Figure 7-46 Screen information



8 Toolbar

In the menu bar at the top left of the interface, select the desired menu item to perform settings.

8.1 Device Upgrade

- When the version of Taurus is earlier than V2.3.0, it cannot be directly upgraded to V3.0.0 or later. First, you need to upgrade the player to V2.3.0 using the local file.
- When the Taurus version is later than V2.3.0, there are no version restrictions for upgrades.

Note:

- During the upgrade process, do not turn off the power. The player will restart once.

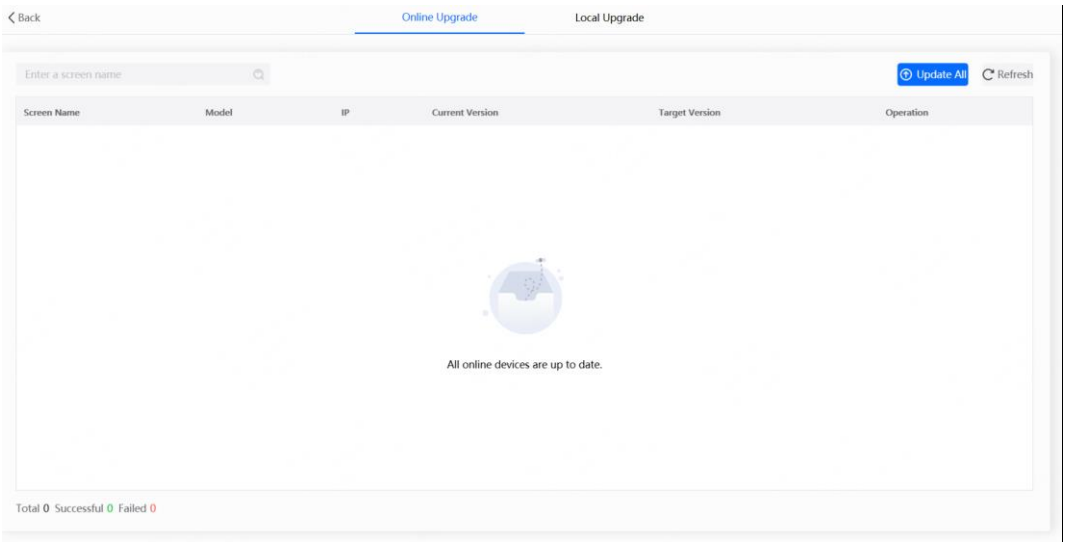
Online Upgrade

Upgrade players over the Internet. Please ensure that the PC can access the Internet normally before the operation.

Step 1 Choose **Tools** > **Firmware Update** from the menu bar in the top left corner of the interface.

Step 2 Select the **Online Upgrade** tab, click **Refresh**, and the devices that can currently be upgraded are displayed.

Figure 8-1 Online upgrade



Step 3 Click **Upgrade** under the **Operation** column, view the relevant information of the new version in the **Version Updates** window that appears, and after confirming it is correct, click **Upgrade**.

Step 4 (Optional) If you need to upgrade all the current devices pending upgrade, click **Upgrade All**.

The upgrade progress is displayed.

Local Upgrade

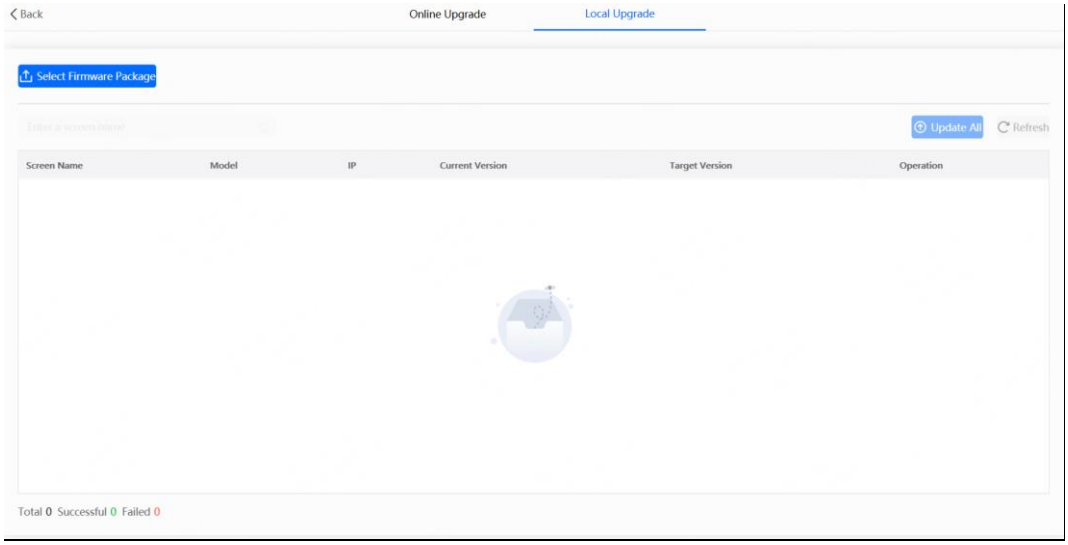
Upgrade the player version using the local upgrade package file.

Step 1 Choose **Tools** > **Firmware Update** from the menu bar in the top left corner of the interface.

Step 2 Select the **Local Upgrade** tab.

Step 3 Click **Select Firmware Package** to import the upgrade package file from the local path.

Figure 8-2 Local upgrade



Step 4 After the upgrade package file is uploaded successfully, click **Refresh** to display the devices that can be upgraded.

Step 5 Click **Upgrade** under the **Operation** column.

Step 6 (Optional) If you want to upgrade all the devices currently awaiting upgrade, click **Upgrade All**.

The upgrade progress is displayed.

Local Downgrade

Downgrade the player version using the local downgrade package file. Note: Downgrading involves risks: it will clear the database, retaining only the screen configuration and IP parameters.

Step 1 In the upper left menu, choose **Settings** > **Advanced Login**.

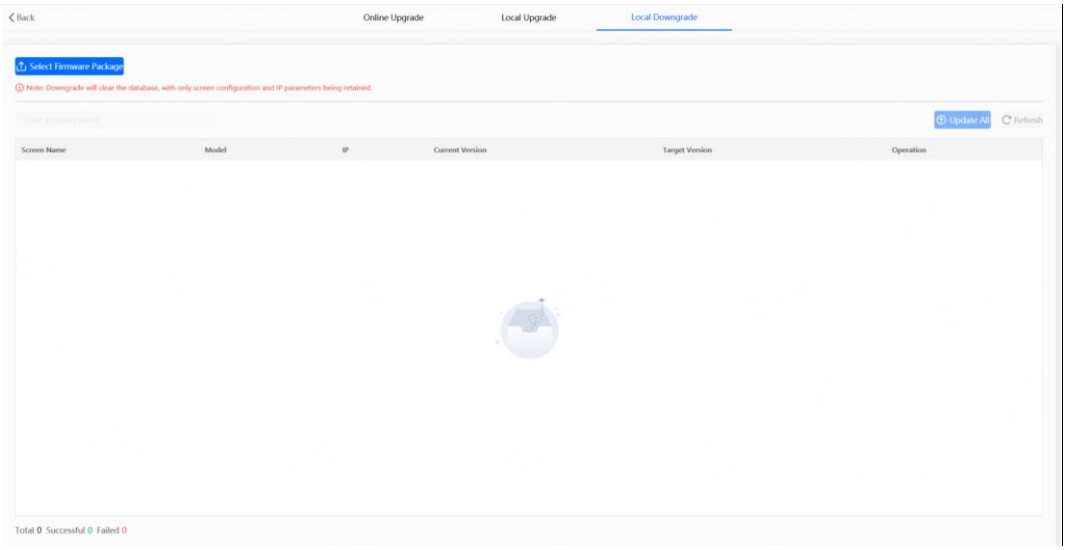
Step 2 In the pop-up window, enter **selftest** and click **OK**.

Step 3 Choose **Tools** > **Firmware Update** from the menu bar in the top left corner of the interface.

Step 4 Select the **Local Downgrade** tab.

Step 5 Click **Select Firmware Package** to import the downgrade package file from the local path.

Figure 8-3 Local downgrade



Step 6 After the downgrade package file is uploaded successfully, click **Refresh** to display the devices that can currently be downgraded.

Step 7 Click **Downgrade** under the **Operation** column.

Step 8 (Optional) If you want to downgrade all the devices currently awaiting downgrade, click **Update All**.

The downgrade progress is displayed.

8.2 Debugging Tool

Logs, **Files**, **User Software**, and **SSH** can be debugged.

Logs

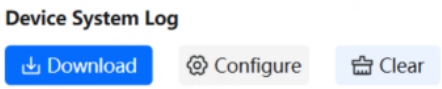
Step 1 Choose **Settings** > **Advanced Login** from the menu bar at the upper left of the interface.

Step 2 Enter "**selftest/666888/novasoft**" in the window that appears and click **OK**.

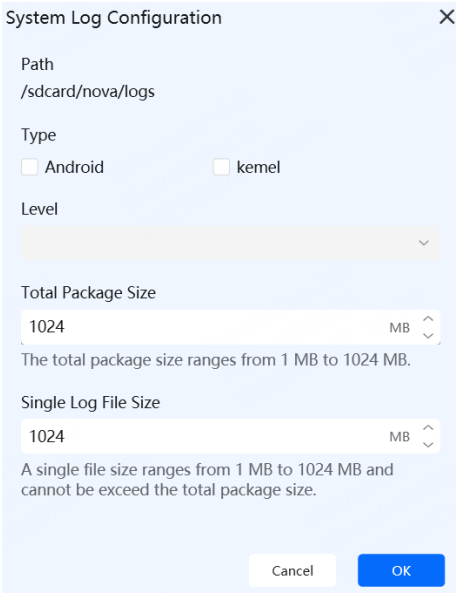
Step 3 Choose **Debugging** > **Debugging Tool** from the menu bar at the upper left of the interface.

Step 4 Under the **Logs** tab, you can configure **Device System Log**, **Device Operation Log**, **Control Computer Log**.

- Device System Log: Users can download, configure and clear logs as needed.
  - Download: After selecting a save path, click **Download** to download the system log. Once the download is complete, click **Please check it** to view the system log.

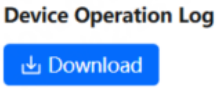


  - Configure: Click **Configure**, select the log type, level, total package size, and each record size in the **System Log Configuration** window that appears, then click **OK**.

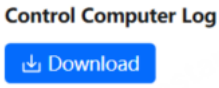


– Clear: Click to clear the system log.

- Device Operation Log: After selecting a save path, click **Download**. Once the download is complete, you can view the device operation log.



- Control Computer Log: After selecting a save path, click **Download**. Once the download is complete, you can view the control computer log.



Files

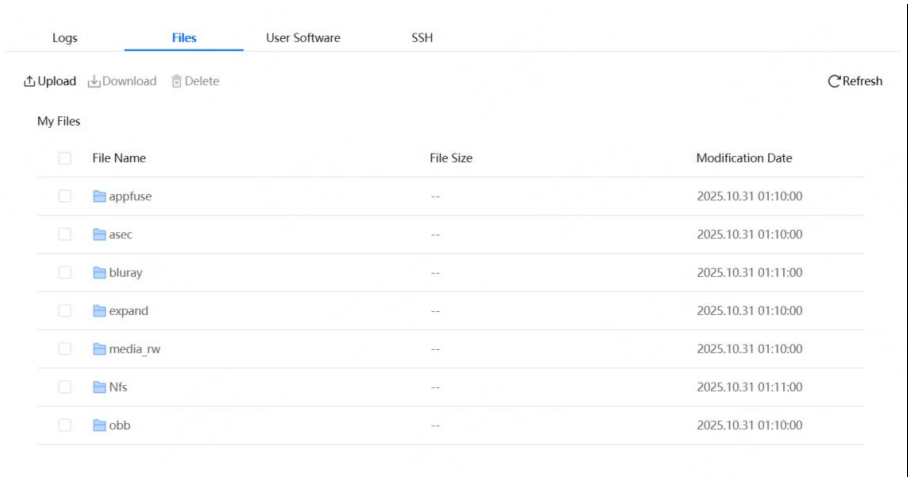
Step 1 Choose **Settings** > **Advanced Login** from the menu bar at the upper left of the interface.

Step 2 Enter "**selftest/666888/novasoft**" in the window that appears and click **OK**.

Step 3 Choose **Debugging** > **Debugging Tool** from the menu bar at the upper left of the interface.

Step 4 Under the **Files** tab, you can view files within the folder, and upload, download, or delete files as needed.

Figure 8-4 Files



- Upload: Click **Upload** to upload files from the local path. Ensure to check device storage or disk write permissions when uploading.
- Download: After selecting the file name, click **Download** to download the file to the local path.
- Delete: After selecting the file name, click **Delete** to remove the file.

User software

Step 1 Choose **Settings** > **Advanced Login** from the menu bar at the upper left of the interface.

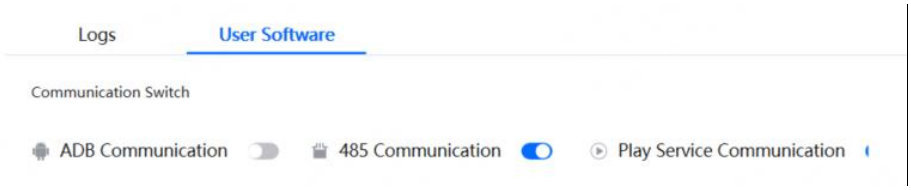
Step 2 Enter "**selftest/666888/novasoft**" in the window that appears and click **OK**.

Step 3 Choose **Debugging** > **Debugging Tool** from the menu bar at the upper left of the interface.

Step 4 Under the **User Software** tab, turn on the communication switch and manage software as needed.

- Communication switch

Figure 8-5 Communication switch



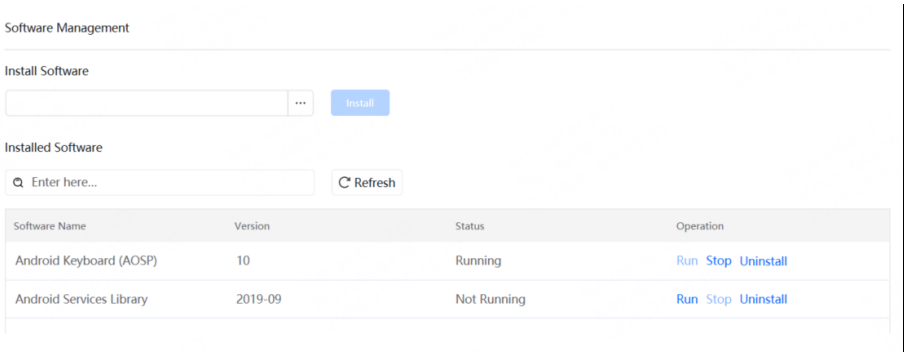
  - ADB Communication: Turn on or off **ADB Communication**.
  - 485 Communication: Turn on or off **485 Communication**.
  - Play Service Communication: Turn on or off **Play Service Communication**.

- Software management

1. In the **Install Software** section, click ··· to select the software (*.apk, *.nuzip, *.zip, *.bin) from the local file system, then click **Open**.
2. Click **Install**, confirm the installation options as needed in the window that appears, and then click **Install**.

3. Upon completion of the installation, in the **Installed Software** section, you may perform actions such as **Run**, **Stop**, and **Uninstall** on the software.

Figure 8-6 Software management



SSH

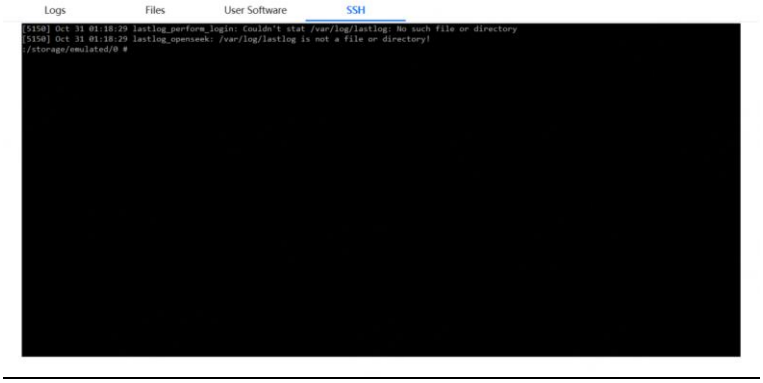
Step 1 Choose **Settings** > **Advanced Login** from the menu bar at the upper left of the interface.

Step 2 Enter "**selftest/666888/novasoft**" in the window that appears and click **OK**.

Step 3 Choose **Debugging** > **Debugging Tool** from the menu bar at the upper left of the interface.

Step 4 Under the **SSH** tab, you can enter a command in the **Command** text box and press the **Enter** key for debugging.

Figure 8-7 SSH



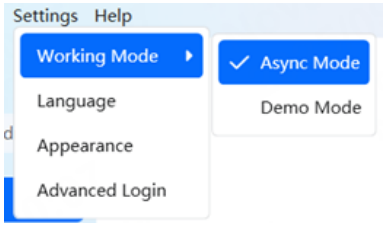
8.3 Working Mode

Step 1 Choose **Settings** > **Working Mode** from the menu bar at the top left of the interface.

Step 2 You can select **Async Mode** or **Demo Mode**.

Async mode is the default. If there is no devices on site, you can choose to enter demo mode, add virtual devices for operation, and demo mode supports creating virtual screens, using playlists, monitoring, and other functions.

Figure 8-8 Working mode



- Create Group: Click + under the **My Screens** on the left, click **Create Group**, set the group name, and then click **OK**.
- Add Screen: Click + in the virtual screen list on the left, click **Add Screen**, and set the model, name, and screen resolution in the pop-up window. After the settings, click **OK**.

  After the screen is added, hovering the mouse over the screen name will display the resolution, device model, version, IP, and SN. Right-click on the screen name to edit or delete the screen. The device model cannot be modified during editing.
- Playlist management: For detailed operations, see 4 Playlist Management.
- Schedule management: For detailed operations, see 5 Schedule Management.
- Monitor and control: For detailed operations, see 7 Monitor & Control.

8.4 Language

Step 1 Choose **Settings** > **Language** from the menu bar in the upper left corner of the interface.

Step 2 Select the preferred language.

8.5 Appearance

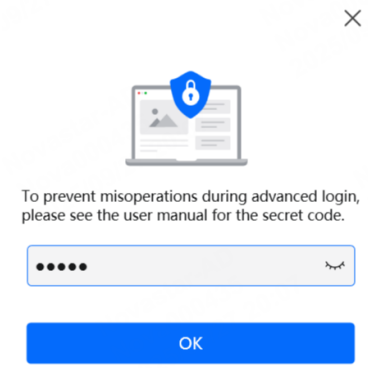
Step 1 Choose **Settings** > **Appearance** from the menu bar at the top left of the interface.

Step 2 Appearance can be switched to **Light** or **Dark**.

8.6 Advanced Login

Step 1 In the upper left menu, choose **Settings** > **Advanced Login**.

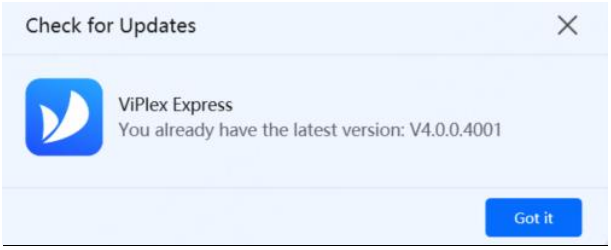
Step 2 Enter "**selftest/666888/novasoft**" in the window that appears, click **OK** to perform version downgrade. For details, see Local Downgrade.



8.7 Check for Updates

Step 1 Choose **Help** > **Check for Updates** from the menu bar at the top left of the interface.

Step 2 View the latest version information of ViPlex Express and update the version online.



8.8 User Manual

Step 1 In the upper left corner of the interface, Choose **Help** > **User Manual** from the menu bar.

Step 2 View the user documentation that comes with the software.

8.9 Download App

Step 1 Choose **Help** > **Download App** from the menu on the top left of the interface.

Step 2 You can scan the QR code to download ViPlex Handy.

8.10 About Us

Step 1 In the upper left menu bar, choose **Help** > **About Us**.

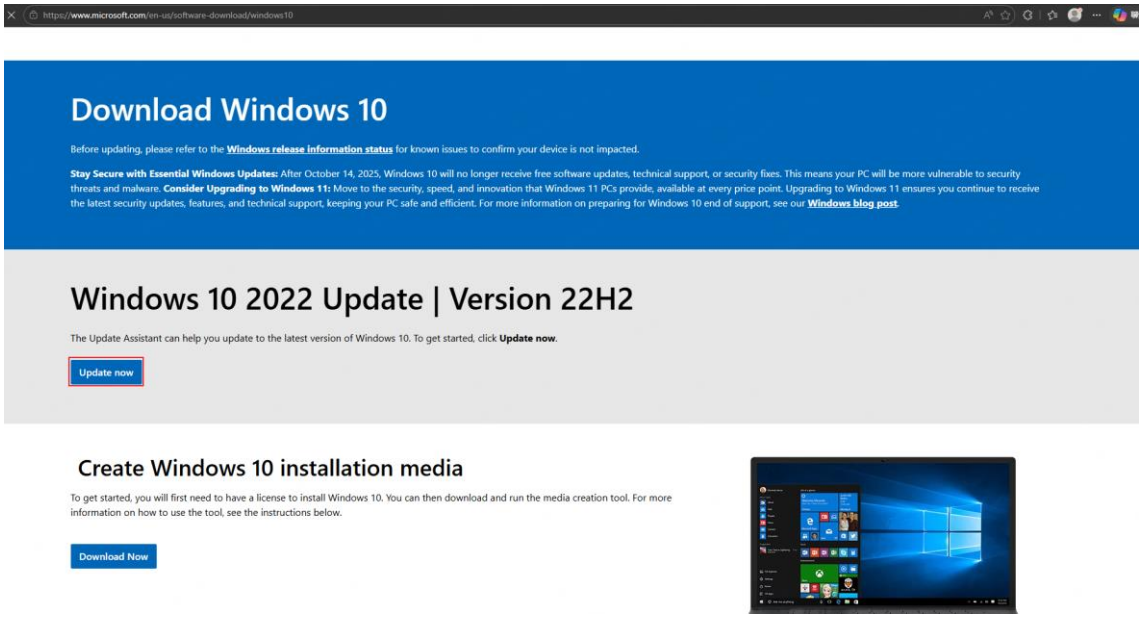
Step 2 Displays ViPlex Express version, company information, and VNNOX website address.

9 Appendix

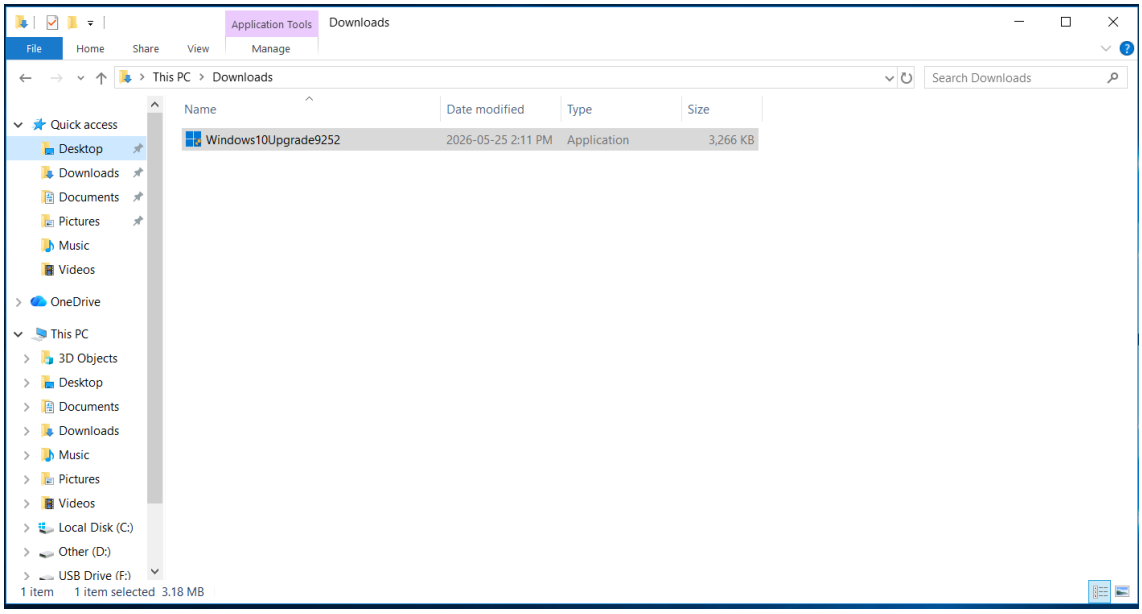
9.1 Update Guide for PCs Running Windows 10 64-bit (Prior to Version 1809)

Step 1 Visit https://www.microsoft.com/en-us/software-download/windows10.

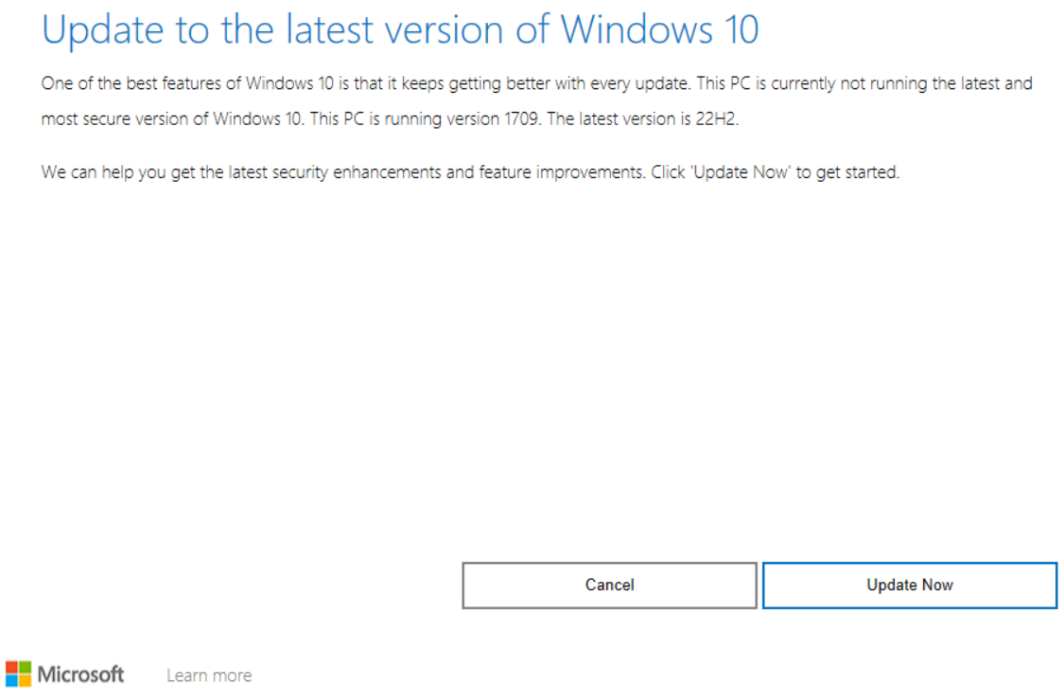
Step 2 Click **Update now** to start downloading the Windows 10 Update Assistant (.exe) to your local path.



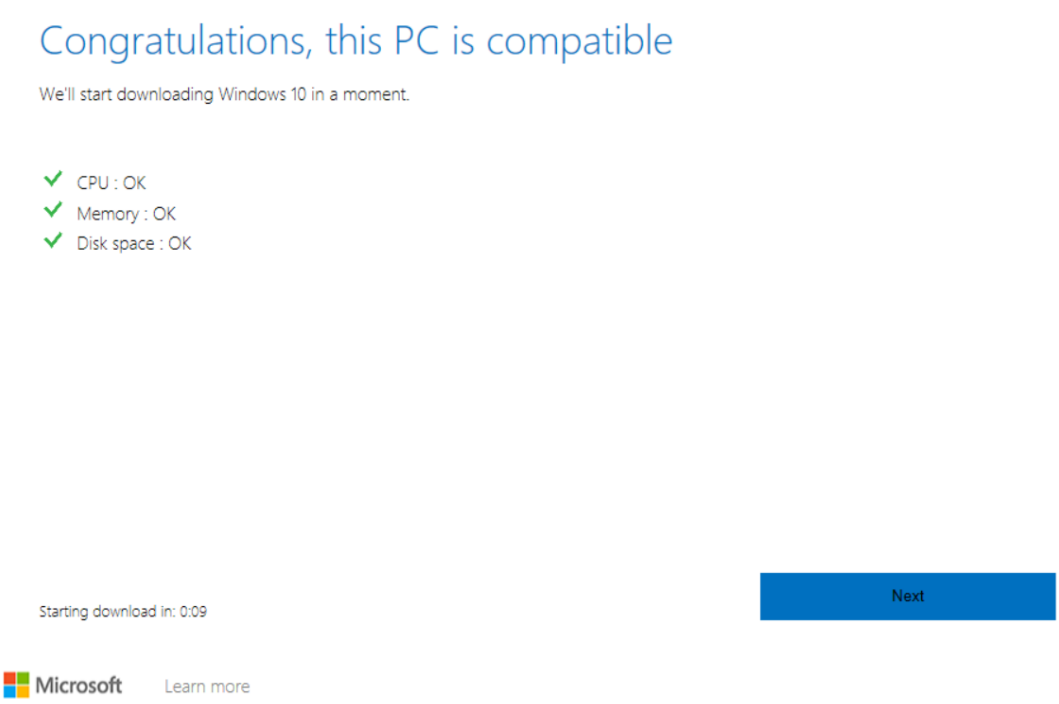
Step 3 Double-click the .exe file to run the application.



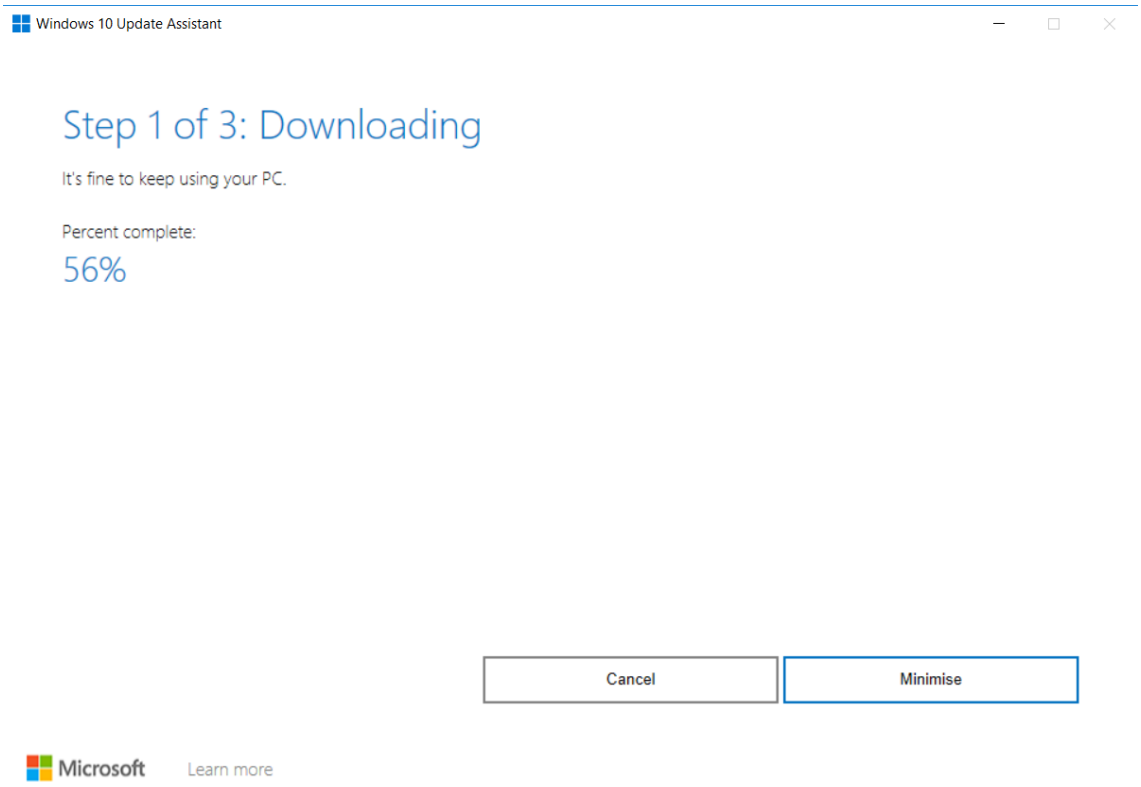
Step 4 In the **Windows 10 Update Assistant** window, click **Update Now**.

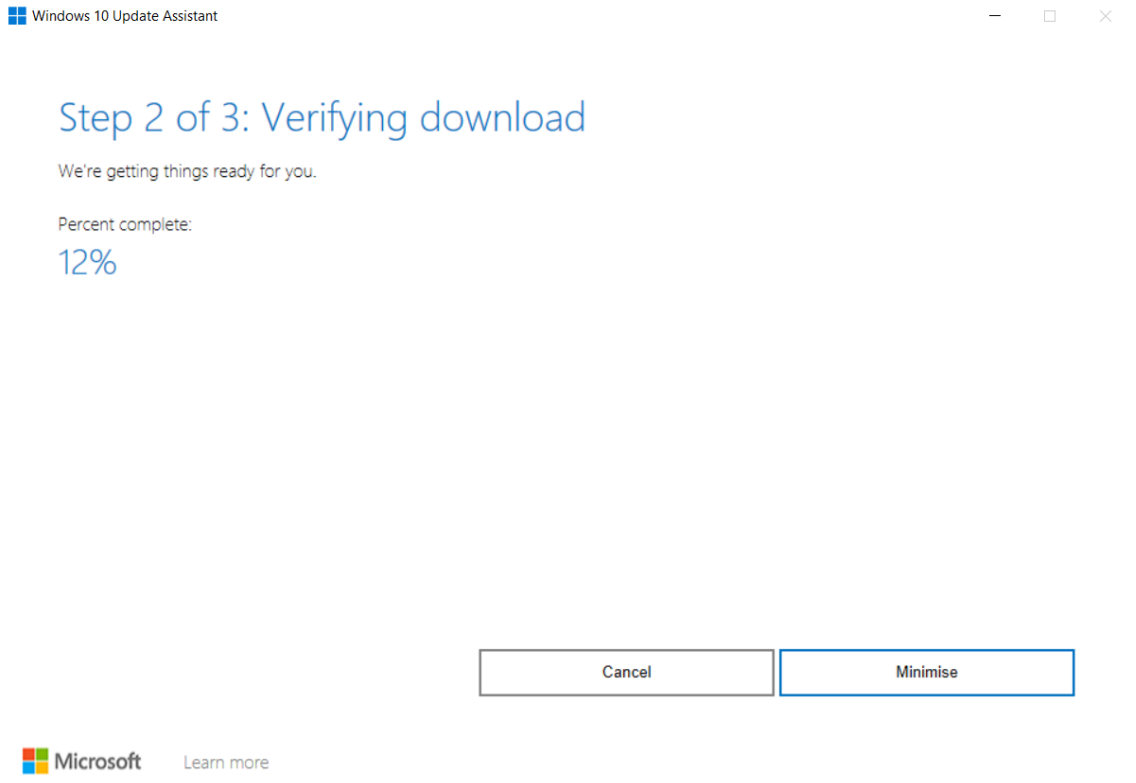


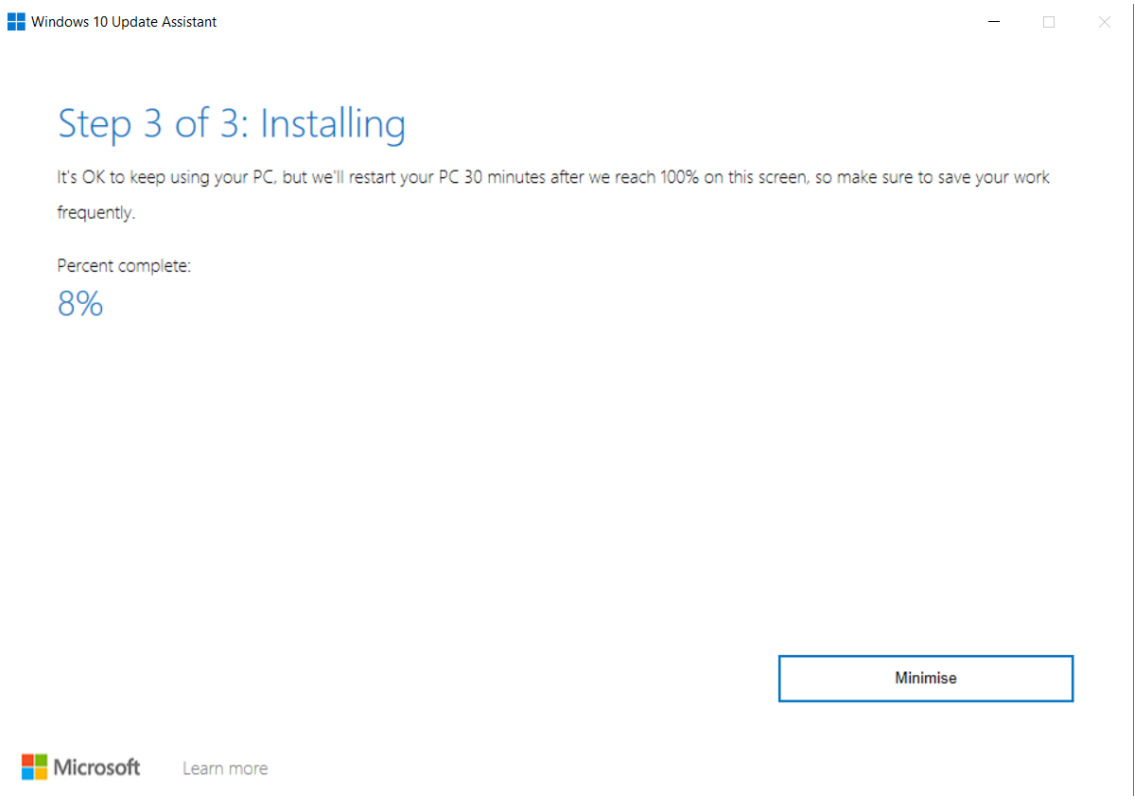
Step 5 Check PC compatibility. Once completed, click **Next**.



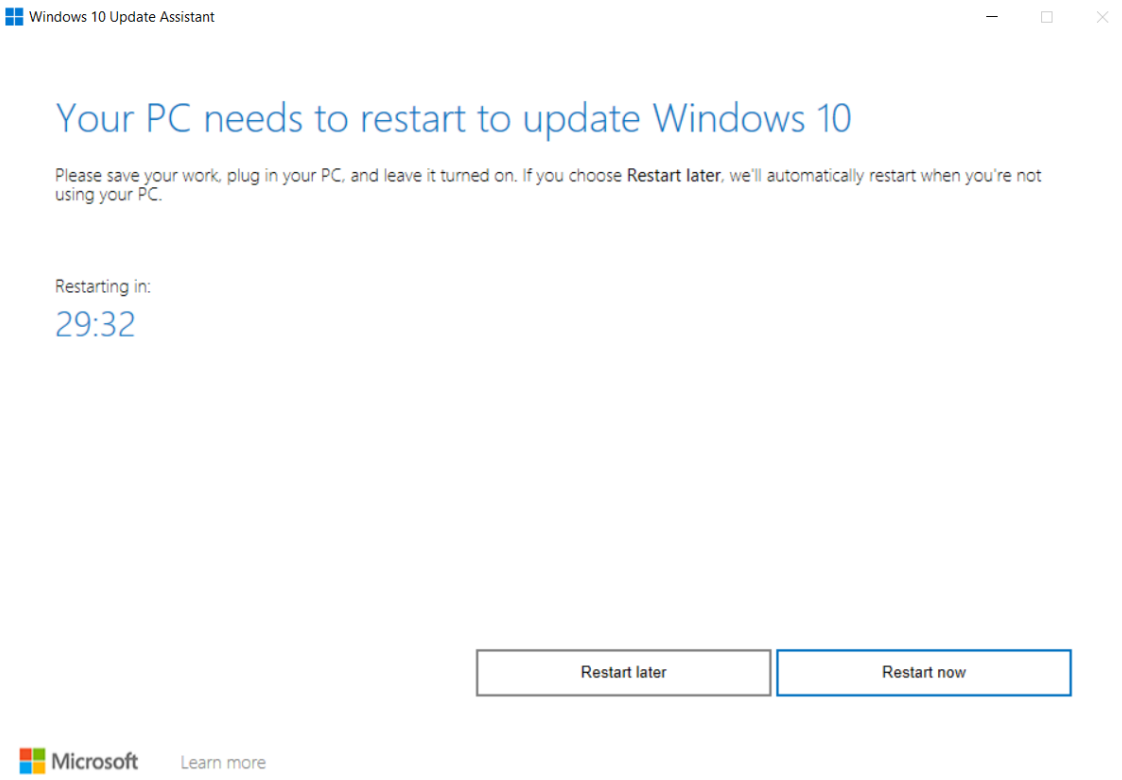
Step 6 Start download and installation, and wait for the process to finish.







Step 7 After the installation is complete, schedule a time to restart the PC as needed to update the configuration.


Windows 10 Update Assistant
Your PC needs to restart to update Windows 10
Please save your work, plug in your PC, and leave it turned on. If you choose Restart later, we'll automatically restart when you're not using your PC.
Restarting in:
29:32
Restart later
Restart now
Microsoft
Learn more