# ViPlex Express

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# Async Mode User Manual

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# **1** Software Introduction

ViPlex Express is a content publishing management system for PC, which is available for Windows and allows users to edit and play solutions on LCD or LED displays. In async mode, ViPlex Express is also used to control multimedia players. This document introduces you to the functions and operations in async mode.

## **Two Working Modes**

ViPlex Express has two working modes, and you can switch to your desired mode based on the application scenario.

#### Studio Mode

When a solution is being played in ViPlex Express, the solution is also played synchronously on the display. This mode is applicable to synchronous playback.

The playback window is on the extended display. You can use the screen monitoring function to view the playback on your primary monitor.

#### Async Mode

ViPlex Express sends solutions to multimedia players. The solutions will be stored in the multimedia players and played according to their playback plans. This mode is applicable to the scenario when multimedia players load displays.

#### Professional Solution Editing

ViPlex Express is designed with a professional solution editing function allowing you to edit solutions with various contents and complex schedules as required.

#### Multiple pages

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

#### Flexible layout

You can use a system template or customize a template when adding a page. You can set the number, coordinates, width, and height of windows based on your needs in a template.

#### A variety of media

On a page, you can add images, text, mixed media, colorful text, clock widgets, timers, weather widgets, RSS, streaming media, web pages, and cut-to-display windows.

#### Multiple properties

Every type of media has multiple properties that can satisfy your needs and present a variety of solutions.

#### Scheduling as you wish

You can set a timeslot and cycle for each page to play. The schedules of a page can be batch applied to other pages. If the timeslots of several pages overlap, the pages will be played in order from top to bottom

#### Quick preview

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

## All-round Control

In async mode, ViPlex Express enables you to fully control multimedia players, such as brightness adjustment, time synchronization, font management, player upgrade, video source switching, screen status control, play log query, network configuration, RF management, standalone playback.

# 2 Getting Started

# 2.1 Preparing a PC

Minimum requirements:

OS: Windows 7 SP1 64-bit



- CPU: i5
- RAM: 4 GB
- HDD: 60 GB

# 2.2 Installing Software

## **Prerequisites**

- Framework 4.6.x is installed.
- The official version of Visual C++ 2017 runtime components are installed.
- The installation package of ViPlex Express is obtained.

# Where to Obtain

https://www.vnnox.com/download

# **Operating Procedure**

Double click the installer and install ViPlex Express according to the setup wizard.

# 2.3 Selecting Working Mode

# **First Installation**

After ViPlex Express is first installed, a **Select Mode** dialog box appears when you open ViPlex Express. Select **Studio Mode** and click **Open**.

Figure 2-1 Selecting a mode



# **Other Situations**

If you have installed ViPlex Express or selected a working mode before, the dialog box shown in Figure 2-1 will not appear. If ViPlex Express is in studio mode by default after opened, switch to the async mode by following the steps below:

In the top-right corner, choose Source > Working Mode > Async Mode and click OK. ViPlex Express will be in async mode after restarted.

# 2.4 Connecting to Displays

Figure 2-2 and Figure 2-3 use the TB60 Taurus series multimedia player as an example to show the connection.



#### Figure 2-2 Ethernet cable



#### Ethernet cable

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

#### 🕈 🛛 Wi-Fi

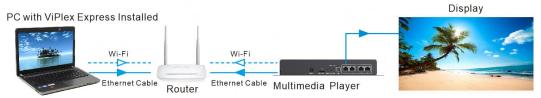
The PC with ViPlex Express installed is connected to multimedia players via Wi-Fi.

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

For example:

Taurus series and NS series: The default SSID is "AP+Last 8 digits of SN" and the default password is printed on the SSID label of the product.

#### Figure 2-3 LAN



#### Wired LAN

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

If this method is used, the configuration is not required.

#### Wireless LAN

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

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.

# 2.5 Logging In to Screens

After you select async mode, the screen page of async mode will be displayed.

#### Note:

If port 16600 is in use by another program, a notification will appear upon launching ViPlex Express, indicating that the port is being used by XXX. Please exit the XXX program and restart ViPlex Express.

#### **Required Information**

Login user name and password of the multimedia player

For example:

Taurus series and NS series: The login user name is "admin" and the default password is printed on the SSID label of the product.

#### Logging In to Screens

Step 1 Click Refresh to refresh the screen list.



Figure 2-4 Scr	reens					
					😂 Settings 🗕	□ x
ViPlex Expr Async Mode		Screens Solution		Control		Annox
Total 0	= Gonline	+ 🗔 Not	Log +	Offline 0		<u>q</u>
Screen Nam	ie ≑	Screen IP 🜲	Screen	i Size		🖱 Refresh
Taurus-40002	2453	192.168.41.1	807*80	00		
Taurus-32428		192.168.41.1	400*40	30		
Search by IP Address						V3.0.0.2401

Figure 2-4 Screens

After detecting a screen, ViPlex Express will try to log in to the screen with the default account or the account used for the last login.

If screens and ViPlex Express are not on the same network segment and their network segments can be pinged. Click **Search by IP Address** at the bottom left, select **Specify IP** or **Specify IP Range** to enter an IP address or specify an IP range, and click **Search**. After the search, connect to the screens manually.

- • Denotes that the screen is online and you can log in to it. Go to Step 2.
- Denotes the screen is offline and you cannot log in to it.
- Denotes you have successfully logged into the screen.
- Step 2 Click Connect next to screen information.
- Step 3 Enter the password for the "admin" user and then click **OK**.

After successful login, ViPlex Express saves the account information automatically.

#### **Related Operations**

After successful login, if the password is verified as a weak password, 💟 will be displayed next to the screen name. You are advised to change the password to a complex one to enhance security.

Right-click the screen information, and the related operations will be displayed:

- Log Out: Log out of the screen.
- Obtain SN: Obtain the SN of the screen. Batch obtaining of SNs is supported.
- Rename: Rename the screen.
- Change Password: Change the connection password of the Taurus Wi-Fi AP and the login password for the "admin" user.
- Forget Password: Delete the password saved during the last login.
- VPN settings: Connect to VPN, Set the VPN name and server address, select the VPN type, user name, password and secret key.
- Download Operation Log: Download the operation logs of asynchronous screens.



#### Notes:

- When the player is connected via USB cable or Ethernet cable, it is recommended that you change the Wi-Fi AP
  password and device connection password at the same time.
- When the player is connected via Wi-Fi AP, if you change the Wi-Fi AP password and device connection
  password at the same time, the Wi-Fi AP will be disconnected and the device will go offline, causing the device
  connection password change to be failed.

# 2.6 Creating Solutions

After updated, the solution data in async mode will be synchronized to studio mode.

Step 1 Choose Solutions to access the solution page.

Figure 2-5 Solutions

				🕄 Settings 🗕	□ ×
	ViPlex Express Async Mode	itions Schedule			
Net	w 🔻 Edit Delete USB pl.				Q
	Name ≑	Resolution 韋	File Size 🌲	Last Modified 🜲	
	New20240809100352	23040×98	874KB	2024-08-09 10:22:12	
	NewSolution20240808105733	23040×98	OB	2024-08-08 10:57:37	
_					

Step 2 Click **New** and select **Regular Screen** or **Ultra-Long Screen** from the drop-down menu.

The Solution Information dialog box appears.

		er a regular corcert	
	Solution Informatio	n	×
<ul> <li>Solution Name</li> </ul>	NewSolution20250109181236		
<ul> <li>Resolution</li> </ul>	Width 1920 px 📮	Height 1080 px 📮	
Select a screen	Select a screen	© Show Offline ✔	
Select Model	Select Series	Select Model	
Remarks			
		OK Cancel	

Figure 2-6 Solution information for a regular screen



U	5	
	Solution Information	×
Solution Name •	NewSolution20250328093951 Width 23040 px - Height 64 px -	
Remarks		
	OK Can	cel

- Step 3 Set a name, resolution, and other information for the solution, then click **OK** to access the solution editing page.
  - The resolution of a solution for a regular screen (hereinafter referred to as "regular-screen solution") must be consistent with the resolution of the screen.
  - The resolution of a solution for an ultra-long screen (hereinafter referred to as "ultra-long-screen solution") must be consistent with the configured screen width and height.
- Step 4 After the solution editing is done, click Save.
- Step 5 (Optional) At the upper right of the page, click with the preview the Beginner's Guide, and then click **Get Started**.
- Step 6 (Optional) At the upper right of the page, click upper to preview the current page.

When the preview window is opened, you can also select other pages to preview. If you make changes to the current page, click **Refresh** at the top right to refresh the preview window.

- Step 7 (Optional) At the upper right of the page, click View Schedule to view the schedule of each page in the solution.
- Step 8 After the solution editing is done, click **Publish** and select players to publish the solution.

# 2.7 Publishing Solutions

Solutions containing media can be published. Solution containing empty pages cannot be published.

- Step 1 Choose Solutions.
- Step 2 In the solution list, move your mouse over a solution and click

The **Publish** dialog box appears.

Figure 2-8 Publishing a solution

			Publish			×
Solution	n Name : NS				Show selected i	models only
			Select a resolution			٩
	Nombre de la pantalla	Screen Size	Screen IP	Limit Exceeded	Progress	
	Taurus-32428672	400X400	10.40.90.49			1997, 1997 1997, 1997 1997, 1997
Re	fresh		Start Pl	ayback Simultaneou	s <b>ly 🕐 P</b> ublish	Done



Step 3 Click Refresh to display all the screens that are logged in.

Note: During solution publishing, ViPlex Express automatically converts the video formats not supported by the screen.

Step 4 (Optional) Select Start Playback Simultaneously.

Start Playback Simultaneously: The screens used for synchronous playback will start playing the solution at the same time.

Step 5 Select one or more screens and click **Publish**.

Step 6 After the solution is published successfully, click Done.

#### Notes:

- Unltr-long-screen solutions do not support Start Playback Simultaneously.
- When a media file exceeds the specification limit, you can view the detailed information in the Media Check column and make improvements according to the suggestions or decode the media file through the software.

# 2.8 Controlling Screens

Users can control the brightness, display status, video source switching, etc. of a screen in real time or as scheduled. For details, see 4.4 USB Playback.

# **3** Solutions

# 3.1 Creating and Publishing Solutions

- For different screens, you can create regular-screen solutions and ultra-long-screen solutions.
- After updated, the solution data in async mode will be synchronized to studio mode.

#### 3.1.1 Regular-Screen Solutions

#### **Related Information**

- A regular-screen solution contains one or more pages and each page contains one or more media items.
- The pages of a solution are played in order from top to bottom.

#### **Operating Procedure**

Before you create a solution, get the screen resolution in advance.

- Step 1 Choose Solutions to access the solution page.
- Step 2 Click New and select Regular Screen from the drop-down menu.

The Solution Information dialog box appears.

#### Figure 3-1 Solution information

0			
	Solution Informatio	n	
<ul> <li>Solution Name</li> </ul>	NewSolution20250109181236		
Resolution	Width 1920 px 🖕	Height 1080 px 🔷	
Select a screen	Select a screen		
Select Model	Select Series	Select Model	
Remarks			
		OK Cancel	

Step 3 Set a name and resolution for the solution, select a screen and model (optional), then click **OK** to access the solution editing page, as shown in Figure 3-1.

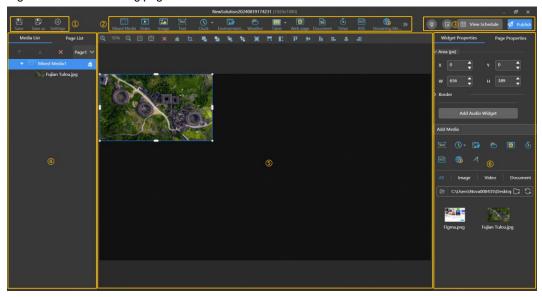


Figure 3-2 Solution editing page

The description of the solution editing page is shown in Table 3-1.

No.	Function	Description		
1	Saving a solution, saving a solution as another solution and setting solution information	Used for saving a solution, saving a solution as another solution and setting solution information		
2	Adding media You can click an icon to add a	. Mixed media	: Video	
	corresponding media item.	Text: Text	Image	
		Colorful text	EIE: Digital clock	

Table 3-1 Description of the solution editing page



No.	Function	Description		
		C : Analog clock	: Timer	
		: Weather	Environment monitoring	
		: Table	RSS: RSS	
		: Streaming media	: Web page	
		E Cut-to-display window	1	
3	Viewing the Beginner's Guide, previewing pages, viewing schedules, and publishing solutions	Used for viewing the Beginn viewing schedules, and publ	er's Guide, previewing pages, ishing solutions	
4	<ul> <li>Editing media and pages.</li> <li>Media list: Adjust media order and delete media.</li> </ul>	+ : Add	: Open the <b>Page Template</b> dialog box	
	<ul> <li>Click the up/down buttons or drag media to</li> </ul>	Е: Сору	X: Delete	
	<ul> <li>change the layer order.</li> <li>Media includes media types such as images, videos, mixed media, and documents, which can be adjusted in playback order by clicking the up/down buttons or manually dragging the media.</li> <li>Page list: Add, copy and delete pages, and adjust the page order.</li> </ul>	Move up	Move down	
	Pages play sequentially from top to bottom.			
5	Editing media on pages	€ : Zoom editing area in	Q: Zoom editing area out	
		: Show the editing area in the original size	ESS: Automatically fit the editing area according to the software interface	
		: Delete selected media	: Clear all media	
		: Crop image	EI: Bring forward	
		: Send backward	E Bring to front	
		E: Send to back	E Fill the entire screen	
		Fit the screen horizontally	Fit the screen vertically	
		: Align top	: Center vertically	
		Le: Align bottom	E Align left	
		÷: Center horizontally	E: Align right	

No.	Function	Description
6	Editing properties	Used for editing widget and page properties
		<ul> <li>Widget Properties: Widgets are the media added to a page. The properties of different types of media vary. Click a widget to select it before you edit its properties.</li> </ul>
		<ul> <li>Page Properties: Set the name, play count, validity range, and playback schedule of a page.</li> </ul>
		<ul> <li>Play Count: Set the number of times to play a page continuously.</li> </ul>
		<ul> <li>Validity Range: After this option is selected, the Start Date and End Date parameters are displayed. Expired pages will be skipped during solution playback.</li> </ul>
		<ul> <li>Schedule: Allows you to specify the timeslots to play a page and select the days to repeat the playback. If the timeslots of different pages overlap, the pages will be played in order from top to bottom.</li> </ul>
		<ul> <li>Apply Schedule: Allows you to apply the schedule of the current page to other pages. You can select multiple pages and apply a schedule to them at the same time.</li> </ul>

#### Notes

- When selecting a screen, you can choose to show or hide the offline screens.
- When you add an Excel file, you are advised to use the default row height and the number of rows of the Excel file must be less than or equal to 500. The maximum number of rows is subjected to the row height. The total width of the columns must be less than or equal to the width of an A4 landscape paper. It is recommended that you set the page layout of the Excel file to A4 landscape.
- Users can set the text color and merge the cells in the Excel file to be imported. Other properties of the cells in the Excel file currently cannot be displayed. From the navigation bar at the top, choose Setting > Feedback to give feedback if needed. If the cells have other property settings, parsing may fail or an error may occur. You can try to clear the cell formatting and import the Excel file again.
- When you add an Excel file, you cannot insert images and customize number cells.
- A valid URL is required when you add RSS, streaming media, or web page media.
- When you add weather media, the screen must be connected to the Internet to obtain real-time weather information.
- When you add environment monitoring media, connect to the sensor logically in ViPlex Express after the sensor is connected to the screen. For details, see 5.17 Sensor.
- Only the TU40 Pro/TU4K Pro support HDMI IN media, which allows the input source from HDMI 1 and the internal source to be displayed on the same screen simultaneously, enabling dual-source display.
- Step 4 At the top of the solution editing window, click Video/Image/Document/Mixed Media to open the local file explorer below the property editing area. Select the corresponding type of media from your local files for editing.

A solution can be previewed after created, ensuring the accuracy of the content and its playback effect. Multiple media files can be added to a single window, enabling playlist playback.

#### Note:

Video files do not support real-time preview and are presented in the form of still images.

- Step 5 After the solution editing is done, click **Save**.
- Step 6 (Optional) At the upper right of the page, click

to preview the Beginner's Guide, and then click Get Started.

Step 7 (Optional) At the upper right of the page, click Line to preview the current page.

When the preview window is opened, you can also select other pages to preview. If you make changes to the current page, click **Refresh** at the top right to refresh the preview window.

- Step 8 (Optional) At the upper right of the page, click **View Schedule** to view the schedule of each page in the solution.
- Step 9 After the solution editing is done, click **Publish** and select screens to publish the solution.



#### Notes

- When the solution resolution does not match the selected screen resolution, it may result in stretched or distorted images, affecting the playback quality.
- If the media specifications exceed the limit of the screen, you can view the details in the **Media Check** column and make improvements according to the suggestions provided.

#### 3.1.2 Ultra-Long-Screen Solutions

#### **Prerequisites**

The player must supports ultra-long-screen solutions.

Supported devices: TB10 Plus/TB20 Plus/TB30/TB40/TB50/TB60/T30/T50/T60/TCC160

#### **Applications**

If the pixel width of the resolution of a screen is greater than the pixel width of the maximum loading capacity of a multimedia player, but the screen resolution does not exceed the maximum loading capacity of the multimedia player, you can use ultra-long-screen solutions.

#### Note:

For the limitations on the playback parameter specifications for ultra-long screens, see Table 3-2.

## **Application Example**

The screen resolution is 23040x64 and the screen works with the TB60 multimedia player for content playback.

- Number of parts: 23040/4096=5.625, rounded to 6
- Screen width to be configured: 23040/6=3840 pixels
- Screen height to be configured: 64×6=384 pixels

#### Note

The maximum pixel capacity of the TB60 is 2.3 million. Within the maximum pixel capacity, the maximum pixel width is 23040 and the maximum pixel height is 4096. For the detailed pixel capacity limits of other models of products, see Table 3-2.

Table 3-2 Ultra-long-screen-solution	playback	parameter description

	TB10 Plus	<ul> <li>Pixel capacity up to 650,000</li> <li>Pixel width ranging from 2048 to 8192</li> <li>Pixel height ranging from 16 to 2048</li> </ul>
	TB20 Plus	<ul><li>Pixel capacity up to 650,000</li><li>Pixel width ranging from 2048 to 8192</li><li>Pixel height ranging from 16 to 2048</li></ul>
Maximum Pixel Width/Height	TCC160	<ul><li>Pixel capacity up to 650,000</li><li>Pixel width ranging from 2048 to 8192</li><li>Pixel height ranging from 16 to 2048</li></ul>
	ТВ30	<ul><li>Pixel capacity up to 650,000</li><li>Pixel width ranging from 3841 to 23,040</li><li>Pixel height ranging from 16 to 4096</li></ul>
	TB40/TB50	<ul> <li>Pixel capacity up to 1,300,000</li> <li>Pixel width ranging from 3841 to 23,040</li> <li>Pixel height ranging from 16 to 4096</li> </ul>
	ТВ60	• Pixel capacity up to 2,300,000



		<ul><li>Pixel width ranging from 3841 to 23,040</li><li>Pixel height ranging from 16 to 4096</li></ul>			
Maximum Image Resolution and Quantity		<ul> <li>Up to 10 images can be displayed simultaneously when the resolution is equal to or lower than 1080p.</li> <li>Up to 2 images can be displayed simultaneously when the</li> </ul>			
		resolution is higher than 2K and equal to or lower than 4K.			
Maximum Video Resolution		See the Media Decoding Specifications chapter in the product specifications.			
Maximum Pixel Width of Text		Text sharpening disabled			
		<ul> <li>Maximum pixel width: 23040</li> </ul>			
		<ul> <li>Maximum number of characters: 3000</li> </ul>			
		<ul> <li>Text sharpening enabled</li> </ul>			
		<ul> <li>Maximum pixel width: 16384</li> </ul>			
		<ul> <li>Maximum number of characters: Table 3-3</li> </ul>			
Supported Image	ViPlex Express	JPG, JEPG, BMP, GIF, PNG, WEBP			
Formats	VNNOX Standard	JPG, PNG, ICO, JPEG, BMP, GIF			
Supported Video Fo	rmats	MP4, FLV			

Table 3-3 Scrolling text limitations

Horizontal Scrolling	Font Size	8	12	14	16	18	24	32	64	96	128	256	512
	Number of Characters	2048	1365	1170	1024	911	685	512	256	170	127	62	10
Vertical	Font Size	8	12	14	16	18	24	32	64	96	128	256	512
Scrolling	Number of Characters	1504	1002	859	752	668	501	376	188	125	94	47	8

# **Screen Configuration**

When users set the connection between receiving cards, it is necessary to calculate the number of parts due to the limitation of the maximum pixel width supported by the device and the connection must be a Z-shaped pattern, as shown in Figure 3-3.

	1	2	3	4	5	6	7	8
1	Sending Card:1 Port:1 Receivi. <mark>S Gard:1 →</mark>	Sending Card:1 Port 1	Sending Card:1 Port:1	Sending Card:1 Port:1	Sending Card:1 Port:1	Sending Card:1 Port:1	Sending Card:1 Port1	Sending Card:1 Port:1 Receiving Card:8
	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:256 Height:64
2	Sending Card:1 Port:1 Receivin <del>g Card:3</del>	Sending Card:1 Pert 1 Receiving Card:10	Sending Card:1 Port:1 Receiving Card:11	Sending Card:1 Port:1 Receiving Oard:12	Sending Card:1 Port:1 Receiving Oard:13	Sending Card:1 Port:1 Receiving Oard:14	Sending Card:1 Port:1	Sending Card:1 Port:1 Receivin Ocard:16
2	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Receiving Gard:15 ► Width:512 Height:64	Width:256 Height:64
3	Sending Card:1 Port:2 Receivi S Card:1	Sending Card:1 Port2 Receiving Card:2	Sending Card:1 Port:2 Receiving Card:3	Sending Card:1 Port:2 Receiving Card:4	Sending Card:1 Port:2 Receiving Card:5	Sending Card:1 Port:2 Receiving Card:0	Sending Card:1 Port:2 Receiving Card:7	Sending Card:1 Port:2 Receiving Card:8
3	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:04	Width:512 Height64	Width:256 Height:64
4	Sending Card:1 Port:2 Receiving Card:3	Sending Card:1	Sending Card:1 Port:2 Receiving Card:11	Sending Card:1 Port:2 Receiving Card:12	Sending Card:1 Port:2 Receiving Card:13	Sending Card:1 Port2 Receiving Card:14	Sending Card:1 Port:2 Receiving Card:15	Sending Card:1 Port:2 Receivin Dard:16
*	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height64	Width:256 Height:64
5	Sending Card:1 Port:3 Receivi. <mark>S Gard:1 →</mark>	Sending Card:1 Port:3 Receiving Card:2	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3 Receiving Card:5	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3 Receiving Card:8
5	Width:512 Height:64	Width:512 Height:64	Receiving Oard:3 Width:512 Height:64	Receiving Gard:4 Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Receiving Oard:7 > Width:512 Height:64	Width:256 Height:64
▶ 6	Sending Card:1 Port:3 Receiving Card:3	Sending Card:1 Port.3 Receiving Oard:10 >	Sending Card:1 Port:3 Receiving Card:11 >	Sending Card:1 Port:3 Receiving Oard:12	Sending Card:1 Port:3 Receiving Oard:13	Sending Card:1 Port:3	Sending Card:1 Port:3 Receiving Oard:15	Sending Card:1 Port:3 Receivir Card:16
, ,	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:256 Height:64

#### Figure 3-3 Ultra-wide screen connection

If you want to set receiving cards to blank, you can only set the receiving cards at both ends to blank, as shown in Figure 3-4 (if receiving cards are set to blank, you also need to set corresponding blank for the solution).

	1	2	3	4	5	6	7	8
1	Sending Card:	Sending Card:1	Sending Card:1	Sending Card:1				
	Port:	Port:1	Port:1	Port:1	Port:1	Port:1	Port:1	Port:1
	Receiving Card:Blank	Receivi S <del>Card:1 →</del>	Receiving Oard:2	Receiving Oard:3	Receiving Card:4	Receiving Oard:5	Receiving Card:6	Bcasiving Card:7
	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:256
	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64
	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Port:1	Pert i	Port:1	Port:1	Port:1	Port:1	Port:1	Port:1
2	Receivin <del>g Card:8 &gt;</del> Width:512 Height:64	Receiving Oard:3 > Width:512 Height:64	Receiving Oard:19 Width:512 Height:64	Receiving Oard:11 Width:512 Height:64	Receiving Oard:12 Width:512 Height:64	Receiving Oard:13 ► Width:512 Height:64	Receiving Oard:14 ► Width:512 Height:64	Receivin Card: 15 Width: 256 Height: 64
3	Sending Card:1 Port:2 Receivi S Card:1	Sending Card:1 Port:2 Receiving Card:2	Sending Card:1 Port:2 Receiving Card:3	Sending Card:1 Port:2 Receiving Card:4	Sending Card:1 Port:2 Receiving Card:5	Sending Card:1 Port:2 Receiving Card:5	Sending Card:1 Port:2 Receiving Card:7 Width:512	Sending Card:1 Port:2 Besching Card:8
	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height:64	Width:512 Height64	Width:512 Height:04	Height 64	Width:256 Height:64
4	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Port:2	Port2	Port:2	Port:2	Port:2	Port:2	Port:2	Port:2
	Receiving Card:3	Receiving Card:10	Receiving Card:11	Receiving Card:12	Receiving Card:13	Receiving Card:14	Receiving Card:15	Receivint Card:16
-	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:256
	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64
5	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Port:3	Port:3	Port:3	Port:3	Port:3	Port:3	Port:3	Port:3
	Receivi. <del>S Gard:1 →</del>	Receiving Oard:2	Receiving Oard:3 >	Receiving Oard:4	Receiving Gard:5	Receiving Oard:6	Receiving Oard:7	Beasiving Card:8
	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:256
	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64
▶ 6	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:
	Port:3	Port3	Port:3	Port:3	Port:3	Port:3	Port:3	Port:
	Receiving Card:3	Receiving Card:10	Receiving Oard:11 >	Receiving Gard:12	Receiving Oard:13 >	Receiving Oard:14 >	Receivir Card:15	Receiving Card:Blank
	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:512	Width:256
	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64	Height:64

Figure 3-4 Blank receiving cards of an ultra-wide screen

#### Note

If there is a blank at the begining, the window resolution of the ultra-long screen needs to be increased with the blank resolution.

## **Operating Procedure**

The preceding application will be used as an example to introduce how to create an ultra-long-screen solution.



- Step 1 Choose **Solutions** to access the solution management page.
- Step 2 Click New and select Ultra-Long Screen from the drop-down menu.

The Solution Information dialog box appears.

Eiguro 2 E	I litra long ooroon	adution	information
rigule 3-5	Ultra-long-screen	Solution	iniornation

Solution Information				
Solution Name •	NewSolution20250328093951			
Resolution •	Width 23040 px 🗘 Height 64 px 🖨			
Remarks				
	Toucharacter(s) remaining			
	OK Cane	cel		

Step 3 Set the solution information and click OK.

Set the resolution as the actual screen resolution. Set the width to 23040 and height to 64.

Step 4 Choose a media type.

The editing page is displayed based on the actual screen resolution.

1. Click Mixed Media.

2. Below the property editing area, open the local resource manager and choose the corresponding type of media from the local storage.

3. On the media editing area, edit the solution.

Figure 3-6 Mixed media	
NewSolution20240808105733 (23040x98)	
Save Save as Settings Wated Media Video Image Text Clock Environment. Weather Table Web page Document	Timer RSS Streaming Me >>
Media List 🔍 140% 🔍 🖽 🕃 🗙 🦂 🐂 🐂 📲 🐂 🐂 👫 👫 👫 👫	
↑ ↓ X = === + == + == + = + = + = + = + = +	~ A
Mixed Media1 4	
🔊 Fujian Tulou.jpg	
	N N N N N N N N N N N N N N N N N N N
	> в
	Ad
	3

Step 5 (Optional) In the page list, set playlist playback. Click 🎚 on the left of the editing page to add pages and add media widgets to the pages.



#### Figure 3-7 Playlist playback

B P ©	Newcolution/202008109733 (2104hold)           Image: Image	_ & ×
Save Save as Settings Media List Page List	Maxed Media Video Image Text. Clock Environment Weather Table Web page Document Timer RSS Streaming Me"	Widget Properties Page Properties
+. 5 × ↑ ↓		Page Name -31
1 Itimes		Play Count 1 times 🗘
2		Schedule
1times		1 00:00 🗘 - 24:00 🗘 🕀
		Every Week:
	Contraction of the second seco	
		Apply Schedule
	· • • • • • • • • • • • • • • • • • • •	

Step 6 (Optional) At the upper right of the page, click **Preview** to preview the current page.

The preview window is displayed based on the configured screen aspect ratio.

- Step 7 After the solution editing is done, click **Publish**.
- Step 8 Select players and click **Publish** to publish the solution.

#### Notes

- Ultra-long-screen solutions do not support synchronous playback.
- To ensure smooth playback, playing videos and text simultaneously is not recommended.
- The TB10, TB30, TB40, TB50 and TB60 allow mixed media, text, clock widgets, weather widgets to be placed in the boundaries.
- To preview a ultra-long-screen solution, the solution width cannot be greater than 16384 pixels. To use the page flipping and scrolling effect, the media width cannot be greater than 16384 pixels.
- When the solution resolution does not match the selected screen resolution, it may result in stretched or distorted images, affecting the playback quality.
- If the media specifications exceed the limit of the screen, you can view the details in the **Media Check** column and make improvements according to the suggestions provided.

# 3.2 USB Playback

#### **Applications**

When a multimedia player can play solutions imported from a USB drive, users can import solutions to a USB drive by using the USB playback function in ViPlex Express and then insert the USB drive into the multimedia player to enable solution playback.

#### **Related Information**

- A solution containing media supports USB playback.
- Multiple solutions can be exported to a USB drive each time.
- During USB playback, the specified solution is played by default.
- Ultra-long screens do not support USB playback.

#### **Operating Procedure**

Step 1 Choose Solutions.



Step 2 In the solution list, move your mouse over a solution and click **ID**, or select one or more solutions and click **USB Playback**.

The USB playback dialog box appears.

#### Figure 3-8 USB playback

	USB playback	x
Play Mode	Plug and play     Copy and play	
Path	C:\Users\Nova000435\Desktop ····	
Player Password		
Specify solution	NewSolution20240731145540	
	OK Cancel	

- Step 3 Specify a playback mode.
  - Plug and play: The solution starts to play as soon as you insert the USB drive where the solution is stored in the
    player. Do NOT remove the USB drive during playback.
  - Copy and play: The solution starts to play after the solution in the USB drive is copied to the player. The USB drive can be removed during playback.
- Step 4 Click it to choose a location to store the solutions to be exported.
- Step 5 Enter the connection password of the player.

After the USB drive where solutions are stored is inserted into the screen, the solutions can be played only when the password is correct.

- Step 6 Select a solution and click OK.
- Step 7 After solutions are exported successfully, click Done.

## 3.3 Exporting/Importing Solutions

#### **Applications**

Transfer solutions by exporting and importing solution files with ViPlex Express.

#### **Related Information**

A solution containing media can be exported.

#### **Operating Procedure**

#### **Export solutions**

Step 1 Choose Solutions.

Step 2 From the solution list, select one or more solutions and then choose More > Export.



#### Figure 3-9 Exporting solutions

0		0		
		Ехр	ort	
Path	C:\Users\Nov	a003025\Deskto	q	
Solution	Name		Progress	
NewSolu	ution20200630	201328		
NewSolı	ution20200630	200125		
			Export	Cancel

Step 3 Click to choose a location to store the solutions to be exported.

#### Step 4 Click Export.

Step 5 After the solutions are exported successfully, close the dialog box.

#### Import solutions

Step 1 From the **Solutions** page, choose **More** > **Import**.

Figure 3-10 Importing solutions

	Import	×
Path	C:\Users\Nova003025\Desktop	
	Next	Cancel

- Step 2 Click to choose the location of the local files.
- Step 3 Click Next.
- Step 4 After the solutions are imported successfully, click **Done**.

# 4 Schedules

# 4.1 Adding Schedules

# **Applications**

Add one or more solutions to a schedules.

#### **Operating Procedure**

- Step 1 Choose **Schedule** to access the schedule page.
- Step 2 (Optional) At the upper right of the page, click of the preview the Beginner's Guide, and then click **Get Started**.
- Step 3 At the bottom left of the page, click **New Schedule**.

A New Schedule window is displayed.

Figure 4-1 New schedule

	New Schedule		x
Schedule Name	Schedule3		
Resolution •	Width 1366 px 🗘	Height 768 px	
Select a screen	Select a screen		
Select Model	Select Series	Select Model	
		Max Width: -	
Remarks			
		ОК Са	ncel

- Step 4 Specify a name and resolution for the schedule, and click OK.
- Step 5 On the Schedule page, click Add Solution.

#### Figure 4-2 Adding solutions

WRex Express   Screens   Solutions   Enter a schedule na   Import   Usb playback     Import     Usb playback     Import     Import <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>🕄 Settings</th> <th>_ 🗆 ×</th>								🕄 Settings	_ 🗆 ×
Image: Schedule 1     Image:	ViPlex Express Async Mode			Solutions					
Schedule       Image: Schedule       Solution Name Image: Solutio		🗐 List View							🝚 Beginn
Image: Solution Name *       Resolution       File Size *       Properties       Last Modified *       Operation         Image: Solution Name *       Image: Solution Name * <td< th=""><th>Schedule1</th><th>+ Add Solution</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Schedule1	+ Add Solution							
+ New Schedule	1300-706	Solution N	ame 韋		Resolution	File Size 🌲	Properties	Last Modified 🜲	Operation
+ New Schedule									
+ New Schedule									
+ New Schedule									
+ New Schedule									
Import USB playback	+ New Schedule								
	Import USB playback								

Step 6 (Optional) At the bottom of the Add Solution window, click the box next to Non-Scheduled Content to select a solution and click OK.

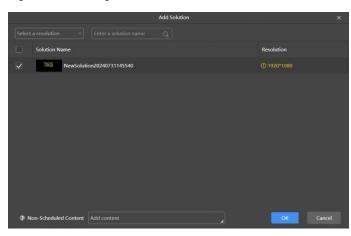
The non-scheduled content will be played by default during the non-scheduled period.

		Add Solution		x
Select a				
	Solution Name		Resolu	tion
	NewSolution20240731145	5540	① 192	D*1080
? No	on-Scheduled Content Add content			OK Cancel

Figure 4-3 Adding non-scheduled content

Step 7 From the solution list, select one or more solutions and click **OK**.

#### Figure 4-4 Selecting solutions



#### Notes

- Users can edit and delete schedules in the schedule list.
- Users can edit and remove the solutions in a schedule.

# 4.2 Scheduling Solutions

#### **Operating Procedure**

- Step 1 Choose Schedule.
- Step 2 In the schedule list, click the target schedule.
- Step 3 Select the Calendar View tab.
- Step 4 Do any of the following to create a schedule.
  - Click **New** to create a schedule.
  - Click a cell in the timetable and click the cell in the timetable represents one hour.)
- Step 5 On the **Add Schedule** window that appears, select a solution and specify the validity range, repeat method and playback duration.

	Add Schedule	×
Solution	20240731145540	
Validity Range	Never expires ~	
Repeat	Every day 🗸	
Playback duration		
	01:00:00 🔷 ~ 01:59:59 🖕 🗙	
	Add Cancel	



Step 6 Click Add.

Step 7 Repeat Step 4 to Step 6 to add multiple schedules.

Schedules are graphically displayed in the timetable.

- Step 8 Do the following as required.
  - Edit schedule: Click a schedule and click Edit.
  - Delete schedule: Click a schedule and click Edit.
  - Clear schedule: Click Clear.

#### Note:

If a schedule is empty, it cannot be published.

# 4.3 Publishing Schedules

#### **Operating Procedure**

- Step 1 Choose Schedule.
- Step 2 From the schedule list, select the target schedule and click in next to the schedule.
- Step 3 (Optional) Select Start Playback Simultaneously.

Start Playback Simultaneously: The screens used for synchronous playback will start playing the solution at the same time.

Step 4 Select one or more screens and click **Publish**.

			Publish			
Solution Name:	Schedule1		elect a resolution		Show selected model	is only 🌒
Screen Nam	e	Screen Size	Screen IP	Media Check	Progress	
Refresh			Start Playback	Simultaneously 👔	Publish	Done

Notes:

- When the solution resolution does not match the selected screen resolution, it may result in stretched or distorted images, affecting the playback quality.
- If the media specifications exceed the limit of the screen, you can view the details in the Media Check column and make improvements according to the suggestions provided.
- Unltr-long-screen solutions do not support Start Playback Simultaneously.



Step 5 After the solution is published successfully, click Done.

# 4.4 USB Playback

#### **Operating Procedure**

- Step 1 Choose Schedule.
- Step 2 At the bottom left of the page, click USB Playback.

The USB playback dialog box appears.

Figure 4-5 USB playback

	USB playback	x
Play Mode	Plug and play Copy and play	
Path	C:\Users\Nova000435\Desktop ····	
Player Password		
Specify solution	NewSolution20240731145540	
	OK Cancel	

- Step 3 Specify a playback mode.
  - Plug and play: The solution starts to play as soon as you insert the USB drive where the solution is stored in the player. Do NOT remove the USB drive during playback.
  - Copy and play: The solution starts to play after the solution in the USB drive is copied to the player. The USB drive can be removed during playback.
- Step 4 Click to choose a location to store the solutions to be exported. (The path must be in the root directory of the USB drive.)
- Step 5 Enter the connection password of the player.

After the USB drive where solutions are stored is inserted into the player, the solutions can be played only when the password is correct.

- Step 6 Select a solution and click **OK**.
- Step 7 After solutions are exported successfully, click Done.

# 4.5 Exporting/Importing Solutions

## **Applications**

Export and import schedules with ViPlex Express.



# **Related Information**

A schedule containing solutions can be exported.

#### **Operating Procedure**

#### Export schedules

- Step 1 Choose Schedule.
- Step 2 From the schedule list, choose **:** > **Export**.

#### Figure 4-6 Exporting a schedule

	Ехро	rt		
Path	C:\Users\Nova000435\Desktop	•		
Name		Progress		
Schedul	e2			
		Export	Cancel	

Step 3 Click to choose a location to store the schedule to be exported.

Step 4 Click Export.

#### Note

During schedule exporting, ViPlex Express automatically converts the video formats not supported by the screen.

Step 5 After the schedule is exported successfully, close the dialog box.

#### Import schedules

Step 6 At the bottom left of the page, click Import.

#### Figure 4-7 Importing a schedule

	Import	x
Path	C:\Users\Nova003025\Desktop	
	Next	Cancel



Step 7 Click to choose the location of the local files.

Step 8 Click Next.

Step 9 After the schedule is imported successfully, click **Done**.

# 5 Control

# **Function List**

Function	Sub-Function	Taurus LED Players	Taurus LCD Players	TU Players
Playback management	Adjust volume in real time	$\checkmark$	$\checkmark$	$\checkmark$
riayback management	Manage solutions	$\checkmark$	$\checkmark$	$\checkmark$
Brightness adjustment	-	$\checkmark$		$\checkmark$
Video source	Configure video source parameters	$\checkmark$	√ (LCB4K)	$\checkmark$
	Switch video source	$\checkmark$		$\checkmark$
Screen status control	-	$\checkmark$	√ (LCB4K)	$\checkmark$
On/Off	-	-	-	-
Time synchronization	Sync time manually	$\checkmark$	$\checkmark$	$\checkmark$
	Sync time with NTP	$\checkmark$	$\checkmark$	$\checkmark$
	Sync time with RF	$\checkmark$	$\checkmark$	
Restart configuration	-	$\checkmark$	$\checkmark$	$\checkmark$
Color temperature	-	$\checkmark$		$\checkmark$
Monitoring	-	$\checkmark$	$\checkmark$	$\checkmark$
Play logs	Search for play logs	$\checkmark$	$\checkmark$	$\checkmark$
	Export play logs	$\checkmark$	$\checkmark$	$\checkmark$
Font management	Add fonts	$\checkmark$	$\checkmark$	$\checkmark$
	Delete fonts	$\checkmark$	$\checkmark$	$\checkmark$
Network configuration	Configure wired network	$\checkmark$	$\checkmark$	$\checkmark$
	Configure Wi-Fi AP	$\checkmark$	$\checkmark$	$\checkmark$
	Configure Wi-Fi Sta	$\checkmark$		$\checkmark$
	Configure mobile network	$\checkmark$	$\checkmark$	
	Configure network detection	$\checkmark$	$\checkmark$	
Server configuration	Bind to VNNOX Standard/AD	$\checkmark$	$\checkmark$	$\checkmark$
Player upgrade	Online upgrade	$\checkmark$	$\checkmark$	$\checkmark$

Function	Sub-Function	Taurus LED Players	Taurus LCD Players	TU Players
	Local upgrade	$\checkmark$	$\checkmark$	$\checkmark$
Power control	-	$\checkmark$	√ (No support for direct control of multi-function cards)	$\checkmark$
RF configuration	-	$\checkmark$	$\checkmark$	
Sensor	-	$\checkmark$	$\sqrt{(Board)}$	$\checkmark$
Screen information	-	$\checkmark$	$\checkmark$	$\checkmark$
Multi-screen mosaic	-	$\checkmark$		

#### Note:

For a more detailed functions of the LCB4K, see LCB4K LCD Multimedia Player Configuration Guide.

# **Common Operations**

• Click the **Read back** button to read player information back to ViPlex Express and display it.

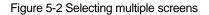
				(i) Player Information $  imes$				
s				Current screen:	Taurus-32428672			
		Screen Name 🜲	Screen IP 💠	Information Obtained On: Player Time	2024-10-15 03:56:33			
	•	Taurus-32428672	10.40.91.17	Local Time	2024-10-15 10:56:33			
		Taurus-40002453	172.18.12.14	Registered Address				
		Taurus-30005257	172.18.179.37	SN	MKAA01730N0080000049			
		Taurus-10006847	172.18.179.39	MAC address	54:85:6C:05:87:7F			
		Taurus-20017397	172.18.179.47	IP address System Version	10.40.91.17 T50V040700CN1301			
		Taurus-20004871	172.18.179.77	Product Model	т60			
		Taurus-80000047	172.18.179.47	Major Software Version	4.7.0.1301			
		Taurus-30000186	172.18.179.117	Total Capacity Advanced	8GB			
		Taurus-40003481	172.18.179.135					
		Taurus-49999571	172.18.179.142					
		Taurus-23031691	172.18.179.146					
		Taurus-90000266	172.18.179.178					
		Taurus-90000043	172.18.179.179					
		Taurus-49999760	172.18.179.117			Rea	d back	

Figure 5-1 Readback

• In the screen list, you can select multiple screens by selecting the checkboxes.



Selecting multiple screens is not available in **Playback management**, **Video source**, **Network configuration**, **Sensor**, and **Player information**.



				$\frac{1}{2}$ Restart Configuration $\checkmark$				
			Current sa	reen:	Taurus-32428	672		
	Screen Name 🜲	Screen IP 🜲		n Obtained On: er Time	2024-10-15 04	<b>1:00:1</b> 9		
☑	Taurus-32428672	10.40.91.17	Loca	l Time	2024-10-15 1:	1:00:19		
	Taurus-40002453	172.18.12.14	Resta	rt Now				
	Taurus-30005257	172.18.179.37						
	Taurus-10006847	172.18.179.39	Schedule	d adjustment list				
	Taurus-20017397	172.18.179.47	+					
	Taurus-20004871	172.18.179.77		Restart Time		Repeat method	Sure to enable	
	Taurus-80000047	172.18.179.47						
	Taurus-30000186	172.18.179.117						
	Taurus-40003481	172.18.179.135						
	Taurus-49999571	172.18.179.142						
	Taurus-23031691	172.18.179.146						
	Taurus-90000266	172.18.179.178						
	Taurus-90000043	172.18.179.179					Apply	
	Taurus-49999760	172.18.179.117						

# 5.1 Playback Management

Manage the playback mode, volume, and content of screens.

#### 5.1.1 Adjusting Volume in Real Time

#### Step 1 Choose Control > Playback Management.

- Step 2 Select the target screen from the screen list.
- Step 3 In the Playback Configuration area, adjust the volume by dragging the slider or entering a value.

When the information related to RF synchronization is displayed, as shown in Figure 5-3, it indicates that volume synchronization is enabled on the current screen. See relevant operations in 5.16 RF Configuration. RF synchronization requires you to specify a master device and slave devices. Users only need to set the volume of the master device. The slave devices will keep the same volume as the master device via an RF signal.

Figure 5-3 RF synchronization-volume

RF synchronization	Master device(Group ID: 777)	
Volume		47 %



#### 5.1.2 Managing Solutions

 Viewing screenshot: Click View Screenshot to view the real-time screenshot of the solution which is being played on the screen.

Figure 5-4 Viewing the screenshot

Playback Informatic	ท	
Double	Solution : NewSolution1 Exception Log	View Screenshot

- Exception log: Click Exception Log to view the details of the exceptions occuring during playback.
- Playing a solution: Move the mouse to the thumbnail of the solution and click

Figure 5-5 Solution list

Local Solution List			
Delete			
Double NewSolution1	<b>VNNOXProgram</b>		

- Stopping playing a solution: Move the mouse to the thumbnail of the solution and click
- Deleting a solution: Select a solution in the solution thumbnail list and click Delete.
- Rotating a solution: Select a playback window rotation angle from the drop-down box next to **Solution Rotation**. The rotation angle is absolute.
- Synchronous playing: Enable or disable the synchronous playback.
- Requirements Check: After this function is enabled, the device can automatically detect the media not meeting the requirements.
- Backup: Back up important system data.
- Prestored Image: When the system malfunctions and causes solution loss, the prestored image will be displayed.



#### Figure 5-6 Playback configuration

Playback Configuration	
Solution Rotation	Ċ, 0° ~
Synchronous Playing	☑ Enable
Volume	75 %
Requirements Check	• • •
Backup	Backup
Prestored Image	Setting

#### Note:

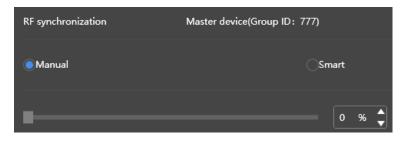
Only Taurus V4.6.0 and later support screen solution backup and prestored image setting.

# 5.2 Brightness Adjustment

Manually adjust the brightness or set rules of smart brightness adjustment.

When the information related to RF synchronization is displayed, as shown in Figure 5-7, it indicates that brightness synchronization is enabled on the current screen. See relevant operations in 5.16 RF Configuration. RF synchronization requires you to specify a master device and slave devices. Users only need to set the brightness of the master device. The slave devices will keep the same brightness as the master device via the RF signal.





#### 5.2.1 Manual Adjustment

- Step 1 Choose Control > Brightness adjustment.
- Step 2 Select the target screen in the screen list.
- Step 3 Choose Manual, and drag the slider or enter a value to adjust screen brightness.

#### Figure 5-8 Manual adjustment

Manual	🔿 Smart
	30 % 🗘



#### 5.2.2 Smart Adjustment

- Step 1 Choose Control > Brightness adjustment.
- Step 2 Select the target screen in the screen list.
- Step 3 Choose **Smart** and click **b**. In the window that appears, choose **Timing** or **Auto**, set the corresponding brightness adjustment rules, and then click **Add**.

Figure 5-9 Smart brightness adjustment

🔵 Manual				Smart				
Auto brigi	Auto brightness adjustment table							
+	i × #	<b>L</b>			Brightness Ma	pping Table		
	Start time	Adjustment	Repeat	Validity R	ange	Enable		
	00:00:00	Auto	Never	2020-08-0	03 ~ 2020-08-03			
	00:00:00	Timing 30%	Never	2020-06-2	23 ~ 2020-06-23			
	08:00:00	Auto	Never	2020-06-2	23 ~ 2020-06-23	$\bigcirc$		
						Apply		

 Timing brightness adjustment: During the period you set to enable smart adjustment, the screen brightness will be the fixed value you manually set.

Figure 5-10 Scheduled brightness adjustment

	New		×
Timing	Auto		
Timing brightness	10	•	%
Repeat	Every day		
Execution time	00:00:00	-	
Validity Range	2020/8/17 🛱 ~ Never expires		
	Add		Close

 Automatic brightness adjustment: During the period that you set to enable auto adjustment, the screen brightness will be automatically adjusted according to the automatic brightness mapping table.

The automatic brightness mapping table allows users to divide the ambient brightness into several subsections, set corresponding screen brightness for each subsection, and specify a brightness collection interval and the number of times to collect brightness. The screen brightness automatically changes according to the ambient brightness subsection to which the collected ambient brightness belongs.



#### Figure 5-11 Automatic brightness adjustment

	New	×
◯ Timing	Auto	
Repeat	Every day	
Execution time	00:00:00	ŧ
Validity Range	2020/8/17 🛗 ~ Never expires	<b></b>
	Add	Close

Figure 5-12 Brightness mapping table

	Brightness Mapping Table		×
✓ If ambient brightness read	ing fails, adjust the brightness to	10 よ % Quick subs	ection
Ambient brightness (Lux)	Screen Brightness (%)	Operate	
65534	100	e ×	
58981	90	r x	
52427	80	e ×	
45874	70	e ×	
39320	60	e ×	
Brightness Collection Interval	3 v Times to Collect	Brightness 5 🗸	
		ок	Cancel

Step 4 After configuration, click Apply.

#### Note:

Automatic brightness adjustment requires a light sensor.

# 5.3 Video Source

Configure video source parameters and specify the rule of setting the input source to HDMI or the internal video source.

# 5.3.1 Video Source Parameter Configuration

Set the output offset position of the video source, resolution of the internal video source, and resolution of the HDMI video source.

Step 1 Choose Control > Video Source.



- Step 2 Select the target screen from thescreen list.
- Step 3 In the Internal Source Resolution area, specify a resolution and click Apply.

This resolution refers to the operating system resolution of the Taurus multimedia player and must be higher than the screen resolution.

Note:

The TB10 Plus, TB20 Plus, TB30, TB40, TB50, TB60, LCB4K, TCC160, and TU series support custom resolutions.

- Step 4 In the **Parameter Configuration** area, configure the following parameters.
  - Output Position: Set the start position of the image displayed on the screen.
  - HDMI Source Resolution: Refers to the resolution of the external video source input from the HDMI IN connector.

In studio mode, users can enable full screen zoom to let the image automatically fit the screen.

Requirments of full screen zoom in studio mode:

- 512 pixels  $\leq$  Video source width  $\leq$  2048 pixels
- 512 pixels ≤ Video source height ≤ 2048 pixels
- Maximum resolution: 1920×1080
- Support for zooming out only

Note: The video source width must be greater than or equal to the screen width, and the video source height must be greater than or equal to the screen height.

#### Figure 5-13 Parameter configuration

			🖂 Video source 🗸				-		×
			Current screen:	Taurus-32428672					
	Screen Name 🜲	Screen IP 💠	Information Obtained On: Player Time	2024-10-15 04:02:36					
✓	Taurus-32428672	10.40.91.17	Local Time	2024-10-15 11:02:36					
	Taurus-40002453	172.18.12.14	Internal Source Resolution						
	Taurus-30005257	172.18.179.37	Resolution (px)	1920x1080p-60					
	Taurus-10006847	172.18.179.39		Width 1920	Height	1080 🗘 🕜			
	Taurus-20017397	172.18.179.47				Apply			
	Taurus-20004871	172.18.179.77							-
	Taurus-80000047	172.18.179.47	Control Mode	Timing		HDMII preferred			
	Taurus-30000186	172.18.179.117							
	Taurus-40003481	172.18.179.135	Parameter Configuration						-
	Taurus-49999571	172.18.179.142	Output Position (px)	x o	Y	0			
	Taurus-23031691	172.18.179.146							
	Taurus-90000266	172.18.179.178	HDMI Source Resolution	Width 1920	Height	1080			
	Taurus-90000043	172.18.179.179	Full Screen Zoom	✓ Enable					
	Taurus-49999760	172.18.179.117					Read	back	



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

#### 5.3.2 Manual Switching

Immediately switch between the internal input source and HDMI input source.

- Step 1 Choose **Control** > **Video source**.
- Step 2 Select the target screen in the screen list.
- Step 3 In the Control Mode area, choose Manual and configure the parameters.

Figure 5-14 Manual switching

Manual	○ Timing	HDMI preferred
Video Source Type	Internal source	

#### Step 4 Click Apply.

#### 5.3.3 Scheduled Switching

Switch between the internal input source and HDMI input source as scheduled.

- Step 1 Choose Control > Video source.
- Step 2 Select the target screen in the screen list.
- Step 3 In the Control Mode area, choose Timing.

Figure 5-15 Scheduled switching

Manual		Timing		preferred
+ 🗆 >				
Time	Туре		Repeat method	Sure to enable

Step 4 Click E. In the pop-up dialog box, choose Internal or HDMI, and then set the time and cycle to use the video source. At last, click Add.



	A new time setting rule		×
	Internal source		
Time	00:00:00	<b></b>	
Repeat method	Every day		
	Ad	d	Cancel



Step 5 After the configuration, click Apply.

#### Note:

For the TU series devices, only the TU40 Pro/TU4K Pro V1.5.2 and later support scheduled switching.

#### 5.3.4 HDMI Preferred

The HDMI port is preferred for playing the video in synchronous mode.

- Step 1 Choose Control > Video source.
- Step 2 Select the target screen in the screen list.
- Step 3 In the Control Mode area, select HDMI preferred.
- Step 4 After configuration, click Apply.

# 5.4 Screen Status Control

Set the current playing status of the screen.

#### 5.4.1 Manual Control

- Step 1 Choose Control > Screen Status Control.
- Step 2 Select the target screen in the screen list.
- Step 3 Choose Manual to enter the manual settings page.

#### Figure 5-17 Manual Control

🔵 Manual	◯ Timing
Blackout	
Normal	

#### Step 4 Click Blackout or Normal.

Here the blackout is to decrease the screen brightness to 0% instead of turning off the power.

#### 5.4.2 Scheduled Control

- Step 1 Choose Control > Screen Status Control.
- Step 2 Select the target screen in the screen list.
- Step 3 Choose **Timing** and click **III**. In the window that appears, click **Blackout** or **Normal**, set the playback time and interval, and then click **Add**.



#### Figure 5-18 Scheduled control

Manua	I	۹	Timing	
Scheduled	l adjustment list			
	Time	Screen Control	Repeat	Enable
	08:00:00	Normal	Every day	
	20:00:00	Blackout	Every day	•

#### Figure 5-19 Creating a scheduled rule

	New	×
Blackout	Normal	
Time	00:00:00	
Repeat	Every day 🗸 🗸 🗸	
	Add	Cancel

Step 4 After the settings, click Apply.

# 5.5 On/Off

# **Scenarios**

Schedule players to power on/off.

# **Prerequisites**

Only the NS series devices supports this feature.

## **Operating Procedure**

- Step 1 Choose Control > On/Off.
- Step 2 In the **Power On/Off** area, click + to create a scheduled control command.
- Step 3 Specify the time to power on and off the player and select a repeat method.

The interval between the power-on time and power-off time cannot be less than 2 minutes. When the power-off time is earlier than the power-on time, the device will be powered off on the next day.

Step 4 After the settings, click Add to save the command.



Figure 5-20 Creating a scheduled control command.

£		A new time setting rule	×
£	Power On	08:00:00	<b>•</b>
e e	Power Off	12:00:00	<b>*</b>
E	Repeat	Every day	
E			
£		Add	Cancel

- Step 5 Select a player from the player list.
- Step 6 Select a command and click **Apply** to apply the command. (If no command is selected, all the commands will be applied by default.)

Figure 5-21 Scheduling power on/off

Current screen:	1-NS2K-13011176		
Information Obtained On:			
Terminal Time	2023/6/30 14:50:35		
Local Time	2023/6/30 14:50:35		
Power On/Off			
+ 🛛 × 🗯			
Power On	Power Off	Repeat	
08:00:00	12:00:00	Every day	
13:00:00	18:00:00	SAT/SUN	
			Apply
			Read back

# 5.6 Time Synchronization Managment

Time synchronization is used for syncing the time of players.

Method	Time Reference	Application Scenario
Manual	Time of the PC with ViPlex Express installed	Manually set the time zone of the screen.
Automatic	GPS time synchronization: Radio signal from a GPS satellite	Sync the time of the Taurus with GPS, NTP, or RF. All these three methods are applicable to synchronous
	NTP time synchronization: Time of the NTP server	<ul><li>playback.</li><li>The accuracy of GPS time synchronization depends on</li></ul>

Table 5-1 Time synchronization methods



Method	Time Reference	Application Scenario
RF	Time of the reference device	<ul> <li>the satellite signal and it is suitable for outdoor applications without obstructions around</li> <li>The accuracy of NTP time synchronization depends on the network speed and it is suitable for situations with a low requirement for synchronization.</li> <li>RF time synchronization does not depend on the network and has a high synchronization performance. It is suitable for situations with an increased requirement for synchronization.</li> </ul>

#### Note:

To enable synchronous playback, you need to turn on the synchronous playback function after syncing the time automatically or with RF.

# 5.6.1 Manual Time Synchronization

Sync the time of the screen with the date and time of the selected time zone.

#### Step 1 Choose Control > Time synchronization management.

- Step 2 Select the target screen from the screen list.
- Step 3 Select a time zone from the **Time Zone** drop-down box. You can also adjust the current date and time as required.

If the current time zone observes daylight saving time and the current date is within the range of daylight saving time, **Daylight saving time enabled** will be displayed. Otherwise, it will not be displayed.

Figure 5-22 Selecting a time zone

Time synchronization					
To use GPS for time synchronization, please install a network module for the terminal.					
Time zone	(UTC-09:00) America/Anchorage				
Date and time	2021/3/15	01: 23: 35			
	Daylight saving time enabled				
	Automatically sync time				
		Apply			

Step 4 After the settings, click Apply.

# 5.6.2 GPS Time Synchronization

# **Prerequisites**

- Before GPS time synchronization, users need to buy and install network modules.
- The Taurus version is V3.3.0 or later.

# **Operating Procedure**

- Step 1 Choose Control > Time synchronization management.
- Step 2 Select the target screen from the screen list.
- Step 3 (Optional) Select a time zone from the Time zone drop-down box.

If the current time zone observes daylight saving time and the current date is within the range of daylight saving time, **Daylight saving time enabled** will be displayed. Otherwise, it will not be displayed.

Step 4 Check Automatically sync time and select GPS time synchronization.

#### Figure 5-23 GPS time synchronization

Time synchronization				
Time zone	(UTC+08:00) Asia/S	hanghai		
Date and time	2024/6/11		14: 34: 08	¢
	✓ Automatically sy	nc time		
	GPS time synchr	onization 😥		
			nization, please make sur o the terminal and the ut obstructions around.	
			Арр	ly

Step 5 After the settings, click Apply.

## 5.6.3 NTP Time Synchronization

Sync the time of players with the time of the NTP server.

- Step 1 Choose Control > Time synchronization management.
- Step 2 Select the target screen from the screen list.
- Step 3 (Optional) Change the time zone in the **Time Zone** drop-down box.

If the current time zone observes daylight saving time and the current date is within the range of daylight saving time, **Daylight saving time enabled** will be displayed. Otherwise, it will not be displayed.

Step 4 Check **Automatically sync time** and **NTP**, and then select a time server to sync the time of the screen with the time server. If the existing time servers cannot meet the requirements, click **c** to customize a server.

#### Figure 5-24 Selecting an time server

Time synchronization		
Time zone	(UTC+00:00) Europe/London	
Date and time	2025/1/10 🛱 03:45:38	¢
	✓ Automatically sync time	
	GPS time synchronization 🛛 💿 NTP 🍺	
NTP server	ntp.vnnox.com	
		Apply



Step 5 After the settings, click Apply.

## 5.6.4 RF Time Synchronization

## **Related Information**

To use RF time synchronization, you need to set one of the Taurus units on the RF network as the master device and others as slave devices.

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

# **Prerequisites**

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

## **Operating Procedure**

#### Set the master and slave devices

- Step 1 Choose Control > RF management.
- Step 2 Select the target screen from the screen list.
- Step 3 Turn on **RF synchronization**.
- Step 4 Set the current device as the master device or slave device.
- Step 5 Set a group ID.

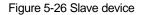
If you enter the group ID of the master device for a slave device, the slave device will be assigned to the same group as the master device.

#### Step 6 Select Time synchronization.

After RF synchronization is applied, the time, brightness, volume, and environment monitoring data of the slave devices will be kept the same as the master device via the RF signal. Select the options that require RF synchronization.

#### Figure 5-25 Master device

Parameter Information	
RF synchronization	•
Set this terminal as	💿 Master device 🚟 💦 Slave device
Group ID	123
	Please enter a new group ID for the master device. Numbers and letters are supported.
Apply RF synchronization to	Time synchronization
	Brightness Synchronization
	Volume Synchronization
	Environment monitoring data
	Apply



Parameter Information	
RF synchronization	•
Set this terminal as	🔿 Master device 🛛 💿 Slave device 😥
Group ID	
	Please enter the group ID of the master device in the target group. Numbers and letters are supported.
Apply RF synchronization to	Time synchronization
	Brightness Synchronization
	Volume Synchronization
	Environment monitoring data

- Step 7 (Optional) Select **Slave device** and click **Advanced** to specify a mode for the slave device to receiving commands.
  - Single-packet: The slave device receives the command once.
  - Multi-packet: Set the command receiving times to "X" and command receiving interval to "Y". The slave device will receive the command twice, with an interval of 5 seconds each time.

#### Figure 5-27 Advanced

Group ID	[		
	Please enter the group ID of the master devi group. Numbers and letters are supported.		
Apply RF synchronization to	on to 🗌 Time synchronization		
	Brightness Synchronization		
	Volume Synchronization		
	Environment monitoring data		
Sending Mode	🔵 Single-packet 🛛 💿 Multi-packet		
Command Receiving Times	2	÷	
Command Receiving Interval	600	🔷 (ms)	

#### Step 8 Click Apply.

#### Set a time synchronization method for the master device

You need to set time synchronization rules for the master device only and the time of the slave devices will be kept in sync with the time of the master device via the RF signal.

#### Step 9 Choose Control > Time synchronization management.

Step 10 Select the master screen from the screen list.

The information relating to RF synchronization is displayed, which indicates that RF synchronization of the current screen is enabled.

#### Figure 5-28 RF synchronization-Time synchronization

Time synchronization To use GPS for time synchronization, please install a network module for the terminal.							
RF synchronization	Master device(Group ID : 777)						
Time zone	(UTC+08:00) Asia/Shanghai						
Date and time	2021/3/16 🟥 09:19:07	<b>\$</b>					
	Automatically sync time						
	GPS time synchronization O NTP						
NTP server	China						
		Apply					

Step 11 View the time zone and time of the current screen.

If the current time zone observes daylight saving time and the current date is within the range of daylight saving time, **Daylight saving time enabled** will be displayed. Otherwise, it will not be displayed.

- Step 12 Configure rules for time synchronization.
  - Manual time synchronization: Select a time zone from the **Time Zone** drop-down box to sync the time of the screen with the date and time of the time zone. You can also adjust the current date and time as required.



• GPS time synchronization: Check Automatically sync time and select GPS time synchronization.

#### Note:

GPS time synchronization can be implemented when the master device meets the prerequisites in 5.6.2 GPS Time Synchronization.

 NTP synchronization: Check Automatically sync time, select NTP time synchronization, and then select an NTP server to sync the time of the screen with the time of the NTP server. If the existing NTP servers

cannot meet the requirements, click to customize a server.

Step 13 After the settings, click Apply.

# 5.7 Restart Configuration

Restart players immediately and configure restart rules.

## 5.7.1 Restarting Immediately

- Step 1 Choose Control > Restart Configuration.
- Step 2 Select the target screen in the screen list.
- Step 3 Click Restart Now.

Figure 5-29 Restart

Current screen:	Taurus-32428672
Information Obtained On:	
Player Time	2024-7-31 11:06:57
Local Time	2024-7-31 18:06:58
Restart Now	

Step 4 Click **OK** in the pop-up dialog box to restart the player immediately.

# 5.7.2 Scheduled Restart

#### Step 1 Choose Control > Restart Configuration.

Step 2 Select the target screen from the screen list.

Step 3 Click . Set the time and interval to restart a player in the pop-up dialog box and then click Add.



## Figure 5-30 Scheduled adjustment

Scheduled adjustr	ment list		
$+$ $\bowtie$ >	* *		
Restar	rt Time	Repeat method	Sure to enable
00:00:	00	Every day	•
12:00:0	00	Every day	
22:00:0	00	Every day	•

## Figure 5-31 Creating a scheduled rule

	A new time setting rule		×
Time	00:00:00		
Repeat method	Every day		
		Add	Cancel

Step 4 After the settings, click Apply.

# 5.8 Color Temperature

Set the color temperature of the screen, including neutral white, standard white, and cool white.

- Step 1 Choose Control > Color temperature.
- Step 2 Select the target screen in the screen list.
- Step 3 Select a color temperature type.

#### Figure 5-32 Color temperature

	K Col	lor temperature $$			- •	×
Screen Name	Current screen:		Taurus-32428672			
Screen Name 🗢 Scree	een IP 💠 🕺 Information Obtain Player Time		2024-10-15 04:06:55			
V 📑 Taurus-32428672 10.40	10.91.17 Local Time		2024-10-15 11:06:55			
Taurus-40002453 172.3	.18.12.14					
Taurus-30005257 172.:	.18.179.37					
Taurus-10006847 172.:	.18.179.39					
Taurus-20017397 172.:	.18.179.47					
Taurus-20004871 172.:	.18.179.77					
Taurus-80000047 172.:	.18.179.47	ıtral white	Standard white	Cool white		
Taurus-30000186 172.:	.18.179.117					
Taurus-40003481 172.:	.18.179.135					
Taurus-49999571 172.:	.18.179.142					
Taurus-23031691 172.:	.18.179.146					
Taurus-90000266 172.:	.18.179.178					
Taurus-90000043 172.:	.18.179.179					
Taurus-49999760 172.3	.18.179.117 -				Read back	

# 5.9 Monitoring

- Step 1 Choose Control > Monitoring.
- Step 2 Select the target screen in the screen list.
- Step 3 Do the following as required:
  - View the hardware information including the disk size, memory usage, CPU usage and ambient brightness. In addition, if the screen has an external storage device, you can alsoview the external storage information.
  - Clear all media: Click Clear All Media and select the media you want to clear and click OK.
  - Device diagnostics (only available for TU V1.5.0 and later): Click Device Diagnostics > Run
     Diagnostics. After the diagnostics is completed, you can view and download the diagnostics report.



#### Figure 5-33 Monitoring

		Monitoring	· ~	_ <b>□</b> X
Screen Name		Current screen:	Taurus-32428672	
Screen Name 💠	Screen IP 韋	Information Obtained On: Player Time	2024-10-15 04:08:43	
V 🛑 Taurus-32428672	10.40.91.17	Local Time	2024-10-15 11:08:43	
Taurus-40002453	172.18.12.14			
Taurus-30005257	172.18.179.37	6.00 GBAvailabl	e/8.00 GBTotal	
Taurus-10006847	172.18.179.39	Clear All Media		
Taurus-20017397	172.18.179.47	RAM Usage 36%		
<b>Taurus-2000487</b> 1	172.18.179.77	иш <sub>30%</sub>		
Taurus-80000047	172.18.179.47	- Č- Ambient Brightness		
Taurus-30000186	172.18.179.117			
Taurus-40003481	172.18.179.135			
Taurus-49999571	172.18.179.142			
Taurus-23031691	172.18.179.146			
Taurus-90000266	172.18.179.178			
Taurus-90000043	172.18.179.179			
Taurus-49999760	172.18.179.117			Read back

Step 4 Click Clear All Media, select the cleanup scope and click OK.

# 5.10 Play Logs

View and export play logs.

## 5.10.1 Querying Play Logs

- Step 1 Choose Control > Play logs.
- Step 2 Select the target screen in the screen list.
- Step 3 Choose the time range of the play log that you want to view and then click Query.
- Step 4 In the play log list, click a play log name to view the summary and detailed information of the log.

# 5.10.2 Exporting Play Logs

- Step 1 Choose Control > Play logs.
- Step 2 Select the target screen in the screen list.
- Step 3 In the play log list, select the target play log.
- Step 4 Click Export.
- Step 5 In the pop-up dialog box, choose the export path and format.
- Step 6 Click OK.

# 5.11 Font Management

Manage the fonts supported by the Taurus.

# 5.11.1 Adding Fonts

# **Prerequisites**

The supported fonts include TTC and TTF.

Step 1 Choose Control > Font management.

Figure 5-34 Local fonts

- Step 2 Select the target screen in the screen list.
- Step 3 Click next to **Name** to acquire local fonts on the PC.

-				
		Font		
	No.	Font Name	Font size	
	7	078-CAI978	41kb	
	8	079-CAI978	35kb	
	9	087-CAI978	37kb	
	10	126-CAI978	63kb	
	11	AcadEref	7kb	
	12	Agency FB	248kb	
	13	Aharoni	82kb	
	14	AIGDT	29kb	
	15	Algerian	74kb	
	16	AlternateGothic2 BT	26kb	
			OK Cance	

- Step 4 Select the target font in the pop-up dialog box.
- Step 5 Click OK.
- Step 6 Click **Update**. The update progress will be shown in the **Update result** column.

## Figure 5-35 Adding a font

			Ē F	ont management \vee	 	_ □	x
Font N	lame	033-CAI978 Please make sure the					
✓		Screen name 🌲	Screen IP 🜲	Font	Screen name Update result		
$\checkmark$	•	Taurus-40002453	172.18.12.125		Update succeeded.	100 %	
Ref	fresh				Update	Read Back	

# 5.11.2 Deleting Fonts

- Step 1 Choose Control > Font management.
- Step 2 Select the target screen in the screen list.
- Step 3 Click **Read back** at the bottom right to read back the fonts on the player.

Figure 5-36 Reading back a font

			Ē Font m	nanagement V		×
Font N	lame	033-CAI978				
						Q
$\checkmark$		Screen name 🌲	Screen IP 🜲	Font	Update result	
	•	Taurus-40002453	172.18.12.125			
Ref	fresh				Update	Read Back

Step 4 Click the link in the Font column of the target player. The Player Font list window is displayed.

#### Figure 5-37 Player font list

	Player Font List	x				
Note: When a custom font and a system font share the same name, the player will default to using the custom font.						
al Name: Taur Iete	us-32428672	:				
No.	Font Name	Font Type				
1	AcadEref	Custom font				
2	Agency FB	Custom font				
	AIGDT	Custom font				
4	Algerian	Custom font				
5	AmdtSymbols	Custom font				
6	AMGDT	Custom font				
7	Arial	Custom font				
8	Arial Black	Custom font				
		Close				

Step 5 Select target fonts.

Step 6 Click Delete.

# 5.12 Network Configuration

Configure the current network, including wired network, Wi-Fi AP, Wi-Fi Sta, and mobile network.

# 5.12.1 Configuring Wired Network

# **Application Scenarios**

Configure the network based on the actual needs when a screen is connected to the Internet via Ethernet cable.

# **Related Information**

When the Taurus is delivered, DHCP is turned on by default.

# **Operating Procedure**

- Step 1 Choose Control > Network configuration.
- Step 2 Select the target screen in the screen list.
- Step 3 In the Wired network configuration area, perform the following operations based on actual needs.
  - Select Enable next to DHCP to get an IP address automatically.
  - Deselect Enable next to DHCP and configure a static IP address.

#### Figure 5-38 Wired network configuration

Wired Network	Wi-Fi Network Mo	bile Network				Network Detection
	DHCP	🗸 Enable				
	IP Address					
	Subnet Mask					
	Gateway					
	DNS					
	DNS2					
		Apply	R	ead bad	k	

#### Step 4 Click Apply.

## 5.12.2 Configuring Wi-Fi Network

Configure the Wi-Fi AP and Wi-Fi Sta of the player.

#### 5.12.2.1 Configuring Wi-Fi AP

Change the SSID, password and channel of a screen and set AP isolation.

#### Step 1 Choose Control > Network configuration.

- Step 2 Select the target screen from the screen list.
- Step 3 Go to Wi-Fi Network > Player Wi-Fi AP and do the following as required.
  - AP: Turn on/off the screen Wi-Fi AP.
  - Hotspot Name and Password: Change the SSID and password of the screen Wi-Fi AP.

For example:

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

- Isolate from Local Network: After enabled, the Wi-Fi AP of the player is isolated from the local network and users cannot access the local network by connecting to the Wi-Fi AP.
- Advanced > Channel: Switch the channel of the Wi-Fi AP.

The channel can be switched when the player software is V2.2.0 or later.



## Figure 5-39 Player Wi-Fi AP configuration

Wired Network Wi-Fi Network	Mobile Network	Network Detection
🔘 Wi-Fi AP Mode	🔿 Wi-Fi STA Mode	
AP	• 🗩	
Hotspot Name	AP	
Password	•••••••• Ø	
	<ol> <li>8-24 characters including at least three types of the following: numbers, uppercase and lowercase letters, symbols</li> <li>Supported symbols:~, I, @, #, \$, %, ^, &amp;, *, -, _, +, =</li> <li>Chinese characters, emojis and spaces are not allowed.</li> </ol>	
Isolate from Local Network	C Enable	
	Apply	

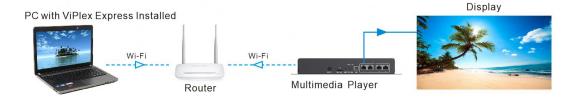
Step 4 Click Apply.

# 5.12.2.2 Configuring Wi-Fi Sta

# **Application Scenarios**

The Taurus designed with dual Wi-Fi modes, such as TB60, supports the following functions after users configure Wi-Fi Sta for the Taurus with ViPlex Express.

- If the router is connected to the Internet, players can access the Internet via the router after Wi-Fi Sta is configured.
- The PC with ViPlex Express installed and the multimedia player are connected to the same WLAN via the Wi-Fi AP of the router.



# **Operating Procedure**

- Step 1 Choose Control > Network configuration.
- Step 2 Select the target screen from the screen list.
- Step 3 Go to Wi-Fi Network > Wi-Fi Configuration area and turn on Wi-Fi.

#### Figure 5-40 Wi-Fi configuration

Wi-Fi	Configuration			
	Wi-fi			
	DIRECT-BO-HP M329dw LJ	PSK,WPA2		
	yanfa2	PSK,WPA_WPA2		
	yanfa-B	PSK,WPA2		
	NovaStar			
	NovaStar			
	TPGuest_7523	PSK,WPA_WPA2	((;•	

Step 4 Double click the Wi-Fi information of the router, enter the password and then click OK.

#### Note:

When the player version is V3.8.2 or later, Wi-Fi without a password can be connected. To connect Wi-Fi without a password, you do not have to enter a password in Step 4 and only need to click **OK**.

Figure 5-41 Wi-Fi connection

	Wi-Fi Connection	×
User Name Password	yonghedoujiang	
	ОК	Cancel

# 5.12.2.3 Switching Wi-Fi Mode

# **Application Scenarios**

For the Taurus designed with a single Wi-Fi mode, such as T1-4G, TB1-4G, TB2-4G, TB4, and TB4A, users can switch the built-in Wi-Fi AP mode to Wi-Fi Sta mode with ViPlex Express to allow for WLAN connection configuration of the Taurus.

# **Prerequisites**

Taurus	Firmware Version	ViPlex Express Version
T1-4G	V3.2.0 and later	V2.6.2.0201 and later
TB1-4G		
TB2-4G		
ТВ30		

Table 5-2 Product model and version requirements



Taurus	Firmware Version	ViPlex Express Version
ТВ40		
ТВ50		
ТВ60		

# **Operating Procedure**

#### Note:

This section introduces how to switch the built-in Wi-Fi AP mode of a player to Wi-Fi Sta mode. To ensure that the mode switching is not affected by network disconnection, connect the PC with ViPlex Express installed to the screen with an Ethernet cable.

#### Log In to screens

- Step 1 Open ViPlex Express.
- Step 2 Click Refresh to refresh the screen list.

After detecting a player, ViPlex Express will try to log in to the player with the default account or the account used for the last login.

- Enclose that the Taurus is online and you can log in to it. Go to Step 3.
- • E constant the Taurus is offline and you cannot log in to it.
- • Denotes you have successfully logged into the Taurus.
- Step 3 Click **Connect** next to the screen information.
- Step 4 Enter the password for the "admin" user and click **OK**.

For example, Taurus series and NS series: The default password is printed on the SSID label of the product.

#### Switch the Wi-Fi Mode

- Step 5 Choose Control > Network configuration.
- Step 6 Select the target screen from the screen list.
- Step 7 Click Wi-Fi Network.

## Figure 5-42 Network configuration

Wired Network Wi-Fi Network	Mobile Network	Network Detection
🖲 Wi-Fi AP Mode	🔿 Wi-Fi STA Mode	
AP		
Hotspot Name	AP	
Password	••••••• Ø	
	<ol> <li>8-24 characters including at least three types of the following: numbers, uppercase and lowercase letters, symbols</li> <li>Supported symbols:   @, #, \$, %, ^, &amp;, *, *, -, *, =</li> <li>Chinese characters, emojis and spaces are not allowed.</li> </ol>	
Isolate from Local Network	Enable	
	Арріу	

Step 8 Select Wi-Fi-STA Mode. In the box that appears, enter the network name and password of the Wi-Fi AP.

Figure 5-43 Wireless network configuration

	Switch to Wi-Fi STA	×
Prompt: If the terminal i disconnect the terminal	s currently connected via Wi-Fi AP, switching to Wi-Fi STA will	
	Hidden SSID	
ssid		
Password	Ø	
	OK Cancel	

Step 9 Click **OK**. The connection is successful, as shown in the figure below.

Wired Network Wi-Fi Network	Mobile Network	
🔿 Wi-Fi AP Mode	Wi-Fi STA Mode	
Wi-Fi		•
w_G	PSK,WPA_WPA2	- ? []
AC85	PSK,WPA_WPA2	• 🤶
Tenda_D00B60	PSK,WPA_WPA2	<b>∩</b>
Redmi_2A94	PSK,WPA_WPA2	• 🤅
AP10007625	PSK,WPA2	<b>□</b>
TP_LINK_Android	PSK,WPA_WPA2	• 🤶

#### Notes:

• Make sure the CLOUD indicator is always on, which denotes that the Internet connection is available.



- Make sure the frequency band of the connected Wi-Fi is 2.4 GHz.
- Hiding SSID is available for Taurus V3.7.0 and later.
- Step 10 Unplug the Ethernet cable between the PC and the Taurus.

The priority of the Internet connection methods for the Taurus is in the following order: Wired network > Wi-Fi network > 4G network. After you switch to Wi-Fi Sta mode in ViPlex Express, if a wired network is connected at the same time, the Wi-Fi network will be disconnected automatically.

#### 5.12.3 Configuring Mobile Network

Players with a network module can access the Internet via a mobile network. ViPlex Express automatically detects mobile network status and displays the detection result.

- Step 1 Insert the 4G card into the SIM card slot.
- Step 2 Choose Control > Network configuration.
- Step 3 Select the target screen in the screen list.
- Step 4 Go to Mobile Network > Physical SIM and turn on mobile network.
- Step 5 Click to expand the APN configuration page.
- Step 6 Click Add.
- Step 7 Enter parameters according to the APN information provided by the carrier and then click OK.
- Step 8 Select the APN and click Connect.

#### Notes:

- Step 5 to Step 8 are required for customizing an APN or setting an APN for a new SIM card.
- To add and connect to an APN for multiple players, select the players, click Add & Connect to APN, enter the required information, and click OK.

## 5.12.4 Configuring Network Detection

Players ping the cloud platform and www.baidu.com to detect network connection status by default. Users can also configure required addresses to ping and enable or disable the addresses.

#### Step 1 Choose Control > Network configuration.

- Step 2 Select the target screen in the screen list.
- Step 3 Click Network Detection to configure detection addresses.
  - Click Add to add an address.
  - Click I to modify an address.
  - Click to delete an address.

The default configuration cannot be modified and deleted.



#### Figure 5-44 Network detection

Network Detection		×
The player pings the addresses below to detect the network. Add		
Address	Enable	Operate
www.novastar.tech	•	🗹 🗙
www.baidu.com	•	
Cloud Platform	•	

Step 4 Enable or disable detection addresses.

- Set the toggle button under Enable to set to detect the screen network by pinging the corresponding address.
- Set the toggle button under **Enable** to **I** to detect screen network not by pinging the corresponding address.

```
Step 5 Click Apply.
```

# 5.13 Server Configuration

Bind to VNNOX. Authentication information is required during the configuration.

How to obtain player authentication information:

Log in to VNNOX (www.vnnox.com) and choose 2 > **Player Authentication** on the homepage of the cloud platform.

# 5.13.1 Binding to VNNOX

You can bind a screen to VNNOX.

- Step 1 Choose Control > Server configuration.
- Step 2 Select the target screen from the screen list.
- Step 3 In **Bind to VNNOX Standard/AD**, select a server and enter the authentication user name, authentication password and player name. The authentication information must be consistent with the information in VNNOX.

#### Figure 5-45 Binding to VNNOX

Current screen:	Taurus-40002453	
Information Obtained On:		
Terminal Time	2022-5-17 08:49:39	
Local Time	2022-5-17 08:49:32	
Bind to VNNOX Standard/AD		
Server address		
Authentication User Name		
Authentication password		
	Unbound	
Status	Unbound	
	Bind	

Step 4 Click Bind.

## 5.13.2 Viewing iCare Binding Information

#### Notes:

This function is displayed only when the screen has been bound to iCare.

View the binding information of the current screen.

- Step 1 Choose Control > Server configuration.
- Step 2 Select the target screen from the screen list.
- Step 3 In **Bind to iCare**, view the binding information of the current screen.

Figure 5-46 Binding information

Bind to iCare		
Server address	China ~	
User Name	nova_huixy	
Status	Bound	
	Bind	

# 5.14 Player Upgrade

- When the Taurus is earlier than V2.1.4, it cannot be directly upgraded to V3.0.0 or later. Users have to upgrade it to V2.1.4 by local upgrade first.
- When the Taurus is later than V2.1.4, there is no limit to the version during the upgrade.

#### Note:

Do not disconnect the power supply during the upgrade. The Taurus will restart once.

## 5.14.1 Device Upgrade

Upgrade player versions online. Before you begin, please make sure that your PC has access the Internet.

Step 1 Choose Control > Player Upgrade.

#### Step 2 Select Device Upgrade.

The system automatically decides whether a player needs to be upgraded.

- Yes. The current version information and **Wore** will be displayed, as shown in Figure 5-47. Go to Step 3.
- No. Only the current version information is displayed. No further operation is required.

Figure 5-47 Device upgrade

		٢	Player Upgrade \vee			***	×
Upgrade Method	Device Upgra	de 🛛 Lo	cal upgrade				
	Screen Name 👙	Screen IP 💠	Version	Туре	Progress		
	Taurus-32428672	10.40.90.49	system: T50V040700CN1301 software: 4.7.0.1301	Т60			
Refresh							

Step 3 Click More and view the related information of the new version.

Step 4 On the player information list, select one or more upgradable players and click Upgrade.

The upgrade progress is displayed (and the upgrade package download progress of the TU series devices also can be displayed).

## 5.14.2 Local Upgrade

Use local files to upgrade player versions.

- Step 1 Choose Control > Player Upgrade.
- Step 2 Select Local Upgrade.
- Step 3 Select the upgrade package path.
- Step 4 In the player information list, select one or more upgradable players and click Upgrade.

The upgrade progress is displayed.



# 5.15 Power Control

When the power switch in ViPlex Express is turned on, the relay will operate and the circuit is connected. When the power switch in ViPlex Express is turned off, the relay will release and the circuit is disconnected.

# 5.15.1 Configuring Power Tags

## Application Scenarios

Customizing a tag for each relay allows player relays with the same tag to operate or release uniformly.

## **Prerequisites**

- The player is connected to a relay card.
- The player software is V2.2.0 or later.

If the player software is earlier than V2.2.0, the **Power control** page of the earlier versions will be displayed and a prompt will be displayed to remind the user to upgrade the player to V2.2.0 or later.

# **Operating Procedure**

- Step 1 Choose Control > Power control.
- Step 2 Select the target screen from the screen list.
- Step 3 Click **Configure Power Tag** to access the **Power Tag** page. Do the following according to the actual conditions.
  - Board power: Control power supplies using relays on players. The default tag is Screen Power which can be customized.
  - External power: Control power supplies using relays on players with customized baseboards (Only when the TKS series players have customized baseboards and are installed with relays, external power supplies can be connected.). The default tag is Screen Power which can be customized.
  - Multi-function card power: Control power supplies using relays on the MFN300 multi-function card. Only the tags selected and set for the multi-function card in NovaLCT can be viewed.
- Step 4 Click OK.

## 5.15.2 Controlling Power Manually

- Step 1 Choose Control > Power control.
- Step 2 Select the target screen from the screen list.
- Step 3 Select Manual to enter the manual setting page.
- Step 4 Turn on or off the power switch.

An example of information on the multi-function card power supply is shown in Figure 5-48.

#### Figure 5-48 Manual setting

Manual		C	) Scheduled	
	1 2 3 4 Screen Power	Enable Enable Enable Enable Exception 7	Enable   Close Enable   Close Enable   Close Enable   Close Switch 6 : Enable Switch 6 : Enable Switch 8 : Close	
				Read Back

The tags in the orange box can be associated with one or more relay circuits. When multiple relay circuits are associated and each of them is turned on (or off), **Enable** (or **Close**) is displayed. Otherwise, **Mixture** is displayed and the detailed information of each circuit is provided.

## 5.15.3 Controlling Power as Scheduled

- Step 1 Choose Control > Power control.
- Step 2 Select the target screen from the screen list.
- Step 3 Choose **Scheduled** and click **I**. In the window that appears, specify the device to be controlled, time and interval, and then click **OK**.
- Step 4 After the settings are done, click Apply.

# 5.16 RF Configuration

Set parameters related to RF synchronization and apply the parameters to time synchronization, brightness synchronization, volume synchronization and environment monitoring data synchronization and enable or disable synchronous playback.

## **Prerequisites**

- The Taurus series, LCB2K and LCB4K support RF management.
- Before using RF synchronization, install an RF module. ViPlex Express can detect and display RF module status.
- Step 1 Choose Control > RF Configuration.
- Step 2 Select the target screen from the screen list.
- Step 3 Turn on **RF synchronization**.
- Step 4 Set the current player as the master device or a slave device.
- Step 5 Set a group ID.



Enter the group ID of the master device for a slave device, and this slave device and the master device will be grouped.

Step 6 Select the options that require RF synchronization.

After RF synchronization is applied, the time, brightness, volume, and environment monitoring data of the slave device will keep the same as the master device via the RF signal.

- Step 7 (Optional) Select **Slave device** and click **Advanced** to specify a mode for the slave device to receiving commands.
  - Single-packet: The slave device receives the command once.
  - Multi-packet: Set the command receiving times to "X" and command receiving interval to "Y". The slave device will receive the command twice, with an interval of 5 seconds each time.

Figure 5-49 Advanced

(•) RF Configuration $\checkmark$	_ □	x
Information Obtained On:		
Terminal Time	2024/6/11 14:34:20	
Local Time	2024/6/11 14:34:20	
Parameter Information		
RF synchronization		
Set this terminal as	🔿 Master device 🛛 🔵 Slave device 🍙	
Group ID		
Apply RF synchronization to	Time synchronization	
	Brightness Synchronization	
	Volume Synchronization	
	Environment monitoring data	
Sending Mode	Single-packet 💿 Multi-packet	
Command Receiving Times	2	
Command Receiving Interval	600 - (ms)	
	Read back	

Step 8 Click Apply.

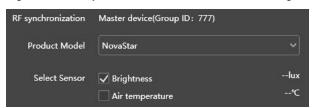
# 5.17 Sensor

If a sensor is connected to the player, the user needs to connect to the sensor logically in ViPlex Express to enable the player to collect environment monitoring data.

When the related information of RF synchronization is displayed, as shown in Figure 5-50, it indicates that environment monitoring data synchronization is enabled on the current player. For related operations, see 5.16 RF . RF synchronization requires users to specify a master device and slave devices. Users need to set the sensors of the master device only and the monitoring data of the slave devices will be the same as the master device via RF signal.



Figure 5-50 RF synchronization- environment monitoring data



- Step 1 Choose **Control** > **Sensor**.
- Step 2 Select the target screen from the screen list.
- Step 3 Select a sensor manufacturer. Sensors of only NovaStar, Nenghui and Jingxun Changtong are supported.
- Step 4 Select a sensor type.
  - NovaStar: Brightness, temperature
  - Nenghui: Air temperature, air humidity, air pressure, wind direction, CO<sub>2</sub>, wind speed, PM2.5, PM10, noise, brightness
  - Jingxun Changtong: Wind direction, wind speed, PM2.5, PM10, air pressure, air temperature, air humidity, noise, brightness

Figure 5-51 Sensor types

Parameter Configuration			
Product Model	Nenghui		
Select Sensor	Air temperature	°C	
	 Air humidity	%RH	
	Air pressure	kPa	
	Wind direction		
	CO2	ppm	
	Wind speed	Level	
	PM2.5	µg/m³	
	PM10	µg/m³	
	Noise	dB	
	Brightness	lux	
			Apply

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

# 5.18 Player Information

The information displayed here includes the player's MAC address, IP address, system software version, product model, application software version.

- Step 1 Choose Control > Player Information.
- Step 2 Select the target screen from the screen list.
- Step 3 View the player information

## Figure 5-52 Player information

		i Player Informat	on Y	-	o x
Screen Name		Current screen:	Taurus-32428672		
Screen Name 💠	Screen IP 💠 🍈	Information Obtained On: Player Time	2024-10-15 04:28:05		
<b>Taurus-32428672</b>	10.40.91.17	Local Time	2024-10-15 11:28:05		
Taurus-40002453	172.18.12.14	Registered Address			
Taurus-30005257	172.18.179.37	SN	MKAA01730N0080000049		
Taurus-10006847	172.18.179.39	MAC address	54:B5:6C:05:87:7F		
Taurus-20017397	172.18.179.47	IP address System Version	10.40.91.17 T50V040700CN1301		
Taurus-20004871	172.18.179.77	Product Model	T60		
Taurus-80000047	172.18.179.47	Major Software Version	4.7.0.1301		
Taurus-30000186	172.18.179.117	Total Capacity Advanced	8GB		
G Taurus-40003481	172.18.179.135				
Taurus-49999571	172.18.179.142				
<b>Taurus-23031691</b>	172.18.179.146				
Taurus-90000266	172.18.179.178				
Taurus-90000043	172.18.179.179				
Taurus-49999760	172.18.179.117			Re	ad back

# 5.19 Studio Mode

The device can play image and video files stored in a USB drive without requiring the device password.

- Step 1 Choose Control > Studio Mode.
- Step 2 Select the target screen from the screen list.
- Step 3 Turn on studio mode and click **OK**.

#### Figure 5-53 Studio mode

Current screen:	Taurus-32428672	
Information Obtained On:		
Player Time	2024-7-31 11:52:09	
Local Time	2024-7-31 18:52:09	
Parameter Configuration		How to create a standalone solution 🕐
Studio Mode	<u> </u>	
Play Duration	10 s 📥	
	The playback duration is 10s by default	
Scaling	Fill the Entire Screen     Keep Aspect Ra	atio
<b>-</b>		
Entrance Effect	None V	
		Apply
		Adday
		Read back

- Step 4 Set the solution playback duration, scaling and entrance effect as required.
- Step 5 Click **Apply** for the standalone playback settings to take effect on the screen.
- Step 6 Insert a USB drive into the computer, create a playback directory, and place the required files to the root directory of the USB drive.

Rules for solution file names: 3-digit numbers in ascending order (example: 001-XXX, 002-XXX...999-XXX)

Step 7 Insert the USB drive into the device.

The copying progress is displayed on the screen. After the files are copied to the device, the solutions will be played on the screen.

# 5.20 Multi-Screen Mosaic

# **Applications**

Quickly mosaic multiple screens with the same resolution.

# **Prerequisites**

- The devices support multi-screen mosaic and are connected.
- The screens used for mosaic are of the same resolution and support horizontal mosaic.



 Screens must be connected in order via HDMI. Users need to configure the starting screen and publish a solution to it.

# **Operating Procedure**

- Step 1 Choose Control > Multi-Screen Mosaic.
- Step 2 Turn on Multi-Screen Mosaic.
- Step 3 Set relevant parameters as needed.
  - Mosaic Orientation: Set the orientation of screen mosaic. Options include From left (default) and From right.
  - Mosaic By: Supports mosaic by screen quantity (default) or by mosaic screen width (you need to enter the mosaic width).
  - Screens for Mosaic: When Mosaic By is set to Quantity, you need to specify Screens for Mosaic, which
    indicates the number of screens involved in the mosaic setup.

Parameter Configuration							
Multi-Screen Mosaic 📃 🦲							
Mosaic Orientation 🜔 From Left 🦳 From Right							
Mosaic By 🦲 Quantity 💦 Width							
Screens for Mosaic 8							
	Apply						
	Read back						

#### Note:

The maximum loading capacity for multi-screen mosaic can support up to 4096 pixels, allowing up to 8 screens to be mosaicked. For further details, see *Multi-Screen Mosaic Configuration Guide*.

Step 4 Once you are done, click Apply.

# 6 VNNOX Login

to enter VNNOX login page. VNNOX supports remote content At the top right of the page, click management and screen control.

For related operations, see the user manual of VNNOX.

# 7 System Settings

At the top right of the page, click and select the required menu.

Table 7-1 System settings

Menu	Description
Language	Set the display language.
Working Mode	Select working mode, including studio mode and async mode.
Appearance	Seelct an appearance for ViPlex Express. Dark and light colors are avaialble.
RF Control	Manage the playback of all screens except the reference device when the RF time synchronization mode is enabled. Before the operation, enter the password "admin".
Custom conver	
Custom server	Add, modify, or delete custom servers. Users can choose customized servers on the pages of connecting to cloud publishing and monitoring services and the page of setting NTP synchronization.
Preferences	<ul> <li>Set the location to save files, including ViPlex Express configuration files, data, temporary files, etc.</li> <li>Specify an FTP library version to improve the network adaptability of ViPlex Express.</li> <li>Choose whether to remember the connection password. After <b>Remember Password</b> is deselected, users have to enter the password when connecting to a screen each time.</li> </ul>
Check for Updates	Check for and install new updates of ViPlex Express.
Feedback	Scan the QR code to give your feedback.
Reset Screen	<ul> <li>Reset screens. Users can select the reset options and specify the export path.</li> <li>If Connection Password is selected, the device connection password will be reset to the default password.</li> <li>If Binding Information is selected, the VNNOX Care/VNNOX binding information will be cleared.</li> </ul>
APP	Scan the QR code to download ViPlex Handy.
Help	View the documentation related to the software.

About	Display the version of ViPlex Express and the official website.
Open NovaLCT	Open NovaLCT from ViPlex Express with one click.

# 8 Media Decoding Specifications

# 8.1 Image

Codec	Supported Image Size	Format	Remarks
JFIF file format 1.02	48×48 pixels~8176×8176 pixels	JPG, JPEG	No support for non-interlaced scan Support for SRGB JPEG Support for Adobe RGB JPEG
BMP	No Restriction	BMP	N/A
GIF	No Restriction	GIF	N/A
PNG	No Restriction	PNG	N/A
WEBP	No Restriction	WEBP	N/A

# 8.2 Audio

Codec	Channel	Bit rate	Sampling rate	Format	Remarks
MPEG1/2/2.5 Audio Layer1/2/3	2	8kbps~320kbps, CBR and VBR	8KHZ~48KHz	MP1, MP2, MP3	N/A
WMA Version 4, 4.1, 7, 8, 9, wmapro	2	8kbps~320kbps	8KHZ~48KHz	WMA	No support for WMA Pro, lossless codec and MBR
MS-ADPCM, IMA-ADPCM, PCM	2	N/A	8KHZ~48KHz	WAV	Support for 4bit MS-ADPCM and IMA-ADPCM
Q1~Q10	2	N/A	8KHZ~48KHz	OGG, OGA	N/A
Compress Level 0~8	2	N/A	8KHZ~48KHz	FLAC	N/A
ADIF, ATDS Header AAC-LC and AAC-HE, AAC-ELD	5.1	N/A	8KHZ~48KHz	AAC, M4A	N/A
AMR-NB, AMR-WB	1	AMR-NB 4.75~12.2kbps@8kHz AMR-WB 6.60~23.85 kbps@16kHz	8KHZ, 16KHz	3GP	N/A



Codec	Channel	Bit rate	Sampling rate	Format	Remarks
MIDI Type 0 and 1,	2	N/A	N/A	XMF, MXMF,	N/A
DLS version 1 and 2,				RTTTL,	
XMF and Mobile XMF,				RTX, OTA,	
RTTTL/RTX, OTA,				IMY	
iMelody					

# 8.3 Video

Codec	Resolution	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	Format	Remarks
MPEG-1/2	48×48pixels~1920× 1080pixels	30fps	80Mbps	DAT, MPG, VOB, TS	Support for field coding
MPEG4	48×48pixels~1920× 1080pixels	30fps	38.4Mbps	AVI, MKV, MP4, MOV, 3GP	No support for MS MPEG4 v1/v2/v3, GMC
H.264	T3&T6&TB3&TB4& TB6&TB8: 48×48 pixels~4096×2304 pixels Other models: 48×48pixels~1920× 1080pixels	T3&T6&TB3&TB 4&TB6&TB8: 4K@25fps, 1080P@60fps Other models: 1080P@60fps	T3&T6&TB3&TB4& TB6&TB8: 100Mbps Other models: 57.2Mbps	AVI, MKV, MP4, MOV, 3GP, TS, FLV	Support for field coding and MBAFF
H.264 MVC	48×48pixels~1920× 1080pixels	60fps	38.4Mbps	MKV, TS	Support for Stereo High Profile only
H.265/HEV C	T3&T6&TB3&TB4& TB6&TB8: 64×64pixels~4096× 2304pixels Other models: 64×64pixels~1920× 1080pixels	T3&T6&TB3&TB 4&TB6&TB8: 4K@60fps, 1080P@60fps Other models: 1080P@60fps	T3&T6&TB3&TB4& TB6&TB8: 100Mbps Other models: 57.2Mbps	MKV, MP4, MOV, TS	Support for Main Profile, Tile & Slice
VP8	48×48pixels~1920× 1080pixels	30fps	38.4 Mbps	WEBM, MKV	N/A
H.263	SQCIF(128×96), QCIF(176×144), CIF(352×288), 4CIF(704×576)	30fps	38.4Mbps	3GP, MOV, MP4	No support for H.263+
VC-1	48×48pixels~1920× 1080pixels	30fps	45Mbps	WMV, ASF, TS, MKV,	N/A

Codec	Resolution	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	Format	Remarks
				AVI	
MJPEG	48×48pixels~1920× 1080pixels	30fps	38.4Mbps	AVI	N/A

Note: Output data format is YUV420 semi-planar, and YUV400 (monochrome) is also supported for H.264.