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# **ViPlex Express**

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Studio Mode User Manual

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# **1** Software Introduction

ViPlex Express is a display content publishing management system for PC, which is installed in the Windows operating system and allows you to edit solutions and play the 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 studio mode.

ViPlex Express is part of the NovaStar cloud solution. On the startup page of studio mode, clicking **Cloud Platform** on the left menu allows you to view the related information.

#### **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. In a template, you can set the number, coordinates, width, and height of windows based on your needs.

#### A variety of media

On a page, you can add general windows, cut-to-display window, Office documents, images, videos, GIF, text, colorful text, digital clocks, analog clocks, timers, weather, RSS, streaming media and web pages.

#### 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 period and cycle for each page to play. The schedules of a page can be batch applied to other pages. If the periods 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 refreshes immediately when you move on to another page.

#### All-round Terminal Control

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



# 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

http://www.en.vnnox.com/download

#### **Installing Software**

Double click the installer to install ViPlex Express by following the wizard.

# 2.3 Checking PC Configuration Options

To ensure stable playback, please check the Windows configuration options shown in Table 2-1. If a configuration option does not conform to the target status, please change it. This chapter takes Windows 10 as an example.

Configuration Options	Target Status
Windows automatic update	Off
Firewall	• Off
	Allow program connection
	Conforms to any of the above statuses.
Turn off screen	Never
Sleep	Never
Scaling size	100%
Multiple displays	Duplicate these displays
UAC	Never notify
Antimalware Service Executable	Disabled
Superfetch	Manual

#### 2.3.1 Windows Automatic Update

Step 1 Click

on the Windows Start menu.

Step 2 Choose Update & Security.

Step 3 On the Windows Update page, click **Advanced** options. www.novastar.tech



Table 2-1 Configuration options

Step 4 Check whether Windows automatic update is turned off.

#### Figure 2-1 Windows automatic update

Update Options

Give me updates for other Microsoft products when I update Windows.

On On

Automatically download updates, even over metered data connections (charges may apply)

Off

We'll show a reminder when we're going to restart. If you want to see more notifications about restarting, turn this on.

#### 2.3.2 Firewall

- Step 1 Click and on the Windows Start menu.
- Step 2 Choose Update & Security.
- Step 3 Select Windows Security.
- Step 4 Click Open Windows Defender Security Center.
- Step 5 Check whether the firewall is turned off. If the firewall needs to be turned on, check whether the connection is allowed. For the method to allow program connection, see 7.1 How to set the inbound firewall rules?

Figure 2-2 Firewall



## 2.3.3 Screen off and Sleep

- Step 1 Click on the Windows Start menu.
- Step 2 Choose System.
- Step 3 Choose Power & sleep.
- Step 4 Check whether all the four configuration options are set to **Never**.



#### Figure 2-3 Screen off and sleep

Power & sleep
Screen
On battery power, turn off after
Never ~
When plugged in, turn off after
Never $\checkmark$
Sleep
On battery power, PC goes to sleep after
Never ~
When plugged in, PC goes to sleep after
Never

#### 2.3.4 Scaling Size and Multiple Displays

- Click on the Windows Start menu. Step 1
- Step 2 Choose System.

Scale and lavout

Step 3 Check whether the scaling size is 100% and the option of multiple displays is set to **Duplicate these displays**. Note: When multiple monitors are connected, the configuration option for multiple displays will appear.

Figure 2-4 Scaling size and mu	Iltiple	displays
--------------------------------	---------	----------

Seale and ayout
Change the size of text, apps, and other items
100% (Recommended)
Advanced scaling settings
Resolution
1920 × 1080 (Recommended) V
Orientation
Landscape $\checkmark$
Multiple displays
Multiple displays
Duplicate these displays $\checkmark$

## 2.3.5 UAC

Step 1 Click on the Windows Start menu.

- Step 2 Type "User Accounts" in the search box and select Change User Account Control Settings.
- Step 3 Check whether UAC is set to Never notify.



Choose when to	be notified about changes to your computer			
User Account Control Tell me more about Us	helps prevent potentially harmful programs from making changes to er Account Control settings	your computer.		
Always notify				
-   -	Never notify me when:			
	<ul> <li>Apps try to install software or make changes to my computer</li> </ul>			
	I make changes to Windows settings			
	Not recommended.			
Newsonia	•			
Never notify				

#### 2.3.6 Antimalware Service Executable

- Step 1 Press Win+R buttons to open the Run window.
- Step 2 Type gpedit.msc command and press Enter to open the Local Group Policy Editor dialog box.
- Step 3 Expand Computer Configuration > Administrative Templates > Windows Components > Windows Defender Antivirus.
- Step 4 Click Real-time Protection.
- Step 5 Check whether the status of Turn on process scanning whenever real-time protection is enabled is Disabled.

Figure 2-6 Antimalware service executable

Cocal Group Policy Editor					- 0 /
File Action View Help					
⊨ 🔿 🙍 📷 🔒 📓 📷 🛛 🐨					
Push To Install	Call Real-time Protection				
Remote Desktop Services	Turn on process scanning whenever	Setting	State	Comment	
Search	real-time protection is enabled	Turn off real-time protection	Not configured	No	
Security Center	1 m m m m	Turn on behavior monitoring	Not configured	No	
Shutdown Options	Edit policy setting	E Scan all downloaded files and attachments	Not configured	No	
Smart Card	Requirements:	Monitor file and program activity on your computer	Not configured	No	
Software Protection Platform	At least Windows Server 2012,	Turn on raw volume write notifications	Not configured	No	
Sound Recorder	Windows 8 or Windows RT	Turn on process scanning whenever real-time protection is	Disabled	No	
Speech	Description:	E Define the maximum size of downloaded files and attachme	Not configured	No	
📫 Store	This policy setting allows you to	E Configure local setting override for turn on behavior monito	Not configured	No	
Sync your settings	configure process scanning when	E Configure local setting override for scanning all downloade	Not configured	No	
> 🔛 Tablet PC	This helps to catch malware which	E Configure local setting override for monitoring file and prog	Not configured	No	
Task Scheduler	could start when real-time protection	E Configure local setting override to turn on real-time protecti	Not configured	No	
Text Input	is turned off.	E Configure local setting override for monitoring for incomin	Not configured	No	
Windows Calendar	March 1 and 1 and 1 and 1 and 1	E Configure monitoring for incoming and outgoing file and p	Not configured	No	
Windows Color System	this setting, a process scan will be				
Windows Customer Experience Impre	initiated when real-time protection is				
Client Interface	turned on.				
Exclusions	If you disable this setting a process				
MAPS	scan will not be initiated when real-				
MpEngine	time protection is turned on.				
Network Inspection System					
Quarantine					
Real-time Protection					
Remediation					
Reporting					
Scan					
Signature Updates					
Ihreats					
> Windows Defender Exploit Guard					
Windows Defender Application Guari					
> windows befender Exploit Guard >	Extended Standard				
-	( caterioco / standard )				
setting(s)					

#### 2.3.7 Superfetch

- Step 1 Press Win+R buttons to open the Run window
- Step 2 Type services.msc command and press Enter to open the Services dialog box.
- Step 3 Check whether the startup type of Superfetch is Manual.



					-	o ×
iew Help						
) Senires (Local)						
Superfetch	Name	Description	Status	Startun Tyne	Log On As	^
Superieur	i come	Company Charles and a local share	0	A to a first	Log Office	
Start the service	Server	Supports file, print, and named-pipe snarin	Kunning	Automatic (Irigger start)	Local system	
	Shared PC Account Manager	Manages profiles and accounts on a Share		Disabled	Local System	
	Shell Hardware Detection	Provides notifications for AutoPlay hardwa	Kunning	Automatic	Local System	
Description: Maintains and improves curtem	Smart Card	Manages access to smart cards read by thi		Manual (Trigger Start)	Local Service	
performance over time.	Smart Card Device Enumeration Service	Creates software device nodes for all smart		Manual (Irigger Start)	Local System	
	Smart Card Removal Policy	Allows the system to be configured to lock		Manual	Local System	
	SNMP Irap	Receives trap messages generated by local		Manual	Local Service	
	Software Protection	Enables the download, installation and enf		Automatic (Delayed Start, Trigger Start)	Network Service	
	Spatial Data Service	This service is used for Spatial Perception s		Manual	Local Service	
	Spot Verifier	Verifies potential file system corruptions.		Manual (Trigger Start)	Local System	
	SSDP Discovery	Discovers networked devices and services t	Running	Manual	Local Service	
	State Repository Service	Provides required infrastructure support fo	Running	Manual	Local System	
	Still Image Acquisition Events	Launches applications associated with still		Manual	Local System	
	Storage Service	Provides enabling services for storage setti	Running	Manual (Trigger Start)	Local System	
	Storage Tiers Management	Optimizes the placement of data in storag		Manual	Local System	
	Superfetch	Maintains and improves system performan		Manual	Local System	
	SynTPEnh Caller Service		Running	Automatic	Local System	
	System Event Notification Service	Monitors system events and notifies subsc	Running	Automatic	Local System	
	🖏 System Events Broker	Coordinates execution of background wor	Running	Automatic (Trigger Start)	Local System	
	🔍 System Guard Runtime Monitor Broker	Monitors and attests to the integrity of the	Running	Automatic (Delayed Start)	Local System	
	🥋 System Interface Foundation Service	The Lenovo System Interface Foundation S	Running	Automatic	Local System	
	🧠 Task Scheduler	Enables a user to configure and schedule a	Running	Automatic	Local System	
	CP/IP NetBIOS Helper	Provides support for the NetBIOS over TCP	Running	Manual (Trigger Start)	Local Service	
	🚳 Telephony	Provides Telephony API (TAPI) support for		Manual	Network Service	
	🖏 Themes	Provides user experience theme managem	Running	Automatic	Local System	
	ThinkPad HDD APS Logging Service			Manual	Local System	
	🖓 Time Broker	Coordinates execution of background wor	Running	Manual (Trigger Start)	Local Service	
	Touch Keyboard and Handwriting Panel Service	Enables Touch Keyboard and Handwriting	Running	Manual (Trigger Start)	Local System	
	TsBrowserCrashHandleService	极速浏览器崩溃上报服务	Running	Automatic (Delayed Start)	Local System	

# 2.4 Connecting to Displays



# 2.5 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 2-9 Selecting a working mode

	Select Mode	-	x
Please select your playback scenario			
Studio Mode Play content on a computer	Async Mode Play content on multimedia players		
	Open	Cancel	

## **Other Situations**

If you have installed ViPlex Express or selected a working mode before, the dialog box shown in Figure 2-9 will not appear. If ViPlex Express is in async mode by default after opened, switch to studio mode by following the steps below:

In the top-right corner, choose Studio Mode > Studio Mode and click OK. ViPlex Express will be in studio mode after restarted.

## 2.6 Creating Solutions

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

Step 1 After you select studio mode, the startup page of studio mode is displayed.

0				
ViPlex Express Studio Mode	Solution			\$3 <b>-</b> ×
User Manual	Name	Resolution	File Size	Last Modified 🜲
Cloud Platform	NS	400×400	08	2022-2-24 16:43:00
Feedback				

Figure 2-10 Startup page of studio mode

Step 2 Click H and select **Regular Screen** or **Ultra-Long Screen**.

• Select Regular Screen to access the solution editing page.

On the solution editing page, choose **Playback Window** > **Playback Window Settings** from the menu bar and set the coordinates, width, and height of the playback window and select an option of keeping the window on



top. If **Same as desktop** is selected, the size of the playback window will be the same as the size of your desktop.

#### Figure 2-11 Playback window settings

	Playback	Window Setti	ngs			×
Window Size	Same as d	esktop				
	x 0	<b>*</b>	Y	0	<b>+</b>	
	w 400	▲ ▼	н	512	•	
Stay on Top	Always	O Never		While pla		
				ОК	Cancel	

Select Ultra-Long Screen to open the Solution Information dialog box, as shown in Figure 2-12.
 Set a name, resolution, direction and the number of parts for the solution, then click OK to access the solution editing page.



	Solution Information	×
Solution Name	NewSolution20200701140014	
Resolution	Width 4000 px 🔷 Height 256 px 🔷	
Direction	Horizontal     Vertical	
Number of Parts	2	
	OK Cane	el

- Step 3 After the solution editing is done, click Save.
- Step 4 (Optional) At the upper right of the page, click is to view the schedule of each page in the solution.
- Step 5 (Optional) At the upper right of the page, click 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 to refresh the preview window.

# 2.7 Playing Solutions

- Step 1 On the solution editing page, click **a** at the upper right to play a solution.
- Step 2 The solution editing page is not displayed and a playback control bar appears.

Figure 2-13 Playback control bar

3				
>> NewSolution202	<b>2</b> (4000x256)			x
<b>  </b> Pause	Stop	🕑 Replay	► Expand	

Image: Pause playback. After the playback is paused, this button changes to the Play button.



- Stop playback and display the solution editing page.
- 100 Restart the playback from the beginning.
- Expand the solution editing page.
- Collapse the solution editing page.

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# 3 Solution Management

# 3.1 Creating Solutions

Step 1 After you select studio mode, the startup page of studio mode is displayed.

- You can create solutions for regular screens (hereinafter referred to as "regular-screen solutions") and solutions for ultra-long screens (hereinafter referred to as "ultra-long-screen solutions".
- After updated, the solution data in async mode will be synchronized to studio mode.

#### Figure 3-1 Startup page of studio mode

ViPlex Express Studio Mode	Solution New Solution			¢	
User Manual	Name	Resolution	File Size	Last Modified 🗘	
Cloud Platform	NS	400×400	08	2022-2-24 16:43:00	
Feedback		AR AR	(fC)		

## 3.1.1 Creating a Regular-Screen Solution

#### **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 Click 🖿 and select **Regular Screen** from the drop-down menu.

 When you access the studio mode for the first time to create a regular-screen solution, you are prompted to set the playback window, as shown in Figure 3-2.

The playback window and screen must be consistent in resolution.



#### Figure 3-2 Playback window settings

y) NS (600x600) File Playba	ck Window Play logs				\$3 <b>-</b> □ ×
Save Save as General Windo	w Cut-to-Display File	Text Colorful Word Clock	Analog Clock Timer Weather	Table >> View Sc	hedule Preview Play
+•				The second secon	perties Page Properties
1 lines				Page Name Play Count	Page1 1 times 🛓
		Disubark Window Satti	nn8	Validity F	lange
				Schedule	#
	Window Size	Same as desktop		1 00:0	0 🔷 ~ 24:00 🗘 🕀
		x 600 🗘	ч <b>т</b> н 600 <b>↓</b>		T W T F S
	Stay on Top	Always Never	While playing		Apply Schedule
			ox c	tancel	

• In other situations, the solution editing page is displayed when you access the studio mode to create a regularscreen solution, as shown in Figure 3-3.

You can resize and reposition the playback window and choose to show or hide the playback window. For details, see 4 Playback Management.

Figure 3-3 Solution editing page



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

Table 3-1 Description	of the solution	editing page
-----------------------	-----------------	--------------

No.	Function	Description		
1	Saving a solution and saving a solution as another solution	Used for saving a solution and saving a solution as another solution		
2 Adding media You can click an icon to add a		: General window	E Cut-to-display window	
correspond	corresponding type of media.	File	Text: Text	
		Colorful text	Eigital clock	
		C : Analog clock	: Timer	



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No.	Function	Description		
		: Weather	:Table	
		RSS: RSS	E Streaming media	
		: Web page	-	
3	Viewing schedules, previewing pages and publishing solutions	Used for viewing schedules publishing solutions	, previewing the current page and	
4	Editing solution pages You can add, copy and delete pages and adjust the order of	+ : Add	: Open the <b>Page Template</b> dialog box	
	pages. Pages are played in order from	🗐 : Сору	E Delete	
	top to bottom.	Move up	Move down	
		(Only the thumbnail view (Only the thumbnails of pages are displayed.)	List view: (The thumbnails of pages and the names of the media items contained in the currently selected page are displayed.)	
5	Editing media on pages		Q: Zoom editing area out	
	51	: Show the editing area in the original size	Automatically fit the editing area according to the software interface	
		: Delete selected media	: Clear all media	
		디 : Crop image	E: Bring forward	
	IRS	E: Send backward	E: Bring to front	
	.0''	: Send to back	Fill the entire screen	
	4	: Fit the screen horizontally	Fit the screen vertically	
7.4.		III: Align top	E Center vertically	
1. 1.		Le: Align bottom	E Align left	
		E: Center horizontally	E: Align right	
6	Editing media on pages	Used for editing widget and	page properties	
		<ul> <li>Widget Properties: Widge The properties of different to select it before you edit</li> </ul>	ts are the media added to a page. t types of media vary. Click a widget i its properties.	
		Page Properties: Set the playback schedule of a page	name, play count, validity range and age.	
	- Play Count: S		number of times to play a page	
		<ul> <li>Validity Range: After this option is selected, the Start</li> <li>Date and End Date parameters are displayed. Expired</li> <li>pages will be skipped during solution playback.</li> </ul>		
		<ul> <li>Schedule: Allows you page and select the timeslots of different</li> </ul>	u to specify the timeslots to play a days to repeat the playback. If the pages overlap, the pages will be	

No.	Function	Description	
		<ul> <li>played in order from top to bottom.</li> <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 you add an Excel file, the number of rows of the Excel file must be less than or equal to 600 and 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.
- A valid URL is required when you add RSS, streaming media, or web page media.
- When you add weather media, the terminal must be connected to the Internet so that it can obtain real-time weather information.
- For the limitations on cut-to-display windows, see 7.3 Limitations on Cut-to-Display Windows for Regular Screens.
- Step 2 After the solution editing is done, click Save.
- Step 3 (Optional) At the upper right of the page, click with the view the schedule of each page in the solution.
- Step 4 (Optional) At the upper right of the page, click even 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 to refresh the preview window.

#### 3.1.2 Creating an Ultra-Long-Screen Solution

## 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 or the pixel height of the resolution of a screen is greater than the pixel height 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 7.4 Limitations on Playback Parameters for Ultra-long Screens.

## **Application Example**

The resolution of a screen is 9000×128 or 128×9000 and the maximum loading capacity of a TB8 multimedia player is 2,300,000 pixels with a maximum width of 4096 pixels and a maximum height of 1920 pixels.

## Screen Configuration

 The screen width and height to be configured cannot exceed the maximum width and height of the loading capacity of the TB8, as shown in Figure 3-4 and Figure 3-5.

- Number of parts: 9000/4096=2.20 (Here an integer is required, so the number of parts is 3.)
- Screen width to be configured: 9000/3=3000
- Screen height to be configured: 128x3=384

#### Ultra-tall screen (128×9000)

- Number of parts: 9000/1920=4.69 (Here an integer is required, so the number of parts is 5.)
- Screen width to be configured: 128×5=640
- Screen height to be configured: 9000/5=1800



Figure 3-4 Ultra-wide screen configuration



Figure 3-5 Ultra-tall screen configuration



 When you set the connection of receiving cards and an Ethernet port loads two rows/columns or more, the connection must follow the shape of the letter Z, as shown in Figure 3-6 and Figure 3-8.

<u> </u>						
	1	2	3	4	5	6
1	Sending Card:1 Port:1 Rec Sing	Sending Card:1 Port:1	Sending Card:1 Port:1	Sending Card:1 Port1	Sending Card:1 Port:1	Sending Card:1 Port:1
	Card:1 Width:512	Card:2 Width:512	Card:3 Width:512	Card:4 Width:512	Card:5 Width:512	Card:6 Width:440
2	Sending Card:1 Port:2 Poc Sting	Sending Card:1 Port:2				
2	Card:1 Width:512	Card:2 Width:512	Card:3 Width:512	Card:4 Width:512	Card:5 Width:512	Card:6 Width:440
2	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3
3	Card:1 Width:512	Card:2 Width:512	Card:3 Width:512	Card:4 Width:512	Card:5 Width:512	Card:6 Width:440

Figure 3-6 Ultra-wide screen connection

#### Figure 3-7 Ultra-tall 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 3-8 and Figure 3-9.

#### Figure 3-8 Blank receiving cards of an ultra-wide screen

	1	2	3	4	5	6
1		Sending Card:1 Port:1 Rec Sing	Sending Card:1 Port:1	Sending Card:1 Port1	Sending Card:1 Port:1	Sending Card:1 Port:1 Decloring
		Card:1 Width:512	Card:2 Width:512	Card:3 Width:512	Card:4 Width:512	Card:5 Width:440
2	Sending Card:1 Port:2	Sending Card:1 Port:2	Sending Card:1 Port:2	Sending Card:1 Port:2	Sending Card:1 Port:2	Sending Card:1 Port:2
2	Card:1 Width:512	Card:2 Width:512	Card:3 Width:512	Card:4 Width:512	Card:5 Width:512	Card:6 Width:440
	Sending Card:1 Sending Ca Port:3 Port:3 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3	Sending Card:1 Port:3	
• 3	Card:1 Width:512	Card:2 Width:512	Card:3 Width:512	Card:4 Width:512	Card:5 Width:512	

Figure 3-9 Blank receiving cards of an ultra-tall screen



#### **Operating Procedure**

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

Step 1

Click 🖿 and select Ultra-Long Screen from the drop-down menu.

The Solution Information dialog box appears.



Figure 3-10 Solution information of an ultra-wide screen

	Solution Information	×
Solution Name	NewSolution20200703152943	
Resolution	Width 3000 px 🔷 Height 384 px 🖨	
Direction	Horizontal     Vertical	
Number of Parts		
	ОК	Cancel

Figure 3-11 Solution information of an ultra-tall screen

Solution Name	NewSolution202007031		
Resolution	Width 640 px 🚽	Height 1800 px	<b>_</b>
Direction	Horizontal	Vertical	
Number of Parts			
		ок	Cancel

Step 2 Set a name, resolution, direction and the number of parts for the solution, then click OK.

The resolution of the solution must be consistent with the configured screen width and height.

Here the width of the ultra-wide screen is 3000 and its height is 384, and the width of the ultra-tall screen is 640 and its height is 1800. For details, see the preceding Screen Configuration.

• Set the direction according to the actual situation, For an ultra-wide screen, select **Horizontal**, while for an ultratall screen, select **Vertical**.

Here the direction is Horizontal.

• The number of parts is calculated according to the actual screen width and height and the configured screen width and height.

Here the number of parts of the ultra-wide screen is 3 and the number of parts of the ultra-tall screen is 5. For details, see Screen Configuration,

- Step 3 Edit the solution on the solution editing page, as shown in Figure 3-12.
  - In the page media editing area, the page is displayed based on the actual screen resolution and boundaries appear according to the number of parts.
  - Only images, text and colorful text can be placed across the boundary.



Figure 3-12 Oltra-	long-screen solutio	in eutility page				
20220516103933 (600×600)           20220516103933 (600×600)         1           202         20220516103933 (600×600)         1           202         20220516103933 (600×600)         1           202         20220516103933 (600×600)         1           203         20220516103933 (600×600)         1           203         20220516103933 (600×600)         1           203         20220516103933 (600×600)         1           203         20220516103933 (600×600)         1           203         20220516103933 (600×600)         1           203         202         20220516103933 (600×600)         1           203         203         203         203         203           203         203         203         203         203         203           203         203         203         203         203         203           203         203         203         203         203         203           203         203         203         203         203         203           203         203         203         203         203         203         203           203         203         203         203         203         203 <td>File Playback Window Play logs</td> <td>Nalog Clock Timer Weather</td> <td>Table RSS</td> <td>&gt; 🛗 View Schedule</td> <td>绞 _ □ × • ► Preview Play</td> <td></td>	File Playback Window Play logs	Nalog Clock Timer Weather	Table RSS	> 🛗 View Schedule	绞 _ □ × • ► Preview Play	
+ ॿ × ↑ ↓				Widget Properties	Page Properties	
1 Itimes				Page Name /*-	ÿ1 times ↓	
				Validity Range		
				Schedule	#	
				1 00 : 00 🔷 ~	24:00 🖕 🕂	
				S M T	W T F S	
				Apply	Schedule	

Figure 3-12 Ultra-long-screen solution editing page

- Step 4 After the solution editing is done, click Save.
- Step 5 (Optional) At the upper right of the page, click upper to view the schedule of each page in the solution.
- Step 6 (Optional) At the upper right of the page, click even to preview the current page.

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

# **3.2 Playing Solutions**

On the top right of the page, click to play a solution. The solution editing page is not displayed and a playback control bar is displayed.

Figure 3-13 Playback control bar



- III: Pause playback. After the playback is paused, this button changes to the **Play** button.
- Stop playback and display the solution editing page.
- Restart the playback from the beginning.
- Expand the solution editing page.
- Collapse the solution editing page.

# 3.3 Screen Monitoring

If you have an extended display connected and the solution is played on that display, click solution is played on the playback control bar to monitor on the main display the image currently being played.

Figure 3-14 Screen monitoring





# 4 Playback Management

# 4.1 Setting Playback Window

On the menu bar of the solution editing page, choose **Playback Window** > **Playback Window Settings**. Set the coordinates, width, and height of the playback window and select an option of keeping the window on top. If **Same as desktop** is selected, the size of the playback window will be the same as the size of your desktop.

#### Figure 4-1 Playback window settings

	Playback Window S	Settings	×
Window Size	Same as desktop		
	x 51	Y 0	
	W 512	H 512 🔺	
Stay on Top	Atways I	Never 💿 While playing	3
Reset		ок	Cancel

# 4.2 Showing and Hiding Playback Window

- When the playback window is shown, choose **Playback Window** > **Hide Playback Window** on the menu bar to hide the playback window.
- When the playback window is hidden, choose **Playback Window** > **Show Playback Window** on the menu bar to show the playback window.

The default shortcut of showing and hiding playback window is **Ctrl+H**. You can change it in S > **Preferences**.

# 5 Play Logs

# 5.1 Querying Play Logs

Step 1 On the solution editing page, select **Play logs** on the menu bar.

# Figure 5-1 Play logs × 2019-12-30 © Cuery Export Date Size No playback logs in the selected date range

Step 2 Set the date range and click Query.

Querying play logs of the current day is not supported.

- Step 3 In the displayed query result list, click the date to view the general information and details of the play logs.
- Step 4 (Optional) Click **Back** to go back to the query result list.

# 5.2 Exporting Play Logs

- Step 1 On the solution editing page, select **Play logs** on the menu bar.
- Step 2 Set the date range and click Query.

Querying play logs of the current day is not supported.



#### Figure 5-2 Query result

				Play logs			×
201	9-12-25	<b>a</b> ~	2019-12-30		Query		
	Date				Size		
					862B		

- Step 3 Select the logs you want to export and click **Export**.
- Step 4 In the displayed dialog box, set the export path and format.
- Step 5 Click OK.

Starter

# 6 System Settings

To enter system settings, click in the top-right corner of the startup page or solution editing page in studio mode.

# 6.1 Switching Language

Choose Choose > Language and select the target language from the submenu.

# 6.2 Switching Working Mode



Choose Solution > Working Mode > Async Mode to switch to the async mode.

## 6.3 Setting Preferences

Choose 2 > Preferences to open the Preferences dialog box.

#### Figure 6-1 Setting preferences

	Preferences	×
When Windows	Start playback Automatically play the last played solution	
Show/Hide Play	Ctrl + H v	
	K AK	

#### 6.3.1 Starting Playback

Select Start playback and the software will automatically play the last played solution when Windows starts.

#### 6.3.2 Setting Shortcut of Showing and Hiding Playback Window

Select a letter from the drop-down list. The selected letter and Ctrl constitute the shortcut of showing and hiding the playback window.

# 6.4 Viewing User Manual

Choose 🖾 > User Manual to view the user manual of this software. You can also click User Manual on the left menu on the startup page in studio mode.

# 6.5 Checking for Updates

Choose Check for Updates. In the displayed dialog box, check whether a software update is available. If there is an update available, click **Download** to start the online update.



# 6.6 Submitting Feedback

You can also click Feedback on the left menu on the startup page in studio mode, as shown in Figure 6-2.

Figure 6-2 Menu on the startup page



6.7 Viewing Software Information

Choose Solution School Solution Choose Solution School Solution School Solution School Solution School Solution School School Solution School School

# 7 FAQs

# 7.1 How to set the inbound firewall rules?

- Step 1 Click on the Windows Start menu.
- Step 2 Choose Update & Security.
- Step 3 Choose Windows Security.
- Step 4 Click Open Windows Defender Security Center.
- Step 5 Click Firewall & network protection.
- Step 6 Click Advanced Settings and then click Yes to open the Windows Defender Firewall with Advanced Security dialog box.

# Figure 7-1 Advanced settings

Windows D	lefender Security Center
=	<sup>(ر</sup> ا <sup>)</sup> Firewall & network protection
ሰ	View network connections, specify Windows Defender Firewall settings, and troubleshoot network and Internet problems.
0	
8	ឆេ Domain network Firewall is on.
	Pa Driveto naturale
<b>_</b>	Firewall is on.
8	Public petwork (active)
<i>\$</i> \$	Firewall is on.
	Allow an app through firewall
	Network and Internet troubleshooter
	Firewall notification settings
<ul> <li>(3)</li> </ul>	Advanced settings
	Restore firewalls to default

Step 7 Click Inbound Rules.

#### Figure 7-2 Inbound rules

Windows Defender Firewall with	Inbound Rules								Actions		
Inbound Rules	Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote ^	Inbound Rules	
Outbound Kules	360wpsrv		Public	Yes	Allow	No	C\Usersi_	Any	Any	171 New Bule	
Connection Security Rules	360wpsrv		Public	Yes	Allow	No	C\Users\	Any	Any		
monitoring	🜍 adb		All	Ves	Allow	No	C\Progr	Any	Any	Y Filter by Profile	
	AndroidEmulator		All	Yes	Allow	No	C\Progr	Any	Any	Filter by State	
	AppMarket		All	Yes	Allow	No	C\Progr	Any	Any	Y Filter by Group	
	Ø bugreport		All	Yes	Allow	No	C:\Progr	Any	Anv	View	
	C bugreport		All	Yes	Allow	No	C\Progr	Any	Any	TIEW	
	ComputerZTray		Public	Yes	Allow	No	C:\Progr	Any	Any	(G) Refresh	
	ComputerZTray		Public	Ves	Allow	No	C:\Progr	Any	Any	Beport List	
	GameDownload		All	Yes	Allow	No	C:\Progr	Any	Any	Help	
	I QIYI Video Helper		All	Ves	Allow	No	C:\Progr	Any	Any		
	CLCTServer V4.1.45		Public	Ves	Allow	No	C\progr	Any	Any		
	CLCTServer V4.1.45		Public	Yes	Allow	No	C:\progr	Any	Any		
	🕲 maLauncher		Public	Yes	Allow	No	C:\Progr	Any	Any		
	O maLauncher		All	Yes	Allow	No	C:\Progr	Any	Any		
	Ø malauncher Ø marsserverprovider Ø marsserverprovider		Public	Yes	Allow	No	C:\Progr	Any	Any		
			Public	Yes	Allow	No	C:\progr	Any	Any		
			Public	Ves	Allow	No	C:\progr	Any	Any		
	O marsserverprovider.exe		Public	Ves	Allow	No	C:\users\	Any	Any		
	marsserverprovider.exe		Public	Ves	Allow	No	C:\users\	Any	Any		
	🕑 maUpdat		Public	Yes	Allow	No	C:\Progr	Any	Any		
	🕑 maUpdat		Public	Yes	Allow	No	C:\Progr	Any	Any		
	🕑 maUpdat		All	Yes	Allow	No	C:\Progr	Any	Any		
	McAfee Management Service Host (x64)		All	Yes	Allow	No	C:\Progr	Any	Any		
	McAfee Management Service Host (x86)		All	Yes	Allow	No	C:\Progr	Any	Any		
	Microsoft Lync		Public	Yes	Allow	No	C:\Progr	Any	Any		
	Microsoft Lync		Public	Yes	Allow	No	C:\Progr	Any	Any		
	Microsoft Lync UcMapi		Public	Yes	Allow	No	C:\Progr	Any	Any	1	
	Microsoft Lync UcMapi		Public	Yes	Allow	No	C:\Progr	Any	Any	1	
	R Mirmonth Office Outlant		Deshilion	Var	Allena	Mo	C-1 Denne	Amir	A	1	

Step 8 On the right of the page, click New Rule to open the New Inbound Rule Wizard dialog box.

Step 9 Select **Program** and click **Next**.

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Figure 7-3 Rule ty	ре
💣 New Inbound Rule Wiza	rd ×
RuleType	
Select the type of firewa	ll rule to create.
Steps:	
a Rule Type	What type of rule would you like to create?
Program	
Action	Program     Rule that controls connections for a program.
a Profile	O Port
🧉 Name	Rule that controls connections for a TCP or VDP port.
	O Predefined:
	AllJoyn Router 🗸
	Rule that controls connections for a Windows experience.
	○ Custom
	Lustom rule.
	< Back Next > Cancel
Click Browso	Next Proto ave from the local PC, and then click Next
Click <b>Diowse</b> , se	
Figure 7-4 Progra	m selection
New Inhound Rule Wiza	rd X
Program	
Specify the full program	pain and executable name of the program that this full matches.
Steps:	
Rule Type	Does this rule apply to all programs or a specific program?
Program	
Action	Rule applies to all connections on the computer that match other rule
Profile	
Name	This program path:
	WProgramFilesW (x86)\Nova Star\VPlayer\Bin\Proto.exe Browse
	Axumpie. 0. (path/program.exe %ProgramFiles%/browser/browser.exe

- Step 11 Select Allow the connection and click Next.
- Step 12 Select Domain, Private, and Public and click Next.
- Step 13 Enter a name and click Finish.

## 7.2 What video formats are supported in studio mode?

The following video formats are supported in studio mode:

\*.3g2, \*.3gp, \*.3gp2, \*.3gpp, \*.amv, \*.asf, \*.avi, \*.bik, \*.bin, \*.divx, \*.drc, \*.dv, \*.f4v, \*.flv, \*.gvi, \*.gxf, \*.iso, \*.m1v, \*.m2v, \*.m2t, \*.m2ts, \*.m4v, \*.mkv, \*.mov, \*.mp2, \*.mp4, \*.mp4v, \*.mpe, \*.mpeg, \*.mpeg1, \*.mpeg2, \*.mpeg4, \*.mpg, \*.mpv2, \*.mts, \*.mxf, \*.mxg, \*.nsv, \*.nuv, \*.ogg, \*.ogm, \*.ogv, \*.ps, \*.rec, \*.rm, \*.rmvb, \*.rpl, \*.thp, \*.tod, \*.ts, \*.tts, \*.txd, \*.vob, \*.vro, \*.webm, \*.wm, \*.wmv, \*.wtv, \*.xesc

< Back

Next >

Cancel

Step 10



AVI only supports the following video coding formats: MPEG-2, MPEG-4, MPEG-4 ASP, H.264, DivX 4/5/6, XviD, SV1, 3ivX D4, H.264/MPEG-4 AVCMKV, AMR, WebM, WMV, MP3. For instance, AVI videos in DX50 and MP4V formats cannot be played.

When a video format is not supported, you are advised to convert the video to MP4 format with a professional video format conversion software.

# 7.3 Limitations on Cut-to-Display Windows for Regular Screens

Table 7-1 Limitations on the playback of cut-to-display windows

Playback Window Size	Maximum width	3840 px		
(Solution Resolution)	Maximum height	2160 px		
Number of Parts	<ul> <li>Cut horizontally: Actual screen width/Playback window width ≤8</li> </ul>			
	<ul> <li>Cut vertically: Actual screen height/Playback window height ≤8</li> </ul>			

# 7.4 Limitations on Playback Parameters for Ultra-long Screens

Playback Window Size	Maximum width	3840 px		
	Maximum height	2160 px		
Number of Parts	Up to 8 parts			
Scrolling Text	Maximum font size	256px		
	Maximum number of characters	2000		
Number of Videos (Resolution x Number)	Number of videos that can be played simultaneously: (Choose one from the following 4 options) • 4K x 1 • 1080P x 2 • 720P x 4 • (480x50) x 6			
Other Media	None			

Table 7-2 Media playback test values



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