

ViPlex Express

Display Content Publishing Management System for PC V2.8.0



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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

Table 2-1 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



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)

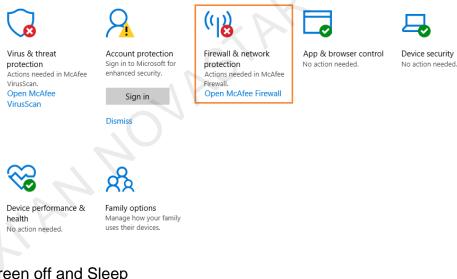


We'll show a reminder when we're going to restart. If you want to see more notifications about restarting, turn this on.

2.3.2 Firewall

- Step 1 Click Ster 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
Sleep
On battery power, PC goes to sleep after
Never \checkmark
When plugged in, PC goes to sleep after

2.3.4 Scaling Size and Multiple Displays

ట్టి on the Windows Start menu. Click Step 1

Never

- Step 2 Choose System.
- 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 multiple displays

Scale and layout
Change the size of text, apps, and other items
100% (Recommended)
Advanced scaling settings
Resolution
1920 × 1080 (Recommended) ~
Orientation
Landscape ~
Multiple displays
Multiple displays
Duplicate these displays V

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.



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Choose when to	be notified about changes to your computer		
	helps prevent potentially harmful programs from making changes to ser Account Control settings	o your computer.	
Always notify			
- -	Never notify me when:		
	 Apps try to install software or make changes to my computer 		
	I make changes to Windows settings		
 _	1 Not recommended.		
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

Local Group Policy Editor					- U X
File Action View Help					
🔶 🏟 💋 📰 🔒 🛛 📰 🛛 🍸					
Push To Install	C Real-time Protection				
> Remote Desktop Services RSS Feeds	Turn on process scanning whenever	Setting	State	Comment	
Search	real-time protection is enabled	Turn off real-time protection	Not configured	No	
Security Center	Edit policy setting	E Turn on behavior monitoring	Not configured	No	
Shutdown Options	con poncy 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, Windows 8 or Windows RT	Turn on raw volume write notifications	Not configured	No	
Sound Recorder	Windows o or Windows KT	🛞 Turn on process scanning whenever real-time protection is	Disabled	No	
Speech	Description:	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 real-time protection is turned on.	E Configure local setting override for scanning all downloade	Not configured	No	
Task Scheduler	This helps to catch malware which	Configure local setting override for monitoring file and prog	Not configured	No	
Text Input	could start when real-time protection	Configure local setting override to turn on real-time protecti		No	
Windows Calendar	is turned off.	E Configure local setting override for monitoring for incomin	Not configured	No	
Windows Color System	If you enable or do not configure	Configure monitoring for incoming and outgoing file and p	Not configured	No	
Windows Customer Experience Impre	this setting, a process scan will be				
V Windows Defender Antivirus	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					
Carl Reporting					
Signature Updates					
Threats					
> Windows Defender Exploit Guard					
Windows Defender Application Guan					
> 🧾 Windows Defender Exploit Guard 🗸					
< >>	Extended Standard				
13 setting(s)					

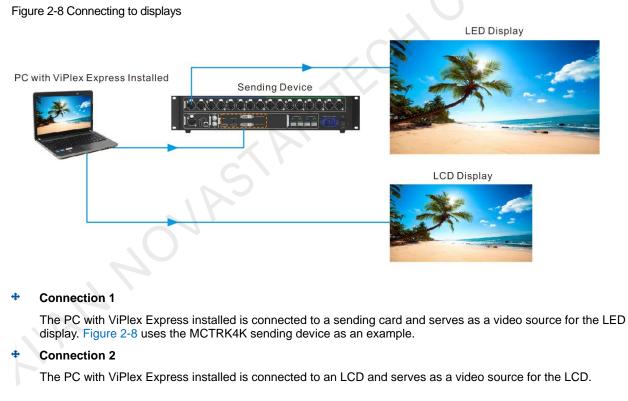
2.3.7 Superfetch

- 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.



Help						0
🔒 🛛 📷 🕨 🗰 🗛 🕨						
Services (Local)						
Superfetch	Name	Description	Status	Startup Type	Log On As	
	Server	Supports file, print, and named-pipe sharin	Running	Automatic (Trigger Start)	Local System	
Start the service	Shared PC Account Manager	Manages profiles and accounts on a Share		Disabled	Local System	
	Shell Hardware Detection	Provides notifications for AutoPlay hardwa	Running	Automatic	Local System	
Description:	Smart Card	Manages access to smart cards read by thi	-	Manual (Trigger Start)	Local Service	
Maintains and improves system	Smart Card Device Enumeration Service	Creates software device nodes for all smart		Manual (Trigger Start)	Local System	
performance over time.	Smart Card Removal Policy	Allows the system to be configured to lock		Manual	Local System	
	SNMP Trap	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	
	TCP/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	-	х
Please select your playback scenario			
Studio Mode Play content on a computer	Async Mode Play content on multimedia players		
	Open	ancel	

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.

Figure 2-10 Startup page of studio mode

ViPlex Express Studio Mode Solutions	Solution + • New Solution			¢; _ ×
User Manual	Name	Resolution	File Size	Last Modified 💠
Cloud Platform	⊑i NewSolution20200701140014	4000×256	ОВ	2020/7/1 14:00:14
Feedback	NewSolution20200701140002	512×512	ЗКВ	2020/7/1 14:00:11

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 Settings						
Window Size	Same as	desktop				
	x 0		Y	0		
	W 40	D 🔶	н	512		
Stay on Top	○ Always	O Never	0	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.

Figure 2-12 Solution information

	Solution Information	×
Solution Name	NewSolution20200701140014	
Resolution	Width 4000 px \clubsuit Height 256 px \clubsuit	
Direction	Horizontal Vertical	
		P
Number of Parts	2	
	ОК	Cancel

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

0 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 Ito refresh the preview window.

2.7 Playing Solutions

page, click

- 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





- Click the button to stop playback and display the solution editing page.
- Click the button to expand the solution editing page.
- Click the button to 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			¢	5
Solutions					1 A A
User Manual	Name	Resolution	File Size	Last Modified 🏼 🌩	
Cloud Platform	🗟 NewSolution20200701140014	4000×256	ОВ	2020/7/1 14:00:14	
Feedback	NewSolution20200701140002	512×512	ЗКВ	2020/7/1 14:00:11	

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 H 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.



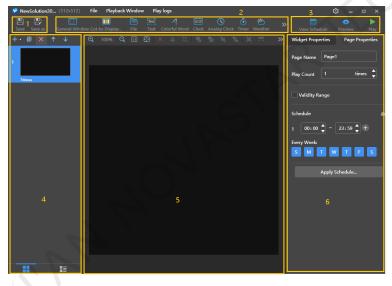
Figure 3-2 Playback window settings

✓ NewSolution20 (512x512)	File Playback Window Play logs	© _ □ ×
Save Save as General Window	Cut-to-Display File Text Colorful Word Clock Analog Clock Timer Weather	View Schedule Preview Play
+• ■ × ↑ ↓ 0		Widget Properties Page Properties
1 Itimes		Page Name Page1 Play Count 1 times 🔷
	Playback Window Settings ×	Validity Range
	Window Size 🗌 Same as desktop	Schedule
	x • • • • •	1 00:00 🗘 ~ 23:59 🗘 🕀
	W 512 H 512 C Stay on Top Always Never O While pla	Every Week:
		Apply Schedule
	OK Cancel	

 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.

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	
	corresponding type of media.	Eile	Text: Text	
		: Colorful text	EIII: Digital clock	
		C : Analog clock	: Timer	

Table 3-1 Description of the solution editing page



No.	Function	Description		
		ک: Weather	RSS : RSS	
		: 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 Page Template dialog box	
	pages. Pages are played in order from	Е: Сору	E Delete	
	top to bottom.	: Move up	: Move down	
		(Only the thumbnail view pages are displayed.)	E 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	E Zoom editing area in	E: Zoom editing area out	
		EShow the editing area in the original size	Automatically fit the editing area according to the software interface	
		: Delete selected media	🗯 : Clear all media	
		Crop image	Ering forward	
	S	E: Send backward	E Bring to front	
		E: Send to back	E: Fill the entire screen	
	0	E: Fit the screen horizontally	Fit the screen vertically	
	7,	E Align top	ter: Center vertically	
		LE: Align bottom	E: Align left	
1.1		E: Center horizontally	E: Align right	
6	Editing media on pages		ets are the media added to a page. t types of media vary. Click a widget	
		 Page Properties: Set the playback schedule of a page 	name, play count, validity range and age.	
		 Play Count: Set the number of times to play a page continuously. 		
		Date and End Date	this option is selected, the Start parameters are displayed. Expired d during solution playback.	
		page and select the	u to specify the timeslots to play a days to repeat the playback. If the pages overlap, the pages will be top to bottom.	
		 Apply Schedule: Allo 	ows you to apply the schedule of the	



No.	Function	Description
		current page to other pages. You can select multiple pages and apply a schedule to them at the same time.

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

to view the schedule of each page in the solution.

Step 4 (Optional) At the upper right of the page, click See 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.

Ultra-wide screen (9000×128)

- 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: 128×3=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

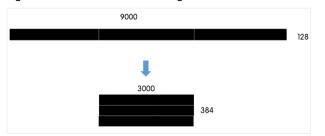
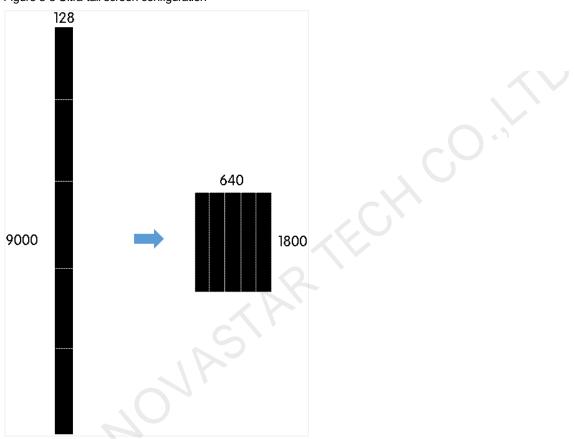


Figure 3-5 Ultra-tall screen configuration



• 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.

Figure 3-6 Ultra-wide screen connection

• 3	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
	Rec <mark>S ing</mark>	Receiving	Receiving	Receiving	Receiving	Rectoring
	Card:1	Card:2	Card:3	Card:4	Card:5	Card:6
2	Card:1	Card:2	Card:3	Card:4	Card:5	Card:6
	Width:512	Width:512	Width:512	Width:512	Width:512	Width:440
2	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Port:2	Port:2	Port:2	Port:2	Port:2	Port:2
	RecSting	Deceiving	Receiving	Description	Receiving	Ros Ving
	Card:1	Card:2	Card:3	Card:4	Card:5	Card:6
	Width:512	Width:512	Width:512	Width:512	Width:512	Width:440
1	Sending Card:1 Port:1 Rec <mark>S ing-></mark>	Sending Card:1 Port:1	Sending Card:1 Port:1 Receiving	Sending Card:1 Port:1 Receiving	Sending Card:1 Port:1 Receiving	Sending Card:1 Port:1 Red Dying
	1	2	3	4	5	6

	1	2	3	4	5
1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Port:1	Port:1	Port:2	Port:2	Port:3
	Rec <mark>S</mark> ving	Receiving	Rec <mark>S</mark> ying	Receiving	Rec <mark>S</mark> ving
	Card:1	Card:5	Card:1	Card:5	Cald:1
	Width:128	Wijdt:128	Widt 128	Wint:128	Widt <mark>:</mark> 128
2	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Polt:1	Port1	Polt:2	Polt:2	Polt:3
	Receiving	Receiving	Receiving	Receiving	Receiving
	Card:2	Card:6	Card:2	Card:6	Card:2
	Width:128	Widt=128	Widt 128	Widt:128	Widt 128
3	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sendin¢ Card:1
	Polt:1	Port:1	Polt:2	Polt:2	Polt:3
	Receiving	Receiving	Receiving	Receiving	Receiving
	Card:3	Card:7	Card:3	Card:7	Card:3
	Width:128	Widte:128	Widt:123	Widt 128	Widt¥:128
▶ 4	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1	Sending Card:1
	Polt1	Port:1	Polt2	Polt:2	Polt:3
	Receiving	Red Ving	Receiving	Red Ving	Red Ving
	Card:4	Card:8	Card:4	Card:8	Card:4
	Width:128	Width:128	Width:128	Width:128	Width:128

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 <mark>S ing -></mark>	Sending Card:1 Port:1 Receiving	Sending Card:1 Port:1 Receiving	Sending Card:1 Port:1 Receiving	Sending Card:1 Port:1 Red Dring
			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 RecSting	Sending Card:1 Port:2 Description	Sending Card:1 Port:2 Description	Sending Card:1 Port:2 Descriving	Sending Card:1 Port:2 Receiving	Sending Card:1 Port:2 Roal ying
	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
	3	Sending Card:1 Port:3 Rec <mark>S ing-></mark>	Sending Card:1 Port:3	Sending Card:1 Port:3 Receiving	Sending Card:1 Port:3 Deceiving	Sending Card:1 Port:3 Rec Dying	
ľ	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	x
Solution Name	NewSolution20200703152943	
Resolution	Width 3000 px 🔷 Height 384 px 🔷	
Direction	Horizontal Vertical	
Number of Parts		
	OK Car	ncel

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

Solution Name Resolution	NewSolution20200703152943 Width 640 px Height	
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.



0	01 0	
NewSolution20 (3100.384 P Save Save as General Win		🗘 🗕 🕫 🗙 Marine Schedule Pravlew Phys
+ = × ↑ ↓		Widget Properties Page Properties
1		Page Name Page1
Itanes		Play Count 1 times 🖨
		Validity Range
		Scheedule A
		1 00:00 ℃ ~ 23:59 ℃ ⊕
		Every Week
		Apply Schedule
	volution adition is done, alial: Cove	
After the	solution editing is done, click Save .	
(a		
(Optional)	At the upper right of the page, click is to view the schedule of ea	ch page in the solution.

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

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

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

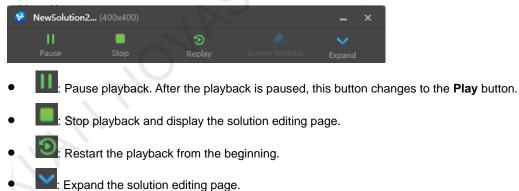
3.2 Playing Solutions

Step 4

Step 5

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

Figure 3-13 Playback control bar

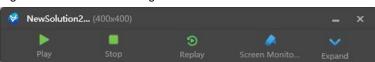


- Collapse the solution editing page.

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 Wi	ndow Settings		×
Window Size	Same as des	sktop		
	x 51	Y	0	
	W 512	🗘 н	512	
Stay on Top	Always	Never	🔵 While pl	aying
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.

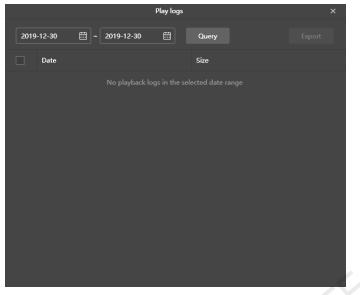
The default shortcut of showing and hiding playback window is **Ctrl+H**. You can change it in 🖾 > **Preferences**.

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



Step 2 Set the date range and click Query.

Querying play logs of the current day is not supported.

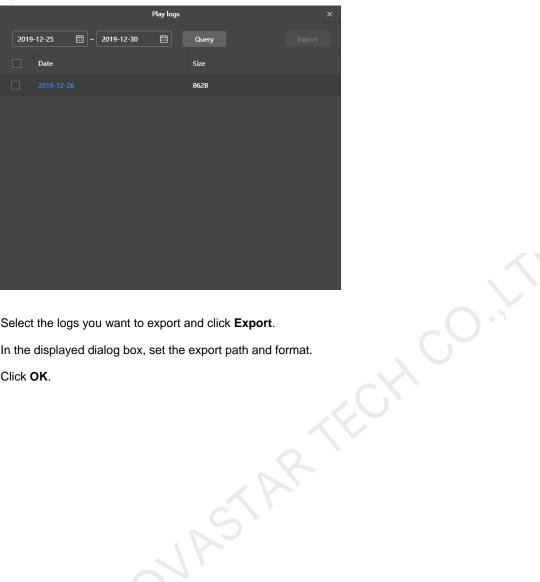
- Step 3 In the displayed query result list, click the date to view the general information and details of the play logs.
- Step 4 (Optional) Click **Back** to go back to the query result list.

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



- 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.

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 Source > Working Mode > Async Mode to switch to the async mode.

6.3 Setting Preferences

Choose Choose > 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	

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

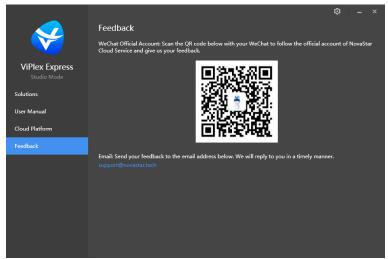
Select a letter from the drop-down list. The selected letter and Ctrl constitute the shortcut of showing and hiding the playback window.

6.4 Viewing User Manual

Choose Solution > 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, as shown in Figure 6-2.



Figure 6-2 Menu on the startup page

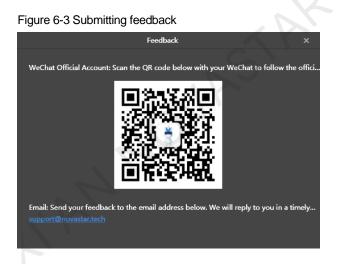


6.5 Checking for Updates

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

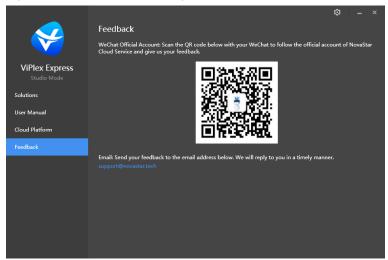
Choose **Feedback**. In the displayed dialog box, scan the QR code with your WeChat to follow the official account and submit feedback, or send the feedback to the service email address.



You can also click Feedback on the left menu on the startup page in studio mode, as shown in Figure 6-4.



Figure 6-4 Menu on the startup page



6.7 Viewing Software Information

Choose Solution School School

www.novastar.tech

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 I	Defender Security Center — 🗆 🗙
=	(I) Firewall & network protection
ណ	View network connections, specify Windows Defender Firewall settings, and troubleshoot network and Internet problems.
\bigcirc	
8	🖫 Domain network
ab	Firewall is on.
	9 Private network
므	Firewall is on.
~	
ቋኔ	Public network (active) Firewall is on.
	Allow an app through firewall
	Network and Internet troubleshooter
	Firewall notification settings
());	Advanced settings
~	Restore firewalls to default

Step 7 Click Inbound Rules.

Figure 7-2 Inbound rules

2 🔟 🗟 🔟											
ows Defender Firewall with	Inbound Rates							Actions			
bound Rules	Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote ^	Inbound Rules	
utbound Rules onnection Security Rules	360wpsrv		Public	Ves	Allow	No	C\Users\	Any	Any	New Rule	
onitoring	360wpsrv		Public	Ves	Allow	No	C:\Users\	Any	Any		
unituring	🜍 adb		All	Ves	Allow	No	C:\Progr		Any	Filter by Profile	
	C AndroidEmulator		All	Ves	Allow	No	C:\Progr	Any	Any	Tilter by State	
	AppMarket		All	Ves	Allow	No	C:\Progr	Any	Any	Y Filter by Group	
	Ø bugreport		All	Yes	Allow	No	C:\Progr	Any	Any	View	
	O bugreport		Alt	Ves	Allow	No	C:\Progr	Any	Any		
	ComputerZTray		Public	Yes	Allow	No	C:\Progr	Any	Any	(G) Refresh	
	ComputerZTray		Public	Ves	Allow	No	C:\Progr	Any	Any	Export List	
	GameDownload		All	Ves	Allow	No	C:\Progr	Any	Any	Help	
	G IGIYI Video Helper		All	Ves	Allow	No	C:\Progr	Any	Any	and the second s	
	Q LCTServer 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		
	1 maLauncher		All	Yes	Allow	No	C:\Progr	Any	Any		
	1 maLauncher		Public	Ves	Allow	No	C:\Progr	Any	Any		
	C marsserverprovider		Public	Yes	Allow	No	C:\progr	Any	Any		
	O marsserverprovider		Public	Ves	Allow	No	C:\progr	Any	Any		
	O marsserverprovider.exe		Public	Ves	Allow	No	C:\users\	Any	Any		
	O marsserverprovider.exe		Public	Ves	Allow	No	C:\users\	Any	Any		
	O 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	Ves	Allow	No	C:\Progr	Any	Any		
	Microsoft Lync UcMapi		Public	Yes	Allow	No	C:\Progr	Any	Any		
>	R Mircoroft Office Outlands		Dublic	Var	Allena	Ne	CABroar	Amir	A		

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**.



ViPlex Express Display Content Publishing Management System for PC Studio Mode User Manual

Figure 7-3 Rule ty		
💣 New Inbound Rule Wizar	i X	
Rule Type		
Select the type of firewal	l rule to create.	
Steps:		
Rule Type	What type of rule would you like to create?	
Program		
Action	Program	
Profile	Rule that controls connections for a program.	
Name	O Port	
	Rule that controls connections for a TCP or UDP port.	
	O Predefined: AllJoyn Router Rule that controls connections for a Windows experience.	
	○ Custom	
	Custom rule.	
	< Back Next > Cancel	
	Lancel Cancel	
Click Browse , se	ect Proto.exe from the local PC, and then click Next .	
Click Browse , se	ect Proto.exe from the local PC, and then click Next .	
Figure 7-4 Program	n selection	
Figure 7-4 Program	n selection	
igure 7-4 Program	n selection	
Figure 7-4 Program	n selection	
Figure 7-4 Program	n selection	
Figure 7-4 Program Program Specify the full program 3 Steps:	n selection	
Figure 7-4 Program Program Specify the full program p Steps: Rule Type	n selection d ath and executable name of the program that this rule matches.	
Figure 7-4 Program Program Specify the full program p Steps: Rule Type Program	n selection d ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? O All programs	
Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action	n selection d ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program?	
Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule	
Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	n selection d ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? O All programs	
Figure 7-4 Program New Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: WrogramFiles% (x88) Waya Star/WPlayer/Bin/Proto.exe Example: c: (path/program.exe	
Figure 7-4 Program New Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: Wrogram Files% (x86)\Nova Star\VPlayer\Bin\Proto.exe Browse	
Figure 7-4 Program New Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: WrogramFiles% (x88) Waya Star/WPlayer/Bin/Proto.exe Example: c: (path/program.exe	
Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: WrogramFiles% (x88) Waya Star/WPlayer/Bin/Proto.exe Example: c: (path/program.exe	
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Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: WrogramFiles% (x88) Waya Star/WPlayer/Bin/Proto.exe Example: c: (path/program.exe	
Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: WrogramFiles% (x88) Waya Star/WPlayer/Bin/Proto.exe Example: c: (path/program.exe	
Figure 7-4 Program New Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: WrogramFiles% (x88) Waya Star/WPlayer/Bin/Proto.exe Example: c: (path/program.exe	
Figure 7-4 Program Wew Inbound Rule Wizer Program Specify the full program p Steps: Rule Type Program Action Profile	ath and executable name of the program that this rule matches. Does this rule apply to all programs or a specific program? All programs Rule applies to all connections on the computer that match other rule This program path: MirogramFiles% (x88) Mova Star/WFlayer/Bin/Proto.exe Example: c: (path/program.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

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	Cut horizontally: Actual screen width/Playback window width ≤8			
	 Cut vertically: Actual screen height/Playback window height ≤8 			

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 • (480×50) x 6				
Other Media	None				

Table 7-2 Media playback test values



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