

ViPlex Express

LAN-Based Screen Management Software

V1.9.2 NS120100914



Change History

Version	Release Date	Description
V1.9.2	2020-01-17	Fixed 1 problem: The online update function and user manual are missing.
V1.9.1	2020-01-10	 Improved 1 function: Made improvements to the interaction of changing resolution on video source page. Fixed 3 problems: There is a problem with the playback during batch importing and exporting of advanced solutions. An exception occurs to the text during pixel-to-pixel playback of advanced solutions. Time synchronization settings of some Taurus products are unavailable.
V1.9.0	2019-10-25	 Added 2 functions: Allows users to change the font sizes of the labels, values and units in environment monitoring media. Communications between ViPlex Express and the Taurus series multimedia players are encrypted.
		Improved 1 function: Videos with resolutions of higher than 1080p are automatically converted to 1080p videos. (T1-4G, T2-4G, TCB300)
		 Fixed 2 problems: Duration control is abnormal. After an exported solution is imported, the validity range of the page media in the solution is not the same as that displayed on the page properties tab page.
V1.8.3	2019-10-10	 Added 3 functions: Added Never expires for the end date in the properties of text media. Added top/bottom offset in the widget properties of text media. Added automatic layout in the widget properties of file media.

Version	Release Date	Description
		Text gets stuck during playback.
V1.8.0	2019-09-06	 Added 5 functions: Added border setting function for window media in solution management. Added cut-to-display media in solution management. Added a self-adaptive scaling function button in solution management. Added synchronous playback switch in time synchronization management and RF management. Added the function of downloading operation logs in terminal management. Improved 1 function: Cloud service binding method in server configuration Fixed 3 problems: ViPlex Express is not adaptive to the configuration list of the JT100. Audios in advanced solutions cannot be played. The underlines of text in some fonts are not
V1.7.0	2019-08-19	 continuous. Added 9 functions: Allows users to search for terminals in a specified IP address range. Added the mechanism for preventing brute-force login attacks in terminal management. Added weak password verification function in terminal management. Added the function of changing AP password in terminal management Added LED rotation playback function in playback management. Added webpage media in solution management. Added mobile network detection function in network configuration. Power control is adaptive for the TCB300. Improved 2 functions: The version is displayed in the top-left corner of the software. Language setting is in mutually sync with that of VPlayer. Fixed 3 problems: Failed to install VPlayer on 32-bit Windows.

Version	Release Date	Description		
		the progress is not 100%.		
		• Sometimes no terminals can be found after a PC switches between Wi-Fi network and wired network.		
V1.6.0	2019-06-24	Added 4 functions:		
		 Adaptive to terminal functions 		
		 Dual DNS for wired network 		
		Rotation playback		
		Custom templates		
		Fixed 1 problem:		
		When the colorful text is set to hollow and a large background picture is selected, the text turns black.		
V1.5.1	2019-05-31	Added 1 function:		
		Network detection configuration		
V1.5.0	2019-04-30	Added 6 functions:		
		Korean and French		
		Streaming media		
		 Online upgrade of terminals in ViPlex Express 		
		 Page template selection 		
		 Sensor management 		
		 Environment monitoring data synchronization 		
		Improved 5 functions:		
	. 2	 Changed temperature media to environment monitoring media. 		
6	Nr.	 Separated solution exporting and USB playback functions. 		
2		 Moved the DHCP service switch to the bottom left of the UI. 		
		Made improvements to color setting control.		
		 Made improvements to the setting method of font size. 		
		Fixed 1 problem:		
		A wrong prompt message appears during the installation of ViPlex Express When the version of the PC operating system does not meet the requirements.		
V1.4.0	2019-03-15	Added 2 functions:		
		 Allows to preview solution page. 		
		 Supports online upgrade of terminals. 		
		Improved 3 functions:		
		 The functions of adding Office files, images, videos and GIF are merged into one function of adding files. 		
		The Excel table can display all the columns during solution editing and the table will be generated again		

Version	Release Date	Description
		right at the first second after the table height is adjusted.
		 Local upgrade of terminals
		Fixed 3 problems:
		 An error is reported occasionally while adding or clicking media.
		 Text in some fonts cannot be aligned.
		 The duration of a solution with audio cannot be changed after the duration is set to 0.
V1.3.8	2019-01-11	Added 5 functions:
		 Supports VPlayer installation, upgrade, searching, connection and solution publishing.
		 Allows to add background audio for text, images and windows.
		 Supports manual and scheduled power control.
		 Supports RF management.
		 Supports time, brightness and volume synchronization between master and slave devices in an RF network.
		Fixed 2 problems:
	~	 When a terminal is connected via AP, solution publishing may fail if the solution is greater than 1 GB.
	JAS	• When the repeating methods set for multiple rules of smart brightness adjustment are different, the repeating methods that the software read back are the same.
V1.3.7	2019-01-08	Added 1 function:
		Support for TB4
		Improved 3 functions:
		Changed some button icons.
•		• Set "admin" as the fixed user name for logging in to
		terminals.
		terminals.Allows to choose or customize the resolution of
		terminals.Allows to choose or customize the resolution of internal video source.
V1.3.6	2018-09-28	 terminals. Allows to choose or customize the resolution of internal video source. Fixed 1 problem: When you publish a solution containing videos on the editing page, the Publish solution dialog box disappears and the software cannot be operated after
V1.3.6	2018-09-28	 terminals. Allows to choose or customize the resolution of internal video source. Fixed 1 problem: When you publish a solution containing videos on the editing page, the Publish solution dialog box disappears and the software cannot be operated after you click Publish.

Version	Release Date	Description
		Allows to clear the media on pages.
		 Allows to set the display style of weather and the unit symbol of temperature.
		 Allows to set valid dates for smart brightness and added three repeating methods.
		 Improved the function of creating solutions, including generating default solution name, setting resolution via specific terminals and remembering the resolution which will be used as the default value for the solution to be created next time.
		 Improved the function of turning on DHCP service. The IP address of PC is required.
V1.3.5	2018-08-17	Allows the installation status of an RF module to be detected.
		Fixed 2 problems:
		• A wrong page appears after users click Apply and then click Read back on the video source configuration page.
		• If other marks instead of dots are used as decimal symbols in the operating system of PC, ViPlex Express will still display dots on its user interface and the terminal will display a black screen.
V1.3.4	2018-07-20	 Allows to enter the editing page by clicking a solution name.
	S	 Improved the modes of editing and playing texts in solutions.
. (Jr	 Allows some of the property values to be remembered while editing solutions and after saving solutions.
1		 Allows solutions to be published on the solution editing page.
		• Allows the video formats that are not supported by terminals to be converted automatically while publishing and exporting solutions.
		 Allows information related to publishing tasks to be displayed while publishing solutions.
V1.3.3	2018-07-02	 Allows to set the time format and display style of a digital clock.
		 Allows to set the resolution of the internal video source.
		 Allows images to be cropped while editing solutions
		 Allows terminal MAC address to be displayed.
		 Allows to set Wi-Fi AP status.
V1.3.2	2018-06-08	Supports daylight saving time.
		Supports real-time media.

	Version	Release Date	Description
	V1.3.1	2018-06-04	 Supports external storage space checking.
			 Supports APN configuration.
			Fixed 4 problems:
			• The day of the week displayed on the digital clock is wrong.
			 The time is not centered on the digital clock when the hour, minute and second are displayed.
			 The city displayed on the weather widget is wrong.
			 The connection with DHCP server is not stable.
	V1.3.0	2018-05-08	 Added several types of media, including analog clock, Office file and RSS.
			 Added the function of zooming in or out the media page during solution editing.
			 Added the function of setting the line spacing of texts and connecting the tail to head of texts when the texts are scrolling.
			 Added the function of setting the content displayed on the digital clock.
			• Added the function of customizing the weather label.
			 Added the function of connecting to the Taurus with a specified IP address.
		~	 Added the function of enabling and disabling the DHCP service.
		S	 Added the function of binding a single or a batch of Taurus to VNNOX Lite.
	C	Jr.	 Improved the method of registering the Taurus on NovaiCare and supported batch operation.
			 Improved the upgrade speed.
1	V1.2.0	2018-01-24	 Added several types of media, including clock, weather and container.
			Added the function module of advanced solution.
			 In the Play Management module, added the function of viewing screenshots.
			 In the system settings, added the function of auto reconnection.
	V1.1.0	2017-11-22	 Added multiple function modules, including brightness adjustment, video source, screen status control, time synchronization management, color temperature, play log and font management.
			• Modified several function modules, including play management, restart configuration, monitor, network configuration and server configuration.
			 In the system settings, added the RF management and custom server functions.

Version	Release Date	Description
V1.0.0	2017-07-20	First release

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ViPlex Express is a LAN-based screen management software application which can automatically search for and connect to terminals, publish solutions, and control terminals.

Application Description

ViPlex Express supports Windows only and can manage multiple terminals such as Taurus and VPlayer.

- The Taurus series multimedia players are hardware products based on Android, which serve as the terminal players of the asynchronous system to load LED displays (such as the TB6) and LCDs (such as the TCB300). Different models support different functions of ViPlex Express.
- VPlayer is a software application for Windows and Linux, which serves as the terminal player on PC and supports the terminal management and terminal upgrade functions of ViPlex Express.

For the media types and terminal control functions supported by the Taurus and VPlayer, see 3 Media Types and 7.1 Function List.

Key Features

- Friendly user interface: UI design takes full account of users' habits.
- Ease of use: Capable of connecting to terminals via wireless network, providing an easy access to terminals.
- Synchronous playing: Capable of playing the same content on different screens synchronously.
- Dual Wi-Fi function: Capable of setting Wi-Fi AP mode and Wi-Fi Sta mode.
- 4G connection: Capable of setting mobile data network of the terminal with 4G module.
- Dual-mode (synchronous and asynchronous), which is capable of setting video output mode.
- Adaptive display, which is capable of displaying pictures automatically according to screen size.
- Terminal binding: Allows multiple terminals to be bound to VNNOX for unified management.



Before You Begin

- Install Framework 4.6.x.
- Install official Visual C++ 2017 runtime components.
- Get the installation package of ViPlex Express.

Where to Get

http://www.en.vnnox.com/#downloadT

Operating Procedure

Double click the installer and install ViPlex Express according to the setup wizard. During installation of ViPlex Express, VPlayer is automatically installed.



The media types supported by ViPlex Express and the types of media that can be played by Taurus and VPlayer are shown in Table 3-1.

	Media type	Taurus LED Players	Taurus LCD Players	VPlayer
	Text	\checkmark	1	\checkmark
	Image	\checkmark	1	\checkmark
	Video	\checkmark	\checkmark	\checkmark
	GIF	\checkmark	X	\checkmark
	Office file	\checkmark	\checkmark	\checkmark
	Digital clock	V	\checkmark	\checkmark
	Analog clock	\checkmark	\checkmark	\checkmark
	Environment monitoring media	Ś	\checkmark	
	Weather	\checkmark	\checkmark	\checkmark
	RSS	\checkmark	\checkmark	\checkmark
	Timer	\checkmark	\checkmark	\checkmark
L'A	Streaming media	\checkmark	\checkmark	\checkmark
	Webpage	\checkmark	\checkmark	\checkmark
	Colorful word	\checkmark	\checkmark	\checkmark
	Window	\checkmark	\checkmark	\checkmark
	Cut-to-display media	\checkmark		\checkmark



This chapter introduces how to create solutions and publish them to Taurus and VPlayer to play by using ViPlex Express and helps users to quickly get started with ViPlex Express.

4.1 Creating Solutions

4.1.1 Creating Common Solutions

Choose **Solutions** and perform the operations in 5.1 Creating Solutions.

4.1.2 Creating Advanced Solutions

Choose Advanced Solutions and perform the operations in 6.1 Creating Solutions.

4.2 Connecting to Terminals

Required Information

Please use the actual values of the information in Table 4-1.

Table 4-1	Required	information
-----------	----------	-------------

Category	Account Name	Default Password
Connecting to Taurus Wi-Fi AP	AP + <i>last 8 digits of SN</i> For example: AP10000033	12345678
Logging in to Taurus or VPlayer	admin	123456

Connecting to Terminals

ViPlex Express can be connected to multiple Taurus or VPlayer.

- Use any of the following methods to connect ViPlex Express to Taurus:
 - Wi-Fi AP of Taurus
 - Router
 - Ethernet cable

If PC and Taurus are connected via Ethernet cable, turn on DHCP service at the bottom left. Select an IP address and click **OK**. The Taurus is connected automatically. If the connection is not stable, please set a static IP address for the PC.

- To connect to VPlayer, make sure that VPlayer and ViPlex Express are installed on:
 - The same PC.
 - Different PCs on the same LAN.
 - PCs on different network segments which can be pinged successfully.

Logging in to Terminals

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

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

If terminals and ViPlex Express are not on the same network segment and can be pinged. Click next to **Refresh**, select **Specify IP** and enter an IP address or IP range to connect the terminals manually.

- Denotes that the terminal is online and you can log in to it. Go to Step 3.
- Denotes the terminal is offline and you cannot log in to it.
- Denotes logging into the terminal is successful.
- Step 3 Click **Connect** next to screen information.
- Step 4 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 terminal name. You are advised to change the password to a complex one to enhance security.

Right click the screen information, and the related operations are displayed:

- Log Out: Log out of the terminal.
- Rename: Rename the terminal.
- Change Password: Change the connection password of the Taurus Wi-Fi AP and the login password of the "admin" user.
- Forget Password: Delete the password saved during last login.
- Download Operation Log: Download the operation logs of asynchronous terminals.

4.3 Publishing Solutions

- Only solutions containing media can be published.
- Only one solution can be sent to a terminal each time.
- One solution can be sent to multiple terminals simultaneously.

After solutions are published, files related to the solutions will be downloaded to terminals.

Method to set file save path:

- Taurus: Not supported
- VPlayer: In the top right corner, click and choose **Settings** > **Download**.

4.3.1 Publishing Common Solutions

Choose **Solutions** and perform the operations in 5.7 Publishing Solutions.

4.3.2 Publishing Advanced Solutions

Choose Advanced Solutions and perform the operations in 5.7 Publishing Solutions.

4.4 Play Management

4.4.1 Taurus

Choose **Screen Control** > **Play management**. To perform the following operations, see 7.3 Play Management.

- Enable synchronous playing
- Adjust volume in real time
- Manage terminal solutions
- Set rotation playback

4.4.2 VPlayer

Setting Display Window

- Step 1 Open VPlayer.
- Step 2 Choose Display.

Figure 4-1 Display

🔅 Config 💽 Display						
Same as Desktop	Enable					
х	0	*	Y	0		
W	400	* *	Н	400		
Stay on Top	Always	Never		🔿 While playing	I	
				ОК	Reset	

Step 3 Set the position and size of the display window and select one of the options to keep the window on top.

If **Same as Desktop** is enabled, the size of the display window will be the same as the size of desktop.

Setting Hotkeys

Step 1 Open VPlayer.

- Step 2 In the top right corner, click and choose Settings.
- Step 3 Choose Hot Keys.
- Step 4 Set a hot key to show/hide the display window.

The default hotkey is Ctrl+H.

Step 5 Click OK.

4.5 Cleaning up Solutions

Users can delete all the files related to the solutions downloaded by terminals. If the solutions are being played, black screens will appear.

4.5.1 Taurus

- Step 1 Open ViPlex Express.
- Step 2 Choose Screen Control > Monitor.
- Step 3 Click Clear All Media.
- Step 4 Click OK.

4.5.2 VPlayer

Step 1 Open VPlayer.

Step 2 In the top right corner, click **and choose Settings**.

- Step 3 Choose **Download** to view the save path of solution files.
- Step 4 Delete the folder where solutions are saved.

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Solution Management

This chapter introduces how to create, edit, delete, import, export and publish solutions.

5.1 Creating Solutions

Get the screen size before creating solutions.

- Step 1 Click New.
- Step 2 Set the solution name and resolution, and then click OK.

Note:

- The resolution must be the same as that set on the terminal during screen configuration.
- You can set the resolution by clicking **Specify Terminal** and the resolution will be the same as that of the selected terminal.

The editing page of the solution appears, as shown in Figure 5-1. Each area of the page is explained in Table 5-1.

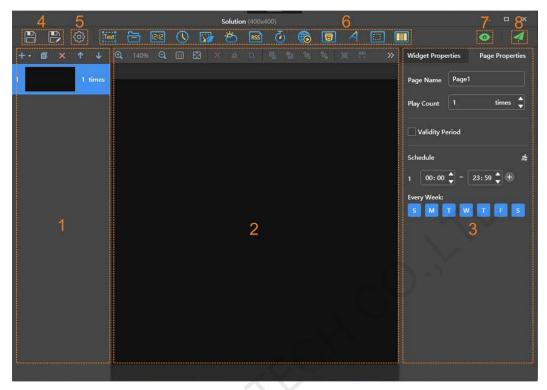


Figure 5-1 Editing page of a solution

Table 5-1 Description of the editing page of a solution

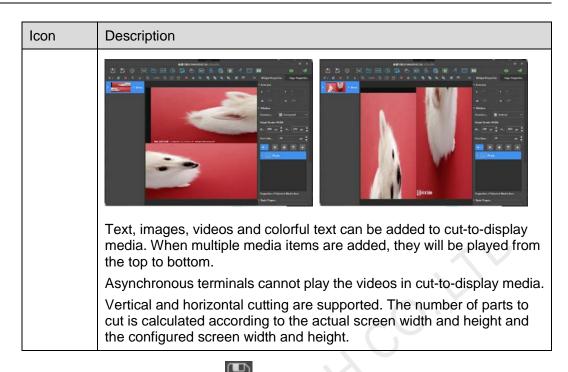
	No.	Name	Description
	1	Editing area of solution page	Create, copy and delete pages, and adjust the order of pages.
			Two methods to create a page:
		0.	 Click I to directly create a blank page.
	1		• Click to create a page by selecting a template.
7			Templates include custom templates and system template. Users can add, change and delete custom templates.
r			Pages are played according to the order from the top to bottom.
	2	Editing area of page media	Delete media, clear media, zoom in or out pages, crop images and adjust media layout.
			Before operation, click to select a media.
	3	Property editing area	Edit widget properties and page properties.
			Widgets are the media added in pages. Before editing the widget properties, click to select a widget.
			In the page properties, you can set the playback schedule of a page. If the schedule of the page overlaps with the schedules of other pages, these pages will be played according to the page order

No.	Name	Description
		from the top to the bottom. This function is available for Taurus but not available for VPlayer.
4	Buttons for saving	Save solution or save as a new solution.
5	Setting button	Set solution name and resolution.
6	Buttons for adding media	Add media to a solution page.
7	Preview button	Preview current solution page. The (stop preview) and (refresh) buttons are displayed after clicking . If VPlayer is not in use, the current page will be played. If VPlayer is in use, the previous solution will be stopped and the current page will be played. The previous solution will be played after the preview stops. To switch from the current page to another page for preview, select the target page and click .
8	Button for publishing solutions	Publish solutions to terminals.

Media types supported by ViPlex Express are shown in Table 5-2.

ĺ		
	lcon	Description
	Text	Text
		Supports background audio.
	10	Add Office files, images, videos and GIF. Allows users to add background audio for images.
		Supported image formats: JPEG, BMP, GIF, PNG, WEBP
A		Video formats supported by terminals: Supported formats: MPEG-1/2, MPEG-4, H.264/AVC, MVC, H.265/HEVC, Google VP8, H.263, VC-1, Motion JPEG
		If a video format is not supported by terminals, ViPlex Express will automatically convert the format while publishing and exporting solutions.
		When a Word document is added, the following display layouts are supported:
		 Automatic: The text in the Word document is played after the pages of the Word document are adjusted according to the width and height of the Word document media.
		 Original: The text in the Word document is played by keeping the original page size and fitting the width and height of the playback window.
		Keep margins: When Original is selected, Keep margins can be

Icon	Description
	selected to keep margins of the original Word document.
5::51	Digital clock
	Analog clock
	Environment monitoring media If a terminal is connected to sensors, the environment monitoring media will display the latest data measured by the sensors during solution playback.
Ö	Weather media
RSS	RSS
3	Timer Can be set as countdown or count up timer.
	Streaming media
T	Webpage
4	Colorful word
	Window All the above types of media can be added in a window. When multiple media are added, the media will be played from the top to the bottom. Supports background audio.
	 Cut-to-display media Choose Solutions in ViPlex Express. Select the target solution and click the solution name to enter the solution editing page. Click to add cut-to-display media. In Widget Properties on the right, set Actual Screen Width and Height. The software will cut and display the current media



- Step 3 After the solution is edited, click is to save.
- Step 4 (Optional) Publish the solution.



Select one or more terminals and click **Publish**.
 Note: ViPlex Express will automatically convert the video formats that are not supported by terminals.

5.2 Editing Solutions

In the solution list, perform any of the following operations to enter the solution editing page.

- Select a solution and click Edit.
- Click a solution name.

5.3 Deleting Solutions

In the solution list, select a solution and click **Delete**.

5.4 Importing Solutions

Step 1 Choose **More** > **Import**.

Step 2 In the pop-up dialog box, click it to select the file path.

Step 3 Click Next.

Step 4 When **Progress** shows 100%, click **Done**.

5.5 Exporting Solutions

Only the solutions that contain media can be exported.

- Step 1 Select one or more solutions and choose More > Export.
- Step 2 In the dialog box that appears, click to choose a destination for the solutions to be exported.
- Step 3 Click Export.

Note: ViPlex Express will automatically convert the formats of videos that are not supported by terminals while exporting solutions.

Step 4 After solutions are exported successfully, close the dialog box.

5.6 USB Playback

- Step 1 Click the corresponding of a solution, or select one or more solutions and click USB playback.
- Step 2 Select a playback method.
 - **Plug and play**: The solution will be played as soon as the USB drive where solutions are stored is inserted into the terminal. The USB drive cannot be removed during playback.
 - **Copy and play**: The terminal starts playing solutions after copying the solutions from the USB drive. The USB drive can be removed during playback.
- Step 3 Click to choose a destination for the solutions to be exported.
- Step 4 Enter the login password of the terminal.

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

- Step 5 Select a solution and click **OK**.
- Step 6 After solutions are exported successfully, click **Done**.

5.7 Publishing Solutions

- Only solutions containing media can be published.
- Only one solution can be sent to terminals each time.
- One solution can be sent to multiple terminals simultaneously.

On the solution editing page, click at the top right to publish solutions. On the solution list page, follow the steps below to publish solutions.

- Step 1 Select a solution and click **Publish**, or click **Markov** next to the solution information.
- Step 2 Click Refresh in the Publish solution dialog box to show the information of terminals which are logged in.
- Step 3 Select one or more terminals and click Publish.

Note: ViPlex Express will automatically convert the video formats that are not supported by terminals.

Step 4 After the solution is successfully published, click **Done**.

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An advanced solution is a solution added with a playback schedule. Users can create, edit, delete, import, export and publish advanced solutions.

6.1 Creating Solutions

Get the screen size before creating solutions.

- Step 1 Click New.
- Step 2 Name the advanced solution.
- Step 3 Click +
- Step 4 Select a common solution, and set the validity range, repeating method and playback duration.
- Step 5 Click Add.
- Step 6 Click Cancel.
- Step 7 (Optional) Click the box next to **Non-Scheduled Content** to select a solution and click **OK**.

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

Step 8 Click Add.

6.2 Editing Solutions

On the advanced solution list, perform any of the following operations to enter the solution editing page.

- Select a solution and click Edit.
- Click a solution name.

6.3 Deleting Solutions

In the advanced solution list, select a solution and click **Delete**.

6.4 Importing Solutions

Step 1 Click Import.

Step 2 In the pop-up dialog box, click **to** select the file path.

Step 3 Click Next.

Step 4 When **Progress** shows 100%, click **Done**.

6.5 Exporting Solutions

Only the solutions that contain media can be exported.

- Step 1 Select one or more solutions and click Export.
- Step 2 In the dialog box that appears, click to choose a destination for the solutions to be exported.
- Step 3 Click Export.
- Step 4 After solutions are exported successfully, close the dialog box.

6.6 USB Playback

Step 1 Click the corresponding of a solution, or select one or more solutions and click **USB playback**.

Step 2 Select a playback method.

- Plug and play: The solution will be played as soon as the USB drive where solutions are stored is inserted into the terminal. The USB drive cannot be removed during playback.
- **Copy and play**: The terminal starts playing solutions after copying the solutions from the USB drive. The USB drive can be removed during playback.
- Step 3 Click to choose a destination for the solutions to be exported.
- Step 4 Enter the login password of the terminal.

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

- Step 5 Select a solution and click **OK**.
- Step 6 After solutions are exported successfully, click Done.

6.7 Publishing Solutions

- Only solutions containing media can be published.
- Only one solution can be sent to terminals each time.
- One solution can be sent to multiple terminals simultaneously.
- Step 1 Select a solution in the advanced solution list and click **Publish**, or click **M** next to the solution information.
- Step 2 Click **Refresh** in the **Publish solution** dialog box to show the information of terminals which are logged in.
- Step 3 Select one or more terminals and click **Publish**.
- Step 4 When **Progress** shows 100%, click **Done**.

7 Screen Control

7.1 Function List

	Function	Sub-Function	Taurus LED Players	Taurus LCD Players	VPlayer
	Playback management	Enable synchronous playback	V	$\overline{\mathbf{A}}$	
		Adjust volume in real time	\checkmark	V	
		Manage terminal solutions	\checkmark	\checkmark	
		Set rotation playback	\checkmark	\checkmark	
	Brightness adjustment	- KAI	\checkmark		
	Video source	S			
	Screen status control	-	\checkmark		
	Time synchronization management	-	\checkmark	\checkmark	
	Restart configuration	-	\checkmark	\checkmark	
	Color temperature	-	\checkmark		
	Monitoring	-	\checkmark	√ (Available memory usage and CPU usage are not available.)	
	Play logs	Query play logs	\checkmark	\checkmark	
		Export play logs	\checkmark	\checkmark	

Function	Sub-Function	Taurus LED Players	Taurus LCD Players	VPlayer
Font	Add fonts	\checkmark	\checkmark	
management	Delete fonts	\checkmark	\checkmark	
Network configuration	Configure wired network	\checkmark	\checkmark	
	Configure Wi-Fi AP	\checkmark	\checkmark	
	Configure Wi-Fi Sta	\checkmark		
	Configure mobile network	\checkmark	\checkmark	
	Configure network detection	\checkmark	V	
Server configuration	Bind to VNNOX Standard/AD	N	N C	
	Bind to iCare	\checkmark		
Terminal	Online upgrade	\checkmark	\checkmark	\checkmark
upgrade	Local upgrade	\checkmark	\checkmark	\checkmark
Power control	Board power	\checkmark	\checkmark	
	Multifunction card power	\checkmark		
RF management	.5	\checkmark		
Sensors	-	\checkmark		
Terminal information	-	\checkmark	\checkmark	

7.2 General Function

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

7.3 Play Management

Manage the play mode, volume and content of terminals.

7.3.1 Enabling Synchronous Playing

Enabling or disabling the synchronous playing function will restart the terminal. Time synchronization management and RF management are also provided with synchronous playback switches.

Step 1 Select the target terminal in the terminal list.

Step 2 Select Enable next to Synchronous Playing.

Step 3 Click Confirm in the pop-up dialog box.

7.3.2 Adjusting Volume in Real Time

Drag the slider or enter a value to adjust volume. Volume can be adjusted only when the Taurus is in asynchronous mode.

When the information related to RF synchronization is displayed, as shown in Figure 7-1, it indicates that volume synchronization is enabled on the current terminal. See relevant operations in 7.17 RF Management. 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 RF signal.

Figure 7-1 RF synchronization-volume

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

7.3.3 Managing Terminal Solutions

- Viewing screenshot: Click View Screenshot to view the real-time screenshot of the solution which is being played on the terminal.
- Playing a solution: Move the mouse to the thumbnail of the solution and click
- 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**.

7.3.4 Setting Rotation Playback

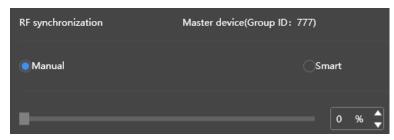
Select a rotation angle from the drop-down box next to **Rotation Playback**. The rotation angle is an absolute angle.

7.4 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 7-2, it indicates that brightness synchronization is enabled on the current terminal. See relevant operations in 7.17 RF Management. 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 RF signal.

Figure 7-2 RF synchronization-brightness



7.4.1 Manual Adjustment

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

7.4.2 Smart Adjustment

- Timing brightness adjustment: During the time period that you set to enable smart adjustment, the screen brightness will be the fixed value that you manually set.
- Auto brightness adjustment: During the time period that you set to enable auto adjustment, the screen brightness will be automatically adjusted according to the auto brightness adjustment table.

The auto brightness adjustment table divides the ambient brightness into several subsections and sets corresponding screen brightness to each subsection. The screen brightness will be automatically adjusted according to the ambient brightness subsection where the current ambient brightness belongs to.

- Step 1 Select the target terminal in the terminal list.
- Step 2 Choose Smart to enter the smart adjustment page.
- Step 3 Perform the following operations based on actual needs.
 - Creating a rule: Click . In the pop-up dialog box, choose **Timing** or **Auto**, and then set the corresponding brightness adjustment rules. At last, click **Add**.
 - Modifying a rule: Select a rule and click *I*. Then, modify the rule and click **OK**.
 - Deleting rules: Select one or more rules and click X. In the pop-up dialog box, click Confirm.
 - Clearing rules: Click 📠 and then click **Confirm** in the pop-up dialog box.
 - Enabling a rule: In the rule list, turn on the **Enable** switch next to a rule.
 - Viewing the current brightness: Click

Step 4 After configuration, click **Apply**.

7.5 Video Source

Control the video input mode, video source and output offset position.

7.5.1 Manual Switching

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

- Step 1 Select the target terminal in the terminal list.
- Step 2 Choose Manual and configure parameters.
- Step 3 Click Apply.

7.5.2 Scheduled Switching

Switch between the internal input source and HDMI input source at regular time.

- Step 1 Select the target terminal in the terminal list.
- Step 2 Choose **Timing**. Perform the following operations based on actual needs.
 - Creating a rule: Click **I**. 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**.
 - Modifying a rule: Select a rule and click **1**. Then, modify the time and cycle to use the video source. At last, click **OK**.
 - Deleting rules: Select one or more rules and click . In the pop-up dialog box, click **Confirm**.
 - Clearing rules: Click and then click **Confirm** in the pop-up dialog box.
 - Enabling a rule: In the rule list, turn on the **Sure to enable** switch next to a rule.
 - Parameter configuration: Set the position and size of the display window.

Step 3 After configuration, click **Apply**.

7.5.3 HDMI Preferred

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

- Step 1 Select the target terminal in the terminal list.
- Step 2 Choose HDMI preferred.
- Step 3 Set the position and size of the display window.
- Step 4 After configuration, click **Apply**.

7.6 Screen Status Control

Set the current playing status of the screen.

7.6.1 Manual Control

- Step 1 Select the target terminal in the terminal list.
- Step 2 Choose Manual to enter the manual settings page.
- Step 3 Click Blackout or Normal.

7.6.2 Timing Control

- Step 1 Select the target terminal in the terminal list.
- Step 2 Choose **Timing** to enter the timing settings page. Then, perform the following operations based on actual needs.
 - Creating a rule: Click **I**. In the pop-up dialog box, choose **Blackout** or **Normal**, and then set the playing time and cycle of the screen. At last, click **Add**.
 - Modifying a rule: Select a rule and click *I*. Then, modify the playing time and cycle of the screen. At last, click **OK**.
 - Deleting rules: Select one or more rules and click X. In the pop-up dialog box, click **Confirm**.
 - Clearing rules: Click and then click Confirm in the pop-up dialog box.
 - Enabling a rule: In the rule list, turn on the **Enable** switch next to a rule.

Step 3 After setting, click **Apply**.

7.7 Time Synchronization Management

Set rules for terminal time synchronization and enable or disable synchronous playback.

When the information related to RF synchronization is displayed, as shown in Figure 7-3, it indicates that RF time synchronization is enabled on the current terminal. See relevant operations in 7.17 RF Management. RF synchronization requires you to specify a master device and slave devices. Users only need to set the time synchronization rules for the master device. The slave devices will keep the same time as the master device via RF signal.

RF synchronization	Master device(Group ID: 777)		
Time zone	(UTC+08:00) Asia/Shanghai		
Date and time			
	✓ Auto sync time with NTP server		
NTP server	China		
		Apply	

Figure 7-3 RF synchronization-time synchronization

- Step 1 Select the target terminal in the terminal list.
- Step 2 View the current time zone and time.

If the current time zone observes daylight saving time and the current date is within the range of daylight saving time, **Daylight Saving Time** will be displayed, otherwise it will not be displayed. Step 3 Configure time synchronization rules.

- Manual time synchronization: Select a time zone from the drop-down box next to **Time zone**. The terminal will sync time according to the date and time of this time zone. Users are also allowed to adjust the current date and time as required.
- NTP time synchronization: Select **Auto sync time with NTP server** and then select an NTP server. The terminal will sync time according to the time of the NTP server. If the existing NTP servers cannot meet the requirements, click to customize a server.

Step 4 After setting, click Apply.

7.8 Restart Configuration

Restart terminals immediately and configure restart rules.

7.8.1 Restarting Immediately

- Step 1 Select the target terminal in the terminal list.
- Step 2 Click Restart promptly.
- Step 3 Click **Confirm** in the pop-up dialog box to restart the terminal immediately.

7.8.2 Scheduled Restart

- Step 1 Select the target terminal in the terminal list.
- Step 2 Perform the following operations based on actual needs.
 - Creating a rule: Click . Set the time and cycle to restart a terminal in the pop-up dialog box and then click **Add**.
 - Modifying a rule: Select a rule and click is to modify the time and cycle to restart a terminal and then click **OK**.
 - Deleting rules: Select one or more rules and click . Then click **Confirm** in the pop-up dialog box.
 - Clearing rules: Click and then click **Confirm** in the pop-up dialog box.
 - Enabling a rule: In the rule list, turn on the **Sure to enable** switch next to a rule.

Step 3 After setting, click Apply.

7.9 Color Temperature

Set the screen display's color temperature, including neutral white, standard white and cool white.

- Step 1 Select the target terminal in the terminal list.
- Step 2 Select a color temperature type.

7.10 Monitor

- Step 1 Select the target terminal in the terminal list.
- Step 2 Check the terminal hardware information listed below. If the terminal has an external storage device, you can also check the external storage information.
 - Disk size
 - Memory availability
 - CPU usage
 - Ambient brightness
- Step 3 If you want to clean up the hard disk, click **Clear All Media** to delete all the media and solutions.

7.11 Play Log

View and export play logs.

7.11.1 Quering Play Logs

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

7.11.2 Exporting Play Logs

- Step 1 Select the target terminal in the terminal list.
- Step 2 In the play log list, select the target play log.
- Step 3 Click Export.
- Step 4 In the pop-up dialog box, choose the export path and format.
- Step 5 Click OK.

7.12 Font Management

Manage the fonts used by the terminal.

7.12.1 Adding Fonts

- Step 1 Select the target terminal in the terminal list.
- Step 2 Click en next to Name to acquire local fonts on the PC.
- Step 3 Select the target font in the pop-up dialog box.
- Step 4 Click OK.

Step 5 Click **Update**. The update progress will be shown in the **Update result** column.

7.12.2 Deleting Fonts

- Step 1 Select the target terminal in the terminal list.
- Step 2 Click Read back at the bottom right to read back the fonts on the terminal.
- Step 3 Click the link in the **Font** column of the target terminal. The **Font list in terminal** page is displayed.
- Step 4 Select target fonts.
- Step 5 Click Delete.

7.13 Network Configuration

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

7.13.1 Configuring Wired Network

It is required to set static IP address for terminals while connecting terminals via Ethernet cable. Set IP address based on actual needs while connecting terminals to the Internet via Ethernet cable.

- Step 1 Select the target terminal in the terminal list.
- Step 2 In the **Wired network configuration** area, perform the following operations based on actual needs.
 - Select Enable next to Dynamic DHCP to get IP address automatically.
 - Deselect Enable next to Dynamic DHCP and configure static IP address.
- Step 3 Click Apply.

7.13.2 Configuring Wi-Fi AP

The default SSID of terminal Wi-Fi AP is "AP + *the last 8 digits of the SN*" and the default password is "**12345678**".

- Step 1 Select the target terminal in the terminal list.
- Step 2 In the Screen AP configuration area, turn on AP.
- Step 3 Enter the SSID and password of terminal Wi-Fi AP.
- Step 4 Click Apply.

7.13.3 Configuring Wi-Fi Sta

If the router is connected to the Internet, terminals can access Internet via the router after Wi-Fi Sta is configured.

Step 1 Select the target terminal in the terminal list.

Step 2 In the Wi-Fi configuration area, turn on Wi-Fi.

Step 3 Double click the Wi-Fi information of the router, enter password and then click OK.

7.13.4 Configuring Mobile Network

Terminals with 4G module can access Internet via mobile network. ViPlex Express automatically detects mobile network status and displays the detection result.

- Step 1 Insert 4G card into the slot.
- Step 2 Select the target terminal in the terminal list.
- Step 3 On the Mobile network configuration page, turn on Mobile network.
- Step 4 Click D to expand the APN configuration page.
- Step 5 Click Add.
- Step 6 Enter parameters according to the APN information provided by the carrier and then click **OK**.
- Step 7 Select the APN and click Connect.

7.13.5 Configuring Network Detection

Terminals 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 Select the target terminal in the terminal list.
- Step 2 In Network Detection, configure detection addresses.
 - Click to add an address.
 - Click I to modify an address.
 - Click K to delete an address.

Default configuration cannot be modified and deleted.

-	✓ Network Detection				
7	The player pings the addresses below to dete	ect the network.			
	1.2.3.4		🗸 Enable	ß	×
	www.baidu.com		🗸 Enable		
	Cloud Platform		✓ Enable		
	+ Add				
					Apply

Step 3 Enable or disable detection addresses.

- Select **Enable** to detect terminal network by pinging the corresponding address.
- Deselect **Enable** to detect terminal network not by pinging the corresponding address.

Step 4 Click Apply.

7.14 Server Configuration

Connect to VNNOX Standard/AD. Authentication information is required during configuration.

How to check player authentication information:

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

7.14.1 Binding to VNNOX Standard/AD

You can bind a terminal to VNNOX and create an asynchronous player.

- Step 1 Select the target terminal from the terminal list.
- Step 2 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.
- Step 3 Click Bind.

7.14.2 Binding to iCare

Terminals can be registered on iCare. Multiple terminals can be selected for batch operations.

- Step 1 Select the target terminal from the terminal list.
- Step 2 In **Bind to iCare**, select a server and enter the user name.
- Step 3 Click Bind.

7.15 Screen Upgrade

- Taurus: Upgrade application and system software versions.
- VPlayer: Upgrade the version of VPlayer.

Note: Do not power off the terminal and computer during upgrade. The terminal will restart once.

7.15.1 Online Upgrade

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

Step 1 Select Online Upgrade.

The system decides whether a terminal needs to be upgraded.

- Yes. The current version information and will be displayed, as shown in Figure 7-4. Go to Step 2.
- No. Only the current version information is displayed. No further operation is required.

Figure 7-4 Online upgrade

		Ť) Screen upgrade ∨			
Upgrade met	hod Online upg	rade	CLocal upgrade			
Total: 52						
	Screen Name 韋	Screen IP 🜲	Version	Туре	Progress	
	Taurus-30003289	10.10.10.149	system: T6V010209CN0201 More software: 1.2.9.0201	T6		
	Taurus-30003300	10.10.10.160	system: T6V010209CN0201 More software: 1.2.9.0201	Т6		
•	Taurus-10000209	172.16.22.253	system: software:	C		

- Step 2 Click More and view the related information of the new version.
- Step 3 In the terminal information list, select one or more upgradable terminals and click **Upgrade**.

The upgrade progress is displayed.

7.15.2 Local Upgrade

Use local files to upgrade terminal versions.

- Step 1 Select Local Upgrade.
- Step 2 Select the upgrade package path.
- Step 3 In the terminal information list, select one or more upgradable terminals and click **Upgrade**.

The upgrade progress is displayed.

7.16 Power Control

Configure board power, power on or off devices remotely, and set scheduled power control rules.

- Board power: Control power supplies with relays on terminals.
- Multi-function card power: Control power supplies with relays on multi-function cards.

When the power switch in ViPlex Express is turned on, the relay will be closed and the power supply is connected. When the power switch in ViPlex Express is turned off, the relay will be released and the power supply is disconnected.

7.16.1 Board Power Configuration

After board power configuration is done, VNNOX can perform power control on the devices connected to the board power.

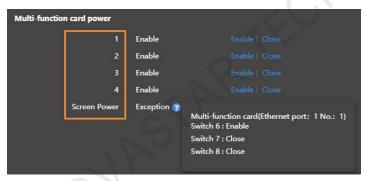
- Step 1 Select the target terminal from the terminal list.
- Step 2 Select the option to be controlled from the drop-down box. Currently, only screen power is supported.
- Step 3 Click Apply.

7.16.2 Manual Control

- Step 1 Select the target terminal from the terminal list.
- Step 2 Select Manual to enter the manual setting page.
- Step 3 Turn on or off the power switch.

An example of information of the multi-function card power supply is shown in Figure 7-5.

Figure 7-5 Multi-function card power



The labels in the orange box are defined in NovaLCT. One or more relay switches can be associated with a label. When multiple relay switches are associated and each of them is turned on (or off), **Enable** (or **Close**) will be displayed, otherwise **Exception** is displayed and the detailed information of each switch is provided.

7.16.3 Scheduled Control

- Step 1 Select the target terminal from the terminal list.
- Step 2 Select **Timing** to enter the scheduled setting page. Perform the following operations according to actual needs.
 - Create a rule: Click II. In the dialog box that appears, set the object, time and cycle to control and then click **OK**.
 - Change a rule: Select a rule, click *I* to change the rule to control, and then click **OK**.
 - Delete a rule: Select one or more rules and click \bowtie . In the dialog box that appears, click **OK**.
 - Clear all rules: Click 🖾. In the dialog box that appears, click **OK**.

• Enable a rule: In the rule list, turn on **Sure to enable**.

Step 3 After the settings are done, click **Apply**.

7.17 RF Management

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. RF management is available for all the Taurus series products except the -4G models.

Before using RF synchronization, install an RF module. ViPlex Express can detect and display RF module status.

- Step 1 Select the target terminal from the terminal list.
- Step 2 Turn on **RF synchronization**.
- Step 3 Set the current terminal as the master device or a slave device.
- Step 4 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 together.

Step 5 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 RF signal.

Step 6 Click Apply.

7.18 Sensors

Set sensor information so that the terminal can collect environment monitoring data by using sensors.

When the related information of RF synchronization is displayed, as shown in Figure 7-6, it indicates that environment monitoring data synchronization is enabled on the current terminal .For related operation, see 7.17 RF Management. 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 the same as the master device via RF signal.

Figure 7-6 RF synchronization- environment monitoring data

RF synchronization	Master device(Group ID: 777)	
Product Model	NovaStar	~
Select Sensor	✓ Brightness Air temperature	lux ℃

Step 1 Select the target terminal from the terminal list.

- Step 2 Select a sensor manufacturer. Sensors of only NovaStar and Nenghui are supported.
- Step 3 Select a sensor type.
 - NovaStar: Brightness, temperature
 - Nenghui: Noise, temperature, humidity, air pressure, wind force/speed, wind direction, PM2.5, PM10, CO₂, brightness

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

7.19 Screen Information

Information displayed here includes the terminal MAC address, terminal IP address, system software version, product model, application software version.

8 System Settings

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

Table 8-1	System settings	
-----------	-----------------	--

Menu	Description
Language	Set system language.
RF management	Manage the playback of all terminals except the reference device when the RF time synchronization mode is enabled. Before operation, enter the password " admin ".
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.
Setting	 Set the location to save files, including ViPlex Express configuration files, data, temporary files, etc. Enable or disable the automatic terminal reconnection function, and set the reconnection interval.
Check for updates	Check for and install new updates of ViPlex Express.
Help	View the documentation related to the software.
About	Display the version of ViPlex Express and the official website of NovaStar.

9 Audio and Video Decoder Specifications

9.1 Image

Туре	Codec	Supported Image Size	Container	Remarks
JPEG	JFIF file format 1.02	48×48 pixels~8176×8176 pixels	JPG, JPEG	Not Support Non-interleaved Scan
			G .	Software support SRGB JPEG
				Software support Adobe RGB JPEG
BMP	BMP	No Restriction	BMP	N/A
GIF	GIF	No Restriction	GIF	N/A
PNG	PNG	No Restriction	PNG	N/A
WEBP	WEBP	No Restriction	WEBP	N/A

9.2 Audio

Туре	Codec	Channel	Bit rate	Sampling rate	File Format	Remarks
MPEG	MPEG1/2/2.5 Audio Layer1/2/3	2	8kbps~320Kb ps, CBR and VBR	8KHZ~48 KHz	MP1, MP2, MP3	N/A
Windows Media Audio	WMA Version 4, 4.1, 7, 8, 9, wmapro	2	8kbps~320Kb ps	8KHZ~48 KHz	WMA	Non-support WMA Pro, lossless and MBR
WAV	MS-ADPCM, IMA-ADPCM, PCM	2	N/A	8KHZ~48 KHz	WAV	Support 4bit MS-ADPCM, IMA-ADPCM
OGG	Q1~Q10	2	N/A	8KHZ~48	OGG,	N/A

		Bit rate	Sampling rate	File Format	Remarks
			KHz	OGA	
ompress Level ~8	2	N/A	8KHZ~48 KHz	FLAC	N/A
DIF, ATDS eader AAC-LC nd AAC-HE, AC-ELD	5.1	N/A	8KHZ~48 KHz	AAC, M4A	N/A
MR-NB, MR-WB	1	AMR-NB 4.75~12.2kbp s@8kHz AMR-WB 6.60~23.85kb ps@16kHz	8KHZ, 16KHz	3GP	N/A
IIDI Type 0 and , DLS version 1 nd 2, XMF and lobile XMF, TTTL/RTX, TA, iMelody	2	N/A	N/A	XMF, MXMF, RTTTL, RTX, OTA, IMY	N/A
	-8 DIF, ATDS eader AAC-LC od AAC-HE, AC-ELD MR-NB, MR-WB IDI Type 0 and DLS version 1 od 2, XMF and obile XMF, TTTL/RTX,	-8 DIF, ATDS eader AAC-LC nd AAC-HE, AC-ELD MR-NB, MR-WB 1 IDI Type 0 and DLS version 1 nd 2, XMF and obile XMF, TTTL/RTX,	-8	ompress Level -82N/A8KHZ-48 KHzDIF, ATDS eader AAC-LC nd AAC-HE, AC-ELD5.1N/A8KHZ-48 KHzMR-NB, MR-WB1AMR-NB 4.75~12.2kbp s@8kHz AMR-WB 6.60~23.85kb ps@16kHz8KHZ, 16KHzIDI Type 0 and DLS version 1 nd 2, XMF and obile XMF, TTTL/RTX,2N/AN/A	ompress Level -82N/A8KHZ~48 KHzFLACDIF, ATDS eader AAC-LC nd AAC-HE, AC-ELD5.1N/A8KHZ~48 KHzAAC, M4AMR-NB, MR-WB1AMR-NB 4.75~12.2kbp s@8kHz AMR-WB 6.60~23.85kb ps@16kHz8KHZ, 16KHz3GPIDI Type 0 and DLS version 1 nd 2, XMF and obile XMF, TTTL/RTX,2N/AN/AXMF, MXH

9.3 Video

Туре	Codec	Supported Image Size	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	File Format	Remarks
MPEG -1/2	MPEG -1/2	48×48 pixels~1920×108 0 pixels	30fps	80Mbps	DAT, MPG, VOB, TS	Support Field Coding
MPEG -4	MPEG 4	48×48 pixels~1920×108 0 pixels	30fps	38.4Mbps	AVI, MKV, MP4, MOV, 3GP	Not support MS MPEG4 v1/v2/v3, GMC, DivX3/4/5/6/ 7/10
H.264/ AVC	H.264	T3&T6&TB3&TB 4&TB6&TB8: 48×48 pixels~4096×230 4 pixels Other models: 48×48 pixels~1920×108 0 pixels	T3&T6&TB3& TB4&TB6&TB 8: 4K@25fps, 1080P@60fps Other models: 1080P@60fps	T3&T6&TB3& TB4&TB6&TB 8: 100Mbps Other models: 57.2Mbps	AVI, MKV, MP4, MOV, 3GP, TS, FLV	Support Field Coding, MBAFF

Туре	Codec	Supported Image Size	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	File Format	Remarks
MVC	H.264 MVC	48×48 pixels~1920×108 0 pixels	60fps	38.4Mbps	MKV, TS	Support Stereo High Profile only
H.265/ HEVC	H.265/ HEVC	T3&T6&TB3&TB 4&TB6&TB8: 64×64 pixels~4096×230 4 pixels Other models: 64×64 pixels~1920×108 0 pixels	T3&T6&TB3& TB4&TB6&TB 8: 4K@60fps, 1080P@60fps Other models: 1080P@60fps	T3&T6&TB3& TB4&TB6&TB 8: 100Mbps Other models: 57.2Mbps	MKV, MP4, MOV, TS	Support Main Profile, Tile & Slice
GOO GLE VP8	VP8	48×48 pixels~1920×108 0 pixels	30fps	38.4 Mbps	WEBM, MKV	N/A
H.263	H.263	SQCIF(128×96), QCIF(176×144), CIF(352×288), 4CIF(704×576)	30fps	38.4Mbps	3GP, MOV, MP4	Not support H.263+
VC-1	VC-1	48×48 pixels~1920×108 0 pixels	30fps	45Mbps	WMV, ASF, TS, MKV, AVI	N/A
MOTI ON JPEG	MJPE G	48×48 pixels~1920×108 0 pixels	30fps	38.4Mbps	AVI	N/A

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

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