

Bxsetpro software user Manuel

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1. Function Introduction

1.1. Summary

Bxsetpro software uses the Bxsetpro configuration tool to independently complete the connection and parameter configuration of the receiving card, making it convenient to adapt to asynchronous main control and Synchronize the main control. Screen debugging is more convenient and flexible. The product is simple and practical, with strong features, and is innovative in technology and meets the diverse applications of the future

Has a stronger competitive advantage in terms of demand.

Bxsetpro software supports the full range of ONBON sending cards, receiving cards, and video controllers, and supports smart parameter settings for LED displays setup.

1.2. Operating environment

Bxsetpro supports operating systems such as Windows XP, Vista, Windows 10, Windows 11, etc.

Gigabit network card mode, computer configuration requirements:

CPU above 2.0GHz, recommended CPU 3.0GHz.

More than 2GB of memory, recommended 4GB of memory.

The motherboard is equipped with a gigabit network card or an external PCI/PCI-E gigabit network card.

Sending card mode, computer configuration requirements:

CPU above 2.0GHz, recommended CPU 3.0GHz.

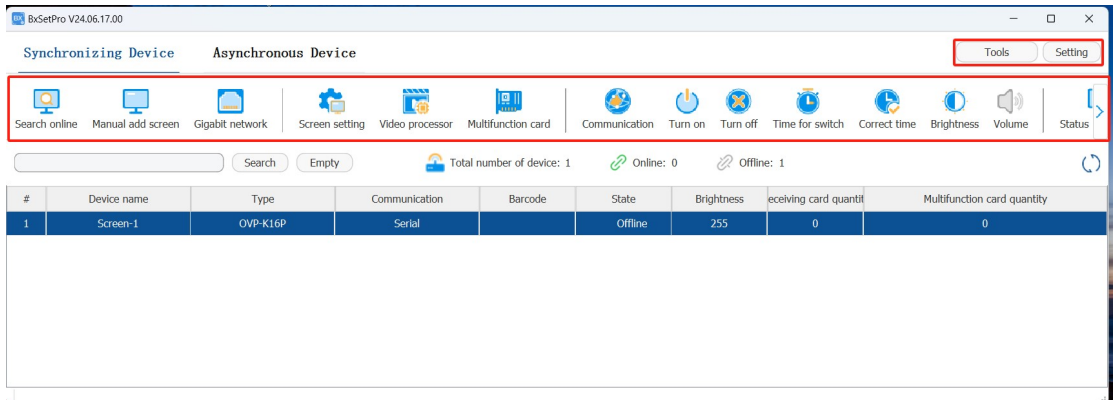
More than 2GB of memory, recommended 4GB of memory.

Independent graphics card, with a video memory of 512MB or more, and must have a DVI interface. It is recommended to have 1GB of video memory.

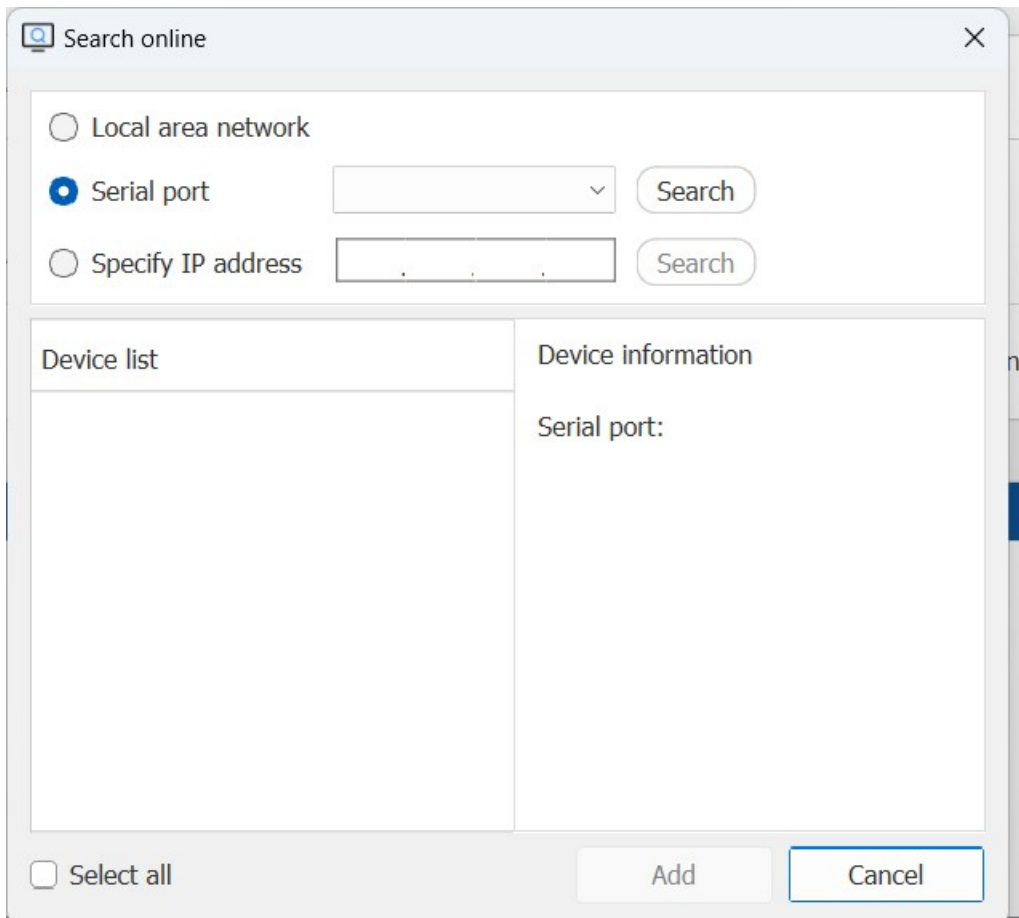
Note: In practical applications, users need to consider the pixel count of the LED screen, the complexity of the program being played, and whether the video is played. Properly improve the performance and configuration of computers for high-definition video sources and other aspects

2.1. Interface Introduction

After starting the software, users can see the software interface as shown in the figure. The software is divided into two major sections for debugging: synchronous devices and asynchronous devices. The main sections include the menu bar, toolbar, and device list area.



2.2 Search online screen

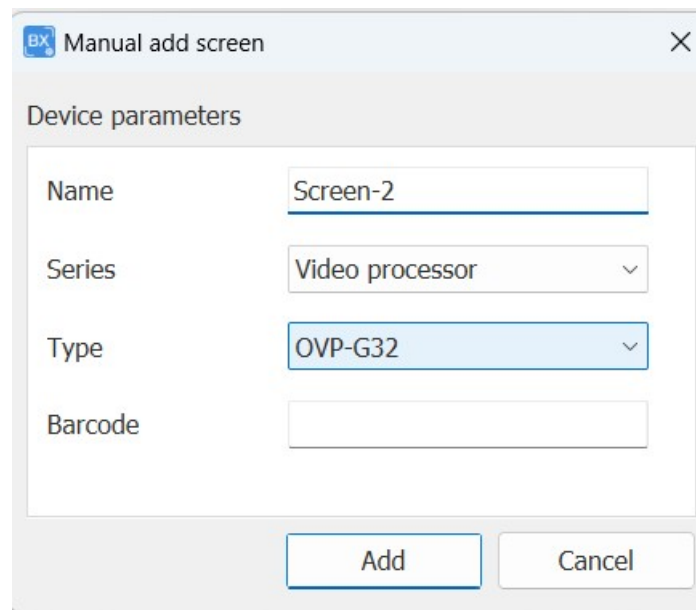


Click on "Search Online Screen " to enter the "Search Online Screen " interface, where users can select "LAN", "Serial Port", or "Designated IP" for communication

Connect the search device in the specified way, and the devices found will be displayed in the "Device List". After selecting the devices that need to be connected, click "Add". Users can add a screen now.

2.3 Manuel add screen

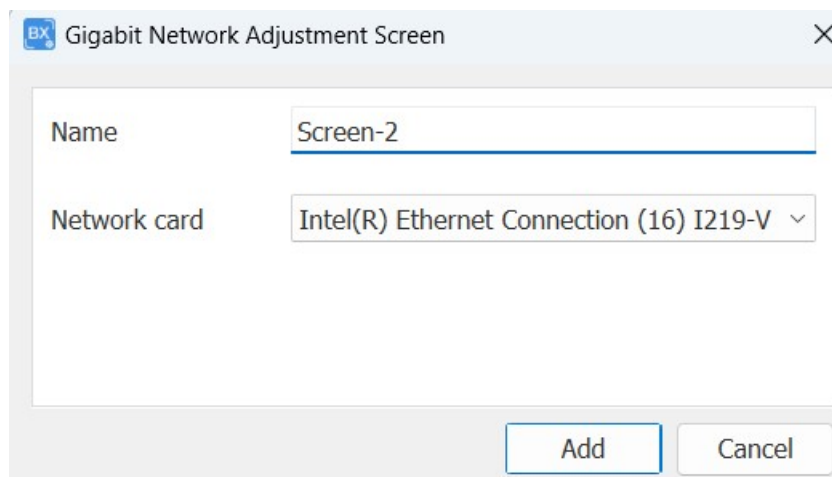
Click "Manual add Screen " to enter the "Manual add Screen " interface, where users can select "Series", "Type", and modify the device name. Click "Add" to add the screen.



The screenshot shows a dialog box titled "Manual add screen" with a close button (X) in the top right corner. Below the title bar is a section labeled "Device parameters". Inside this section, there are four input fields: "Name" with the text "Screen-2", "Series" with a dropdown menu showing "Video processor", "Type" with a dropdown menu showing "OVP-G32", and "Barcode" which is empty. At the bottom of the dialog box, there are two buttons: "Add" and "Cancel".

2.3 Gigabit network

Click on "Gigabit Network mode" to enter the "Gigabit Network Screen Adjustment" interface. In Gigabit Network Communication Mode, select "Network Card" and modify the device name, click "Add" to add the screen.



The screenshot shows a dialog box titled "Gigabit Network Adjustment Screen" with a close button (X) in the top right corner. Below the title bar, there are two input fields: "Name" with the text "Screen-2" and "Network card" with a dropdown menu showing "Intel(R) Ethernet Connection (16) I219-V". At the bottom of the dialog box, there are two buttons: "Add" and "Cancel".

2.4 Communication

2.4.1 Communication mode

BxSetPro V24.06.17.00

Synchronizing Device Asynchronous Device

Search online Manual add screen Gigabit network Screen setting Video processor Multifunction card **Communication**

Search Empty Total number of device: 8 Online:

#	Device name	Type	Communication	Barcode	State
1	Screen-2	OVP-G24	192.168.1.100		Offline
2	Screen-1	OVP-K2	Serial		Offline
3	Screen-3	OVP-K10P	Serial		Online
4	Screen-5	Gigabit	Intel(R) Ethernet Connectio...	None	Online
5	Screen-4	OVP-K2	Serial		Offline
6	Screen-6	OVP-K2	SerialCOM3	CPK02024081902...	Online
7	Screen-7	OVP-K6	SerialCOM4	CPK06024082000...	Online

Network option

Communication mode Network option

☐ Fixed IP ☐ Direct ☒ Serial port

Serial port: [Dropdown]
Baudrate: 115200

2.4.2 Network option

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Synchronizing Device Asynchronous Device

Search online Manual add screen Gigabit network Screen setting Video processor Multifunction card **Communication**

Search Empty Total number of device: 8 Online:

#	Device name	Type	Communication	Barcode	State
1	Screen-2	OVP-G24	192.168.1.100		Offline
2	Screen-1	OVP-K2	Serial		Offline
3	Screen-3	OVP-K10P	Serial		Online
4	Screen-5	Gigabit	Intel(R) Ethernet Connectio...	None	Online
5	Screen-4	OVP-K2	Serial		Offline
6	Screen-6	OVP-K2	SerialCOM3	CPK02024081902...	Online
7	Screen-7	OVP-K6	SerialCOM4	CPK06024082000...	Online

Network option

Communication mode **Network option**

Ethernet Wifi AP

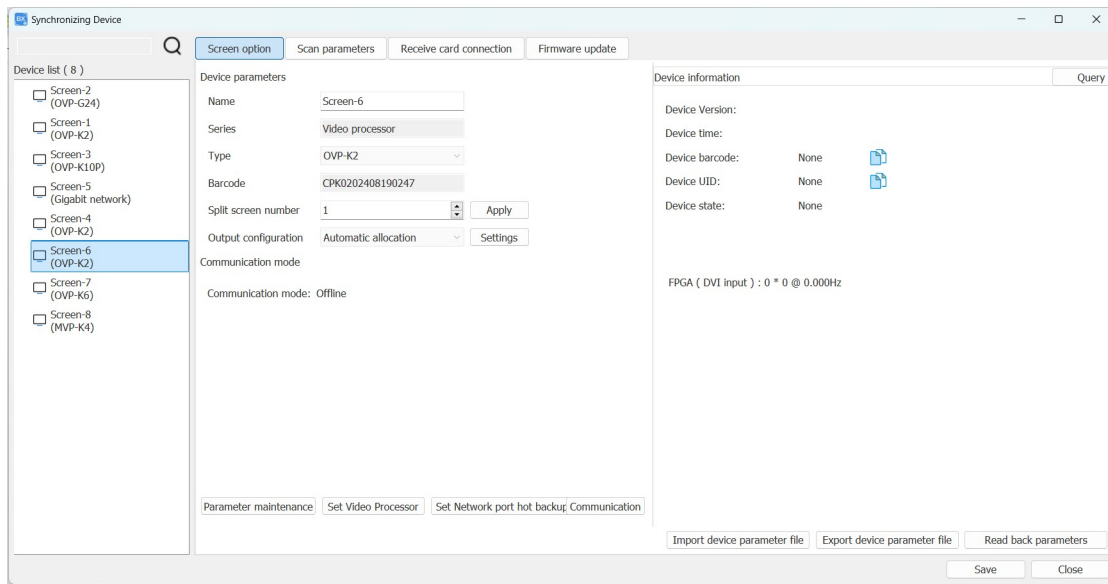
Local ethernet: 169.254.101.160

IP address: 192, 168, 192, 10
Subnet Mask: 255, 255, 255, 0
Gateway: 192, 168, 192, 1
Port: 5005

2.5 Set screen parameter

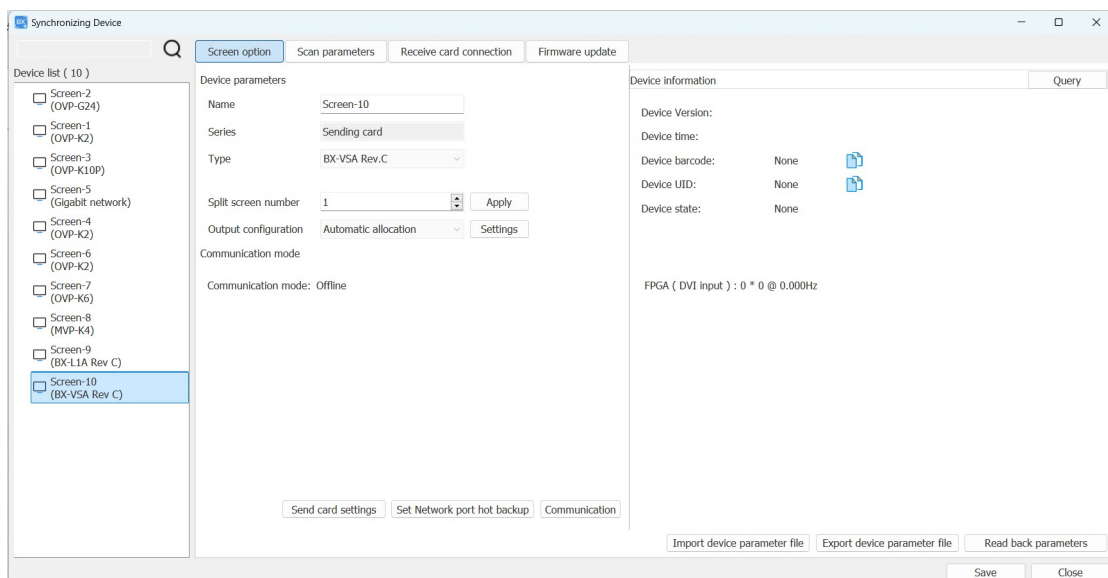
Click "Set screen parameters" , enter the password of"888" in the pop-up dialog box, and then click "OK" button to enter the "Set screen parameters" interface

The screen parameter setting interface is divided in to four parts: screen option, scan parameters , receiving card connection and firmware upgrade

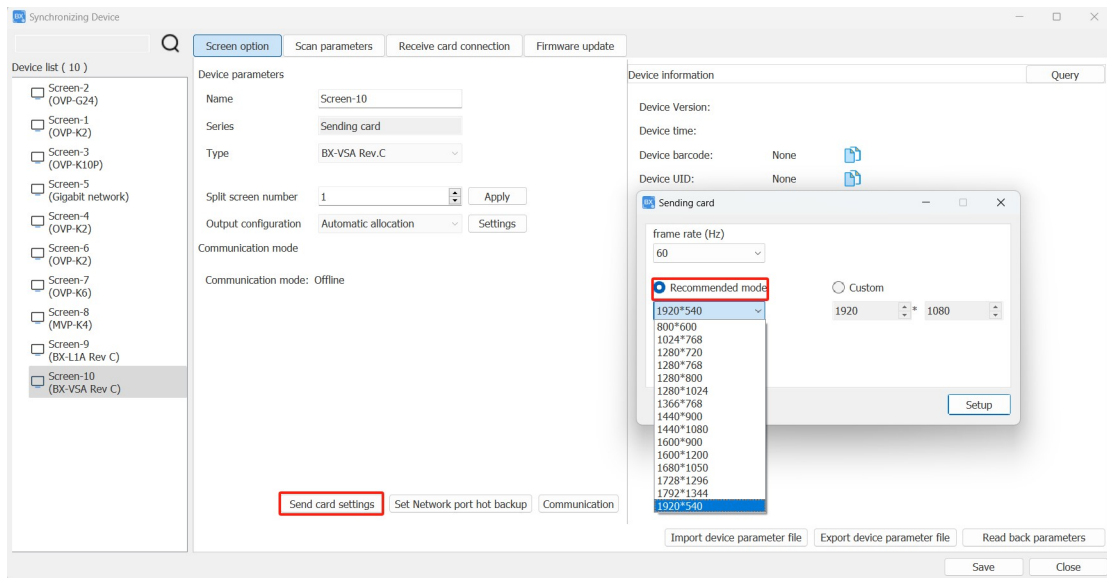


2.5.1 Screen option

Users can check the controller information in the "Screen option" section, and users can also perform operations such as split screen number, configuring output settings, sending cards, importing device parameter files, exporting device parameter files, and read back parameters .



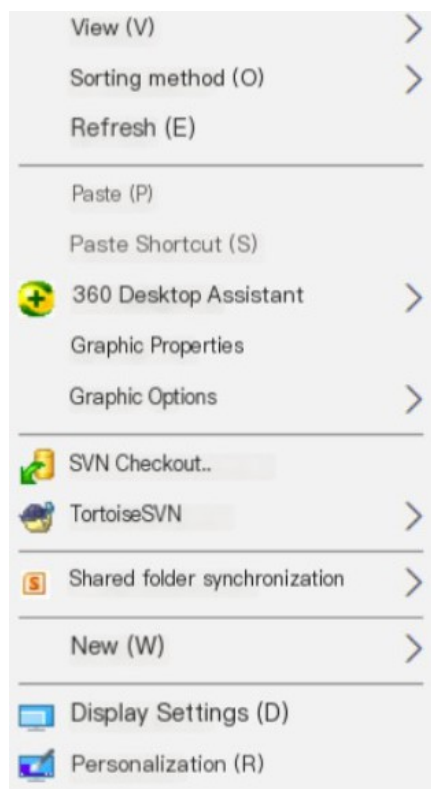
2.5.1.1 Set sending card



2.5.1.2 Multi monitor settings

When the user's computer is connected to multiple monitors or LED screens, the display mode of the computer needs to be set first. Firstly, click on the electricity button

Brain screen, right-click the mouse and select "Display Settings", as shown in the following figure. (Taking Windows 10 operating system as an example, for other operations).The system setup method is slightly different and is for reference only.

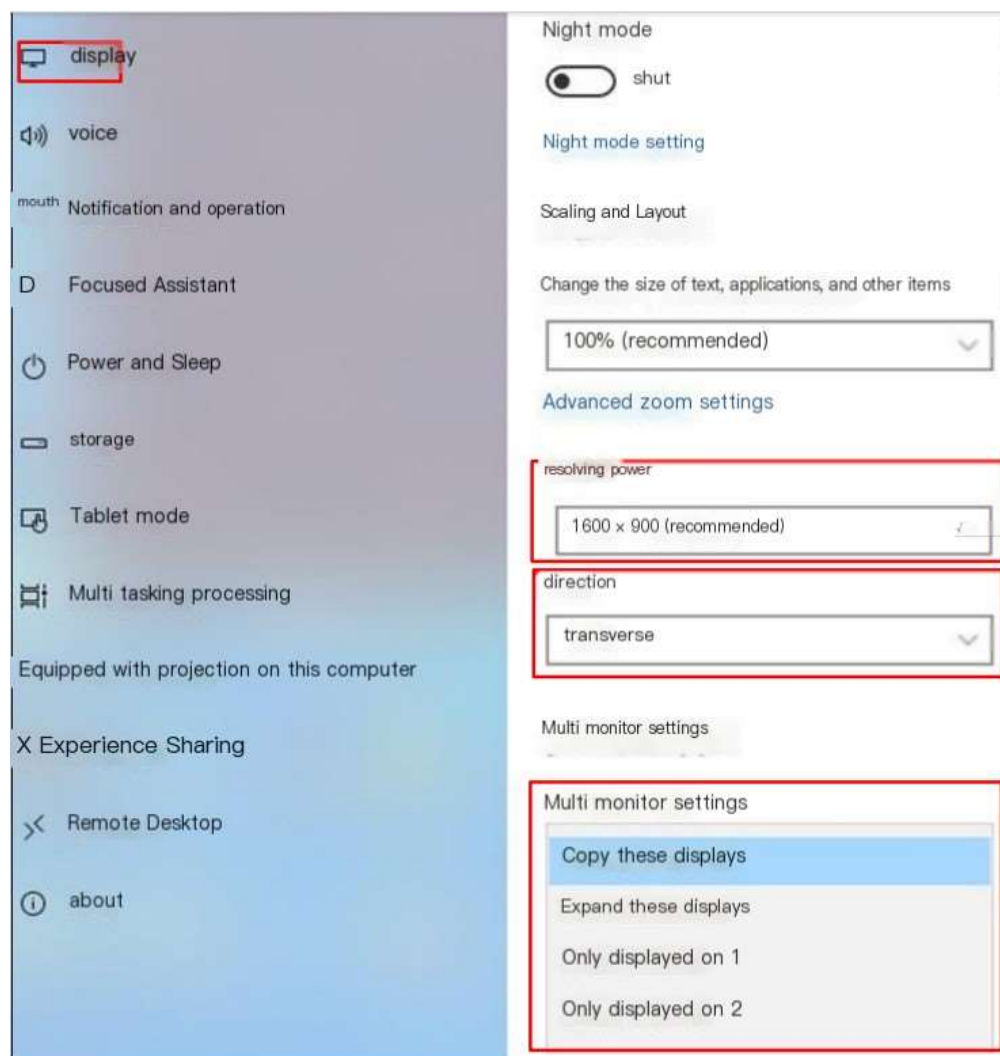


Go to the settings interface, select the "Display" tab, in the "Display" interface, set the resolution to "1600x900" (the same resolution as the sending card), and select "Horizontal" for the "Direction". The "Multi-Monitor Setup" is divided into "Copy these monitors", "Extend these monitors", "Show only on 1", and "Show only on 2".

"Copy these monitors" means that both monitors display the same image.

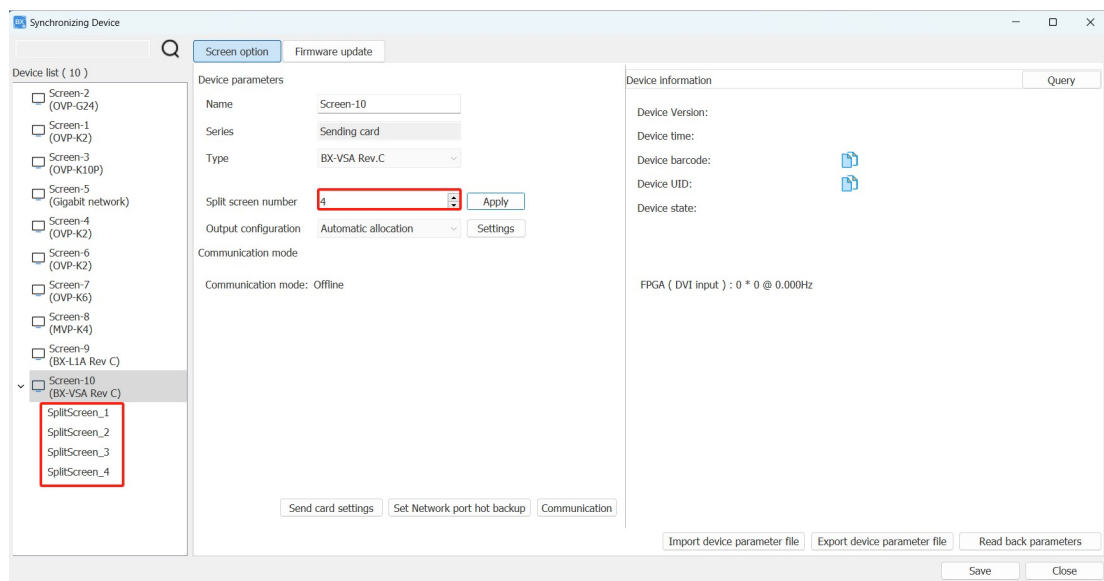
"Extend these monitors" means that the images displayed on both monitors form a complete image, and the mouse can move from one monitor to the other.

When the "Extend these monitors" mode is selected, the software supports the background playback function, and users can check the image on the desktop of the computer that needs to be monitored by selecting "Select Desktop Monitor" under "Settings".

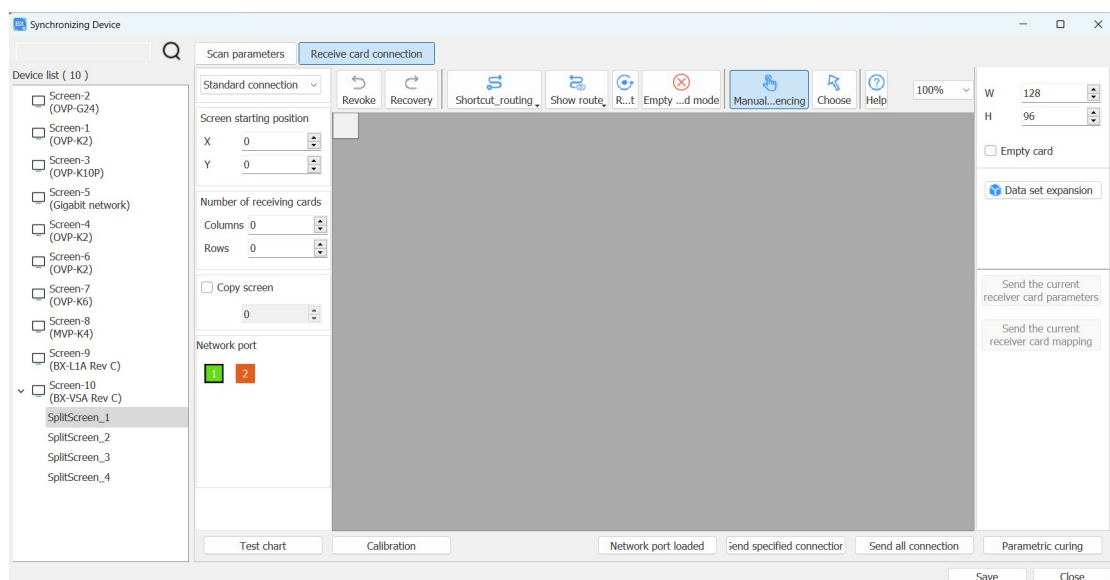


2.5.1.3 Split screen function

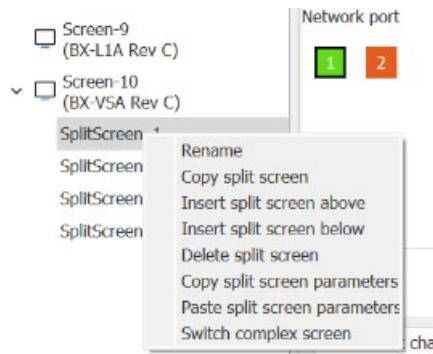
By using the split-screen function, users can display the same content on multiple parts of the screen. First, set the number of split screens users need in the "Screen Information" section by inputting 4, and then click "Apply" to complete the setting. At this point, the list of split screens will appear below the corresponding screen in the "Device List" area on the left. As shown in the figure below.



Select 1 split screen, and users can make settings for the starting position of the screen, the number of columns and rows of the cabinet, the width and height of the cabinet, and the connection method in the "receiving Card Connection" on the right side, as shown in the figure below.

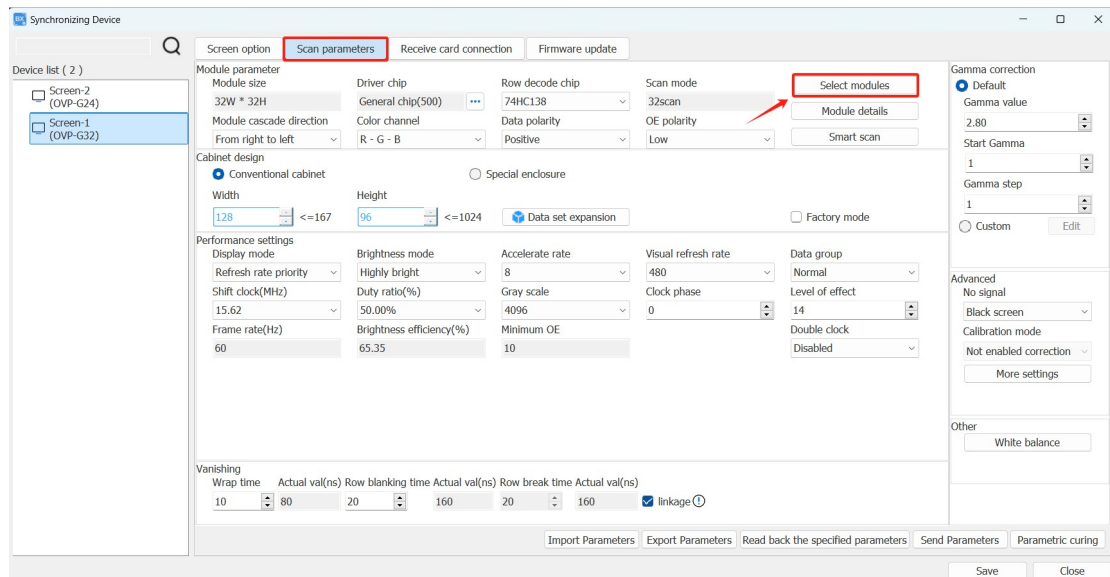


Select 1 split screen, click the right mouse button, and users can rename the selected screen, copy the split screen, insert a split screen above or below, delete the split screen, copy split screen parameters, paste split screen parameters, switch to complex screen arrangement, as shown in the following figure:



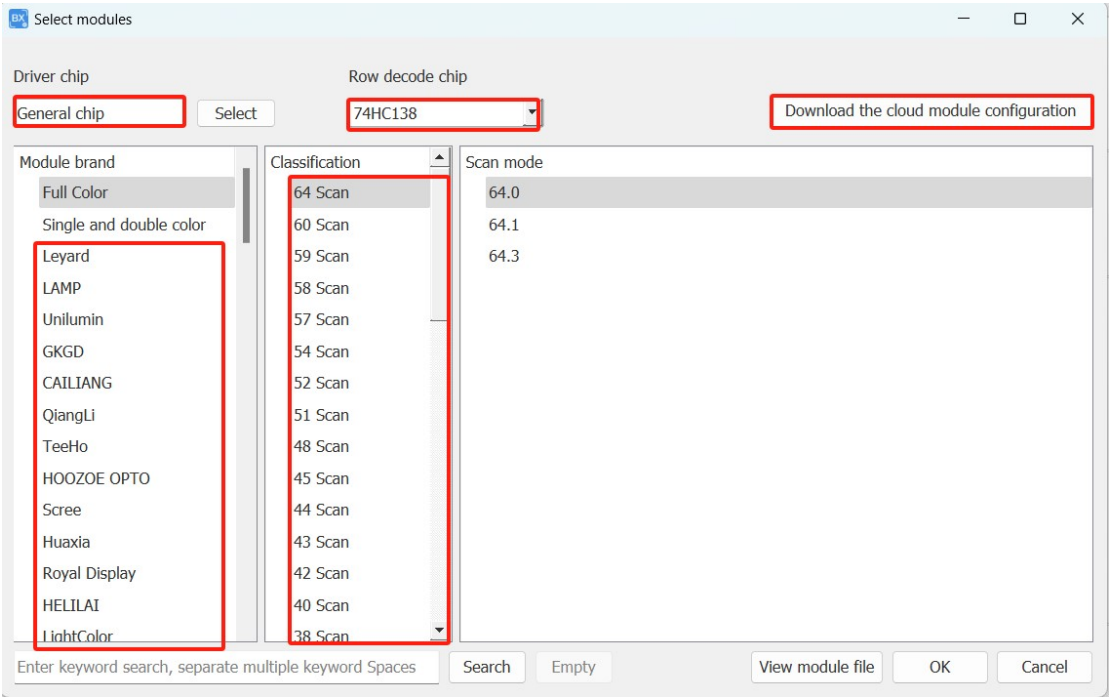
2.6.1 Scan parameters

Click "Scan Parameters" to enter the parameter interface, and then click "Select Module" as shown in the figure below.

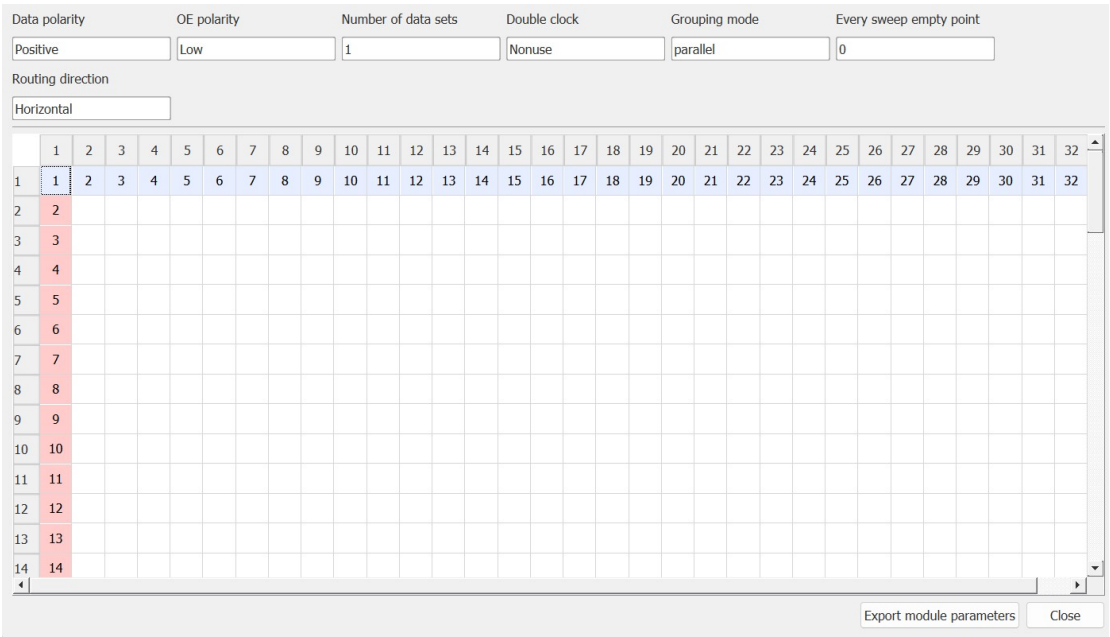


In the "Select Modules" interface, users can select the corresponding chip series type under "Driver Chip", the "Row Decoding Chip" type, select the "Module Manufacturer" and "Category" as well as the specific scanning method, and then click "OK". In the "Scanning Parameters" interface at the lower right corner, click "Send Parameters" to send the parameters. Additionally, the software also supports cloud download of configuration files.

When the module has saved a configuration file, simply click "Download Cloud-based Module Configuration" to synchronize the module's configuration file.



In the "Module Details" interface, users can see the "Module Size", "Driver Chip", "Row Decoding Chip", "Scanning Method", "Module Stacking Direction", "Color Channel", "Data Polarity", "OE Polarity", "Data Group Number", "Double Clock", "Grouping mode", "Every Sweep Empty Points", and "Routing Direction" for the selected module.



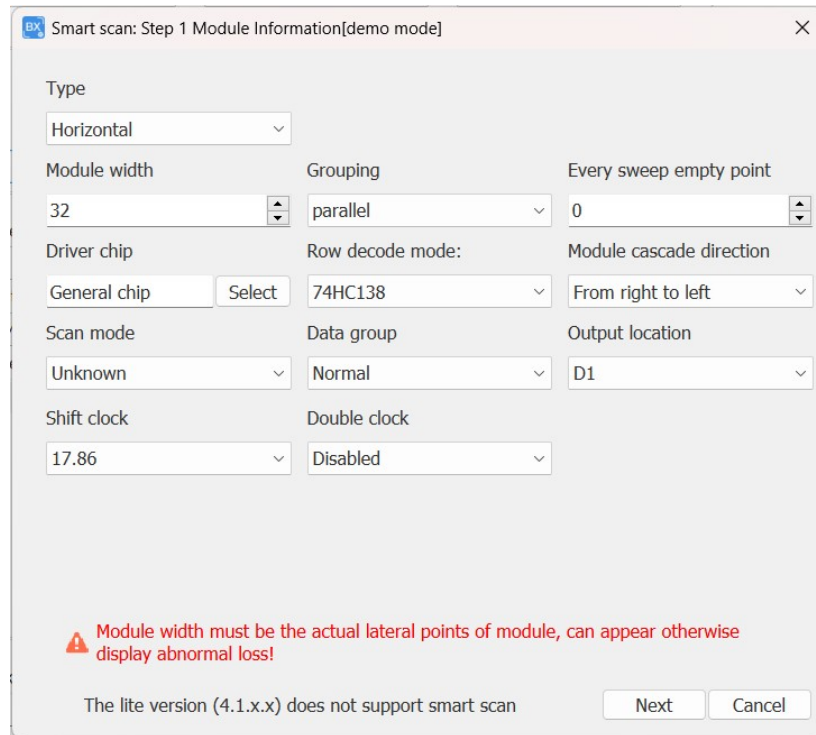
Smart scan

When users are not sure which scanning mode to choose, they can use the smart scan

configuration method to learn which scanning mode is suitable for the LED screen they are using.

Step 1

Click "smart scan " to enter the "smart Setup Wizard-1" interface to set relevant parameters.



The image shows a software window titled "Smart scan: Step 1 Module Information[demo mode]". It contains several configuration fields:

- Type: Horizontal (dropdown)
- Module width: 32 (input field)
- Grouping: parallel (dropdown)
- Every sweep empty point: 0 (input field)
- Driver chip: General chip (button) and Select (button)
- Row decode mode: 74HC138 (dropdown)
- Module cascade direction: From right to left (dropdown)
- Scan mode: Unknown (dropdown)
- Data group: Normal (dropdown)
- Output location: D1 (dropdown)
- Shift clock: 17.86 (input field)
- Double clock: Disabled (dropdown)

At the bottom, there is a red warning icon and text: "Module width must be the actual lateral points of module, can appear otherwise display abnormal loss!". Below this, it says "The lite version (4.1.x.x) does not support smart scan". At the bottom right are "Next" and "Cancel" buttons.

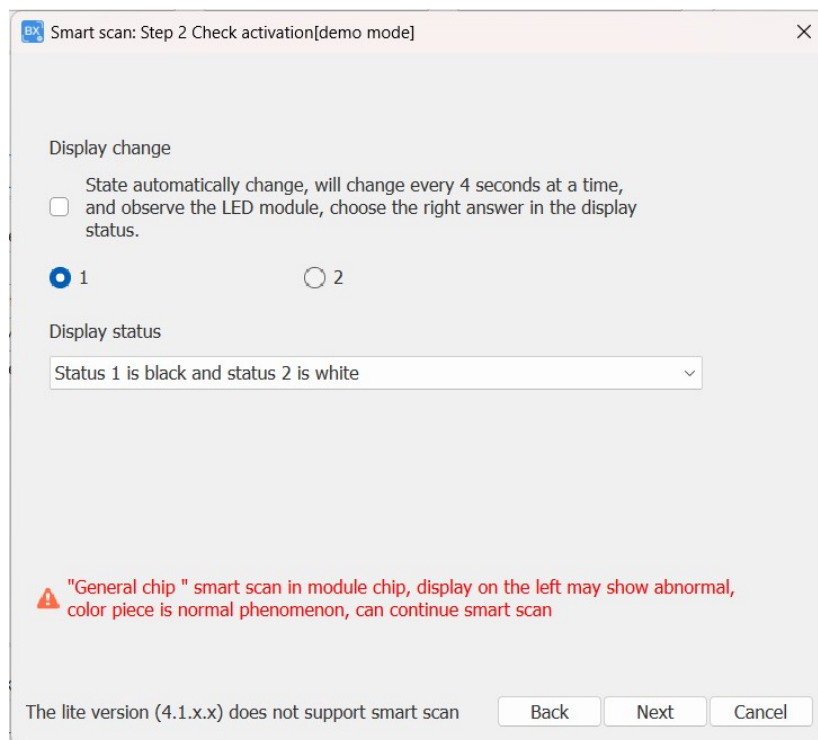
- ◆ Type: Divided into horizontal and vertical types.
- ◆ Module width: Users can input the module width based on the total number of pixels in one row of the LED screen they are using.
- ◆ Data grouping: Users can choose from parallel, 20 groups of data, single/double base, custom 1, custom 2, and custom 3.
- ◆ Empty points per scan: Users can input the number of empty points when using an empty pixels screen.
- ◆ Encoding method: There are no encoding, 74HC138, 74HC595, RT5958, SM5266P, LS9739 common anode, LS9736 common anode, LS9737 common anode, and LS9735 common anode, etc. encoding methods. The 74HC138 encoding method is usually selected.
- ◆ Module cascading direction: The direction of connection between the receiving card and the module, divided into right to left, left to right, top to bottom, and bottom to

top.

- ◆ Scanning method: Choose the scanning method of the module.
- ◆ Grouping method: Divided into parallel, three-color one-point serial, and three-color eight-point serial.
- ◆ Output position: Choose the output position of the data group.
- ◆ After the settings are completed, click "Next".

Step 2

Enter the "smart scan Wizard-2" interface to set related parameters.



Click "1" first to see if the LED screen displays black or white, then click "2" again to see if the LED screen displays black or white. If the user wants to closely observe the changes on the screen, they can check the checkbox at the top of the interface that says "Status automatically changes, changes every 4 seconds, observe the LED module, and select the correct answer in the display state." Then, in the drop-down list of "Display State," select the change state of the screen, and click "Next."

Step 3

Click "1" first to check the brightness of the LED screen, then click "2" again to check the

brightness of the LED screen. If the user wants to closely observe the changes on the screen, they can check the checkbox at the top of the interface that says "Status automatically changes, changes every 4 seconds, observe the LED module, and select the correct answer in the display state." Then, in the drop-down list of "Display State," select the change state of the screen, and click "Next."

Smart scan: Step 3 Check Brightness[demo mode]

Display change

☐ State automatically change, will change every 4 seconds at a time, and observe the LED module, choose the right answer in the display status.

☐ State 1 ☒ State 2

Display status

State 1 is darker than state 2

"General chip " smart scan in module chip, display on the left may show abnormal, color piece is normal phenomenon, can continue smart scan

The lite version (4.1.x.x) does not support smart scan

Back Next Cancel

Step 4

First, click "Show State 1" to check the color of the LED screen and select the correct color. Then click "Show State 2" again to check the color of the LED screen and select the correct color, and so on. Select the correct color for each of the three color changes. If the user wants to observe the screen changes in detail, they can check the option at the top of the interface that says "State automatically changes, changing every 4 seconds. Observe the LED module and select the correct answer in the display state." Then click "Next".

Smart scan: Step 4 Check color[demo mode]

Display change


☐ State automatically change, will change every 4 seconds at a time, and observe the LED module, choose the right answer in the display status.

Display status

☒ 1 Red

☐ 2 Green

☐ 3 Blue

 "General chip " smart scan in module chip, display on the left may show abnormal, color piece is normal phenomenon, can continue smart scan

The lite version (4.1.x.x) does not support smart scan

Back Next Cancel

Step 5


Count the number of lit rows (or columns) on the LED screen and enter the number of lit rows (or columns) in the text box. Then click "Next".

Smart scan: Step 5 Check the glow of the rows[demo mode]

Display change

How many row(s) are lighting in a module?

32

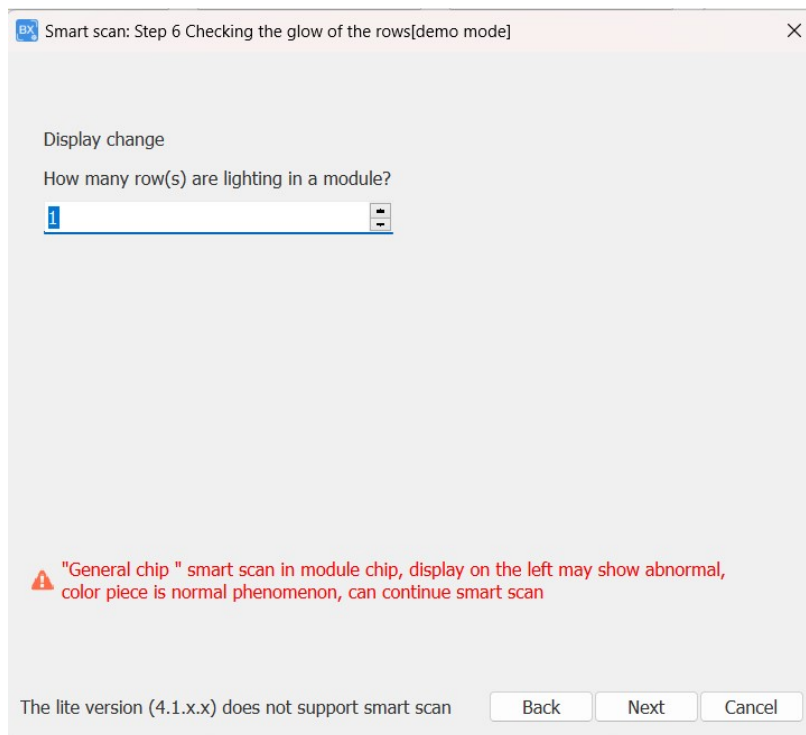
 "General chip module chip" smart scan, display on the left may show abnormal, have color piece, is normal phenomenon, continue smart scan operation.

The lite version (4.1.x.x) does not support smart scan

Back Next Cancel

Step 6

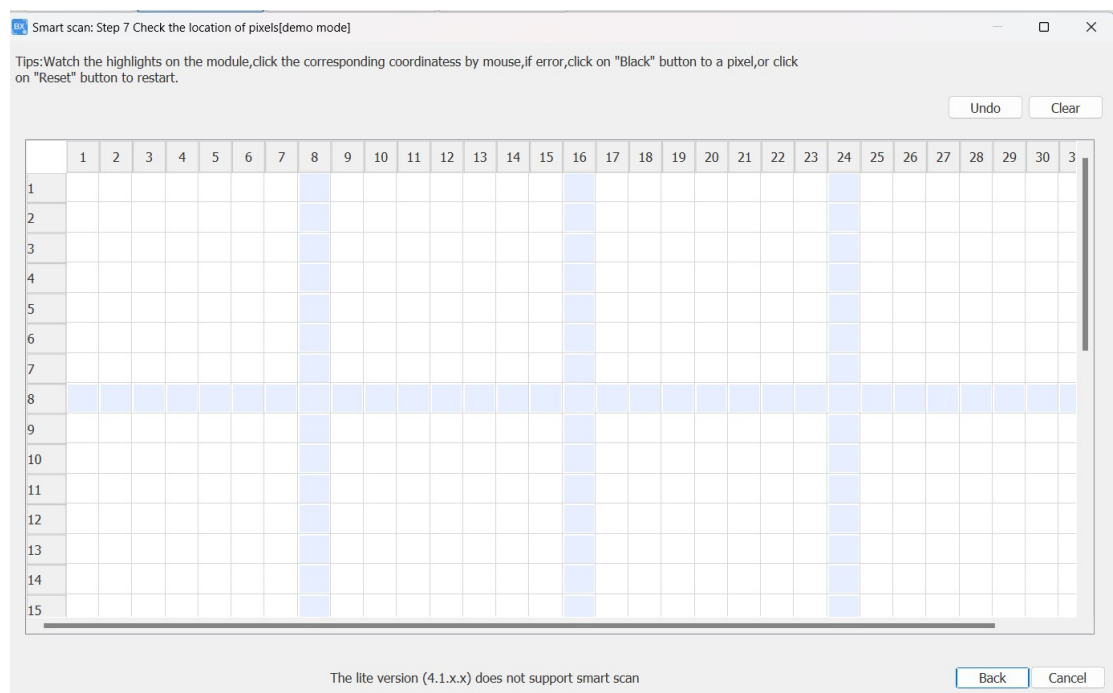
Count the number of lit rows (or columns) on the LED screen again, and click "Next".



Step 7

Click the corresponding small box on the interface according to the lit points on the LED screen until all the lit points on the screen are clicked,

Then the "Scan Settings" can be completed, as shown in the following figure. Click "OK", and the system will pop up the recommended scanning method, and the user can Save the secondary scanning mode to complete the smart scan.



2. Cabinet design

The Cabinet design is divided into conventional Cabinet and special Cabinet .

Conventional Cabinet

Click to select "Conventional Cabinet ", enter the width and height of the box, and click "Data Group Extension" to enter the "Data Group Extension" interface

Configure specific parameters.

Cabinet design

☒ Conventional cabinet

☐ Special enclosure

Width

192 <=222

Height

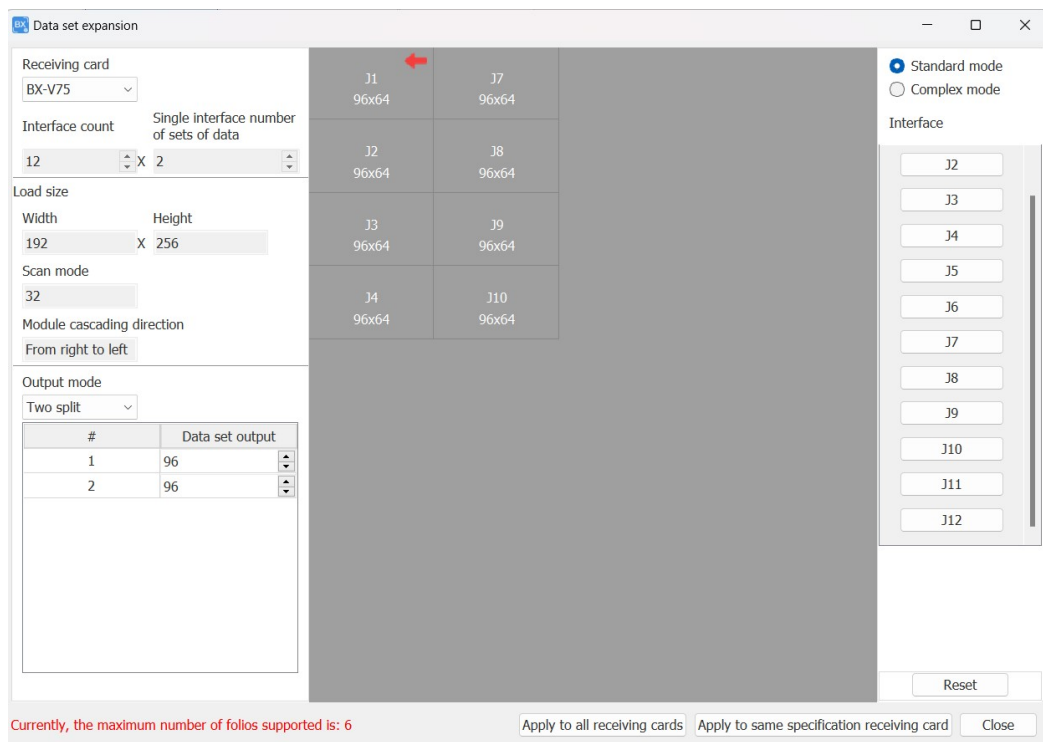
256 <=1024

 Data set expansion

In the "Data Group Extension" interface, users can click the drop-down list of "Output Mode", which is normally output by default, and users can also choose

2 split, 3 split, 4 split, 5 split, 6 split, 7 split, 8 split. 2 split of open is to receiving the tape carrier height by half, with

The width of the carrier doubles, and the height of the carrier is reduced by one-third for 3 split of open, and increased by one-third for 4 split of open, and so on. After selecting, Check the box for "Apply to all receiving cards". As shown in the figure below.



Data set expansion

Receiving card: BX-V75

Interface count: 12 X Single interface number of sets of data: 2

Load size: Width: 192 X Height: 256

Scan mode: 32

Module cascading direction: From right to left

Output mode: Two split

#	Data set output
1	96
2	96

Card layout grid (J1-J12, 96x64):

- J1, J7, J2, J8, J3, J9, J4, J10

Interface list (J2-J12):

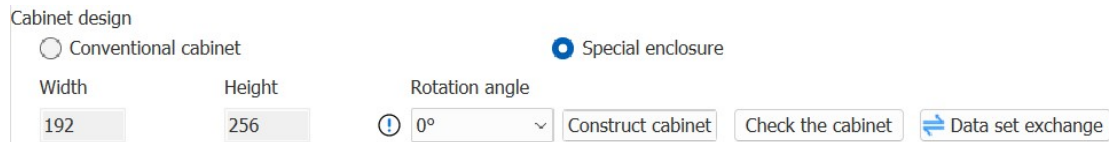
Buttons: Reset, Apply to all receiving cards, Apply to same specification receiving card, Close

Currently, the maximum number of folios supported is: 6

Special enclosure

Click and select "Special enclosure", enter the width and height of the box, and also choose to construct and view the box.

Rotation angle: The display screen can be rotated by 90 °, 180 °, or 270 °.

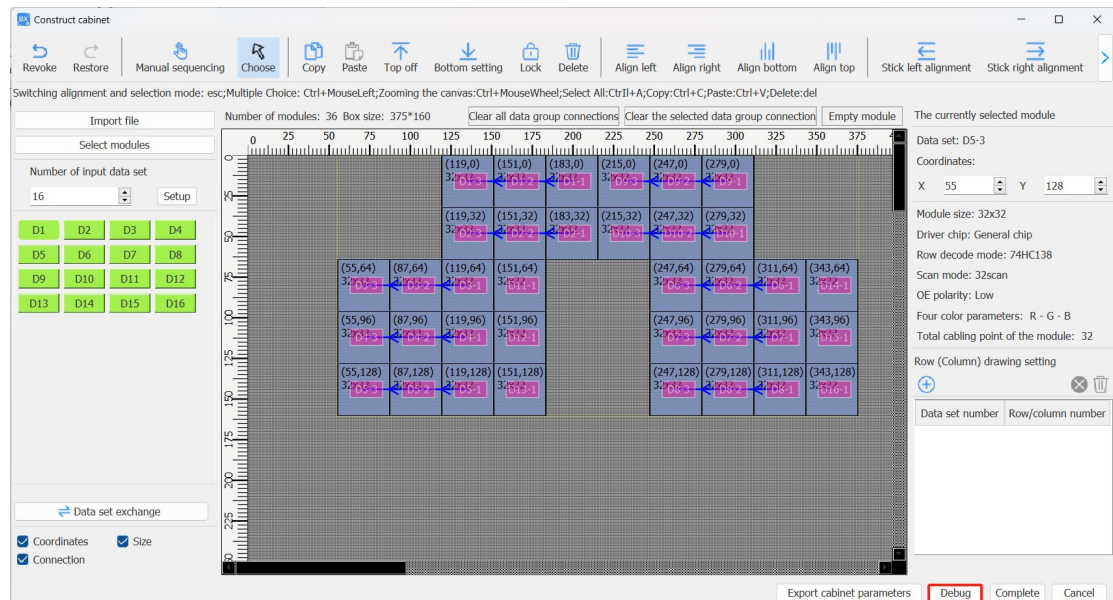


Construct cabinet: After clicking on the construct cabinet, enter the construct cabinet interface, and users can freely drag the box to place it in any position. Click on 'Import File'

Users can import the box configuration file, but it needs to match the module size, driver chip, line decoding chip, scanning method of the current receiving card configuration

Only when the OE polarity, four-color parameters, and other parameters are consistent can the import be successful. Click the "Debug" button to configure the completed alien enclosure

Send to the screen corresponding to the selected network port, and users can check whether the display of the box is correct.



8X
Data set exchange
×

Receiving card
Interface count
Single interface number of sets of data

BX-V75
12
X
2

Data set	A
1	15
2	16
3	13
4	14
5	11
6	12
7	9
8	10
9	7
10	8
11	5
12	6
13	3
14	4
15	1
16	2

Reverse

Parity exchange

Reset

Apply to all receiving cards

Apply to same specification receiving card

Close

Factory mode

Checking the "Factory mode" on the screen will display the first screen of the first control card connected to Port 1 on the network.

3.Scan Parameters

Performance parameter configuration: including display mode, brightness mode, refresh rate, visual refresh rate, data group, shift clock, duty cycle, grayscale level, clock phase, frequency adjustment, frame rate, brightness, and minimum OE width. Users can adjust these parameters according to the selected chip.

Performance settings

Display mode	Brightness mode	Accelerate rate	Visual refresh rate	Data group
Refresh rate priority	Highly bright	8	480	Normal
Shift clock(MHz)	Duty ratio(%)	Gray scale	Clock phase	Level of effect
15.62	50.00%	4096	0	14
Frame rate(Hz)	Brightness efficiency(%)	Minimum OE		Double clock
60	64.83	6		Disabled

4. The fade vanishing

The fade vanishing configuration: including line wrap time, row blanking time, line control line break time, and the checkbox synchronization, users can adjust these parameters based on the selected chip.

Vanishing

Wrap time	Actual val(ns)	Row blanking time	Actual val(ns)	Row break time	Actual val(ns)	
20	160	20	2240	280	2240	<input checked="" type="checkbox"/> linkage ⓘ

Gamma Correction

Users can select "Default" or "Custom" to adjust the gamma value.

Gamma correction

☒ Default

Gamma value

2.80

Start Gamma

1

Gamma step

1

☐ Custom

Edit

5.Advanced setting

In the advanced setting interface, users can set parameters such as no signal, calibration mode, boot startup time, and boot startup mode, as shown in the following figure:

Advanced

No signal

Black screen

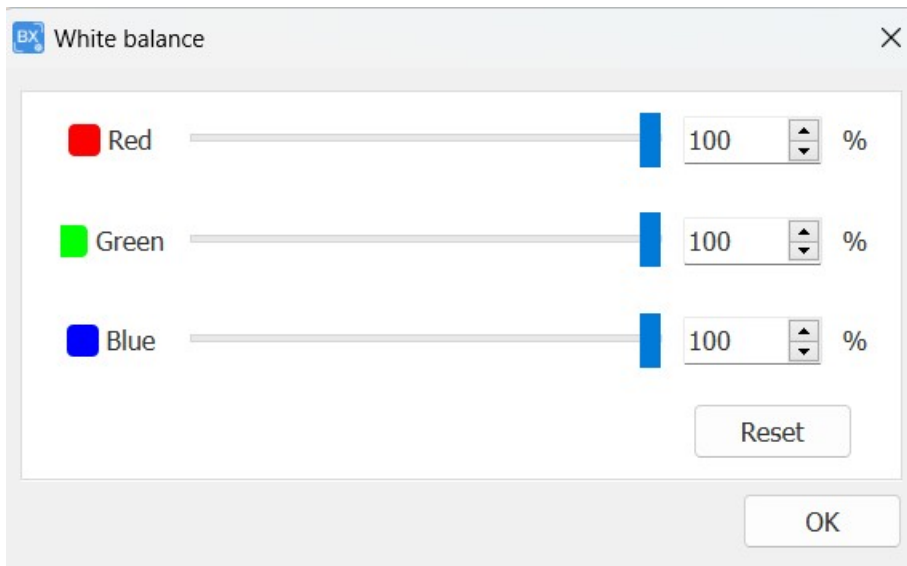
Calibration mode

Not enabled correction

More settings

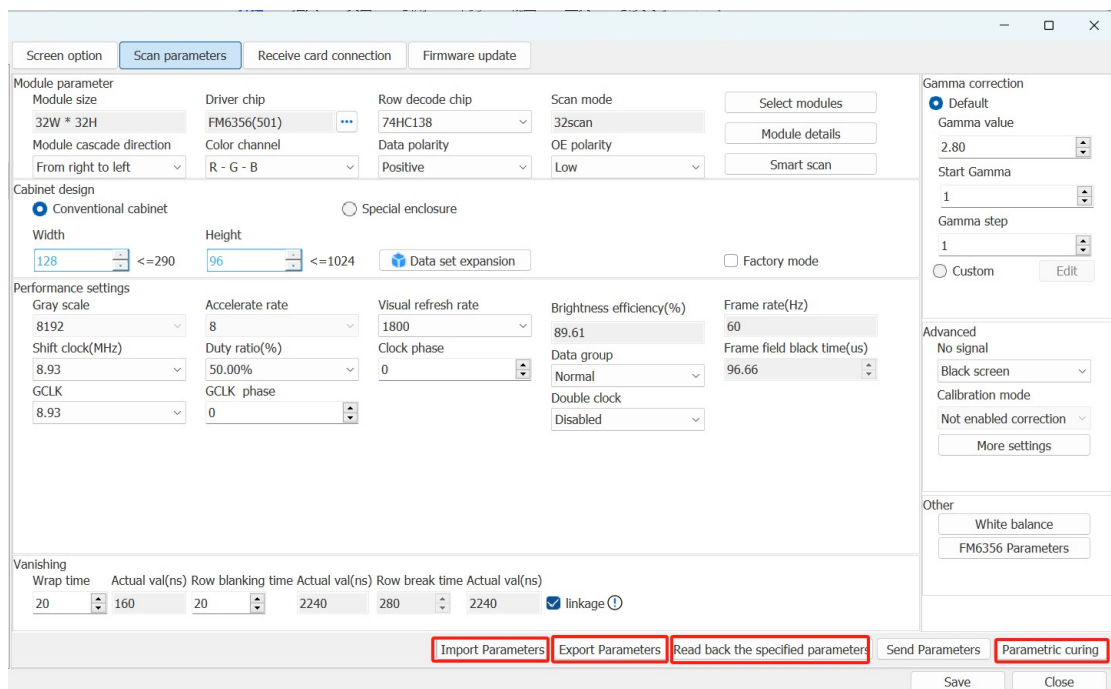
6. Adjusting White Balance

When the red, green, and blue signals output by the screen are equal, it is called white balance. When users want a certain color to be deeper, they can achieve this by modifying the percentage values under the "White Balance Adjustment" section for red, green, and blue. The larger the percentage value, the deeper that color will be.



Introduction to Scan Parameter Buttons

There are "Import Parameters", "Export Parameters", "Read back the specified Parameters", "Quick Send Parameters", "Send Parameters", and "Parameter curing" buttons at the bottom of the "Scan Parameter" interface, as shown in the figure below:



- Import Parameters: Import all parameters of the receiving card.
- Export Parameters: Export all parameters of the receiving card.
- Read Back Specified Parameters: Read back the specified parameters of the receiving card under the specified network port.
- Send Parameters to designated receiving cards: Only send performance parameters

and chip parameters, without the need to resend the receiving cards connection after modification.

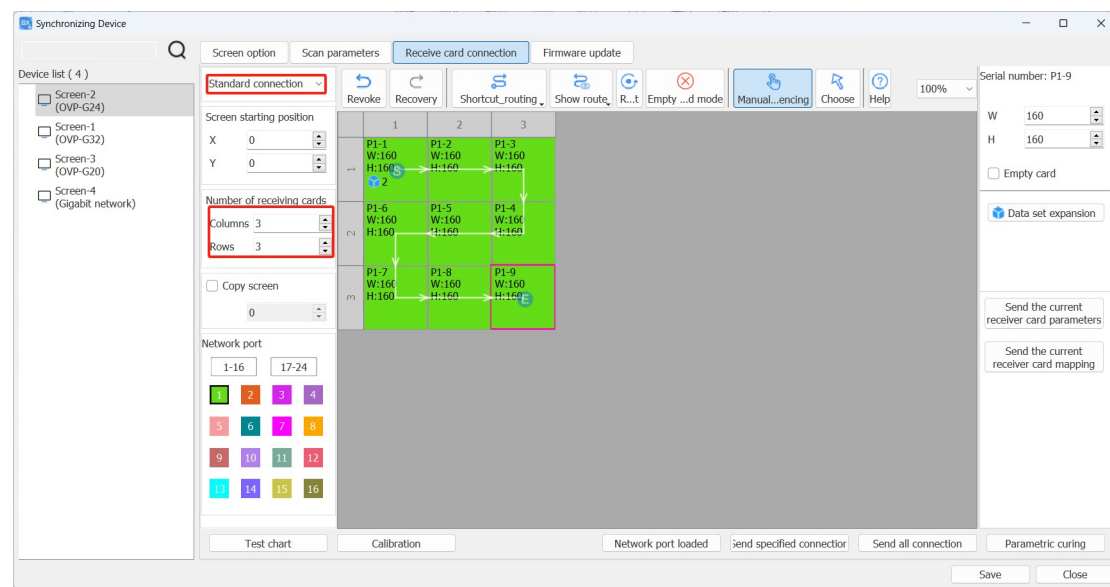
- Send Parameters to all receiving cards: Send all parameters of the receiving card.
- Parameter curing: Solidify the receiving card parameters, solidifying parameters makes it convenient to read back parameters when used next, it is recommended to solidify the receiving card parameters and connection debugging after normal use.

3.6.3 Receiving card connection

3.5.3.1 Standard connection

1. Click “Receiving Card Connection” to enter the receiving card connection interface. Users can set the number of receiving cards in the horizontal and vertical directions according to the actual situation.

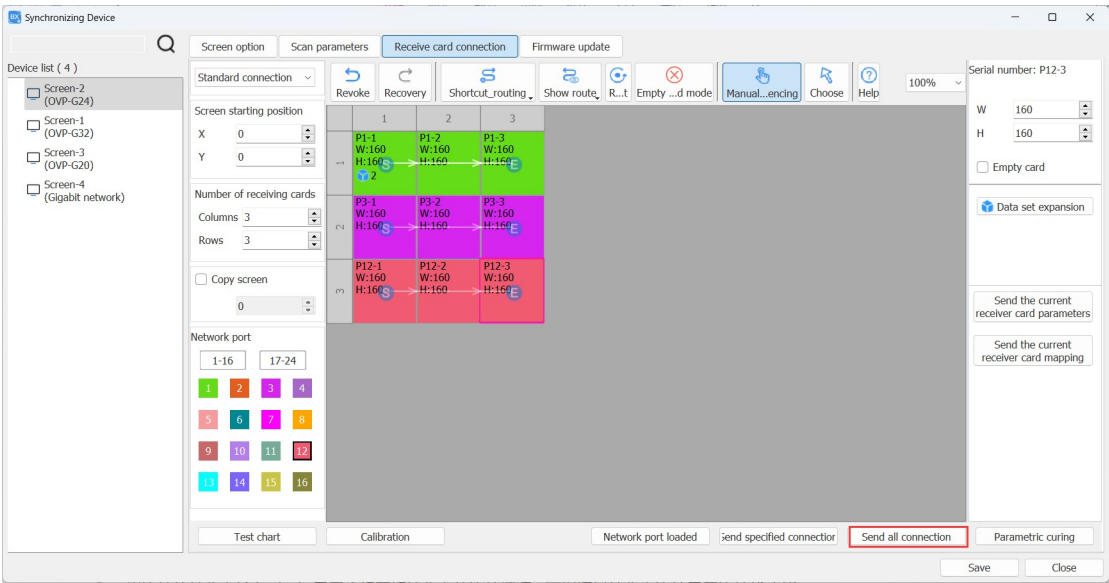
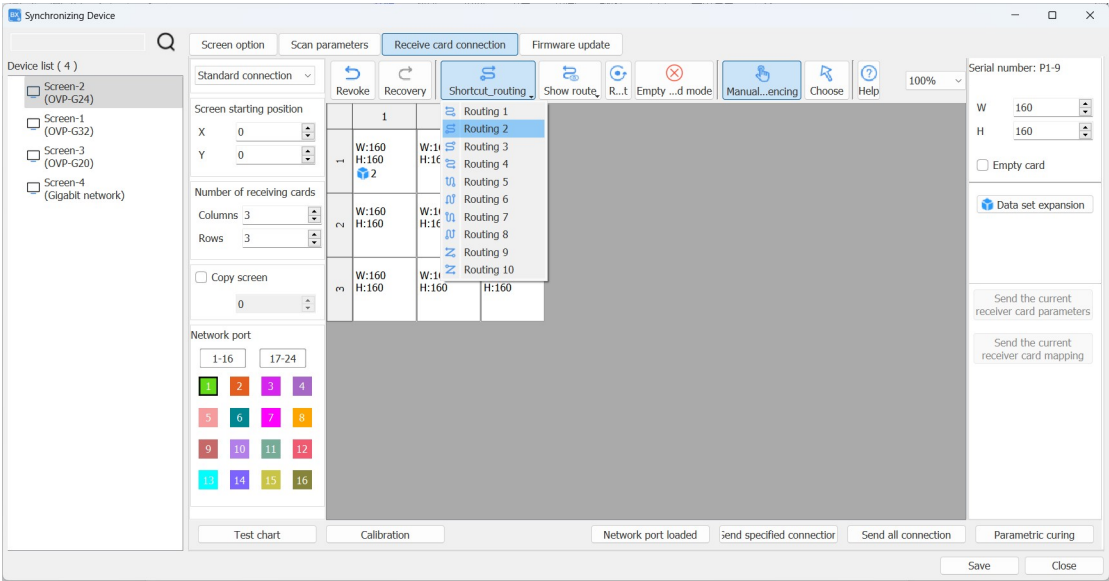
The default connection method is: standard connection, as shown in the figure below



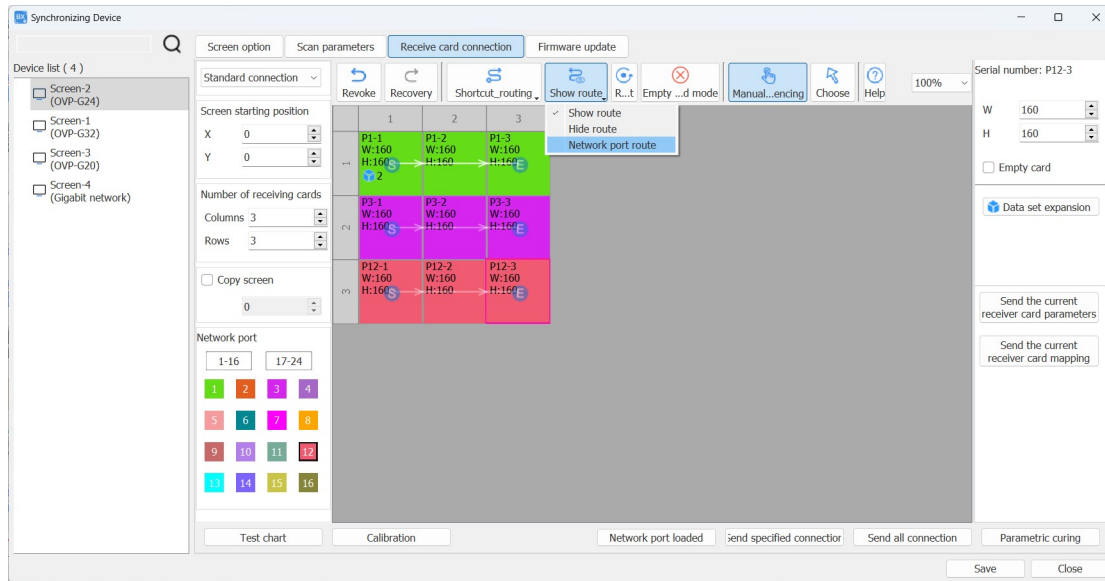
Set the width and height of the receiving card according to the actual width and height of the LED screen connected to the receiving card, and set the connection method of the receiving card.

For example, click “Connection 3”, hold down the left mouse button, drag the mouse above the receiving card connection diagram to select all receiving cards to complete the configuration of the connection method, and finally click “Send

Selected Connections” or “Send All Connections” to complete the configuration of the receiving card connection, as shown in the figure below.

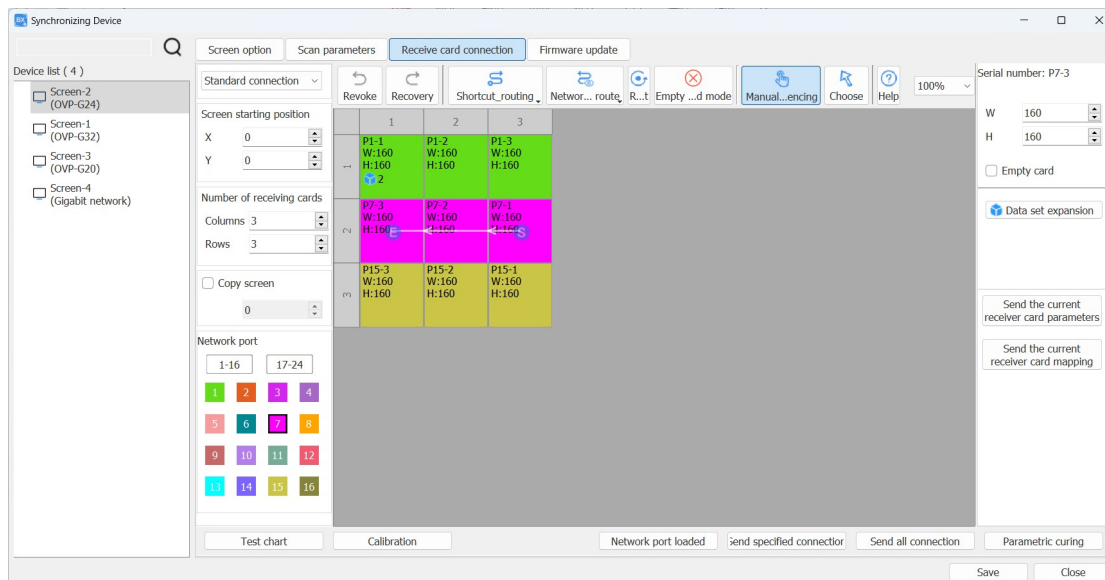


3. When there are multiple receiving cards connected, if the user wants to know the connection status of the receiving cards, they can view it through the receiving card connection display cable function. As shown in the figure below



















4. Display the cable of a single network port

When there are multiple network ports connected and the user wants to view the cable of a specific network port, first click on the “Network Ports” tab to select the network port to be viewed and then click on the “Display the cable of a single network port” icon to view the cable of the specified network port. For example, if we want to view the cable of network port 7, as shown in the figure below



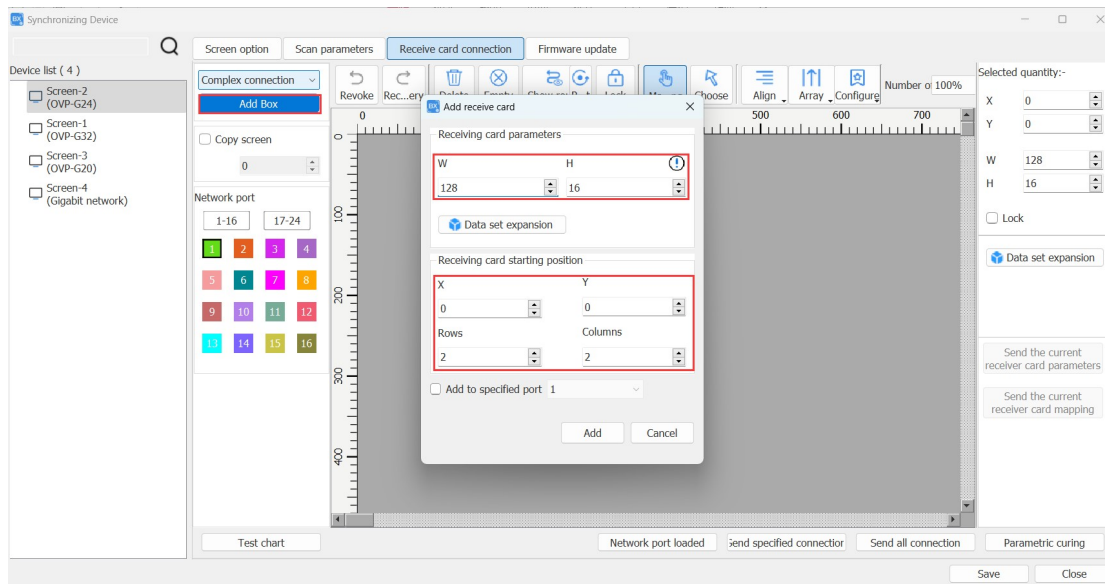
1.Introduction to the Toolbar

-  : Click the "Undo" icon to undo the previous operation
-  : Click the "Restore" icon to restore the previous operation.
-  : Click the "Delete" icon to delete the selected receiving card.
-  : Click the "Clear" icon to clear all the receiving cards.
-  : Click the "Wiring" icon to connect each box in each interface.
-  : Click the "Select" icon, and the "Route" icon will not be selected. now, clicking the box in the interface will not perform routing connections, It is convenient to view the properties of the box
-  : Click the "Align Right" icon to align all selected boxes to the right.
-  : Click the "Left Alignment" icon to align all selected boxes to the left.
-  : Click the "Bottom Alignment" icon to align all selected boxes at the bottom by clicking the left mouse button.
-  : Click the "Top Alignment" icon to align all selected boxes at the top.
-  : Click the "Paste Arrangement" icon to arrange all selected boxes in a paste arrangement by clicking the left mouse button.
-  : Click the "Arrange Below" icon to arrange all selected boxes below the mouse click.
-  : Click the "Arrange Left" icon to arrange all selected boxes by clicking the left mouse button in the left order.
-  : Click the "Arrange Right" icon to arrange all selected boxes in the order of their right-side placement.
-  : Click the "Reset" icon to clear all received card connections and reset them.
-  : Click the drop-down list and select the percentage displayed on the interface.
For example, when there are many boxes, you can select 30% to view all the boxes.

2. Add a box

Click the "Add Box" icon to enter the "Add receiving Card" interface. Since this is a complex connection method, the width and height of the receiving card here cannot be modified. The user can modify the starting position of the rows and columns of the receiving card, the number of rows of the receiving card, the number of columns of the receiving card, and add a specified network port.

After the settings are complete, click "Add" to complete the box addition, as shown in the figure below.

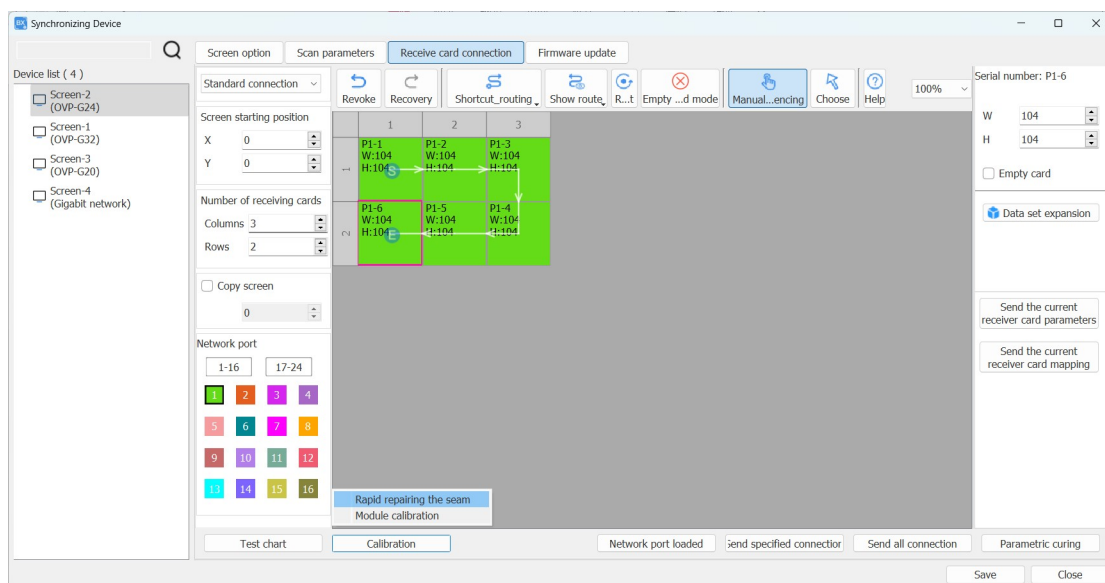


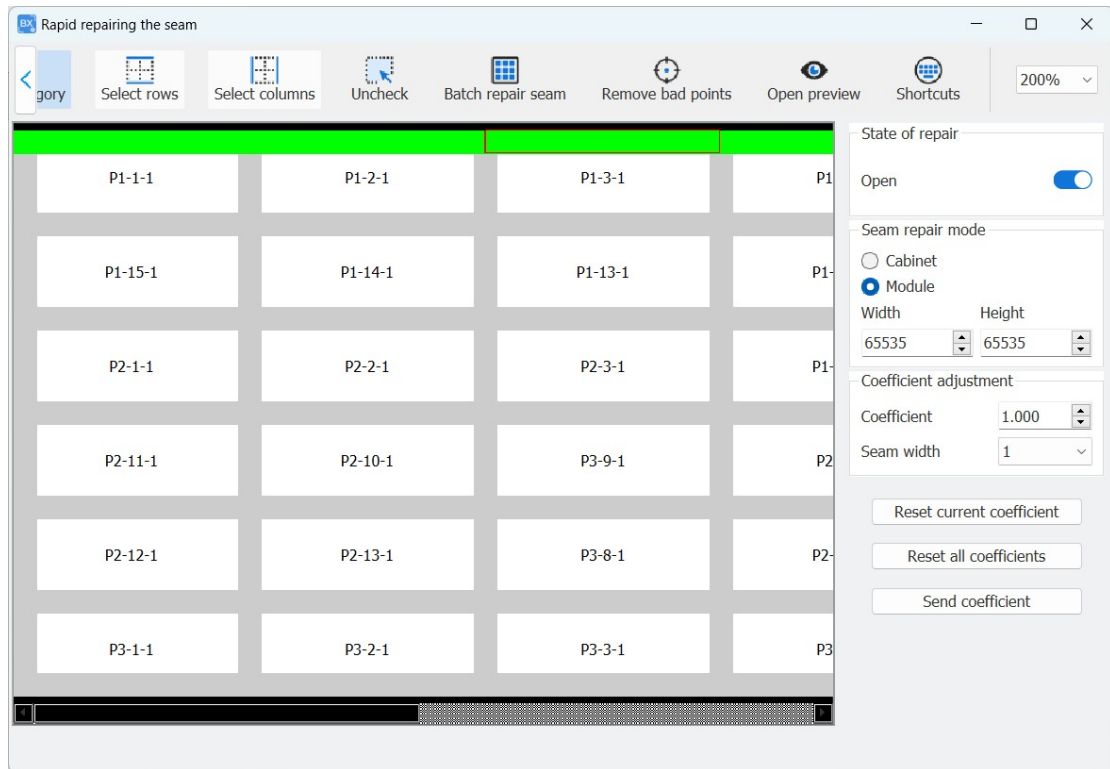
3.5.3.4 Quick seam

In “Standard connection” mode, click “Rapid mapping the seam” at the bottom of the interface to enter the quick seam interface.

The Rapid mapping the seam function is used to refine the gaps between modules. In the “Rapid mapping the seam” interface, users can optimize the gaps between modules by adjusting the coefficient or seam width.

After the settings are complete, click “Send coefficient”. As shown below





3.5.3.5 Network port load

Click “Network port load” at the bottom of the interface to enter the network port load interface, where users can see the network port load status of the connected video controller as shown in the figure below.

Network port loaded					
Device		Loaded state			Total load
OVP-G24		1920 x 624			7.62%
Network por	X	Y	W	H	Load
1	0	0	728	312	34.66%
2	0	208	728	312	34.66%
3	0	312	728	312	34.66%
4	0	0	0	0	0.00%
5	0	0	0	0	0.00%
6	0	0	0	0	0.00%
7	0	0	0	0	0.00%
8	0	0	0	0	0.00%
9	0	0	0	0	0.00%
10	0	0	0	0	0.00%
Please try to control the network port load in the recommended band load points, beyond this range, the network port may flicker abnormal!					
Current device network interface configuration:Automatic allocation					Close

3.5.3.6 Send all connections

Click “Send all connections” at the bottom of the interface to enter the Send/receiving Card interface, and users can select “All receiving cards on current screen” or “Specified receiving card on current screen”.

Select ‘All receiving cards on current screen’ and directly click ‘Send’.

Select ‘Specified receiving card on current screen’. If the user has connected multiple receiving cards and one of them malfunctions and needs to be replaced, this function can be used to easily replace the receiver card.

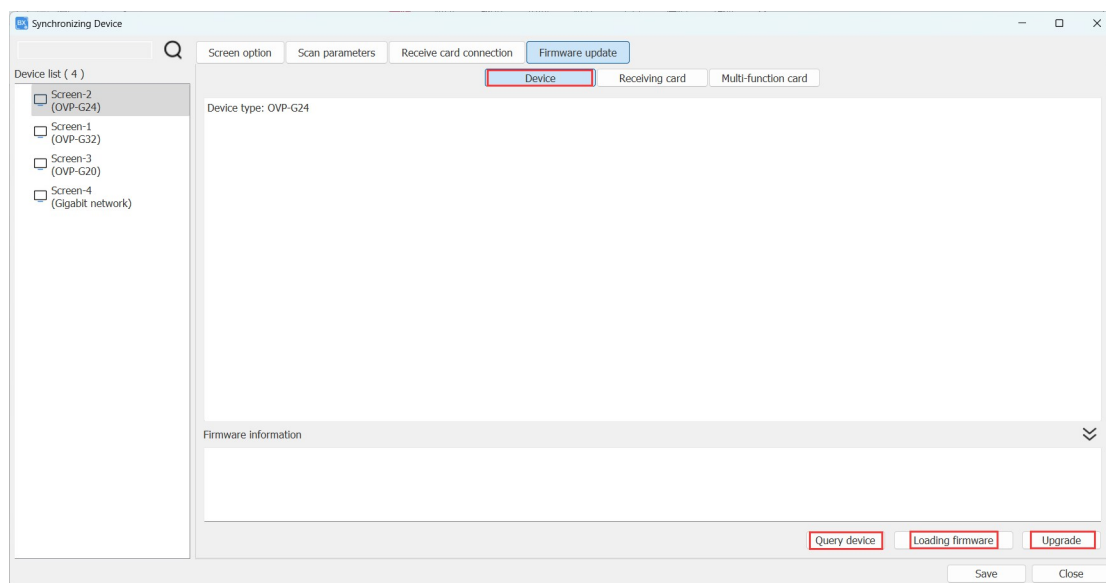
On the “Send Receiving Card” screen, select the receiver card to be replaced according to the position of the receiver card connected to the LED screen, and directly click“Send” to load the screen parameters directly to this receiver card, completing the operation of replacing the receiver card. As shown in the figure below.

3.7. Firmware Upgrade

In order to ensure that the software version in the sending device matches the BXsetPro software, users can first perform the sending device firmware maintenance.

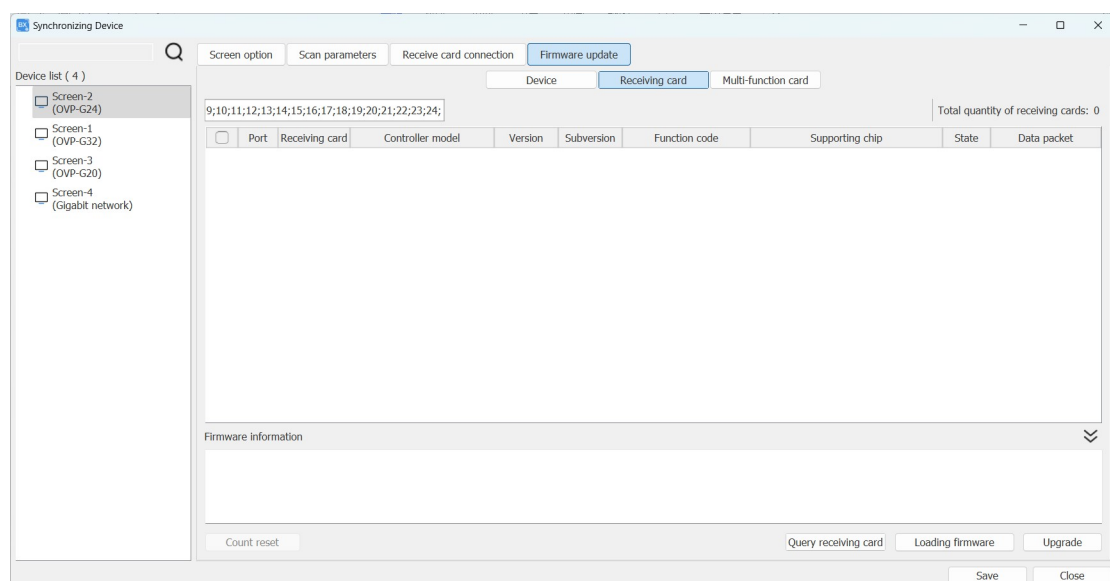
3.7.1 Device firmware upgrade

In “Firmware Upgrade”, click “Device” and then click the “Search Device” button to find the connected device, as shown in the figure below.



3.7.2 Receiving card firmware upgrade

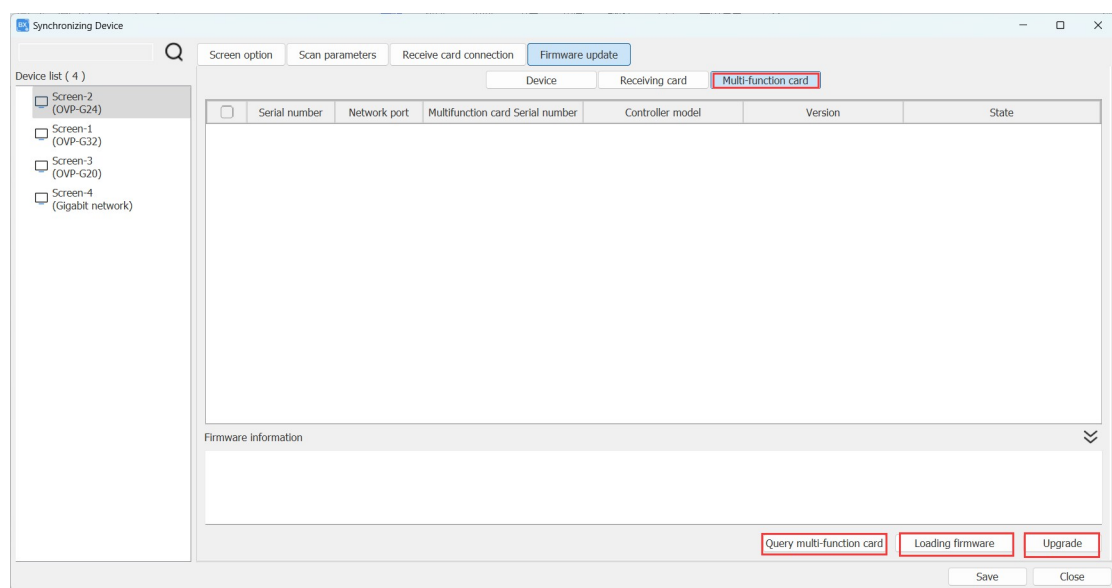
In “Firmware Upgrade”, click “Receiving Card” and then click the “Query Receiving Card” button to find the connected receive card, as shown in the figure below:



Then select “Load Firmware” , select the update program for the corresponding device, and finally click “Update” to complete the update of the device program.

3.7.3 Multifunction card firmware upgrade

In “Firmware Upgrade”, click “Multifunction Card” and then click the “Query Multifunction Card” button to find the connected multifunction card, as shown in the figure below. Then select “Load Firmware”, select the upgrade program for the corresponding device, and finally click “Upgrade” to complete the device program update.



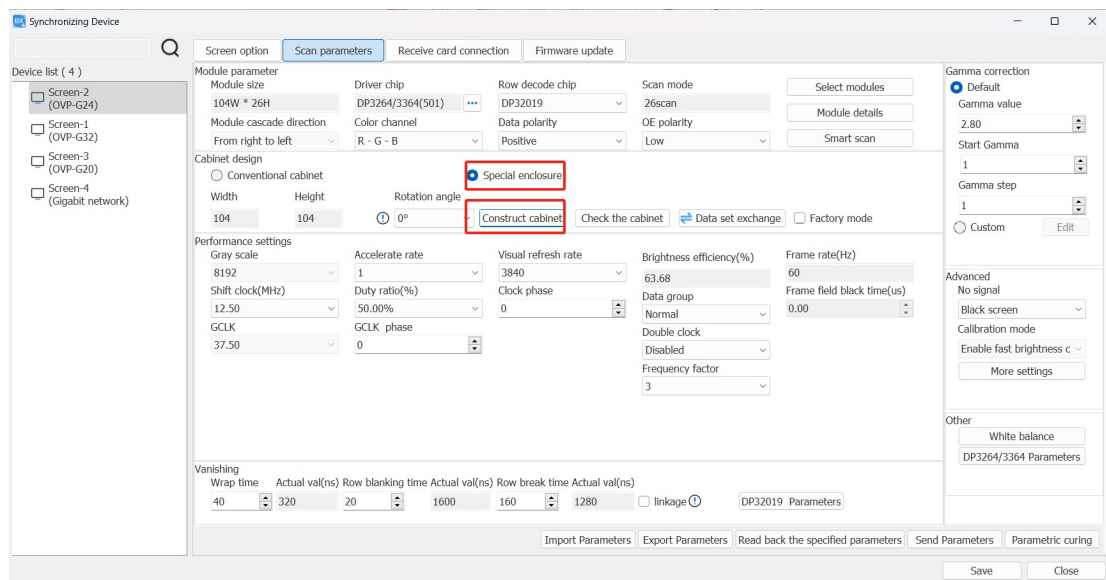
4. Special enclosure cabinet

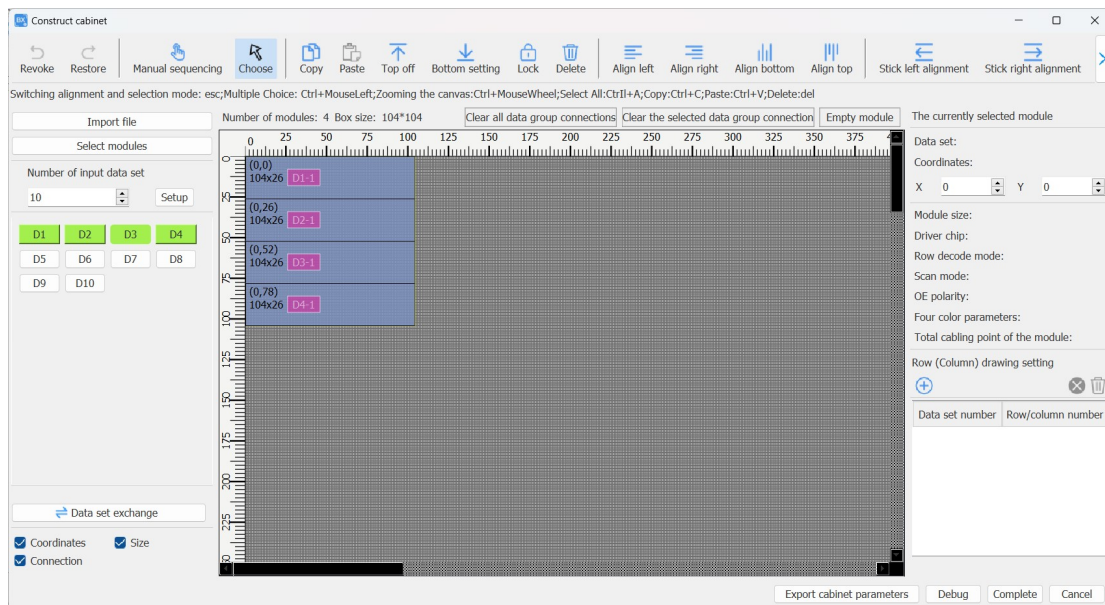
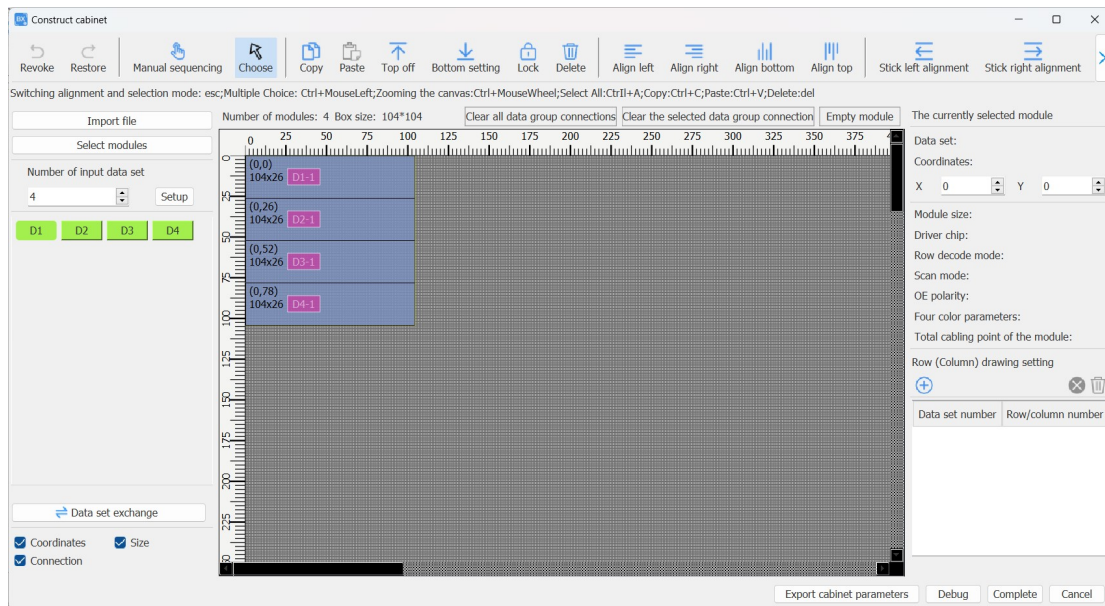
The **Special enclosure** allows the user to customize the arrangement of modules within the load range to obtain a cabinet.

- Supports importing modules with different widths and heights but the same chips and traces for splicing.
- Supports 128 groups of data when using a serial connection.
- Supports empty data groups.
- Supports rotating modules 180 degrees.

Basic usage of Special enclosure cabinets

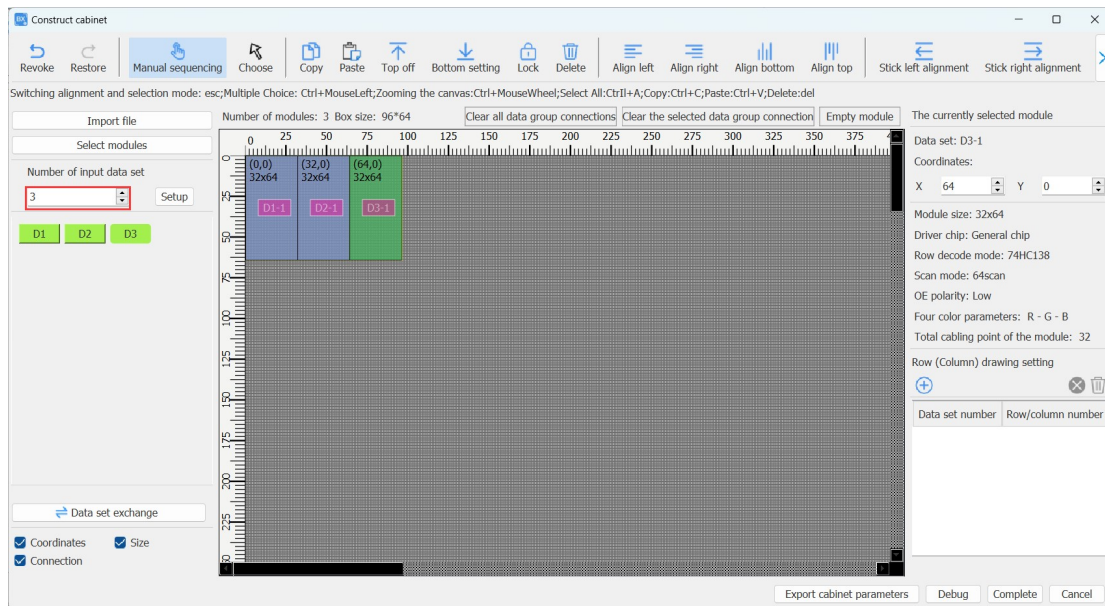
Step 1: In the “Scan Parameters” program, select “Special enclosure Box” and click “construct cabinet” to enter the editing interface.



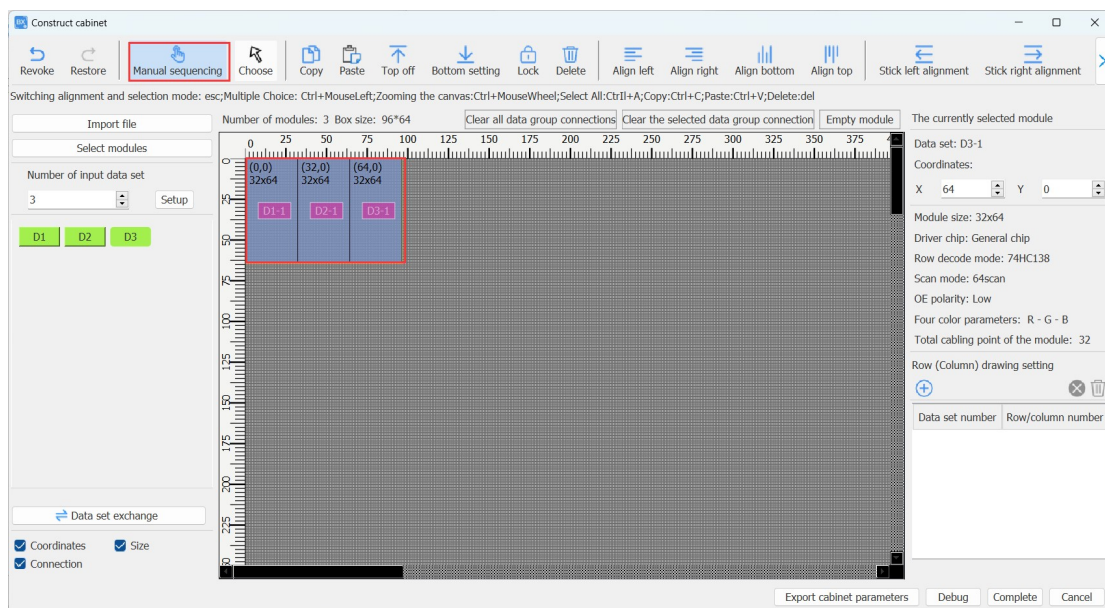


Step 2: Import the module file (. bxmodule) or use the software's built-in parameter file. If the current module file is already correct, users can edit it directly .

Step 3: Set the number of data groups

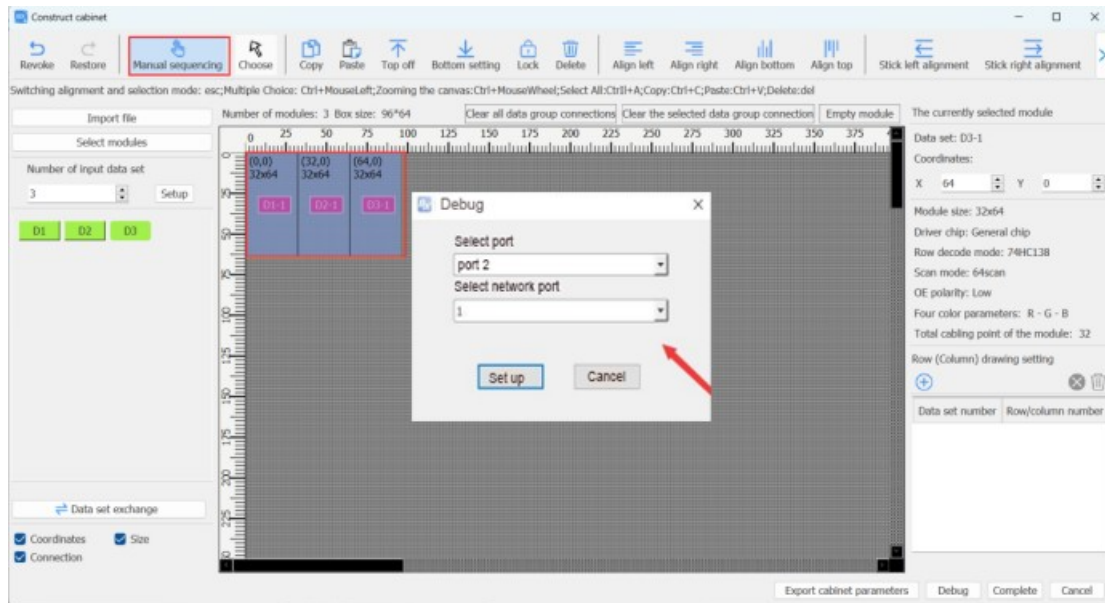


Step 4: Set up the module connection and select the “manual sequencing” mode in the toolbar.



Step 5: Click “Debug”. Debug can send the currently edited parameters to a card on the specified network port to view the display effect.

Note: The debug function requires an actually connected receiver card to be used.



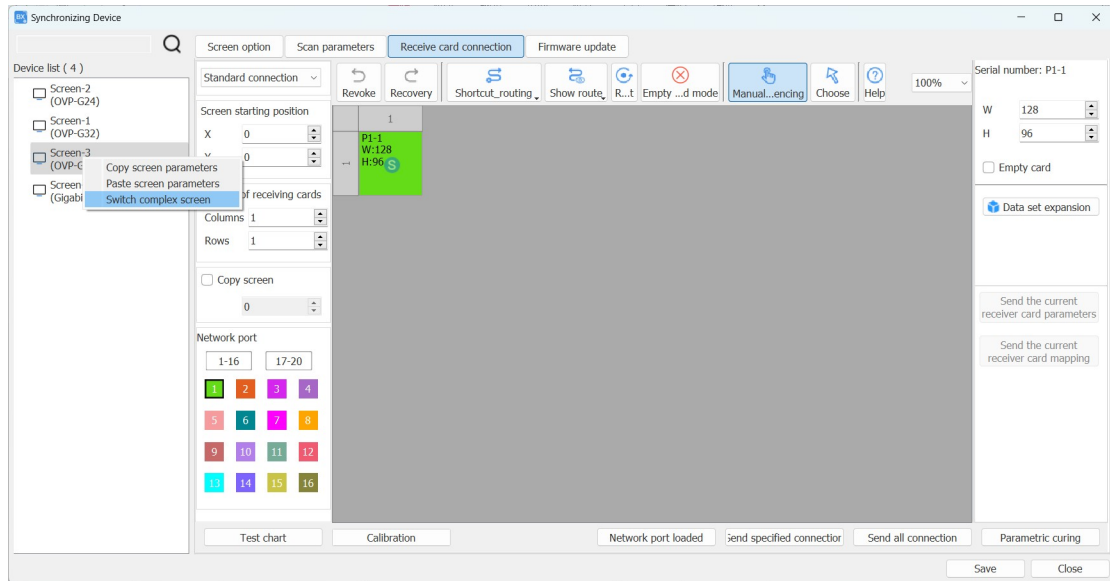
Step 6: If the debugging display effect is normal, users can click the “complete” button to return to the “Scan Parameters” screen, and click the “Send Parameters” button to send it to all receiving cards.

5. Complex screen adjustment

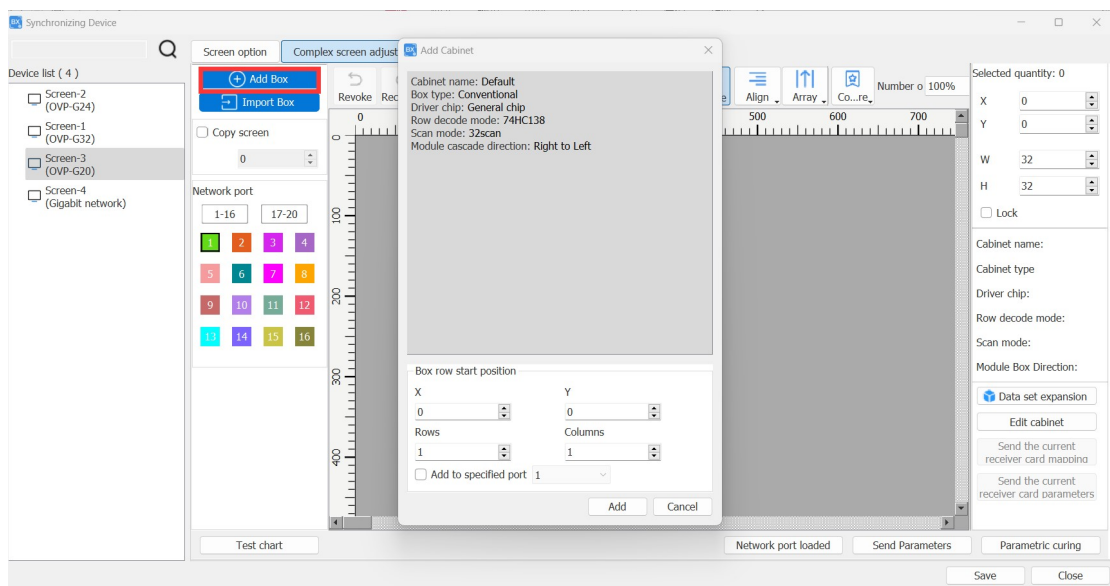
Complex screen adjustment is a mode developed for debugging irregular screen scenarios, which can quickly and intuitively complete the connection and configuration of any cabinet.

Basic steps for using complex screen adjustment

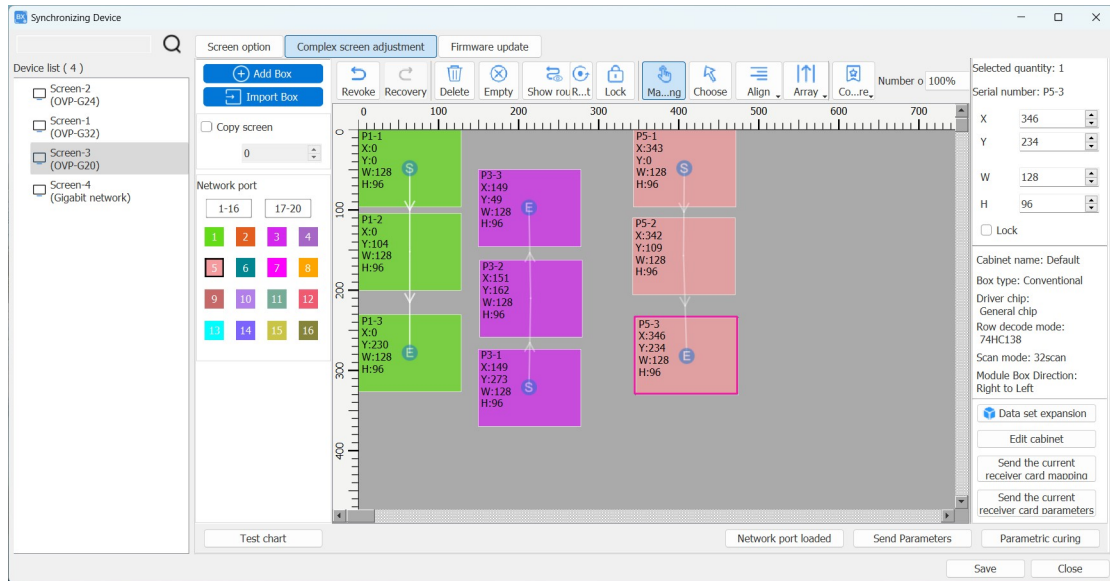
Step 1: When there is no split screen, right-click the screen and select ‘Switch to complex screen adjustment’. When there is a split screen, right-click the screen and select “Switch to complex screen adjustment”



Step 2: Add a box. If users already have a box file (.bxbbox), users can choose “Import box” and if not, users can choose “Add box” .

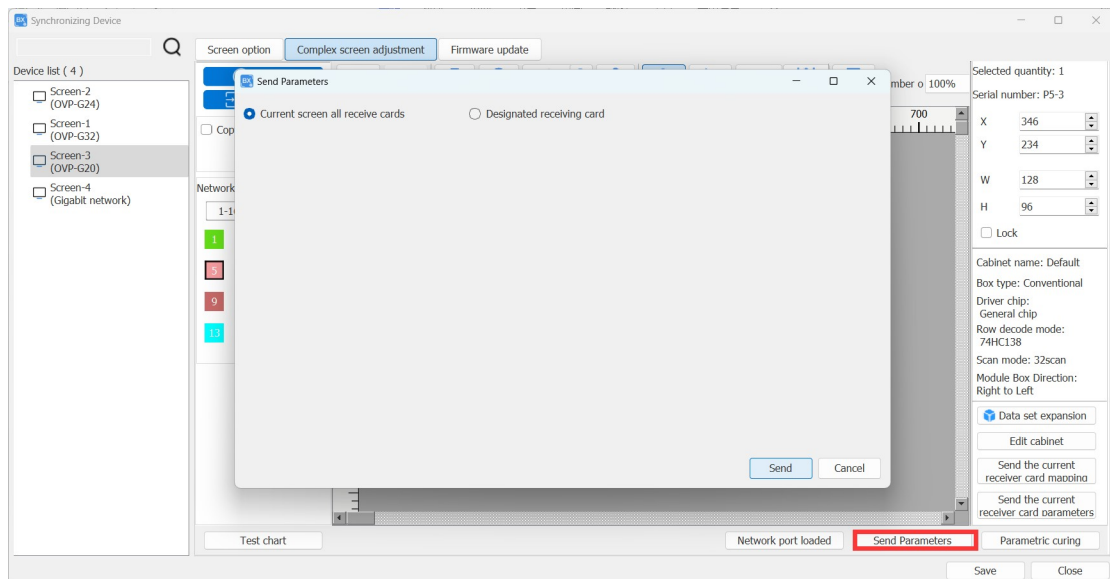


Step 3: Set the routing of the receiving card. The currently selected cabinet properties can be seen in the right attribute area.

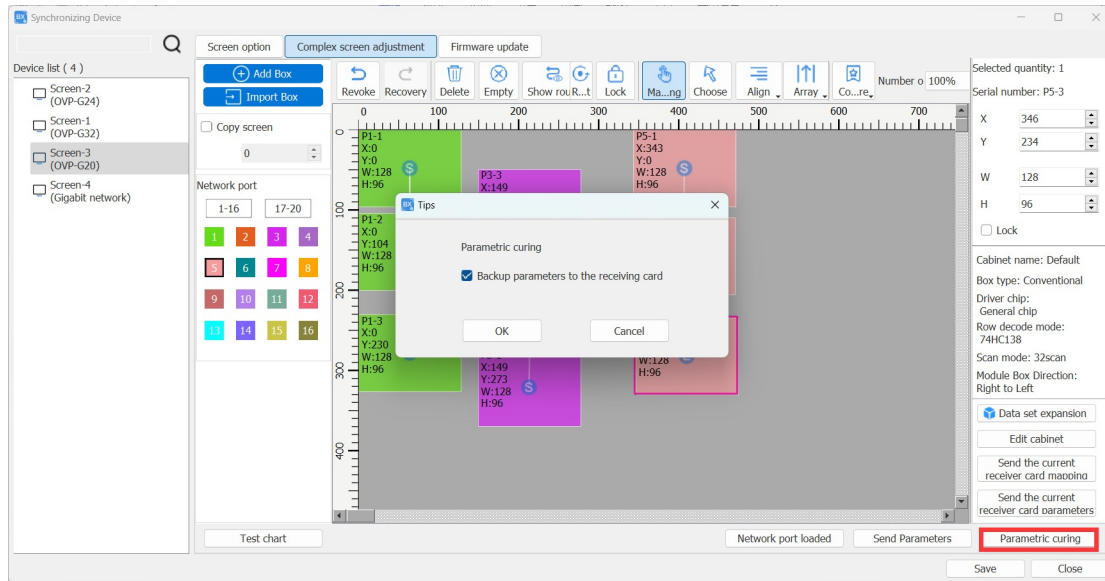


Step 4: Send parameters and parametric curing.

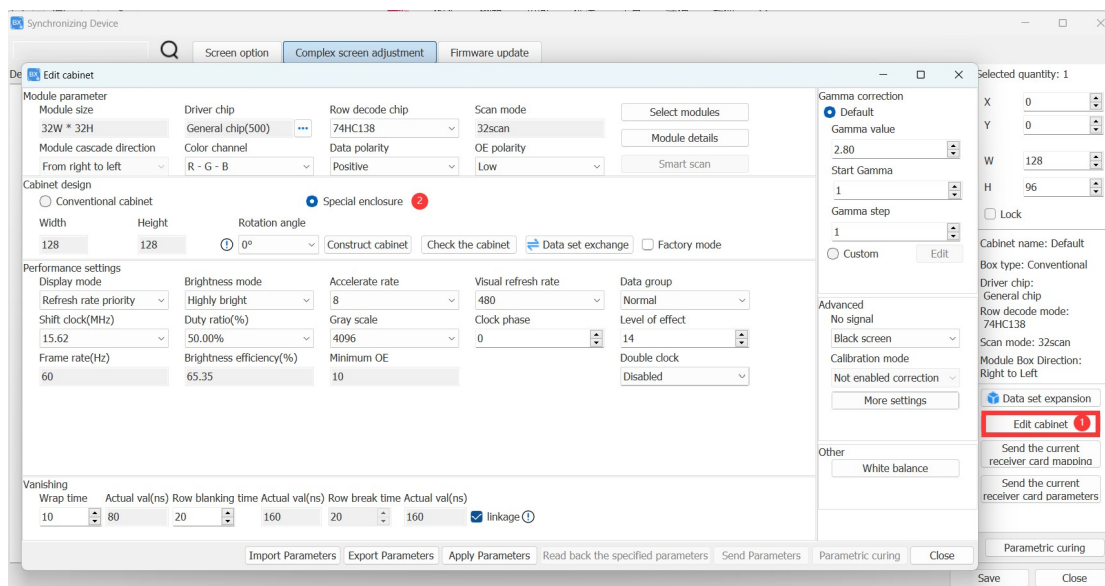
Click the “Send parameters” button, and by default, all receiver card data will be sent.

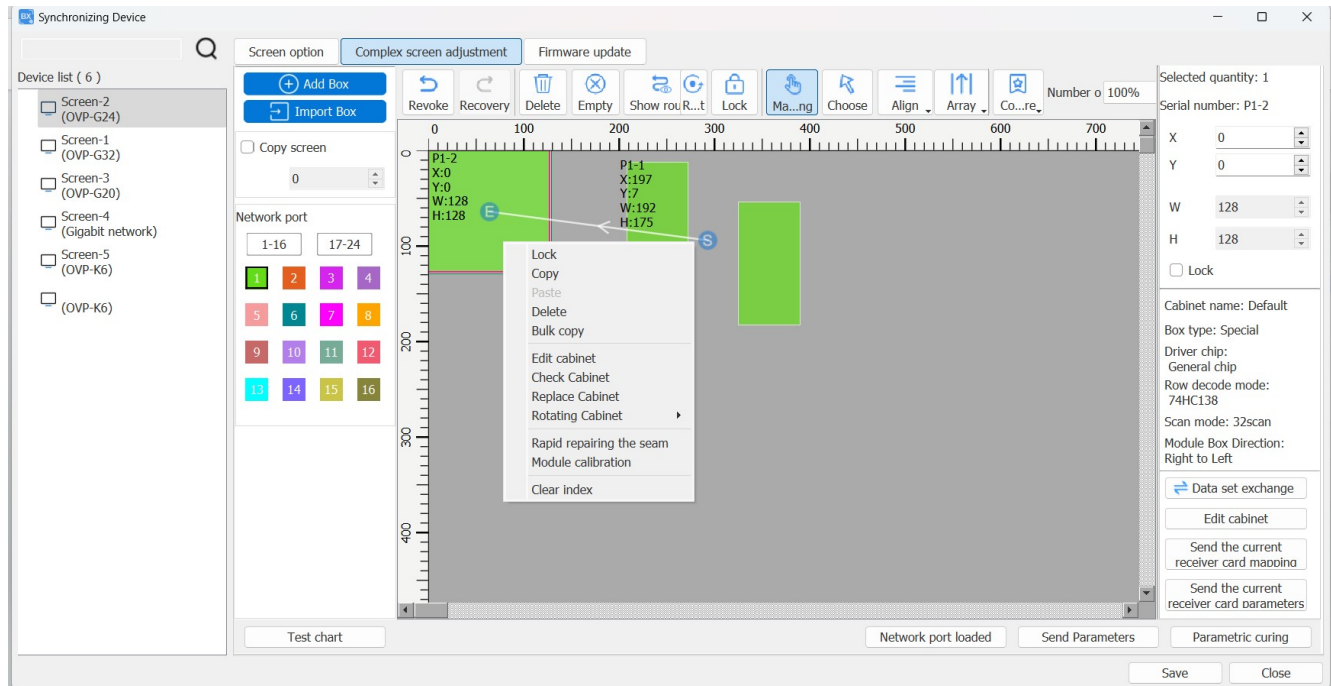


Click the “Parametric curing” button to parametric curing .



Edit cabinet: supports the modification of the parameters of a cabinet then send parameters





Check cabinet: view cabinet attributes such as “width” , “height” , “drive chip” , “line decoding chip” , and “scanning method

Replace cabinet: if the current cabinet parameters are incorrect, you can import the correct ones to replace the current cabinet

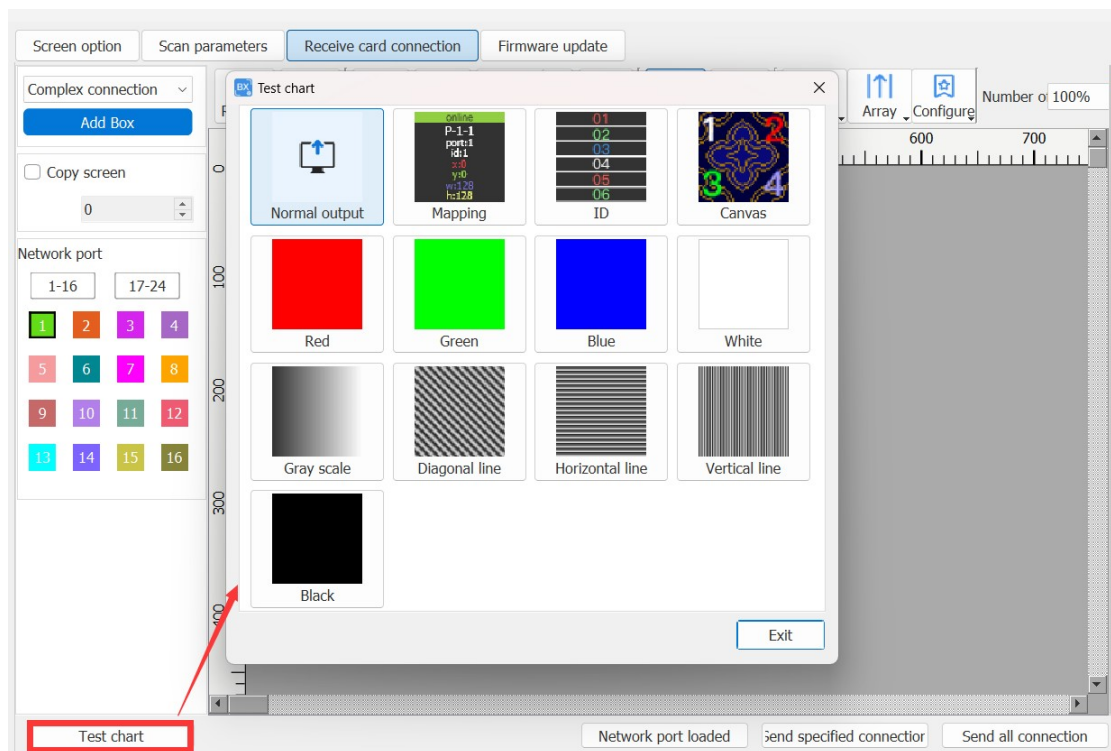
Cabinet rotation: rotate the cabinet by 90, 180, or 270 degrees

Rapid repairing the seam: supports quick repair of individual cabinets

6 Test chart

Receiving card test chart

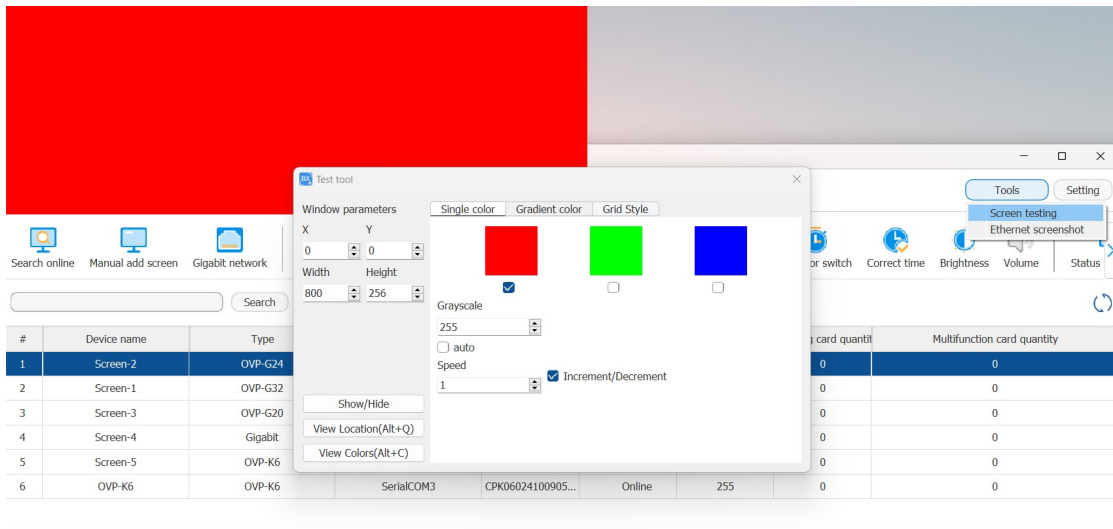
Step 1: On the receiving card connection interface, click the “Test chart” button to select the test pattern.



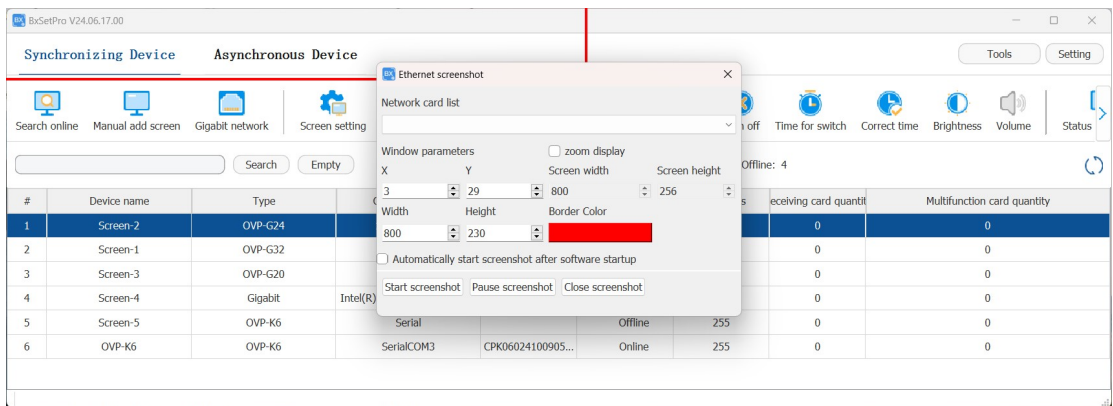
Step 2: Using the “mapping” test map, users can see the receiving card connection and the corresponding network port number.



6.2 Screen test



6.3. Gigabit Ethernet capture

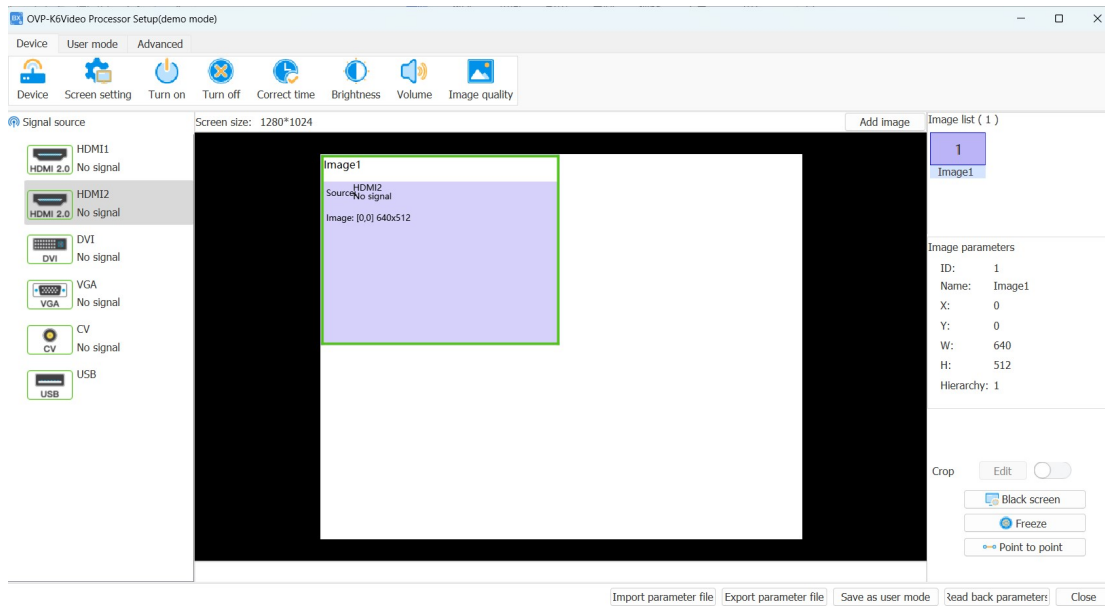


7. Video processor settings

Step 1: Click the “Video Processor Settings” button.

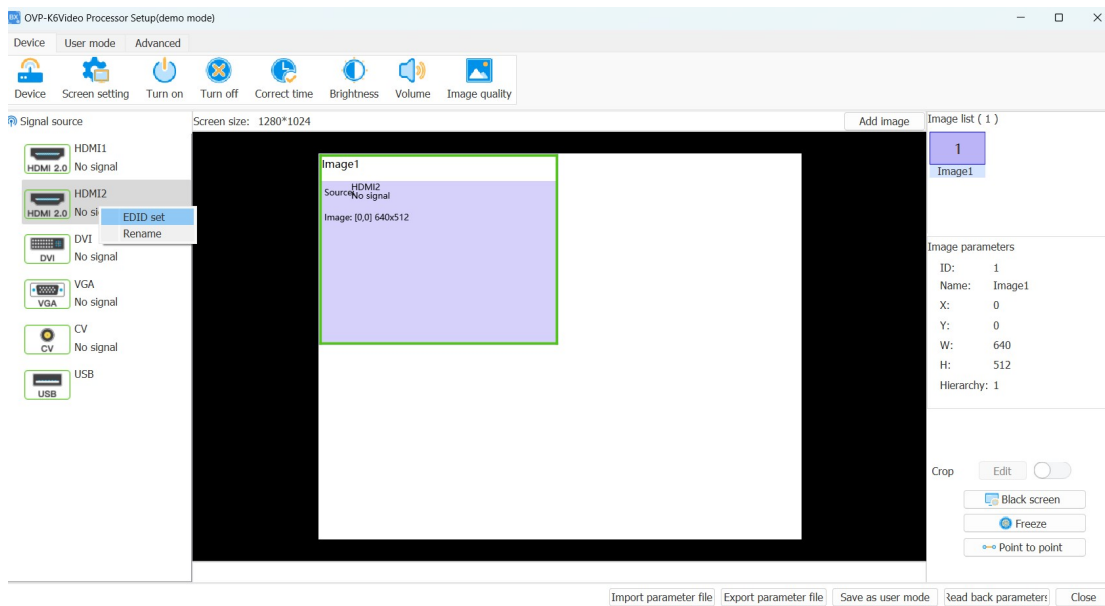
Step 2: If the device is online, you can select “Online Mode”. If the device is offline, you can select “Demo Mode”.

Step 3: Enter the password “888” to access the configuration interface.

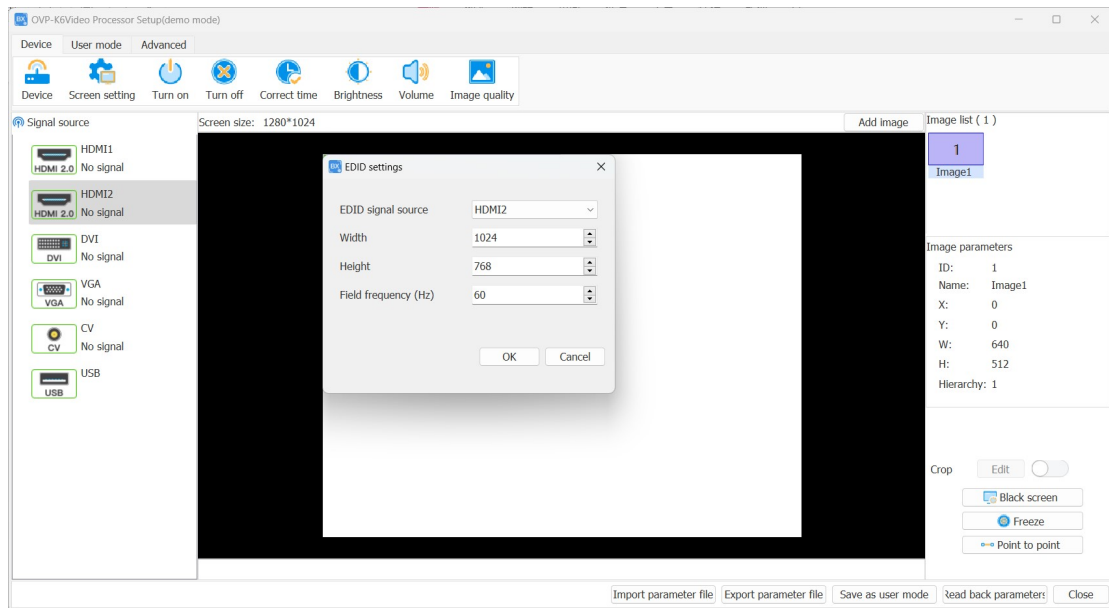


7.1 Source EDID settings

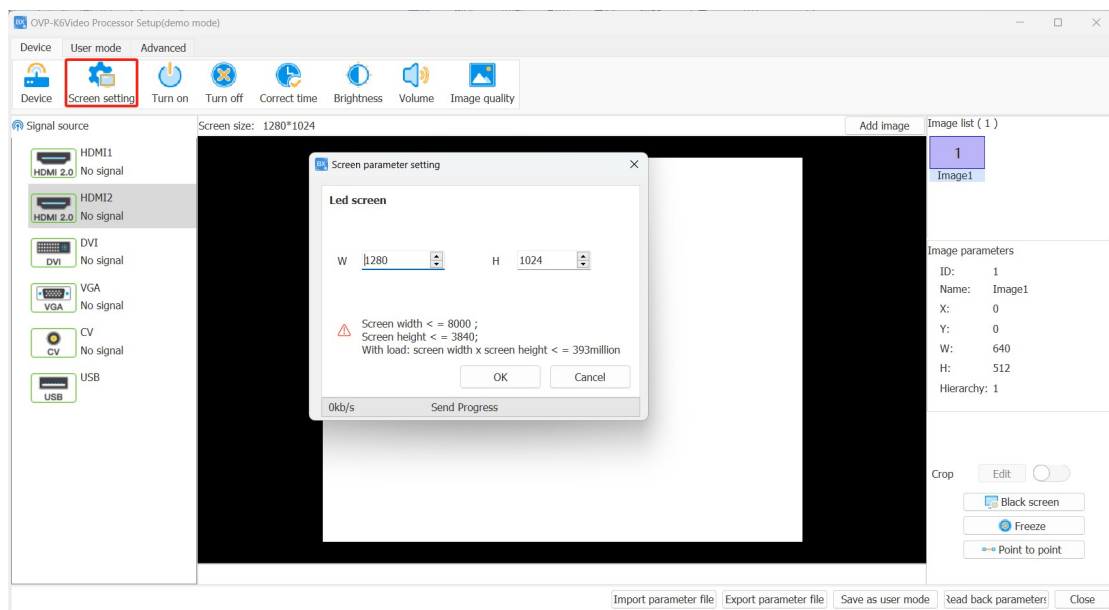
Step 1 Click on the source, right-click



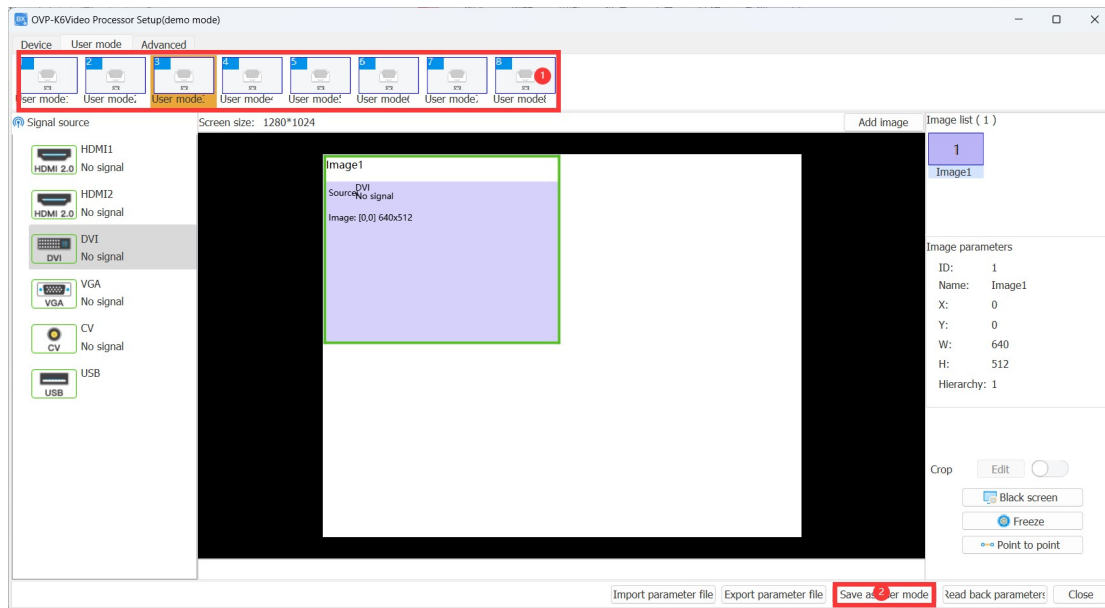
Step 2 Click “EDID” settings



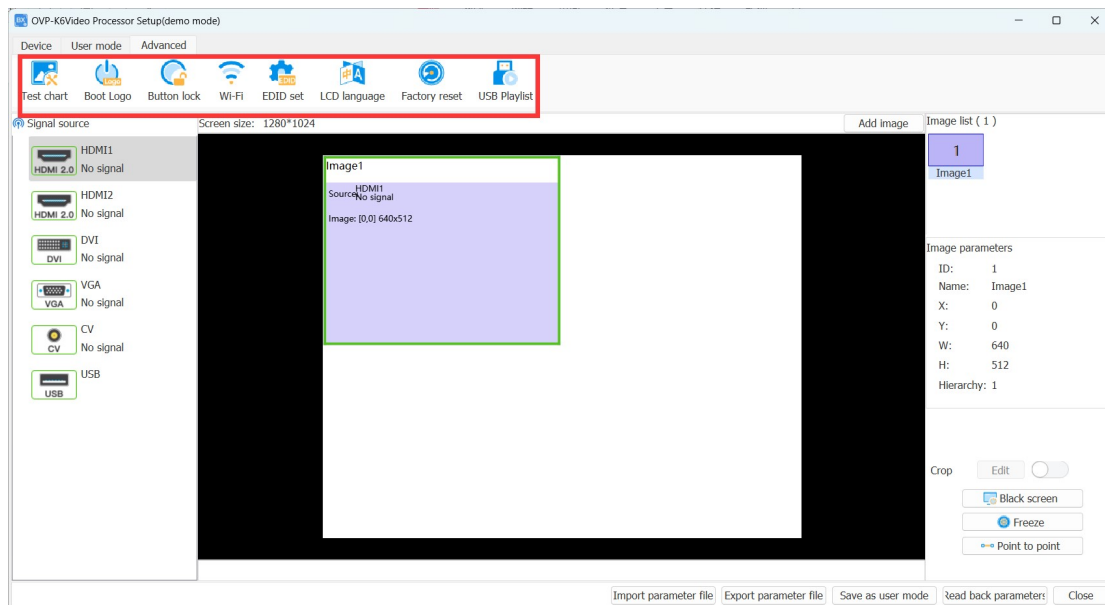
7.2 set screen parameter



7.3 user mode



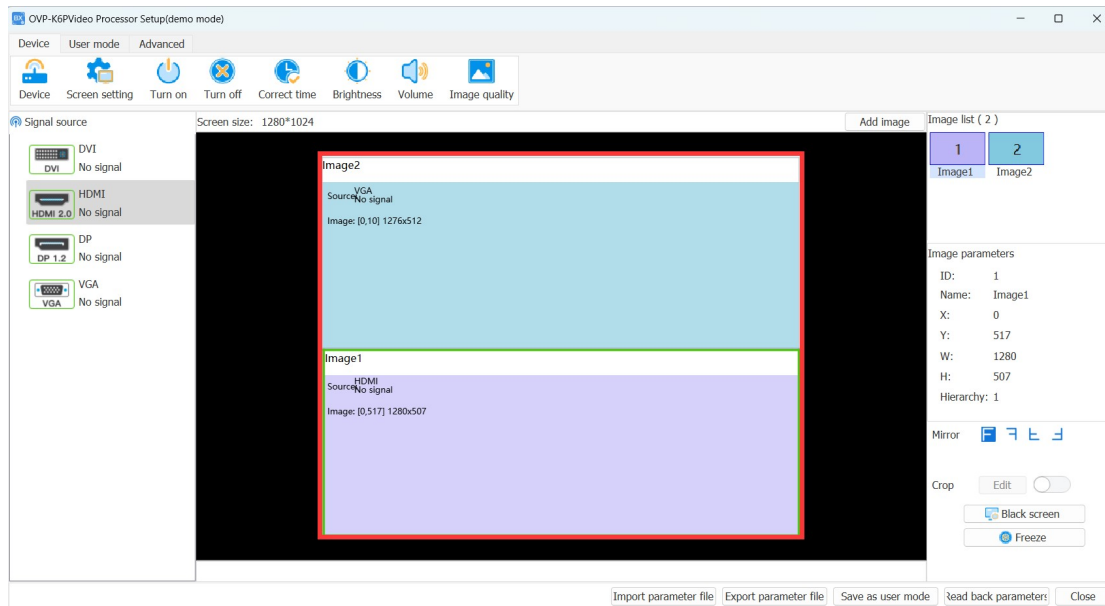
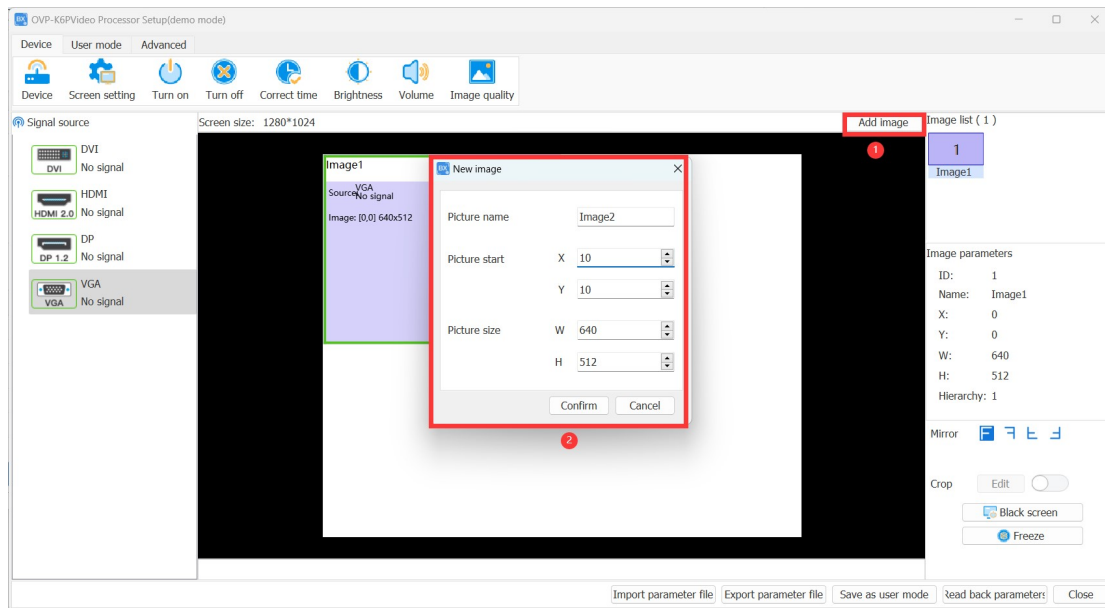
Advance function



7.5 Add image

Step 1 Click the “Add image” button

Step 2 Edit screen parameters, support dragging windows within the interface

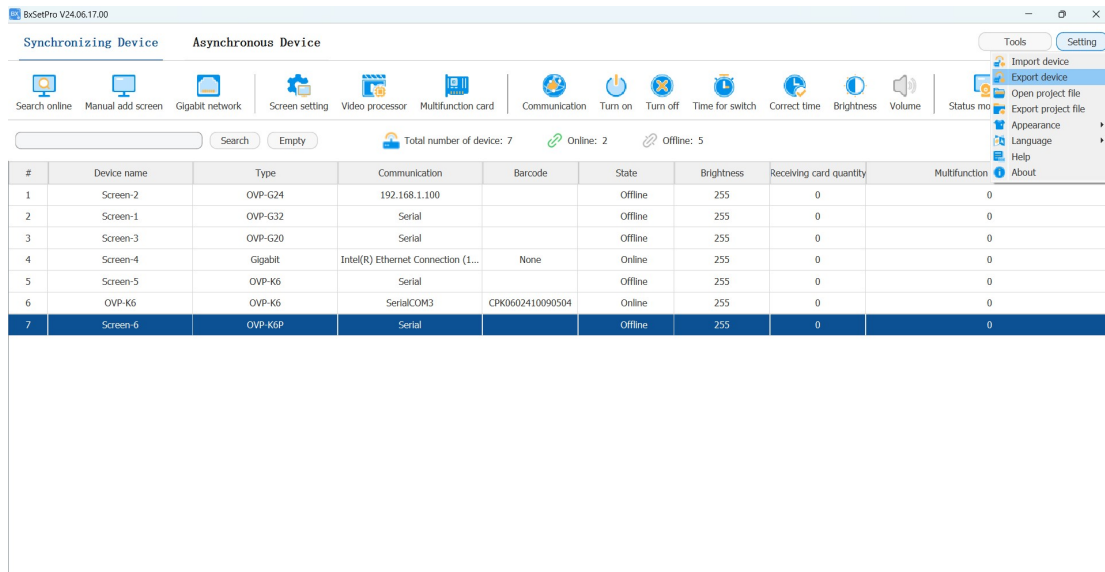


8. Parameter files

8.1 Project file, device parameter file import and export

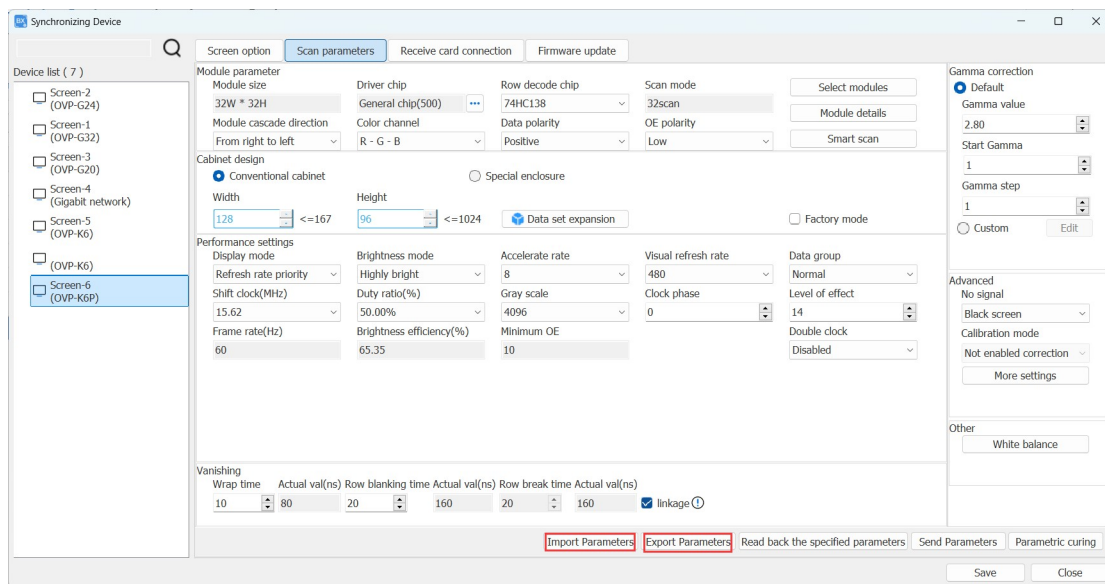
Project file (.bxproject): packages all synchronous and asynchronous devices in the current project

Device parameter file (.bxdevicex): parameter file for a single device



8.2 import and export Cabinet parameter file

Note: The cabinet parameters do not include the connection parameters for the receiver card. If you need to connect the receiver card, please use the appliance parameter file.

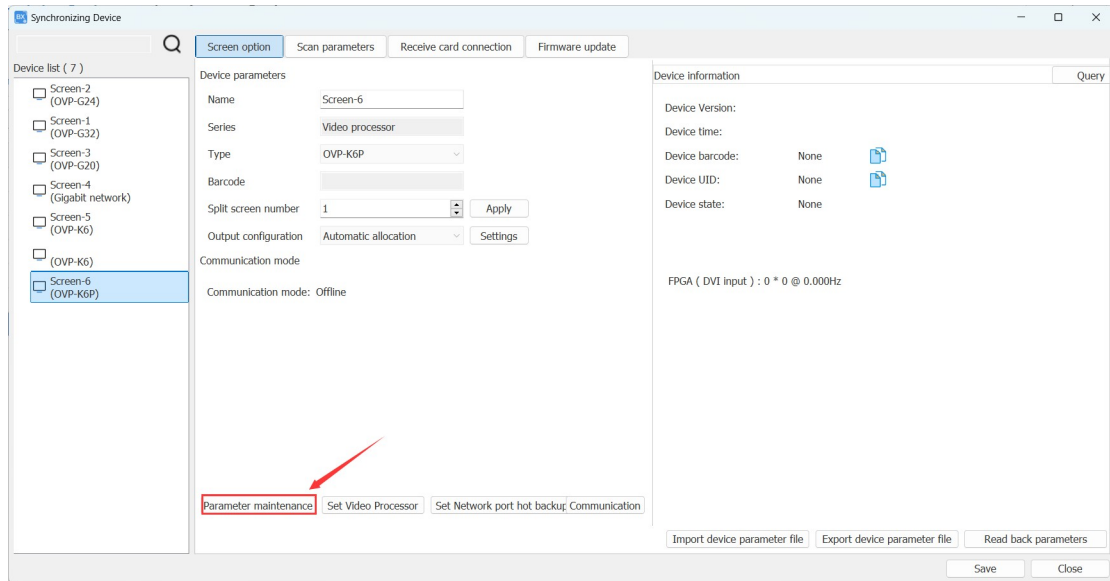


9. Device parameter file maintenance

Note: This function is only supported by some video processors and requires the use of the corresponding receiving card. For details, please consult the office or technical support.

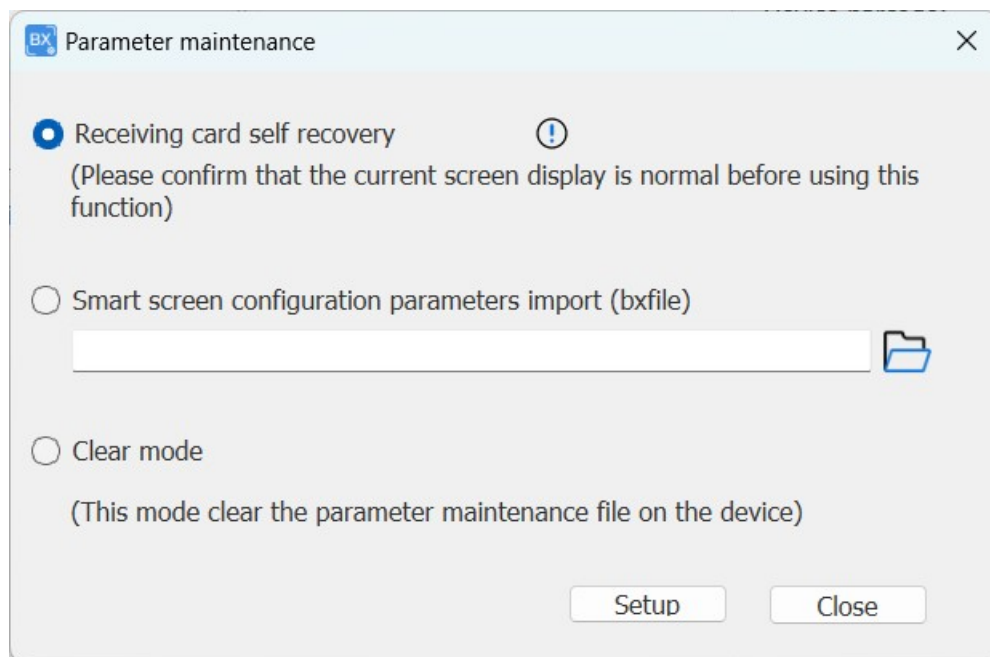
9.1 Self-recovery of receiving card parameters

Step 1: On the "Screen Information" screen, click "Parameter Maintenance"



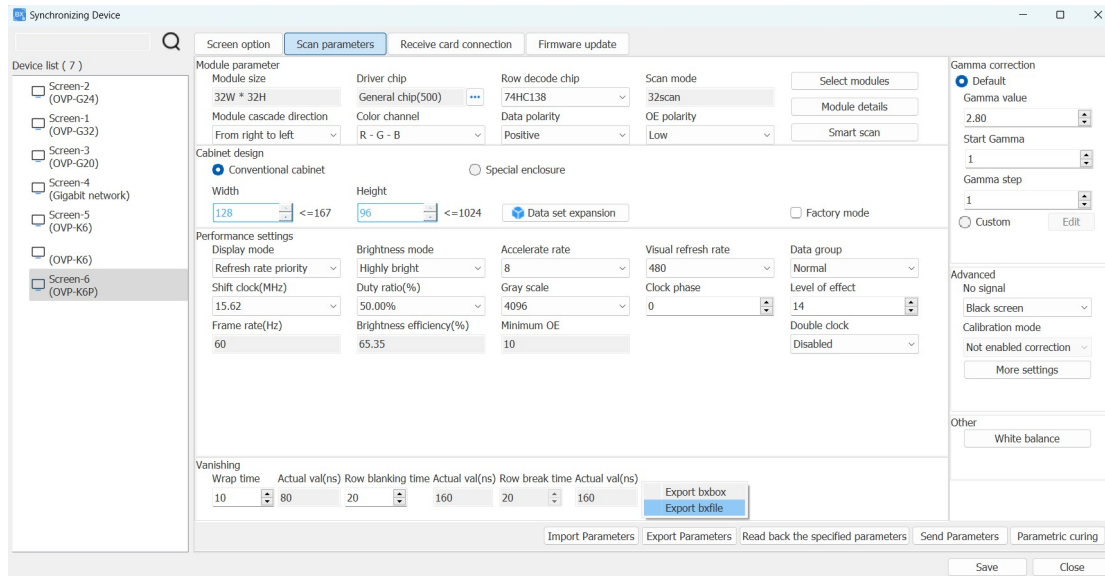
Step 2: On the parameter maintenance screen, select “Receive card self-recovery” and click the “Set” button to send the parameter file to the device

Note: When using this function, please ensure that the current screen display is normal.

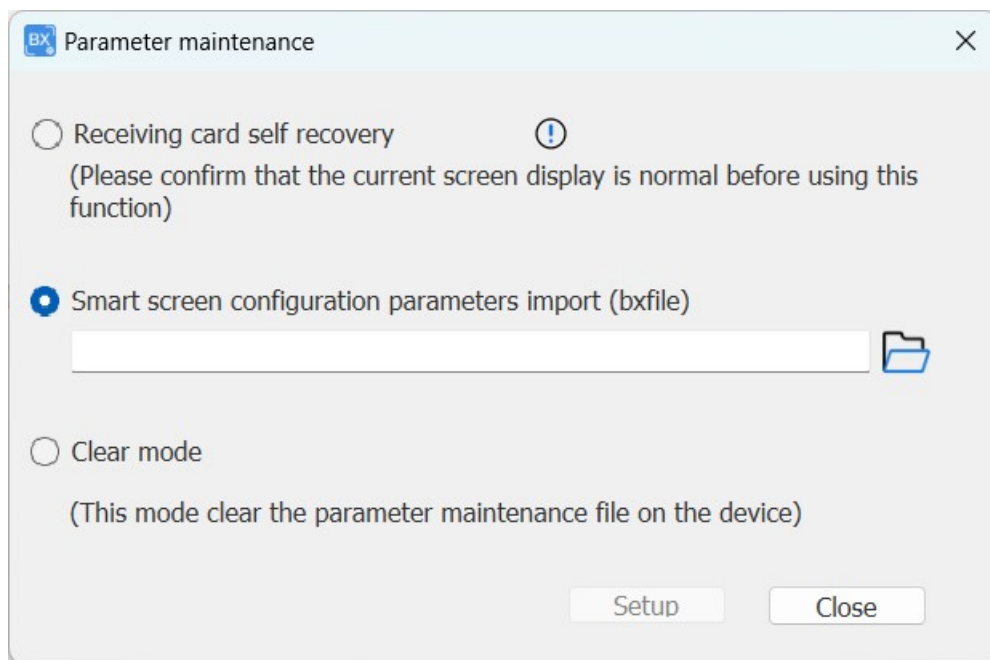


9.2 Import and export of smart screen parameters

Step 1: On the “Scan parameters” screen, click “Export parameters” and select the “Export bxfile” file.



Step 2: On the parameter maintenance screen, select “Import smart screen parameter adjustment” to import the bxfile file, click the “Set” button, and then send it to the device.



10. Cloud update

10.1 Cloud firmware update

Note: Currently, only cloud update of the receiving card firmware is supported

Step 1: On the firmware upgrade screen, click “Load firmware”

Step 2: Select 'Built-in firmware', click to download from the cloud, and wait for the firmware to be updated