NovaLCT

V5.9.3 Release Notes



Release Notes

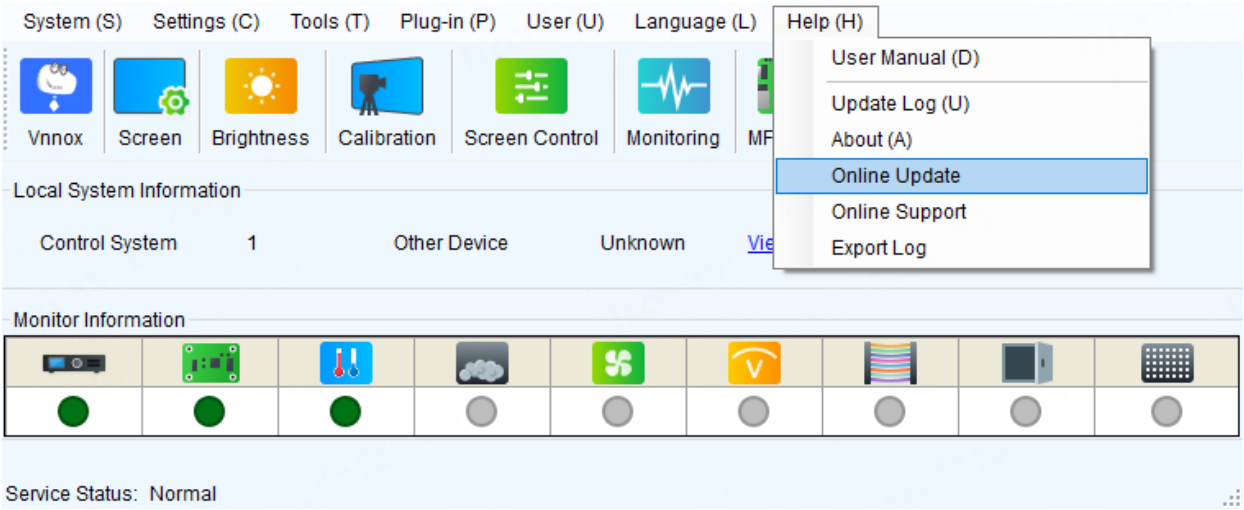
Contents

Contents 1
1 Update Instructions 2
1.1 Online Update 2
1.2 Local Update 3
2 Key Features 3
2.1 Setting Right Eye Start Position per Card for 3D 3
2.2 Four Color Multi-Batch Adjustment 4
2.3 Image Booster Supports Low-Grayscale Dithering Mode Selection 8
2.4 Module Flash Calibration Coefficient Verification 9
2.5 Ink Wash Threshold 11
2.6 Spread Spectrum EMC2.0 13
2.7 Low-Grayscale Soft Threshold 15
2.8 Generate Screen Layout Diagram 17
2.9 Newly Supported Devices 18
3 Newly Supported Chips 18
4 Improvements 19
4.1 Home Screen Function Icon Optimization 19
4.2 Monitoring Home Screen Layout Adjustment 19
4.3 Screen Connection Screen Optimization 22
4.4 Three Color Multi-Batch Adjustment Optimization 23
4.5 Additional Function Screen Layout Adjustment 24
4.6 Text Adjustment 25
5 Bug Fixes 25
6 Notes 26
7 Copyright 27

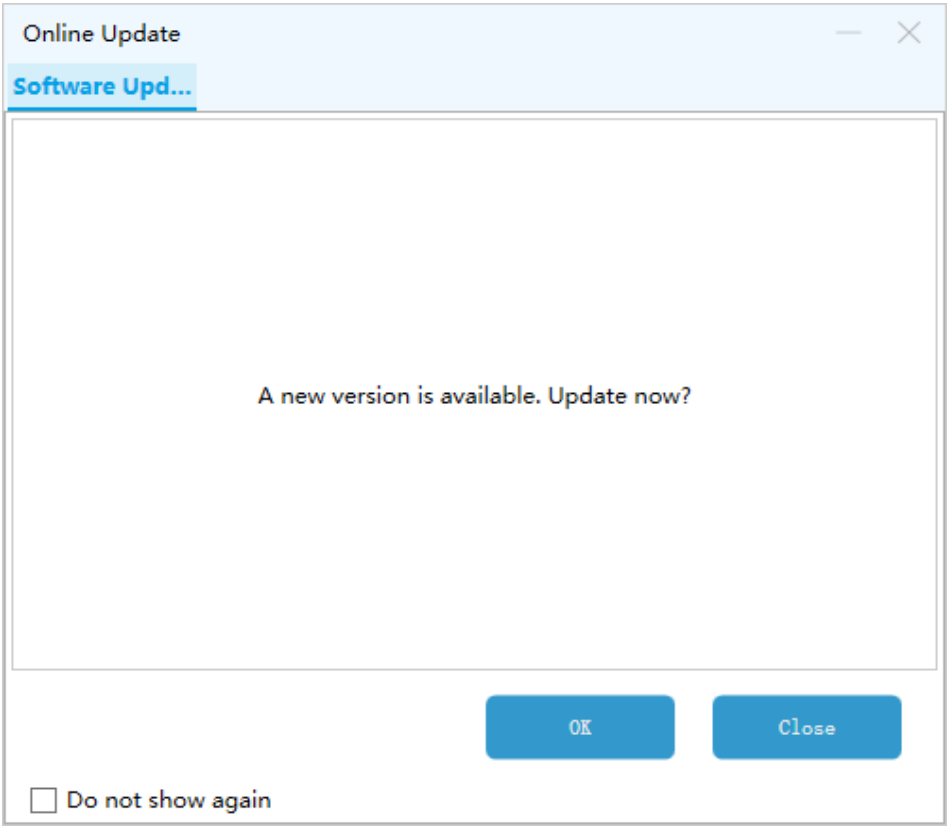
1 Update Instructions

1.1 Online Update

Step 1 From the menu bar, select **Help** > **Online Update**.



Step 2 Confirm the update.



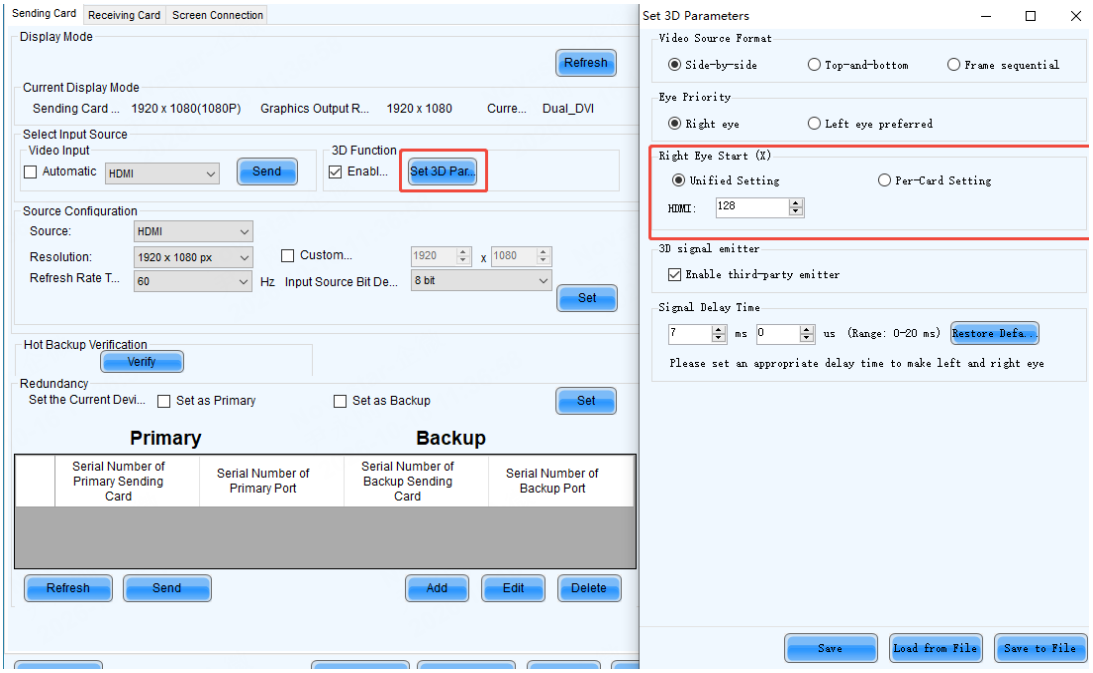
1.2 Local Update

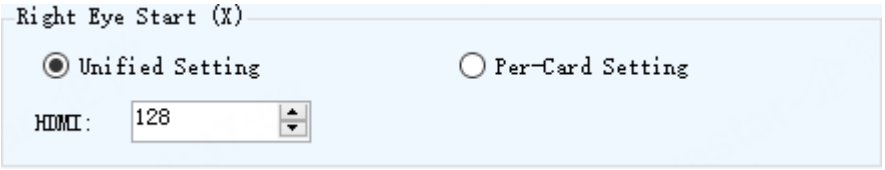
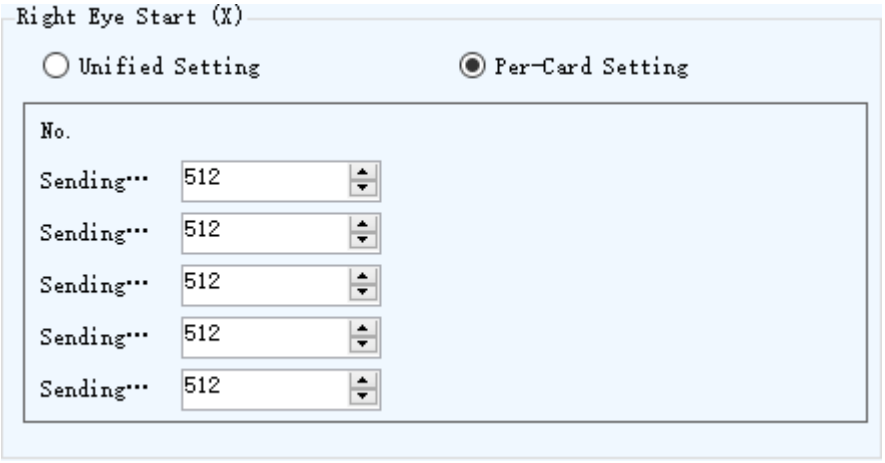
Step 1 Visit the **DOWNLOADS** page on the NovaStar website and download the NovaLCT V5.9.3 installation package.

Step 2 Double-click the installation package and follow the prompts to complete the installation.

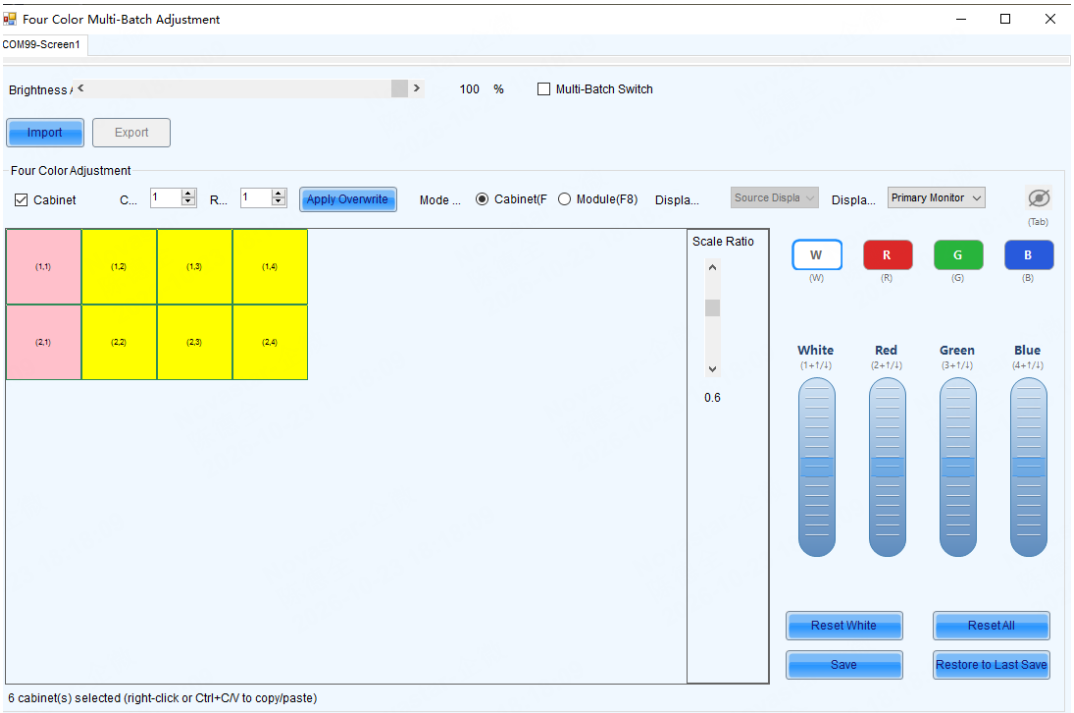
2 Key Features

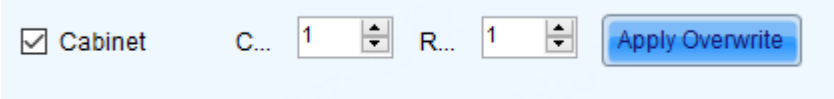
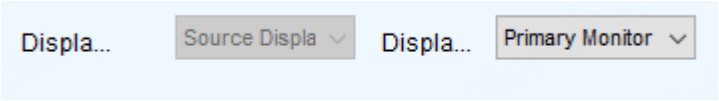
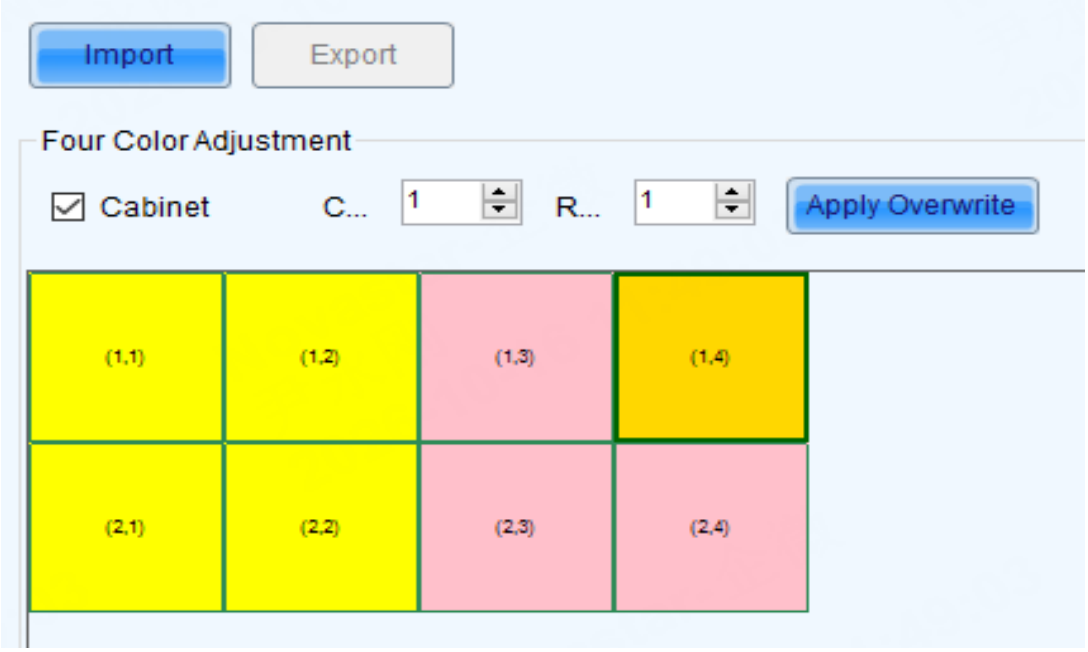
2.1 Setting Right Eye Start Position per Card for 3D

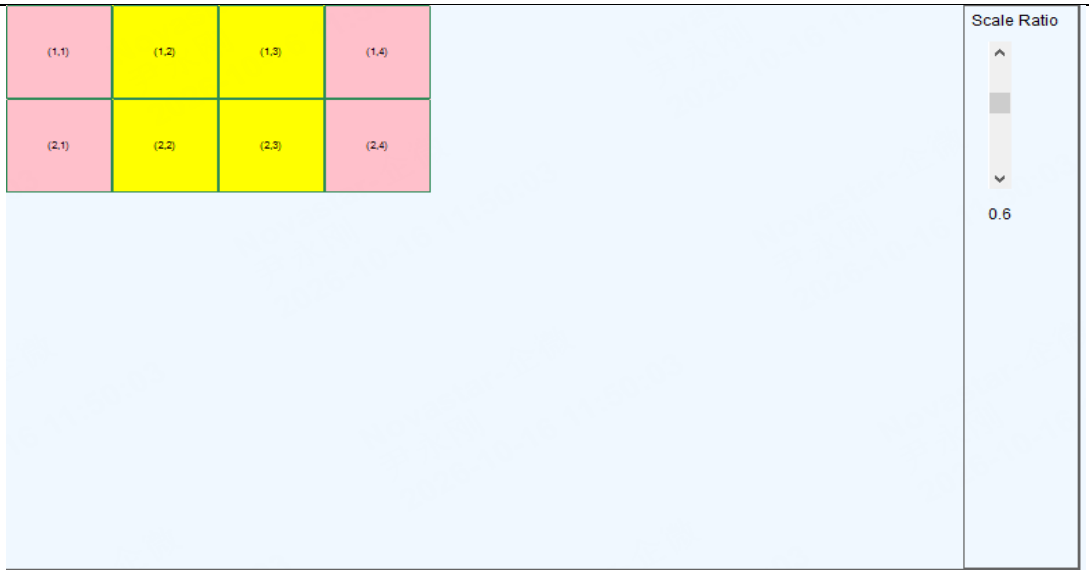
Function Interface	**Sending Card** > **Set 3D Parameters** > **Right Eye Start (X)**. 

Function Description	Step 1 Select **Unified Setting** to set the same right eye start position for all sending cards on the current communication port.  Step 2 Select **Per-Card Setting** to set a different right eye start position for each sending card on the current communication port. 

2.2 Four Color Multi-Batch Adjustment

Function Interface	From the menu bar, select **Tools** > **Multi-Batch Adjustment**. 
Function	Step 1 Drag the brightness adjustment slider to change the screen brightness. Enable or disable the

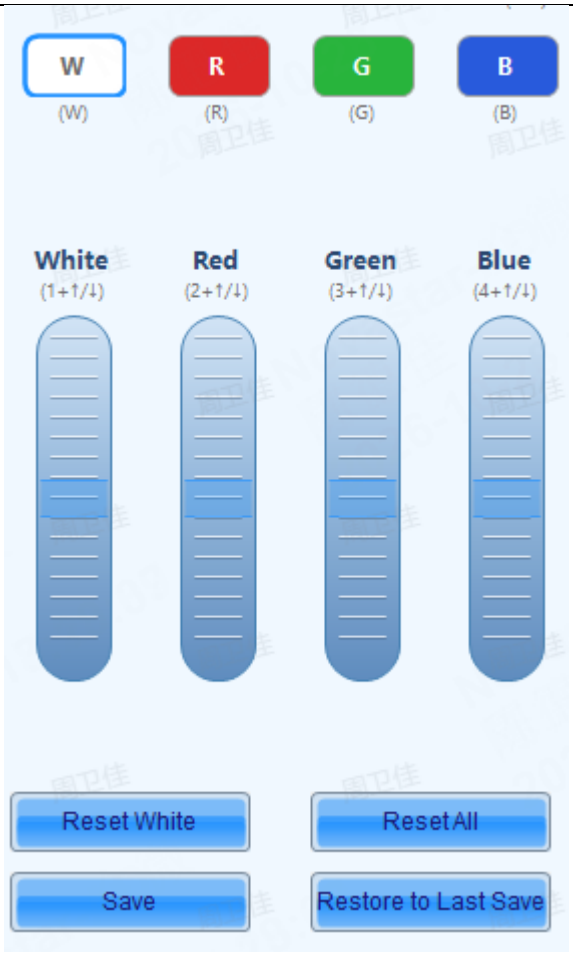
Description	multi-batch switch as needed.  Step 2 Override the cabinet specs: If the configuration file already contains the Flash topology, the row and column data of that topology is displayed by default.  Step 3 Select an adjustment mode: Cabinet or Module.  Step 4 Select a display method: **Source Display** or **Hardware Display** (if the sending card does not support hardware display, use source display).  Step 5 (Optional) Select one or more topologies, and then click **Import** to import the exported coefficient file to the target screen.  Step 6 In the topology area, select the cabinets or modules to adjust (multiple selection is supported).



Step 7 Set the adjustment parameters. Different colors support different adjustable parameters. Place the mouse over the wheel icon and drag it up or down, scroll the mouse wheel, or use the keyboard shortcut 1+↑/↓ to make adjustments.

- **Reset White**: Restores the monochrome coefficient to its default value (the coefficient of the currently selected color).
- **Reset All**: Restores all color coefficients to their default values.
- **Save**: Saves the current coefficients to the receiving card's Flash memory.
- **Restore to Last Save**: Restores the coefficients to the state when they were last saved.

After setting a cabinet's parameters, you can right-click to copy them and paste them to other cabinets, or use the Ctrl+C / Ctrl+V keyboard shortcuts to copy and paste.

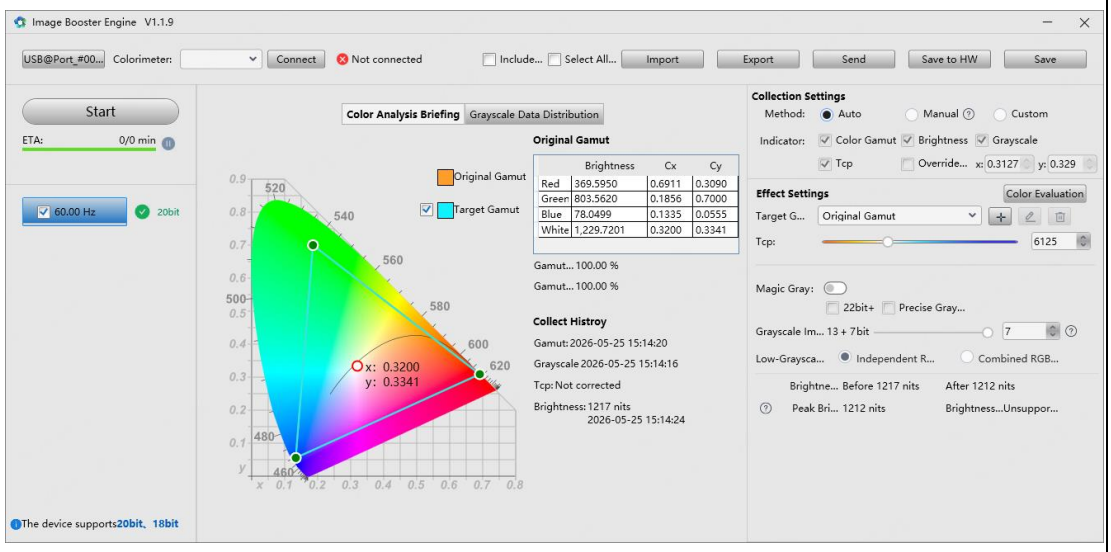


Step 8 After the adjustment is complete, click **Save** to save the current configuration to the receiving card.

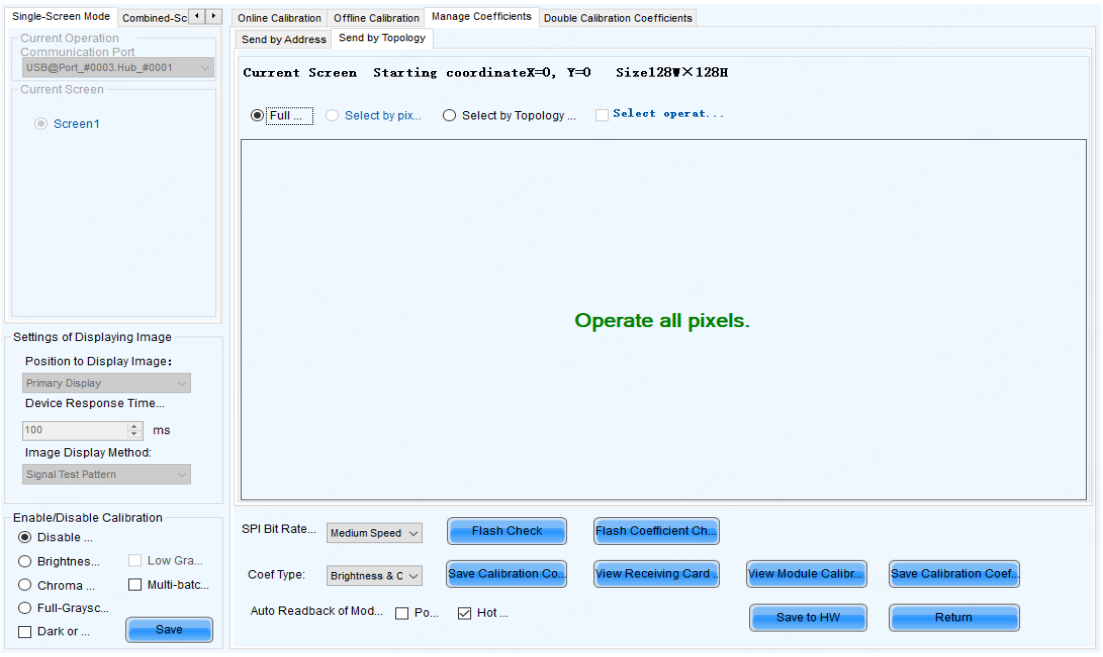
Step 9 (Optional) Select a single topology, and then click **Export** to save the coefficients configured in this multi-batch adjustment as a file.

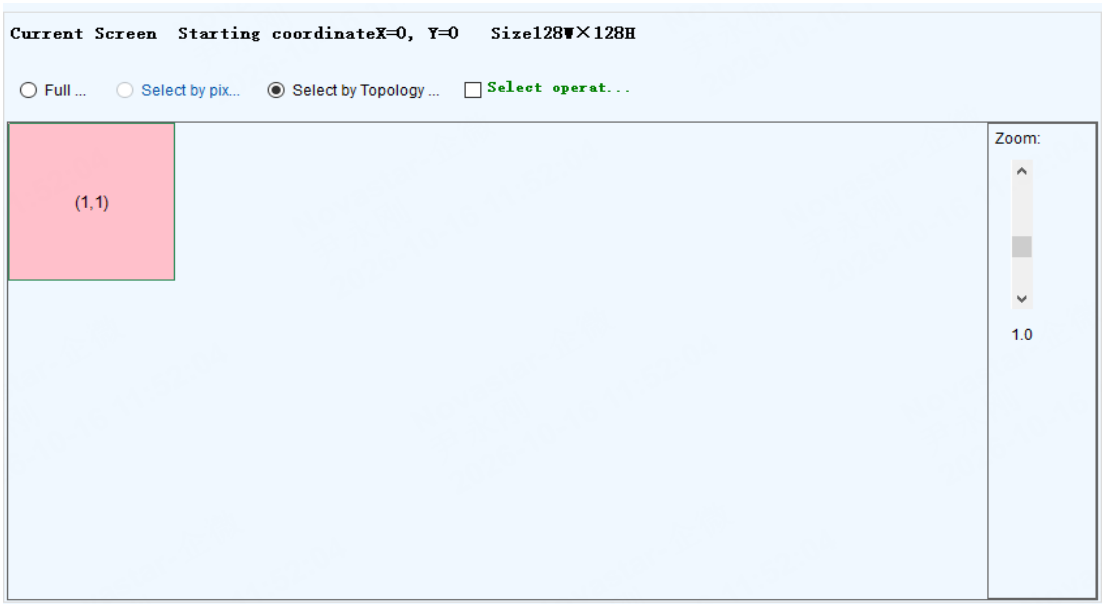
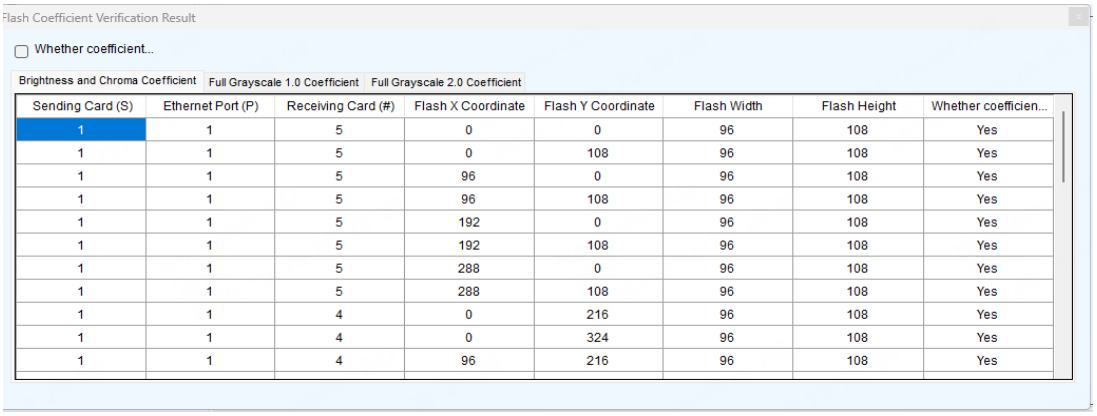
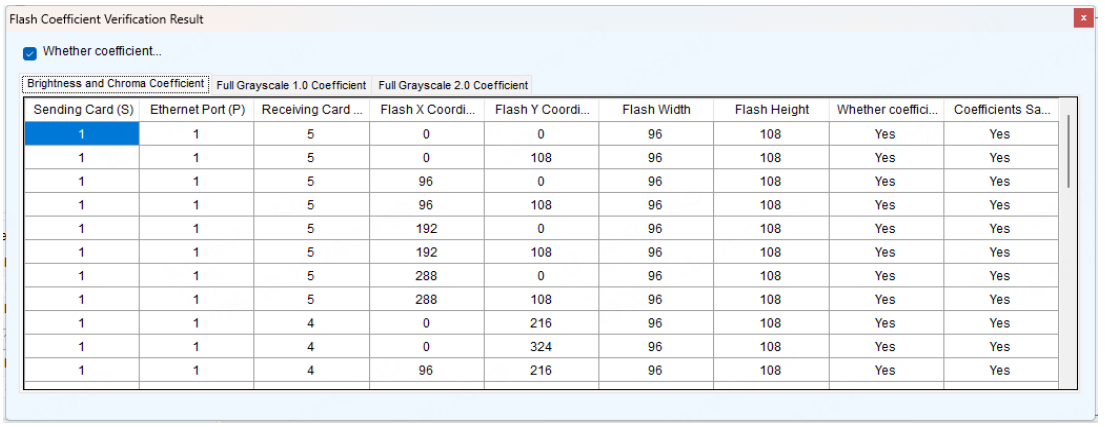


2.3 Image Booster Supports Low-Grayscale Dithering Mode Selection

Function Interface	Home screen > **Image Booster** > **Low-Grayscale Dithering Mode**. 
Function Description	Select a low-grayscale dithering mode: ● Independent RGB Dithering. ● Combined RGB Dithering.

2.4 Module Flash Calibration Coefficient Verification

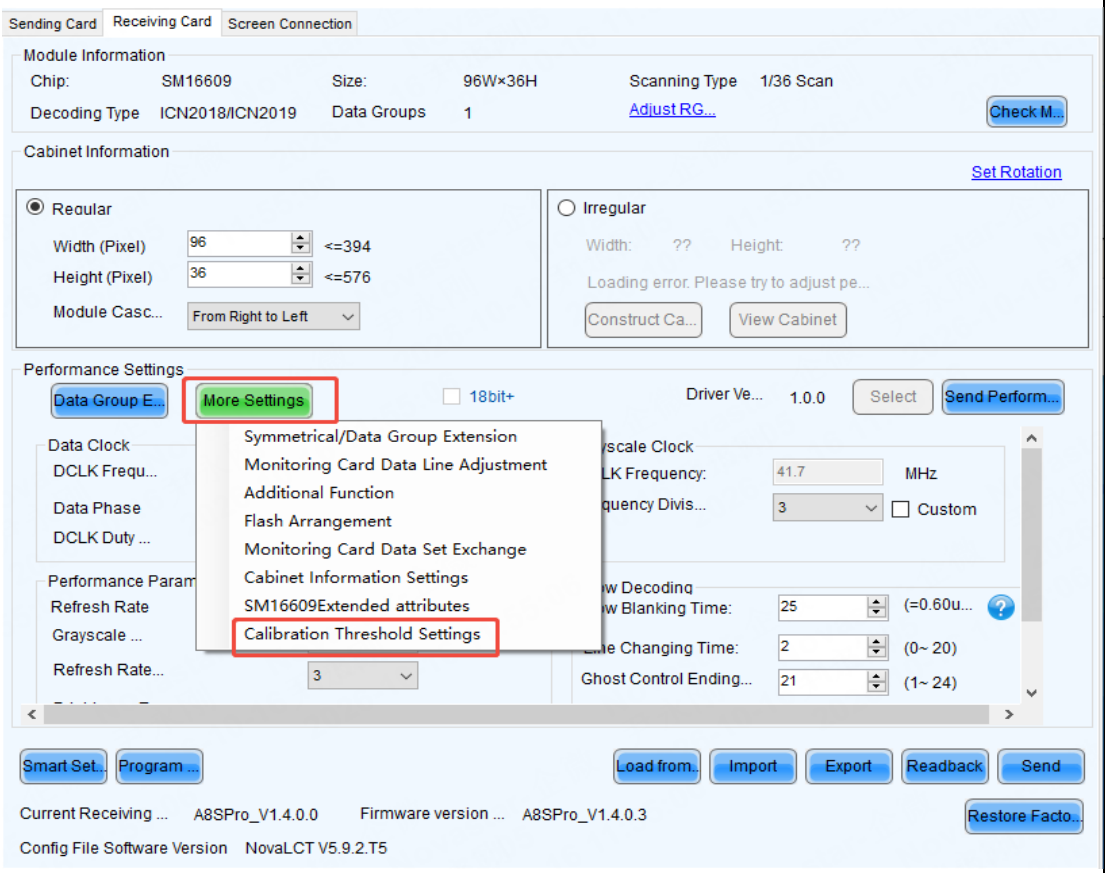
Function Interface	On the home screen, select **Calibration** > **Manage Coefficients** > **Module Flash** > **Flash Coefficient Check**. 

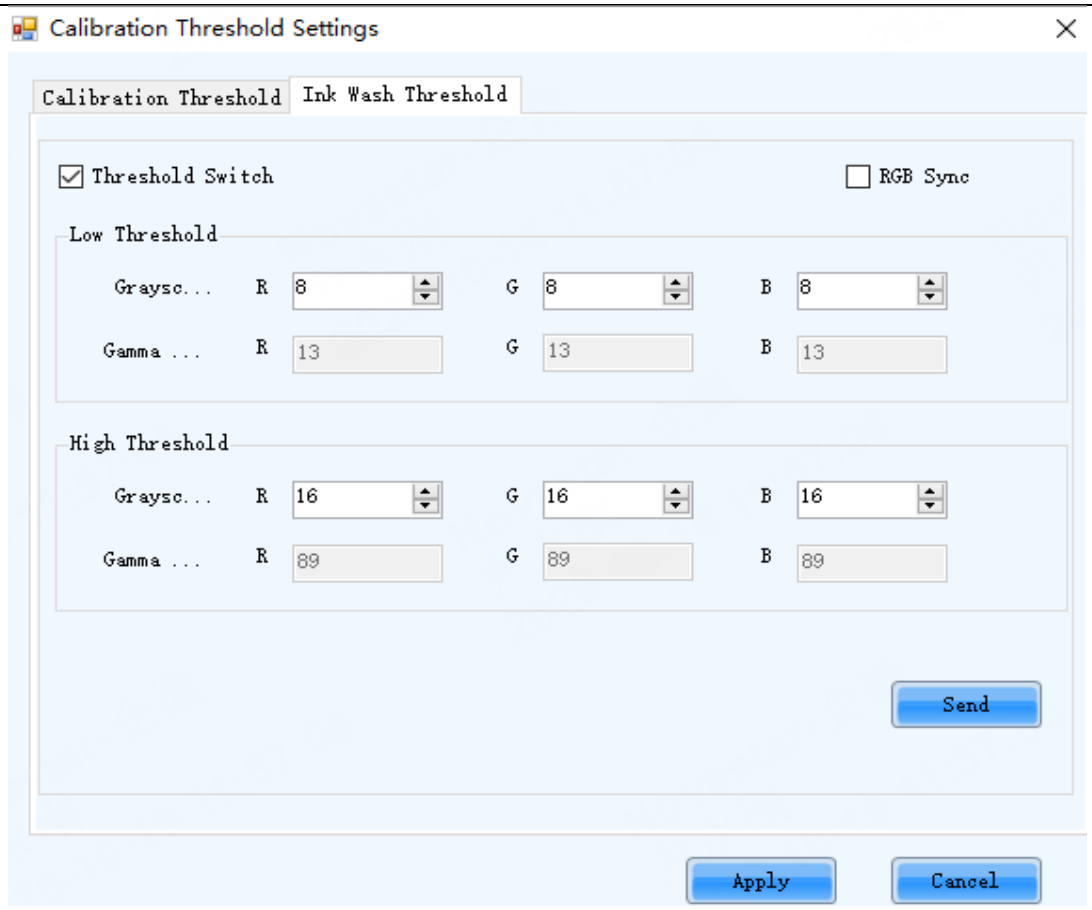
Function Description	Step 1 Select the cabinet topology to be verified.  Step 2 Click the **Flash Coefficient Check** button to check whether coefficients are available. The results are displayed on separate tabs by coefficient type. Switch between tabs to view the verification result of each coefficient type.  Step 3 Select **Whether coefficients saved correctly** to continue verifying whether the coefficients are saved correctly. A column is added to the table to display the verification result. 

Sending Card (S)	Ethernet Port (P)	Receiving Card (#)	Flash X Coordinate	Flash Y Coordinate	Flash Width	Flash Height	Whether coefficien...
1	1	5	0	0	96	108	Yes
1	1	5	0	108	96	108	Yes
1	1	5	96	0	96	108	Yes
1	1	5	96	108	96	108	Yes
1	1	5	192	0	96	108	Yes
1	1	5	192	108	96	108	Yes
1	1	5	288	0	96	108	Yes
1	1	5	288	108	96	108	Yes
1	1	4	0	216	96	108	Yes
1	1	4	0	324	96	108	Yes
1	1	4	96	216	96	108	Yes

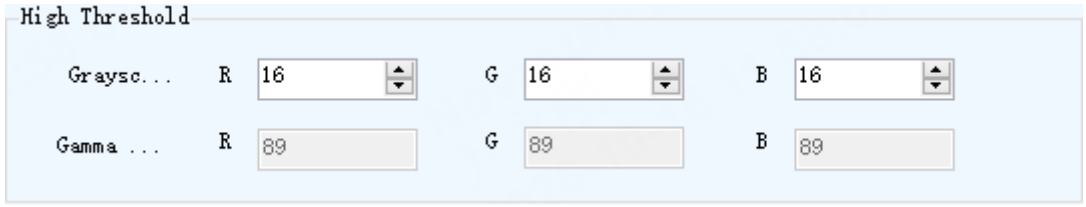
Sending Card (S)	Ethernet Port (P)	Receiving Card ...	Flash X Coordi...	Flash Y Coordi...	Flash Width	Flash Height	Whether coeffici...	Coefficients Sa...
1	1	5	0	0	96	108	Yes	Yes
1	1	5	0	108	96	108	Yes	Yes
1	1	5	96	0	96	108	Yes	Yes
1	1	5	96	108	96	108	Yes	Yes
1	1	5	192	0	96	108	Yes	Yes
1	1	5	192	108	96	108	Yes	Yes
1	1	5	288	0	96	108	Yes	Yes
1	1	5	288	108	96	108	Yes	Yes
1	1	4	0	216	96	108	Yes	Yes
1	1	4	0	324	96	108	Yes	Yes
1	1	4	96	216	96	108	Yes	Yes

2.5 Ink Wash Threshold

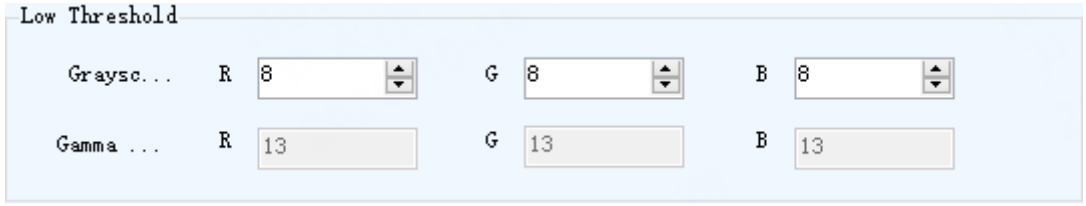
Function Interface	**Receiving Card** > **More Settings** > **Calibration Threshold Settings** > **Ink Wash Threshold**. 
Function Description	Step 1 Select **Threshold Switch** to configure the thresholds.



Step 2 Set the grayscale value of the high threshold.



Step 3 Set the grayscale value of the low threshold.



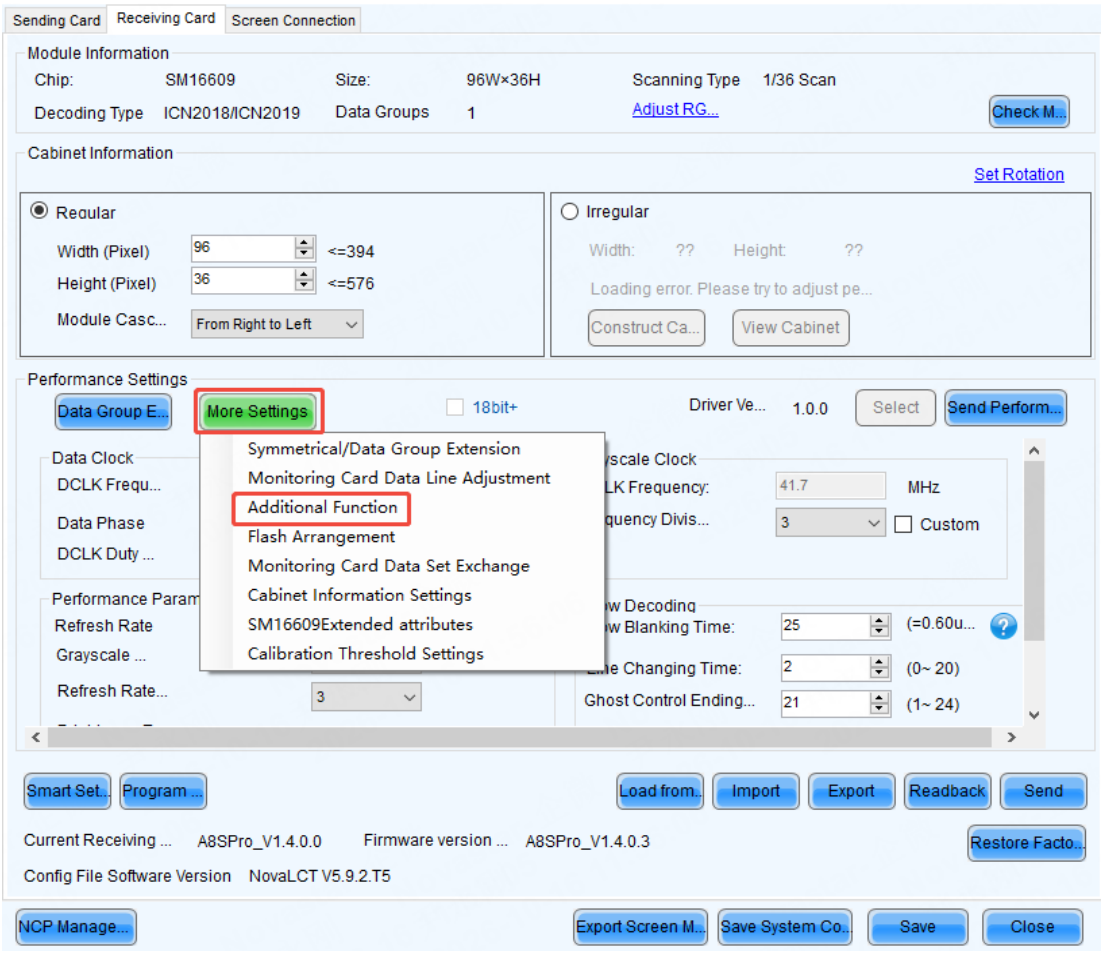
Note: The low threshold must be lower than the high threshold.

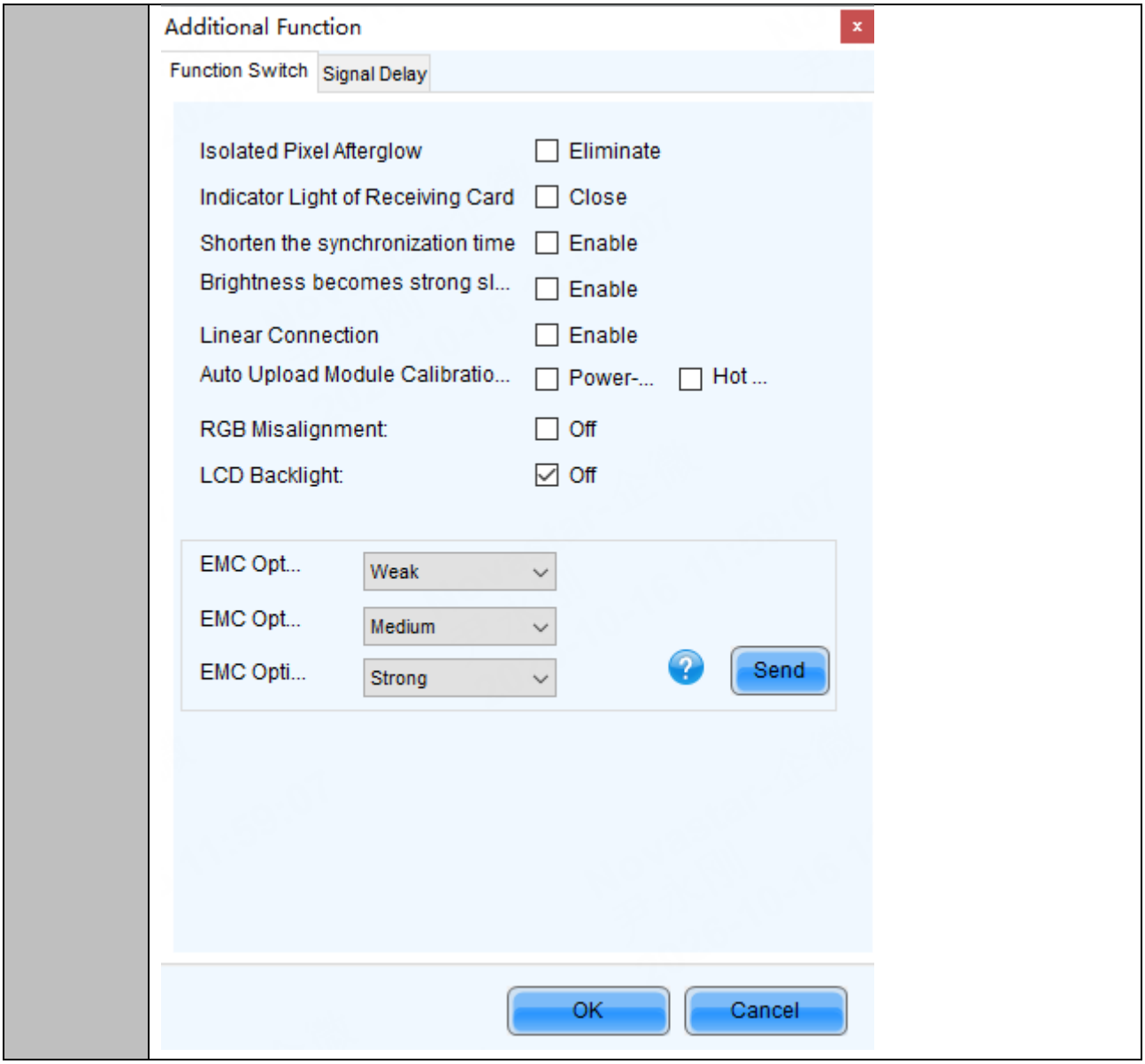
Step 4 Send: Sends the threshold parameters to the receiving card.

Apply: Applies the currently adjusted parameters to the configuration file. When the configuration file is sent, the latest parameters are delivered.

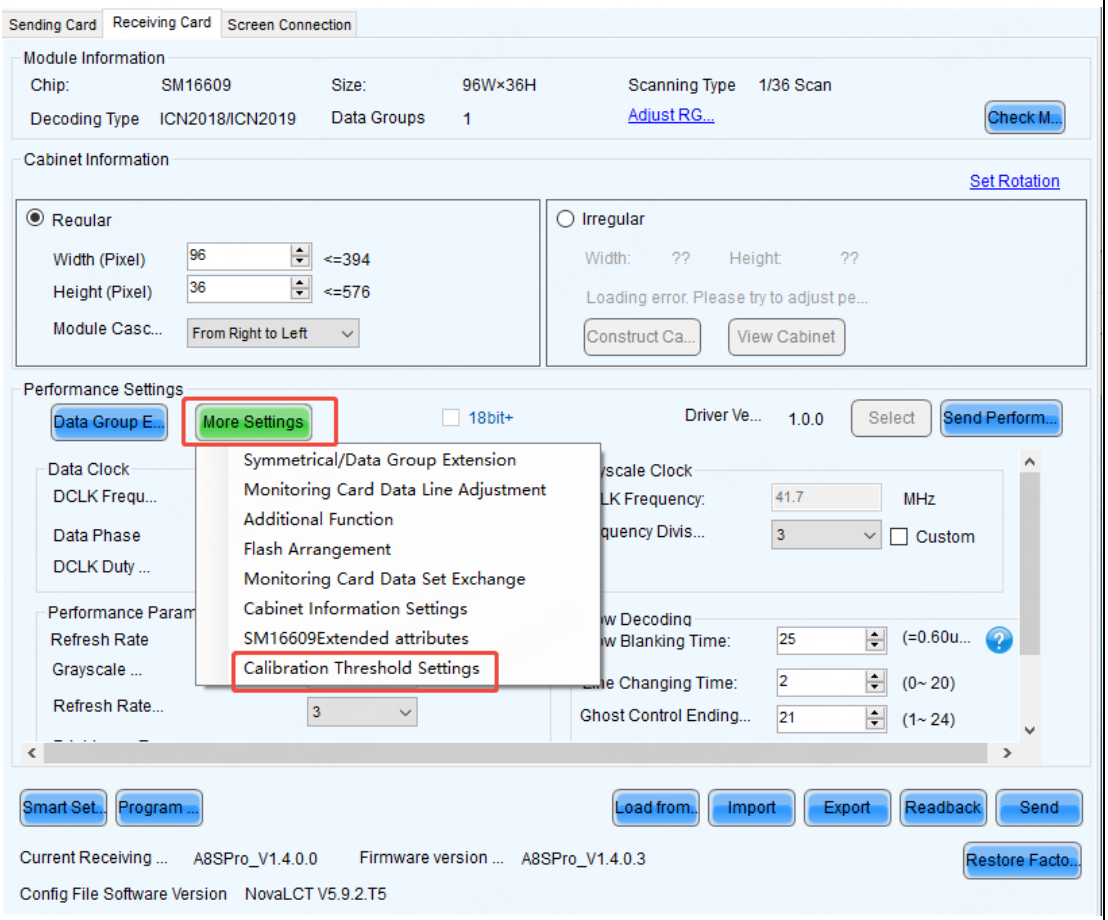
Cancel: Does not apply the currently adjusted parameters to the configuration file. When the configuration file is sent, the previous parameters are delivered.

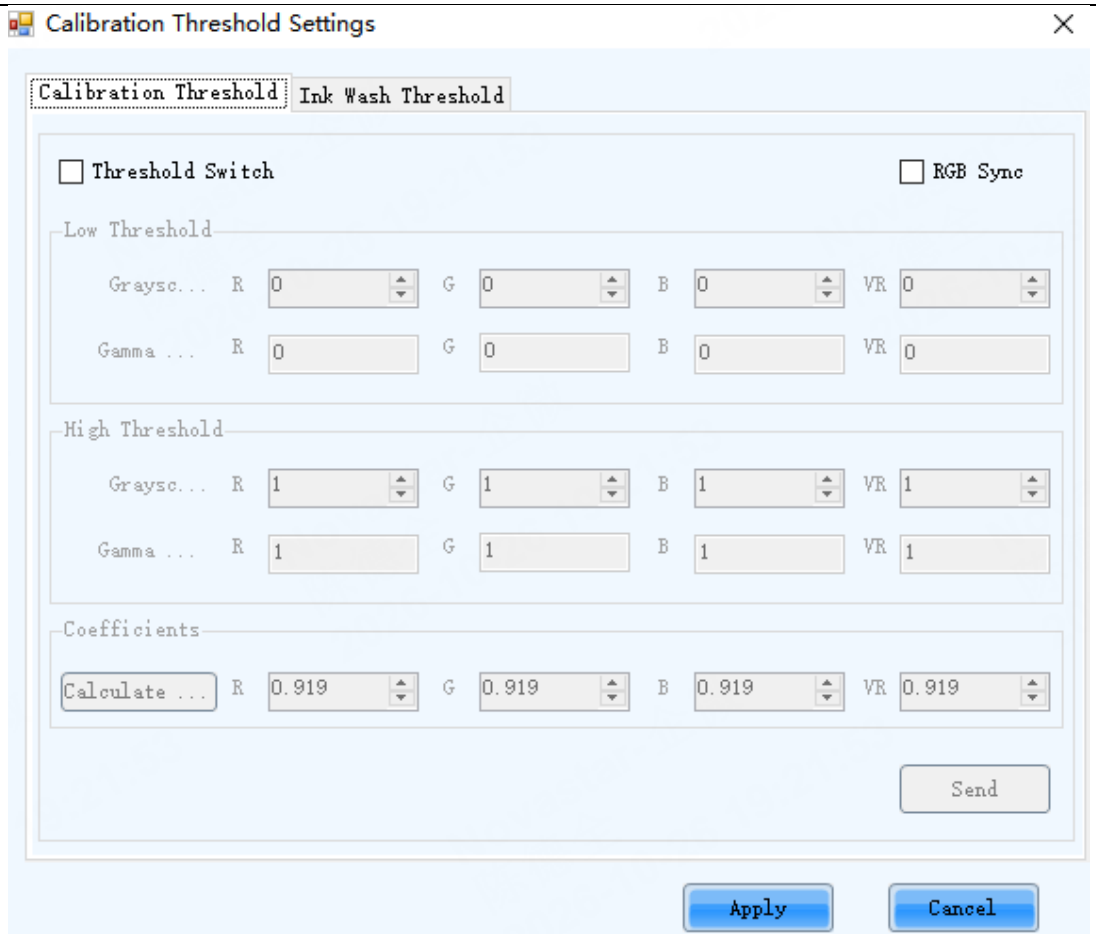
2.6 Spread Spectrum EMC2.0

Function Interface	**Receiving Card** > **More Settings** > **Additional Function** > **Function Switch**. 
Function Description	Up to 3 EMC groups can be configured. Each group can be set to off, weak, medium, or strong.

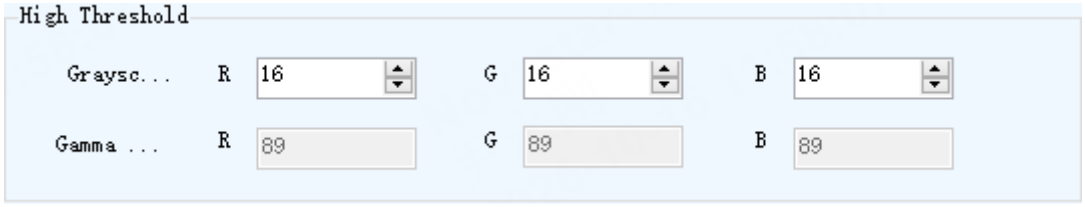

Additional Function
Function Switch
Signal Delay
Isolated Pixel Afterglow
Eliminate
Indicator Light of Receiving Card
Close
Shorten the synchronization time
Enable
Brightness becomes strong sl...
Enable
Linear Connection
Enable
Auto Upload Module Calibratio...
Power-...
Hot ...
RGB Misalignment:
Off
LCD Backlight:
Off
EMC Opt...
Weak
EMC Opt...
Medium
EMC Opti...
Strong
Send
OK
Cancel

2.7 Low-Grayscale Soft Threshold

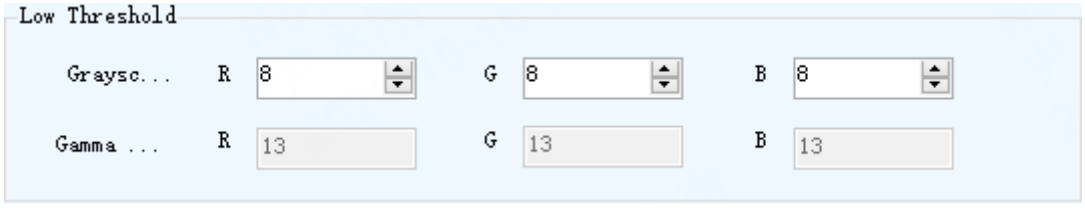
Function Interface	**Receiving Card** > **More Settings** > **Calibration Threshold Settings** > **Calibration Threshold**. 
Function Description	Step 1 Select **Threshold Switch** to configure the thresholds.



Step 2 Set the grayscale value of the high threshold.

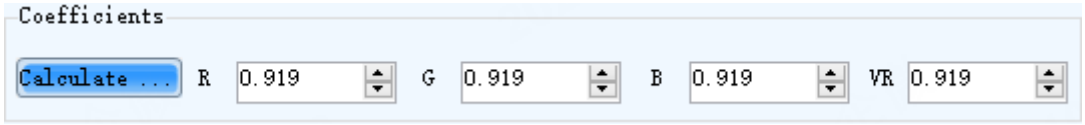


Step 3 Set the grayscale value of the low threshold.



Note: The low threshold must be lower than the high threshold.

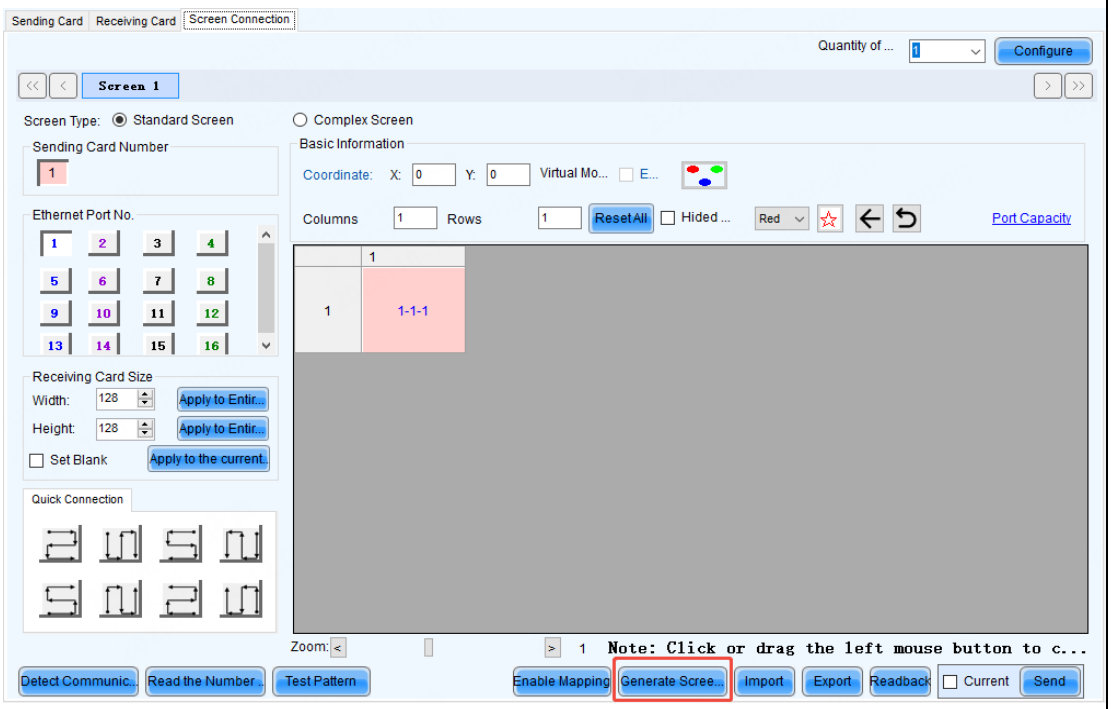
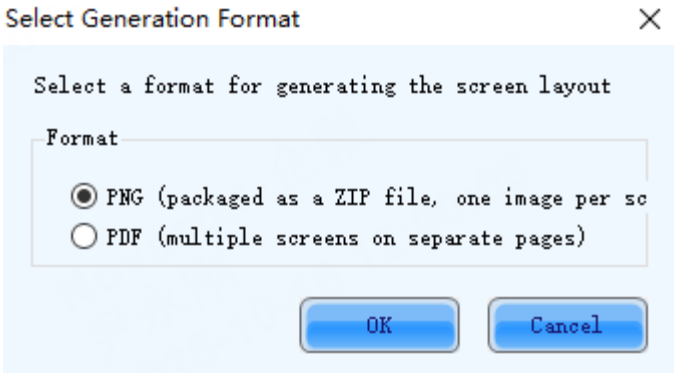
Step 4 Enter the attenuation ratio of the transition coefficient. The range is 0 to 1.2. Alternatively, click **Calculate and Input** to have the software automatically calculate a set of attenuation ratios. Before automatic calculation, enable the calibration coefficient switch.



Step 5 Send: Sends the threshold parameters to the receiving card.

	Apply: Applies the currently adjusted parameters to the configuration file. When the configuration file is sent, the latest parameters are delivered. Cancel: Does not apply the currently adjusted parameters to the configuration file. When the configuration file is sent, the previous parameters are delivered.

2.8 Generate Screen Layout Diagram

Function Interface	**Screen Connection** > **Generate Screen Layout Diagram**. 
Function Description	Step 1 Click the **Generate Screen Layout Diagram** button. Step 2 Select the format for the screen layout diagram: PNG or PDF.  Step 3 Click **OK**, select the output path, and export the file.

2.9 Newly Supported Devices

No.	Device Model
1	TB10N
2	TB20N
3	TB10 Plus (GL)
4	V20
5	AL 4xFiber Enhanced

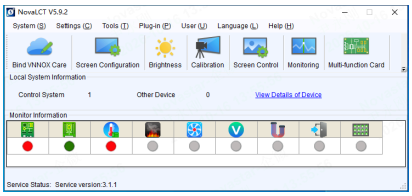
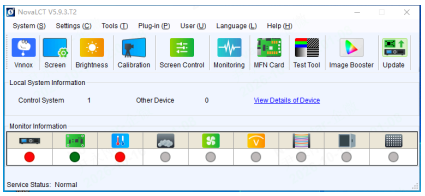
3 Newly Supported Chips

No.	Manufacturer	Model	Driver Version Number
1	ICND	ICND1088	V2.0.0
2	DP	DP3364S	V1.0.0/V2.0.0
3	DP	DP6369S	V1.0.0/V2.0.0
4	DP	DP3375S	V2.0.0
5	CFD	CFD335B	V1.0.0/V2.0.0
6	CFD	CFD535B	V2.0.0
7	CFD	CFD989	V2.0.0
8	CFD	CFD455J	V1.0.0/V2.0.0
9	CFD	CFD455K	V1.0.0/V2.0.0
10	CFD	CFD325S	V2.0.0
11	SM	SM16339	V2.0.0
12	SM	SM16719	V2.0.0
13	SM	SM16519S	V2.0.0
14	SM	SM16269	V1.0.0
15	LS	LS9001B	V1.0.0
16	LS	LS9025	V1.0.0

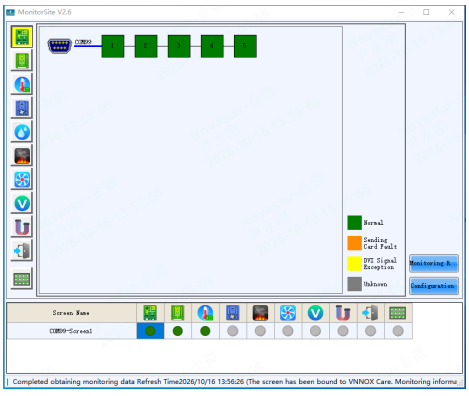
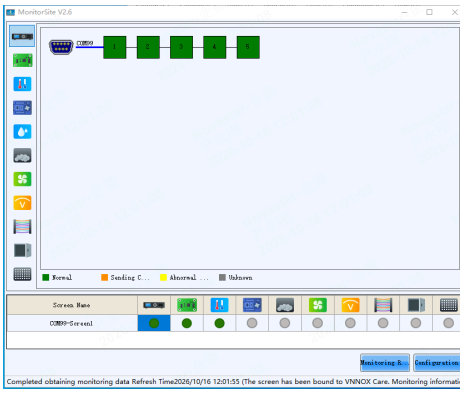
No.	Manufacturer	Model	Driver Version Number
17	LS	LS6850	V1.0.0
18	GS	GS6112	V1.0.0
19	OTHER	TA8028G	V1.0.0
20	OTHER	HX8066	V2.0.0

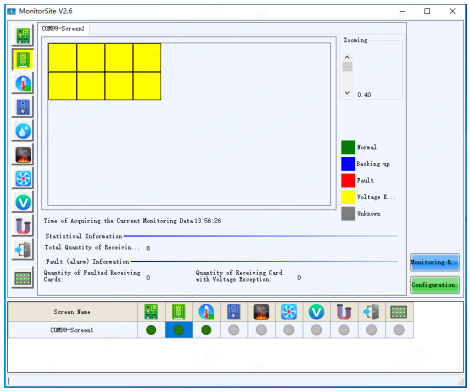
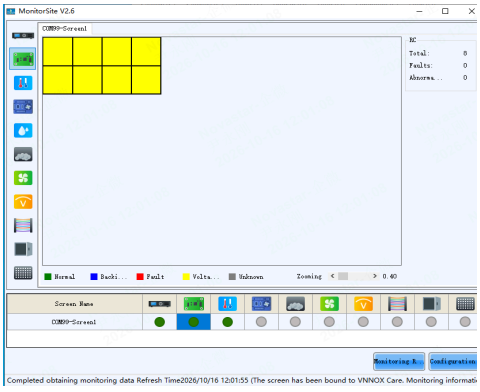
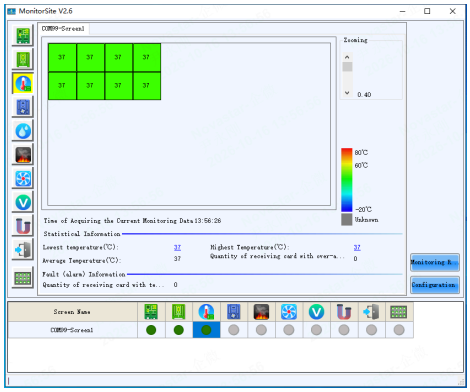
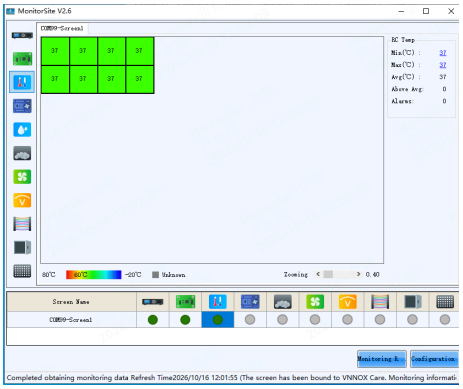
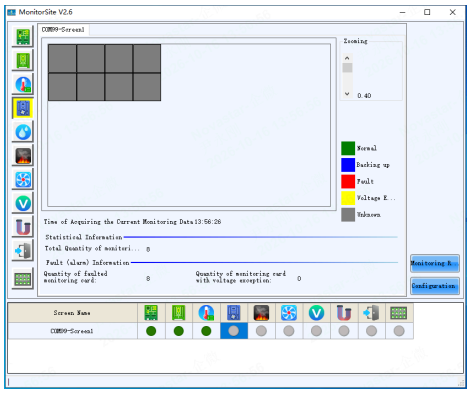
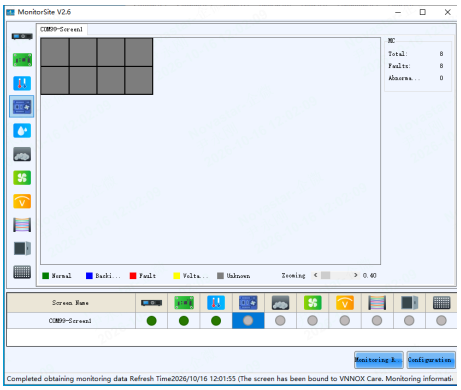
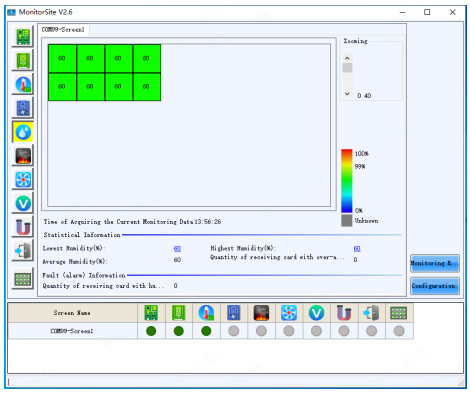
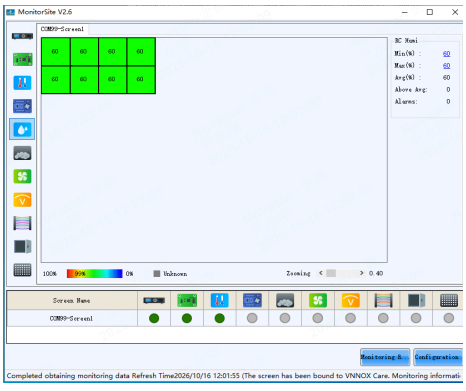
4 Improvements

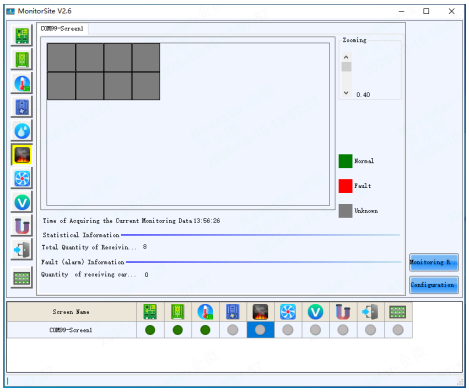
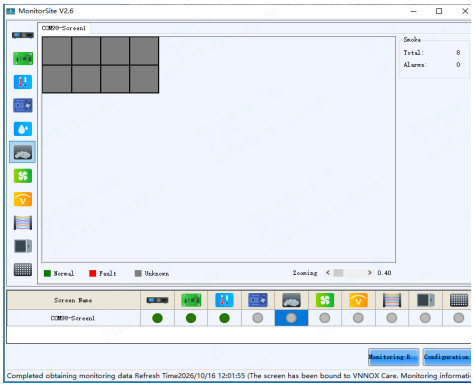
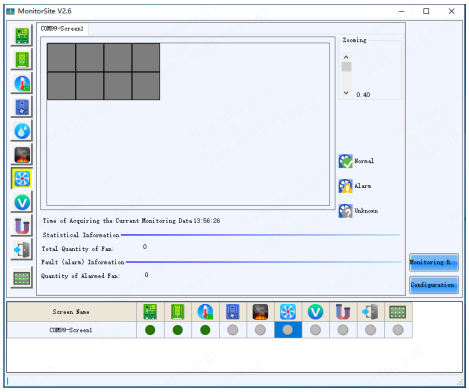
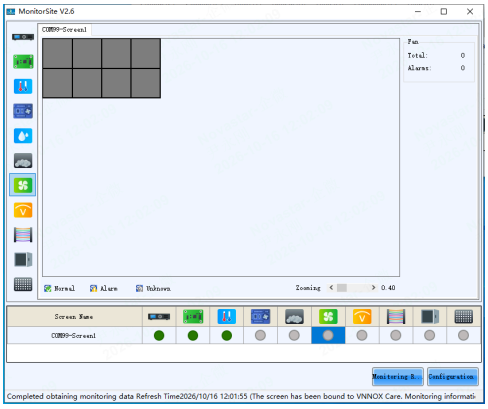
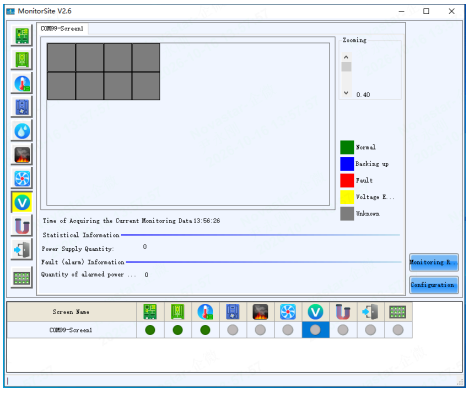
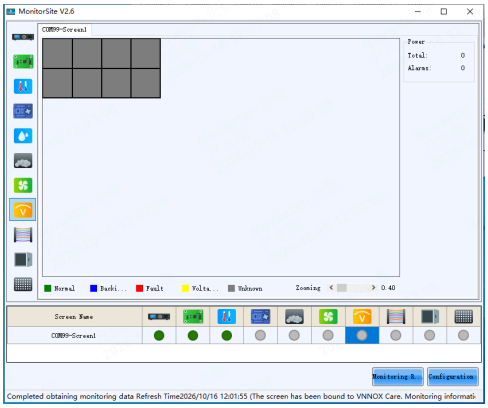
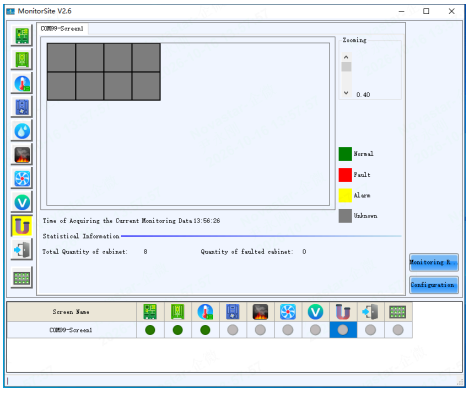
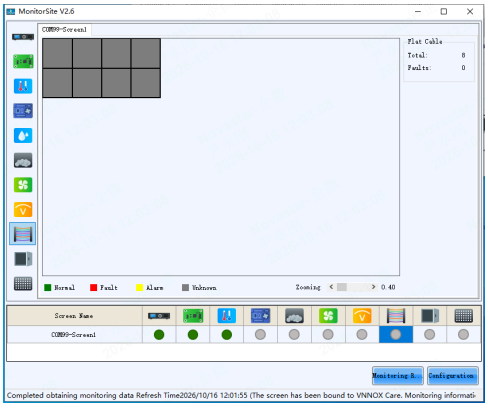
4.1 Home Screen Function Icon Optimization

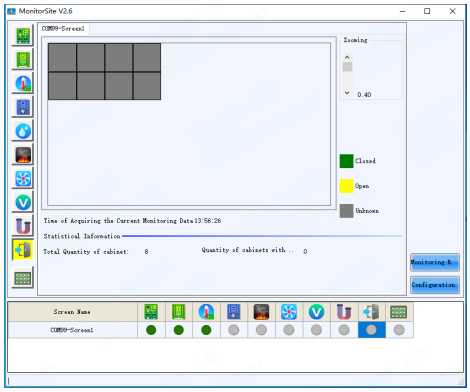
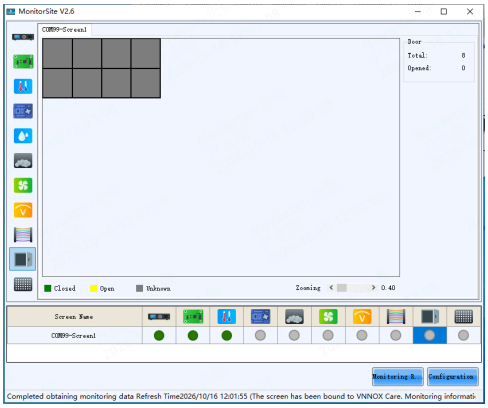
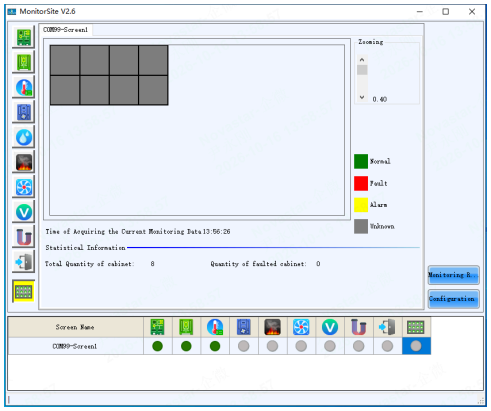
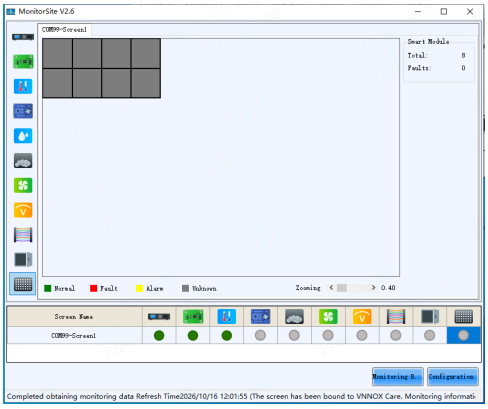
Optimization Items	Before Optimization	After Optimization
Home Screen Icon Update		

4.2 Monitoring Home Screen Layout Adjustment

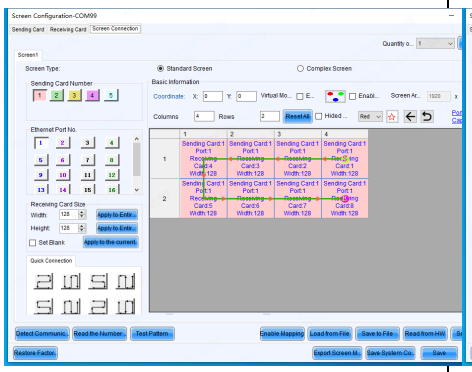
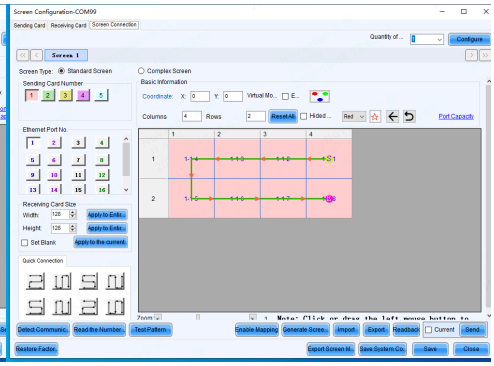
Optimization Items	Before Optimization	After Optimization
Sending Card		

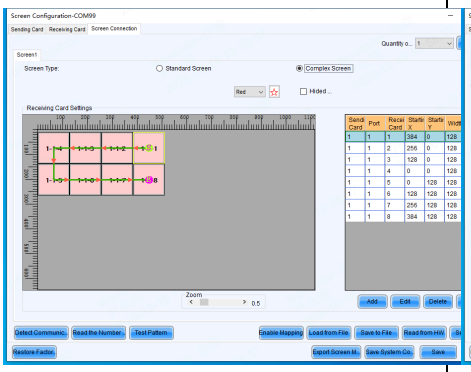
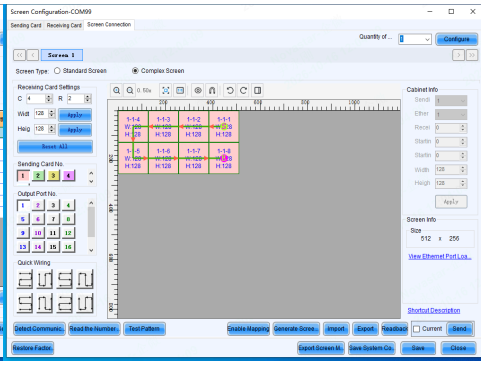
Receiving Card		
Temperature		
Monitoring Devices		
Humidity		

Smoke		
Fan		
Power		
Flat Cable		

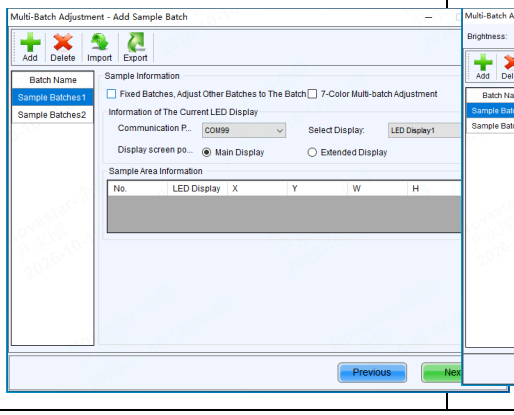
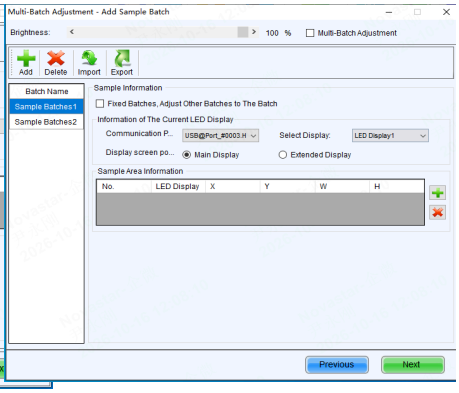
Cabinet Door		
Module Status		

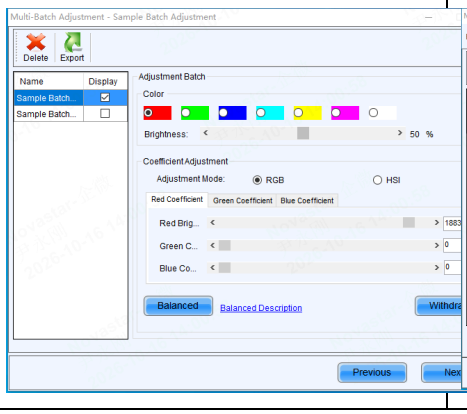
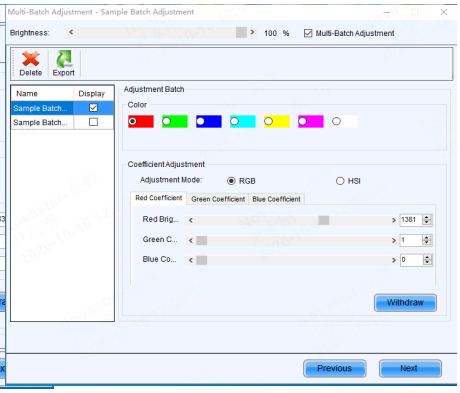
4.3 Screen Connection Screen Optimization

Optimization Items	Before Optimization	After Optimization
Standard screen: 1. The number of screens is extended from 20 to 64. 2. Pagination is added for switching between multiple screens. 3. The options to enable synchronization and to display the screen width and height are removed.		

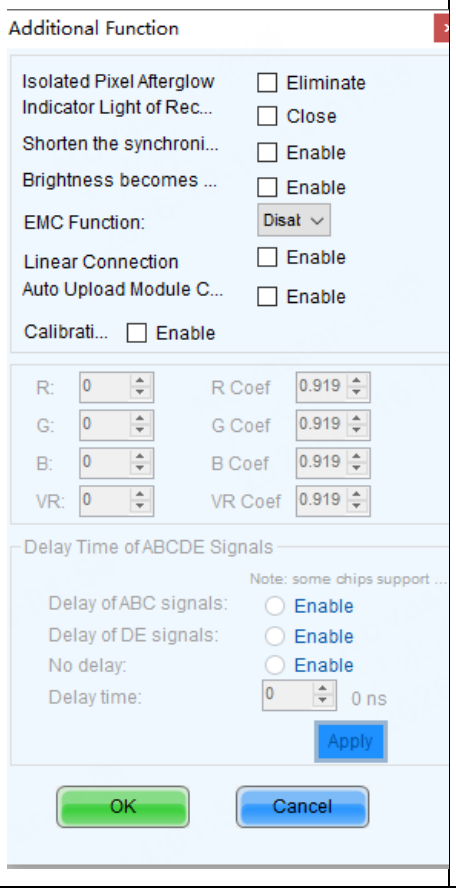
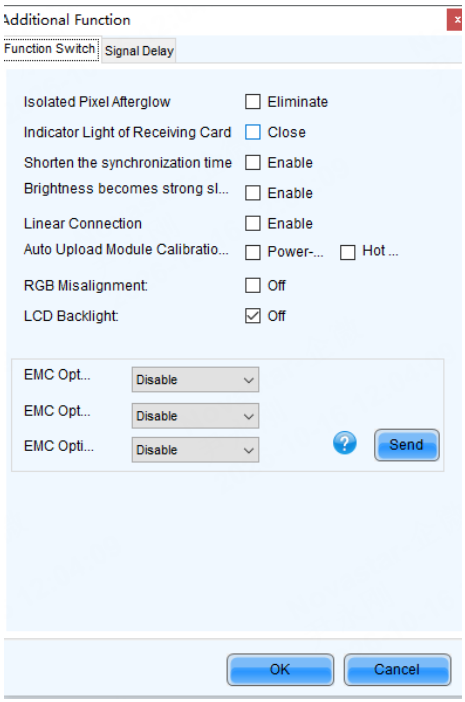
Optimization Items	Before Optimization	After Optimization
Complex screen: 1. Adjusted the screen layout. 2. Added operations such as batch cabinet creation, quick connection, changing cabinet width and height, selecting sending card and Ethernet port numbers, automatic topology adaptation, undo, reset, keyboard shortcuts, right-click menus, and multiple selection. 3. Optimized the snapping operation to resolve the lag issue during zooming.		

4.4 Three Color Multi-Batch Adjustment Optimization

Optimization Items	Before Optimization	After Optimization
The brightness slider now adjusts the screen brightness instead of the display grayscale, and the slider has been moved to the top of the page.		

Optimization Items	Before Optimization	After Optimization
Removed Balanced and Brightness.		

4.5 Additional Function Screen Layout Adjustment

Optimization Items	Before Optimization	After Optimization
The functions on the additional function screen are displayed on two tabs.		

4.6 Text Adjustment

Optimization Items	Before Optimization	After Optimization
VNNOX Care Entry on Home Screen	Bind to VNNOX Care	VNNOX Care
Screen Connection	Load from File	Import
	Save to File	Export
	Read from Hardware	Readback
	Send to Hardware	Send

5 Bug Fixes

Module	Fixed Issue Description	Remarks
Construct Cabinet	Fixed an abnormal display issue that occurred after row extraction during irregular cabinet construction.	
Calibration	Fixed the issue that occurred when saving calibration coefficients to the database when the starting coordinate was not (0,0).	
Image Booster	Fixed the issue where Gamma was sent abnormally after 18bit+ was enabled in the Image Booster.	
	Fixed an issue where an error message appeared after the Image Booster configuration file was exported and then imported again.	
Driver IC	Fixed an issue where the current gain decreased after re-importing a configuration file following current gain changes for FM6373D, FM6565E, and FM6565S.	
	Fixed the issue with the grayscale enhancement feature for CFD955C.	
	Fixed the abnormal load capacity calculation issue for SM16719 and SM16318.	
	Fixed the issue with Smart Settings for ICND2126, ICND1068, and DP3367S.	
	Fixed the issue where the extended attribute parameters of MBS7264 are saved abnormally.	
	Fixed the issue where the MBI5264 configuration file could not be imported or	

	sent after its parameters were saved.	
	Fixed the issue where the frequency division coefficient changed unexpectedly after an ICND1069 configuration file was imported.	
	Fixed an abnormal display issue on the DP3369S extended attribute screen, and an issue where the display became blurry after the configuration file was sent repeatedly.	
	Fixed an abnormal frame interpolation mode readback issue for ICND2153S, and an issue where the parameter adjustment result was inconsistent with the cabinet tool.	
	Fixed the issue with parameter adjustment for ICND2167.	
	Fixed the Gamma issue with the DP6366S chip.	
	Fixed the issue where DP3269S failed to read back the configuration file.	
	Fixed an error that occurred when opening the screen configuration for ICND1065S and MBS7253.	
	Fixed an issue where the low-grayscale color cast compensation could not be saved when exporting an ICND3069 configuration file.	

6 Notes

1. When a configuration file is sent, the low-latency status of the receiving cards is also delivered and is set to Off by default. If low latency was previously enabled separately for some cabinets on site, verify the low-latency status of each cabinet again after sending, and re-enable low latency as needed.

2. The Spread Spectrum EMC2.0 feature is limited by the hardware configuration, driver IC, and clock frequency. If the configuration is incompatible, display abnormalities may occur. Enable it with caution.

3. The Four Color Multi-Batch Adjustment, Image Booster Low-Grayscale Dithering Mode Selection, Module Flash Calibration Coefficient Verification, Ink Wash Threshold, and Spread Spectrum EMC2.0 features require receiving card firmware A8S Pro V1.4.0.0 / Z1s V1.4.0.0 or later.

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