NovaLCT

V5.9.1

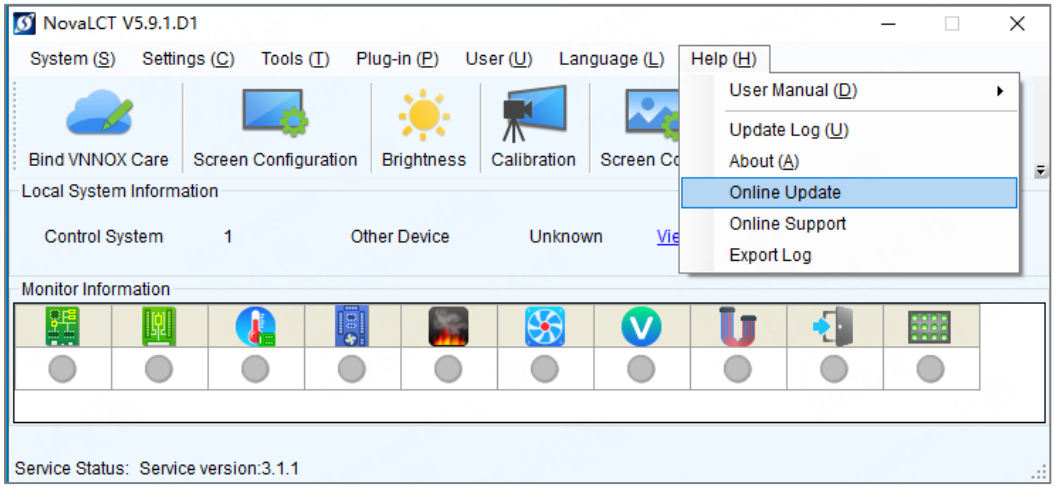
Release Notes

Contents

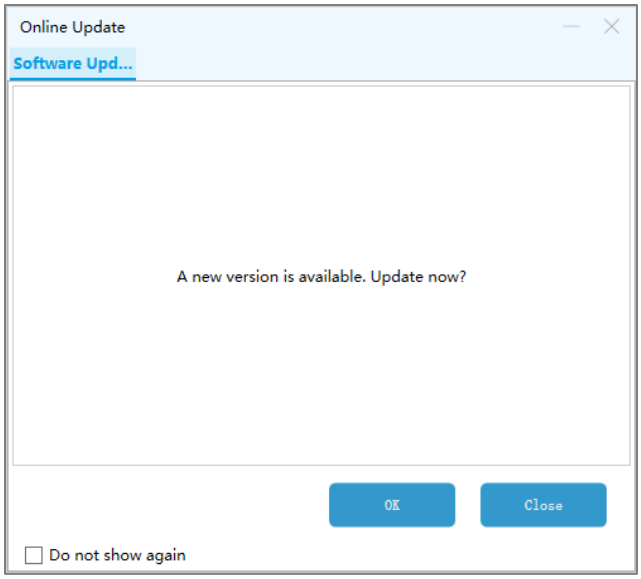
1 Update Instructions

1.1 Online Update

Step 1 From the menu bar, choose **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 V5.9.1 installation package.

Step 2 Double-click to run the package and proceed with the installation.

2 Key Features

2.1 VNNOX Care Monitoring and Maintenance 3.0

- On-cloud screen configuration: screen status control, brightness adjustment, configuration file sending, screen connection file sending, recovery via backup file, receiving card upgrade, saving to hardware
- On-cloud controller management: controller upgrade and starting, operation log retrieval

Prerequisites

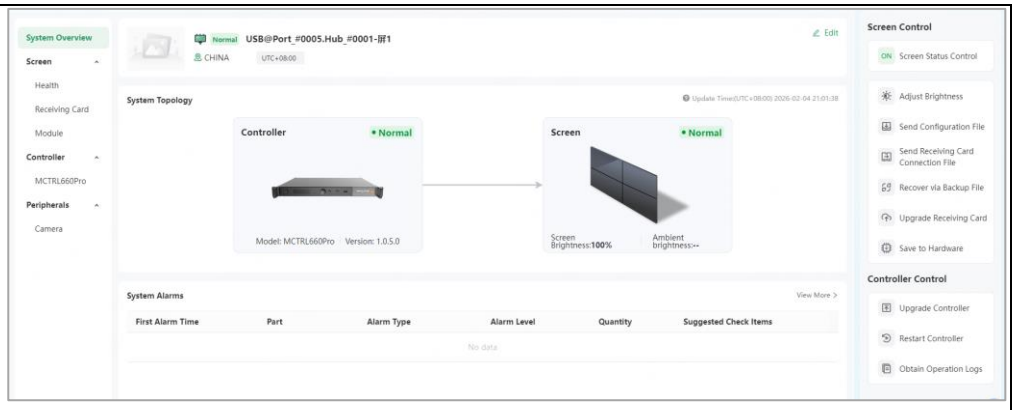
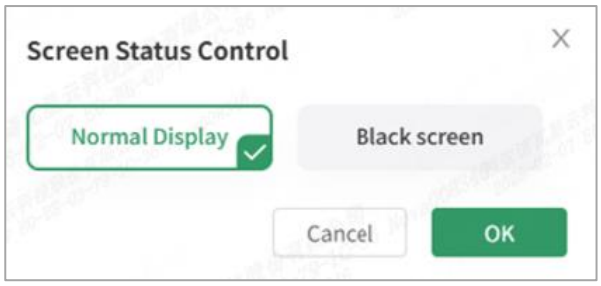
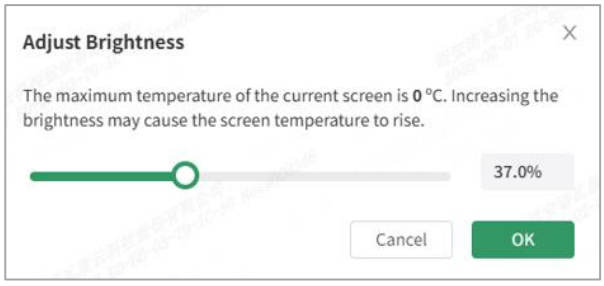
- You have a valid VNNOX Care account.
- The control computer is connected to the Internet.
- The following product models are used.

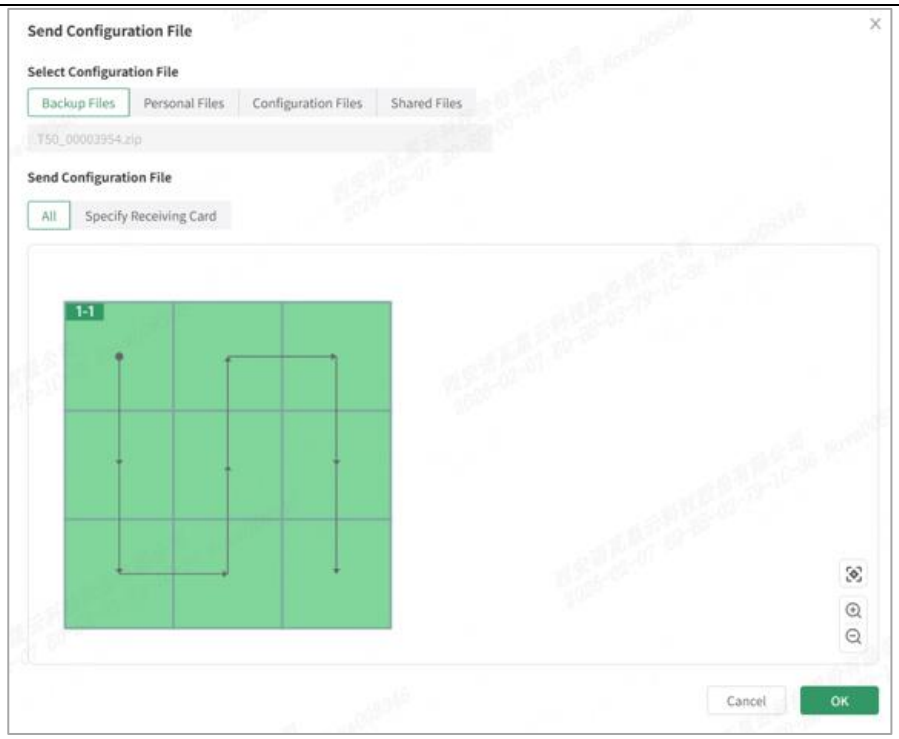
Product Series	Product Model
MCTRL Series	MCTRL300, MCTRL500, MCTRL600/ MCTRL660, MCTRL660 PRO, MCTRL660 ROE, MCTRL700, MCTRL700 Pro, MCTRL1600, MCTRL2000, MCTRL4K, MCTRL4K-S /MCTRL4K_ViewPro, MCTRLR5
KT Series	KT3, KT16_ZM, KT16E, KT8E, KT20L, KT16C
All-in-one Series	• K series: K16, K8, K20, K40 • V series: V6, V8, V10, V12, V16, V24, V32, V40, V760, V960, V1060, V1060n, V1160, V1260, V1260n, V2460 • VC series: VC2, VC4, VC6, VC6 Pro, VC10, VC10 Pro, VC16 • VX series: VX1, VX400, VX400s, VX400s-N, VX400 Pro, VX600, VX600 Pro, VX1000, VX1000 Pro, VX2000 Pro, VX16s
Other sending cards	MP8-JF, ASD200, E500, E510, MSD700, MSD700_1, LP10SD1600, SD2000E, GT4000, FTSC4000-E

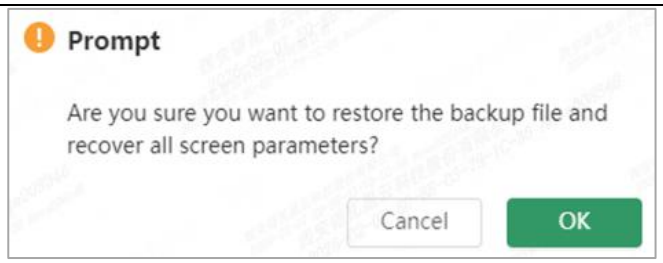
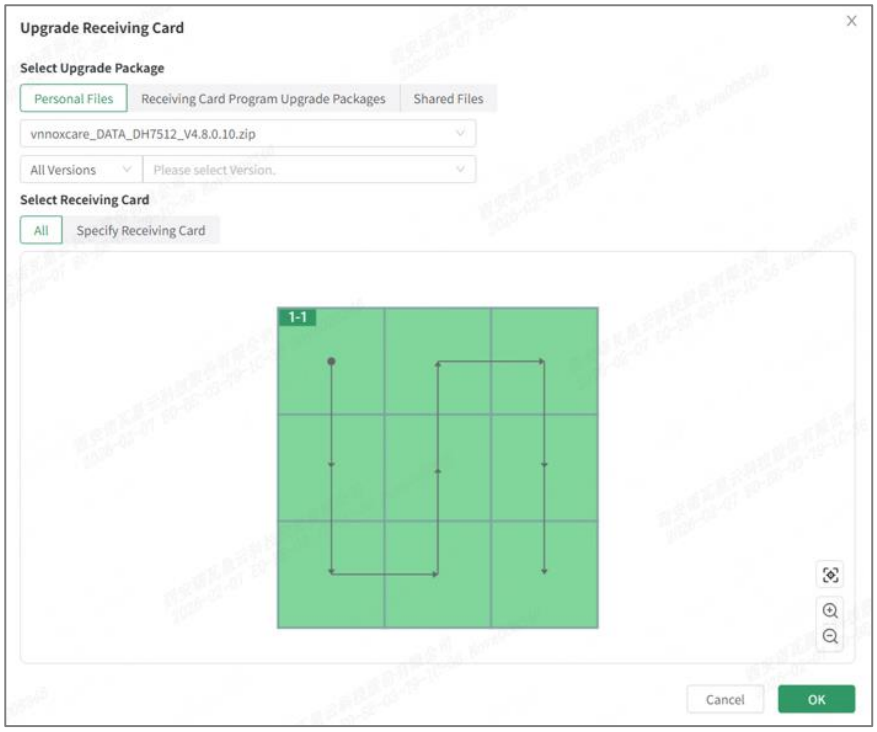
Function Description

- Screen configuration

Function Interface	The **Monitoring and Maintenance** tab enables centralized management and control of screens. In the right-side **Screen Control** pane of the tab, users can control screen status, adjust brightness, send configuration files, send screen connection files, recover the system via backup files, obtain backup files, and upgrade receiver cards.

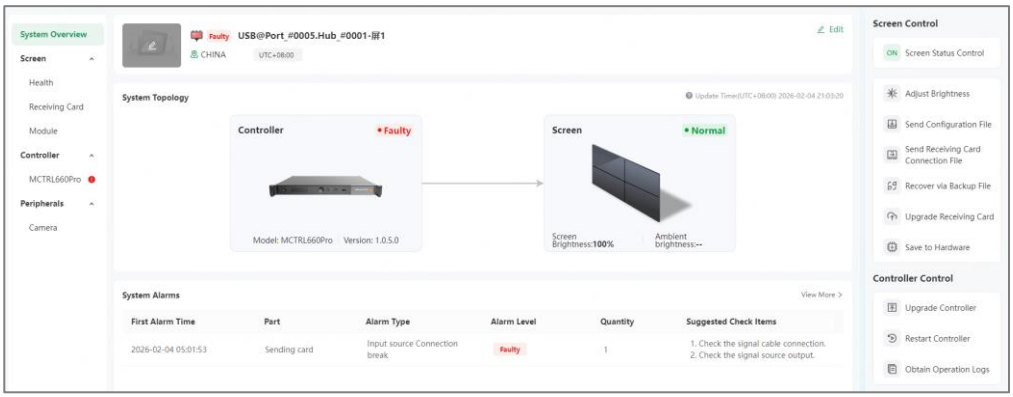
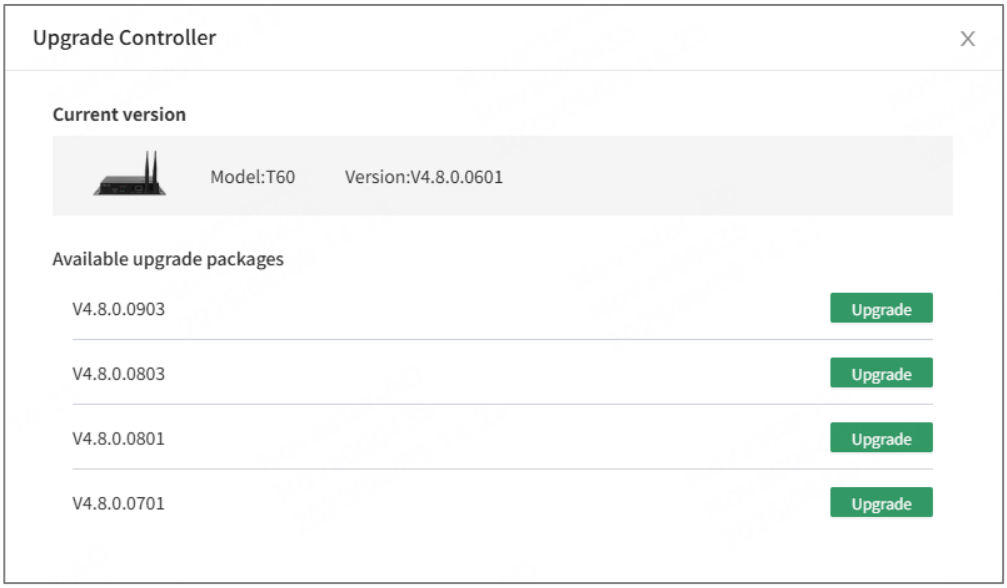
	
Screen Status Control	Click **Screen Status Control**. In the pop-up window, select **Normal Display** or **Black screen**, and click **OK**. 
Adjust Brightness	Click **Adjust Brightness**. In the pop-up window, drag to set the brightness value and then click **OK**. 
Send Configuration File	Step 1. Click **Send Configuration File**. Step 2. In the pop-up window, select a configuration file. You can choose from **Backup Files**, **Personal Files**, **Configuration Files**, and **Shared Files**. Step 3. Select the type of the configuration file to send, including **All** and **Specify Receiving Card**.

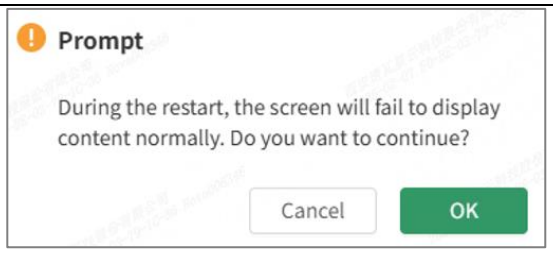
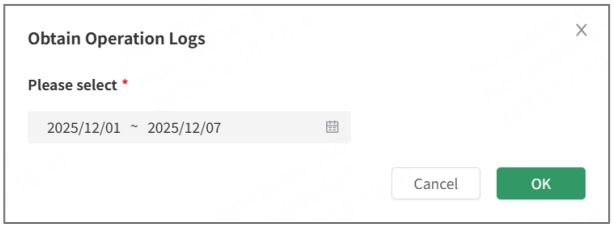
	 Step 4. Click **OK** and wait for c**onfiguration files to be sent**.
Send Receiving Card Connection File	Step 1. Click **Send Receiving Card Connection File**. Step 2. In the pop-up window, select a screen connection file. You can choose from **Backup Files**, **Personal Files**, and **Shared Files**. Step 3. Click **OK** and wait for screen **connection files to be sent**. 
Recover via Backup File	Step 1. Click **Recover via Backup File**. Step 2. In the pop-up window, click **OK** to recover all screen parameters.

<table>
<tr><td></td><td> 
</td></tr>
<tr><td>Upgrade Receiving Card</td><td>Step 1. Click Upgrade Receiving Card.
Step 2. In the pop-up window, select an upgrade file. You can choose from Personal Files, Receiving Card Program Upgrade Packages, and Shared Files.
Step 3. Select the upgrade method, including All and Specify Receiving Card.
 

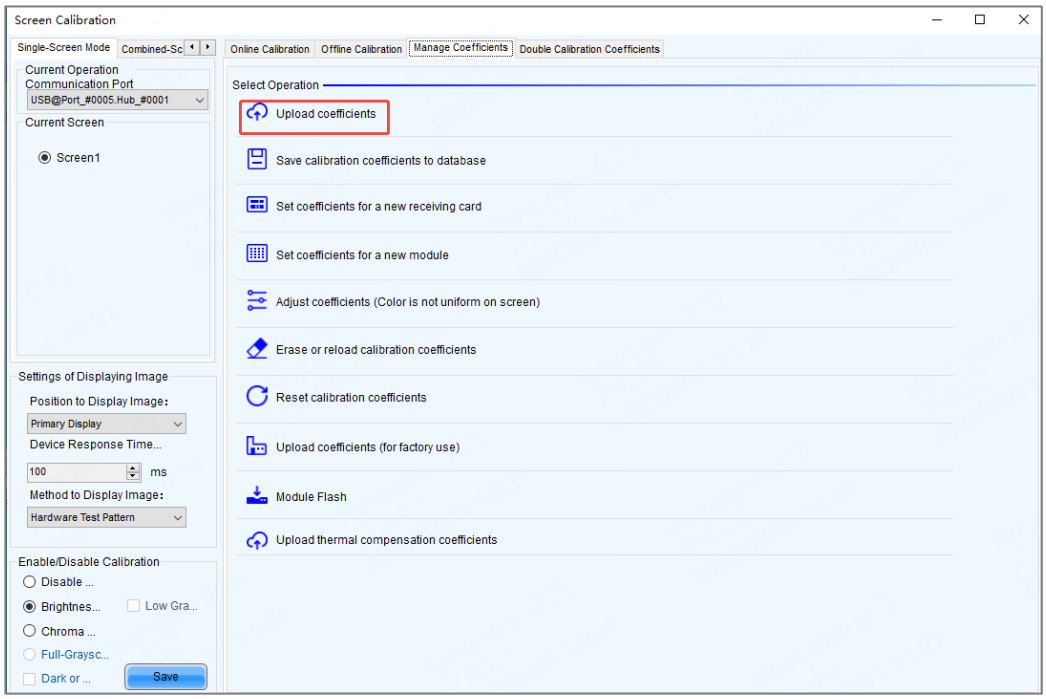
Note: If the screen has multiple different types of receiving cards, you must select Specify Receiving Card.
Step 4. Click OK and wait for the upgrade to complete.</td></tr>
<tr><td>Save to Hardware</td><td>Click Save to Hardware. In the pop-up window, click OK to save all parameters of the sending and receiving cards to hardware.
 
</td></tr>
</table>

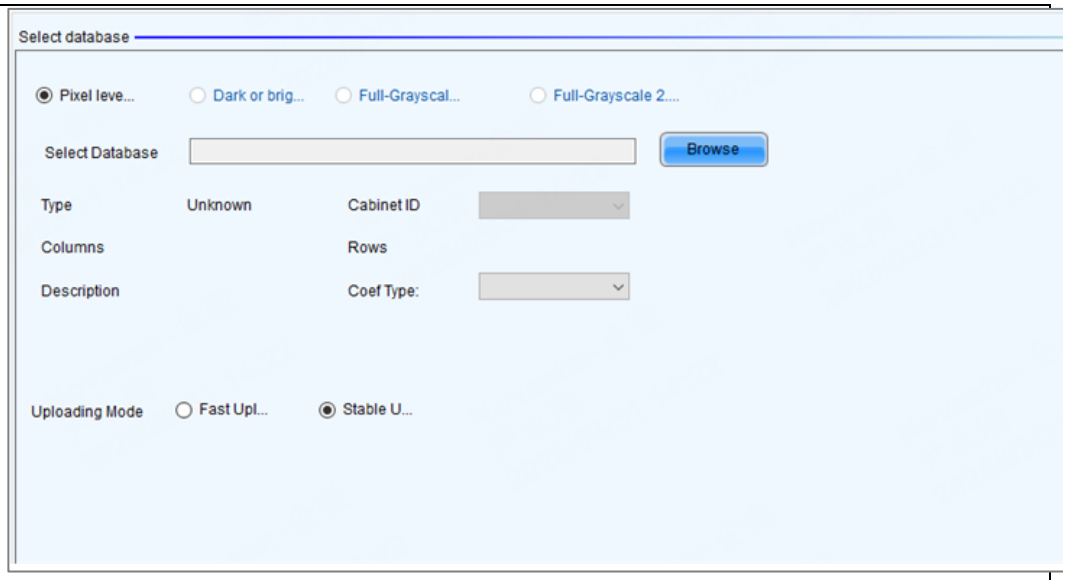
- Controller Control

Function Interface	In the right-side **Controller Control** pane, you can upgrade and restart the controller, and retrieve operation logs. 
Upgrade Controller	Click **Upgrade Controller**. In the pop-up window, you can view the current controller version and available upgrade packages. Select the target version and then click **Upgrade**. In the pop-up window, click **OK** and wait for the upgrade to complete.  Note: This function has restrictions on devices. The supported devices are as follows: MCTRL300, MCTRL500, MCTRL600, MCTRL660, MCTRL660 PRO, MCTRL660 ROE, MCTRL700, MCTRL700 Pro, MCTRL1600, MCTRL2000, MCTRL4K, MCTRL4K-S, MCTRL4K_ViewPro, MCTRLR5, LP10SD1600, E500, E510, MSD700, GT4000
Restart Controller	Click **Restart Controller**. In the pop-up window, click **OK**.

	 Note: This function has restrictions on devices. The supported devices are as follows: MCTRL300, MCTRL500, MCTRL600, MCTRL660, MCTRL660 PRO, MCTRL660 ROE, MCTRL700, MCTRL700 Pro, MCTRL1600, MCTRL2000, MCTRL4K, MCTRL4K-S, MCTRL4K_ViewPro, MCTRLR5, LP10SD1600, E500, E510, MSD700, GT4000
Obtain Operation Logs	Click **Obtain Operation Logs**. In the pop-up window, select the start date and end date (up to 7 days of operation logs can be retrieved), and click **OK**. 

2.2 Upload Calibration Coefficients for Module Database

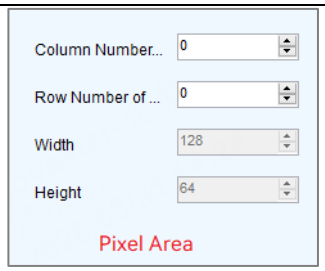
Function Interface	Choose **Calibration** > **Screen Calibration** > **Manage Coefficients.** 
Upload Coefficients	Step 1: Click **Upload coefficients** to enter the **Select database** interface. Select the module database, and the interface will display **Module Database** and **Module ID**.

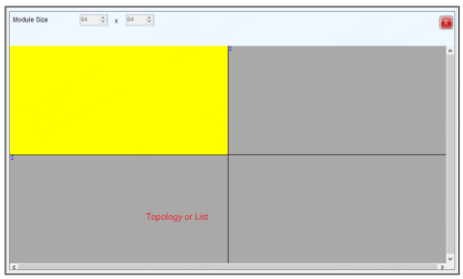


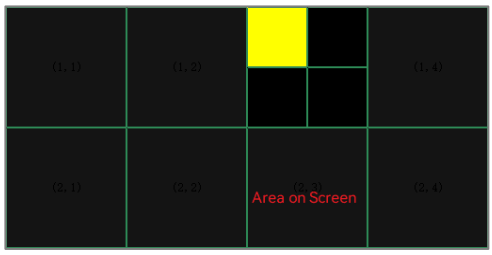
Note: The module database supports only three coefficient types (**Coef Type**): low grayscale, brightness and chroma, and full grayscale 1.0. The database is a V4 database.

Step 2 Click **Next** to enter the coefficient area selection interface. You can select by pixel area, by topology or list, or by area on screen.

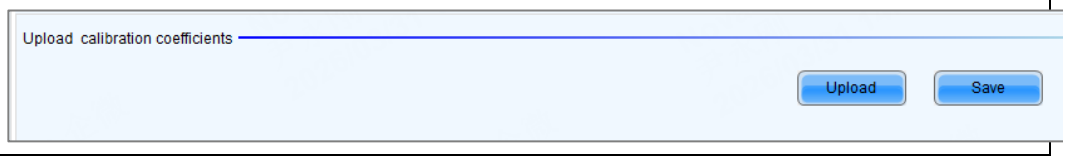
Note: You need to double-click the topology diagram or a list cell to enter the module layout interface and select the corresponding module.







Step 3: Click **Next**. In the coefficient upload interface, click **Upload** and **Save** to complete coefficient uploading.



3 Newly Supported Chips

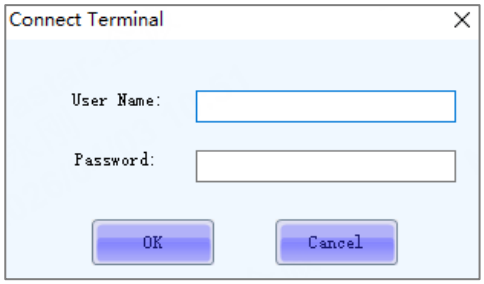
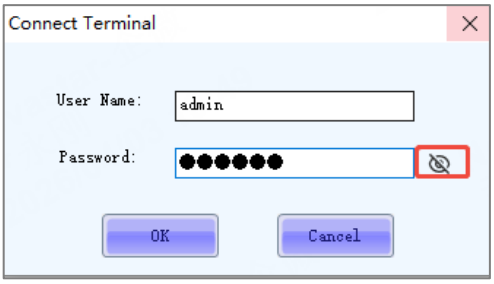
No.	Manufacturer	Model	Driver Version
1	ICND	ICND3150S	V2.0.0
2	ICND	ICND2069S	V2.0.0
3	ICND	ICND3069	V1.0.0/V2.0.0
4	ICND	ICND2055S	V1.0.0/V2.0.0
5	ICND	ICND2153S	V1.0.0/V2.0.0
6	ICND	ICND2055	V1.0.0/V2.0.0
7	ICND	ICND1069	V1.0.0/V2.0.0

No.	Manufacturer	Model	Driver Version
8	ICND	ICND1065S	V1.0.0/V2.0.0
9	ICND	ICN2065	V1.0.0/V2.0.0
10	ICND	ICND3065	V1.0.0/V2.0.0
11	ICND	ICND2165	V1.0.0/V2.0.0
12	ICND	ICND2069	V1.0.0/V2.0.0
13	ICND	ICND2163S	V2.0.0
14	ICND	ICND2153U	V2.0.0
15	ICND	ICND1069L	V2.0.0
16	ICND	ICND1066	V2.0.0
17	ICND	ICND1065L	V1.0.0/V2.0.0
18	DP	DP3370S	V2.0.0
19	DP	DP3265	V1.0.0/V2.0.0
20	DP	DP3265S	V1.0.0/V2.0.0
21	DP	DP3365S	V1.0.0/V2.0.0
22	DP	DP3367S	V1.0.0/V2.0.0
23	DP	DP3269	V1.0.0/V2.0.0
24	DP	DP3356	V1.0.0/V2.0.0
25	DP	DP3364	V1.0.0/V2.0.0
26	DP	DP6366S	V2.0.0
27	DP	DP3368	V1.0.0/V2.0.0
28	MBS	MBS7252	V2.0.0
29	MBS	MBS7253	V2.0.0
30	MBS	MBI5251	V1.0.0/V2.0.0

No.	Manufacturer	Model	Driver Version
31	MBS	MBS7264	V1.0.0/V2.0.0
32	MBS	MBI5264	V1.0.0/V2.0.0
33	MBS	MBI5253B	V1.0.0/V2.0.0
34	MBS	MBI5762A	V1.0.0/V2.0.0
35	CFD	CFD325E	V2.0.0
36	CFD	CFD455C	V1.0.0/V2.0.0
37	CFD	C8455	V1.0.0/V2.0.0
38	CFD	C8385	V1.0.0/V2.0.0
39	CFD	C8365	V1.0.0/V2.0.0
40	CFD	CFD655	V1.0.0/V2.0.0
41	CFD	C8485	V2.0.0
42	SM	MW16330	V2.0.0
43	SM	SM16380SW	V1.0.0/V2.0.0
44	SM	SM16386S	V1.0.0/V2.0.0
45	SM	SM16386SH	V1.0.0/V2.0.0
46	SM	SM16189SC	V1.0.0/V2.0.0
47	SM	SM16510SC	V1.0.0/V2.0.0
48	SM	SM16269SW	V1.0.0/V2.0.0
49	FM	FM6565E	V1.0.0/V2.0.0
50	FM	FM6565S	V2.0.0
51	FM	FM6373D	V2.0.0

4 Improvements

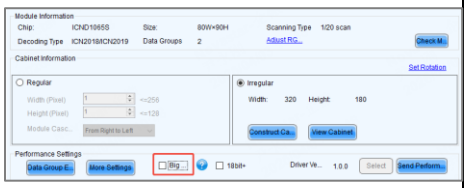
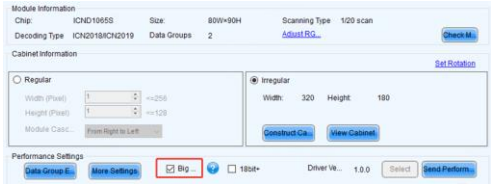
4.1 Multimedia Player Login

Optimization	Before	After
Added the password display function.		

4.2 Optimization to VNNOX Care Monitoring and Maintenance 3.0

Environment	Optimization	Before	After
• Supported resolution: 2K • Cabinet resolution: 256 × 256 • Controller: MCTRL2000 (single unit) • Load capacity: 6 Ethernet ports. Each port can drive 7 cabinets. • Server node: US	Save to Hardware	60s	10s
	Adjust Brightness	16s	1s
	Recover via Backup File	70s	18s
	Send Configuration File	44s	10s

4.3 Big Load Capacity Mode

Optimization	Before	After
After the software is installed and launched for the first time, **Big Load Capacity Mode** is selected by default.		

4.4 Cloud-based Configuration File Loading

Optimization	Before	After
Reduced cloud-based configuration file loading time.	12s	3s

5 Bug Fixes

Module	Issue Description	Note
Program update	Fixed abnormal loading of the receiving card firmware package on some computers.	
Error rate	Fixed memory leaks caused by long-term bit error rates.	
Beam adjustment	Fixed the issue that seam correction cannot be performed on the VC6 Pro.	
VNNOX Care	Fixed the issue that some computers outside China cannot have their NovaLCT screens bound to VNNOX Care.	
Calibration	Fixed the issue that calibration coefficients saved to the database by area cannot be correctly loaded to the screen.	
	Fixed the issue that the first row of pixels are dark after low-grayscale full-screen calibration.	
	Fixed module flash verification failures in specific scenarios.	
NCP	Fixed abnormal mapping display after multi-mode parameters are sent on the NCP management interface.	
Driver IC	Fixed Gamma overexposure under certain parameter configurations when the SM16389SF chip is used.	
	Fixed screen flickering after Smart Settings is completed for the SM16237DS chip.	
	Fixed abnormal brightness display when the MBI5264 and ICND2153S chips are used.	
	Fixed abnormal display effects after extended attributes are sent when the MBS7252 chip is used.	

Module	Issue Description	Note
	Fixed the issue that the refresh rate read on the NCP management interface is incorrect for the XM11206 chip.	
	Fixed the issue that the red value of dark block compensation 3 on the extended attribute interface is abnormal when the MBI5864 chip is used.	
	Fixed the issue that an error is prompted upon entering the extended attribute interface when the MBI5756 and MBS7264 chips are used.	
	Fixed vertical ghosting after the module is light up when the CFD153A chip is used.	
	Fixed the issue that the first scan detects blue lines under low grayscale or dark backgrounds when the ICND1065 chip is used.	
	Fixed the issue that the ghost elimination grade on NovaLCT is inconsistent with that displayed on the Cabinet Tool when the FM6565 chip is used.	

6 Notices

- If you use NovaLCT V5.9.0 to bind a screen to the cloud and then downgrade NovaLCT to a version earlier than V5.9.0, you need to remove the binding and bind the screen again.
- If a screen has been bound to VNNOX Care, automatic refresh cannot be set on local monitoring (MonitorSite). You must manually refresh the monitor information.
- If a screen has been bound to VNNOX Care, the local email alert function will be disabled. You can use the cloud-side email alert function.
- For the TU series to support smart settings under Android sources, you must use a firmware version of V1.6.1 or later.
- From V5.9.0 and later, only 64-bit Windows systems are supported.
- The backup file generated after VNNOX Care binding is not compatible with NCP.

Trademark

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Statement

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