



ColorAdept Configuration Manager V1.6

User Manual

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1. Introduction

ColorAdept Configuration Manager is the software for configuration of cabinet and module parameters.

2. Installation

Step 1: Download ColorAdept Configuration Manager software from Colorlight's official website: <https://www.lednets.com/Support/Software/index.html>.

Step 2: Open the downloaded file to start installation with the setup wizard.

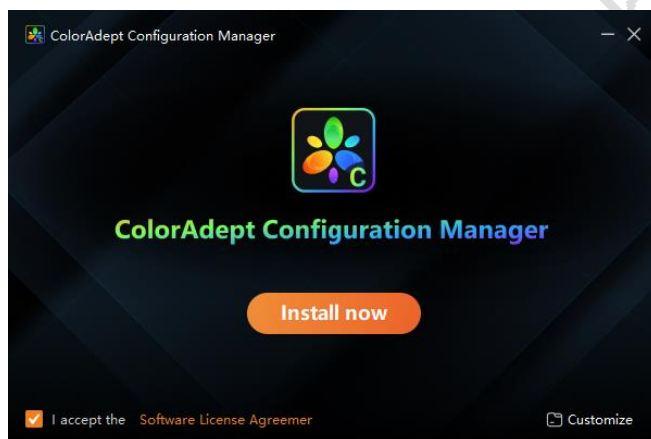


Figure 2.1-1 Install now

Step 3: Click **Install now** or **Customize** to continue.

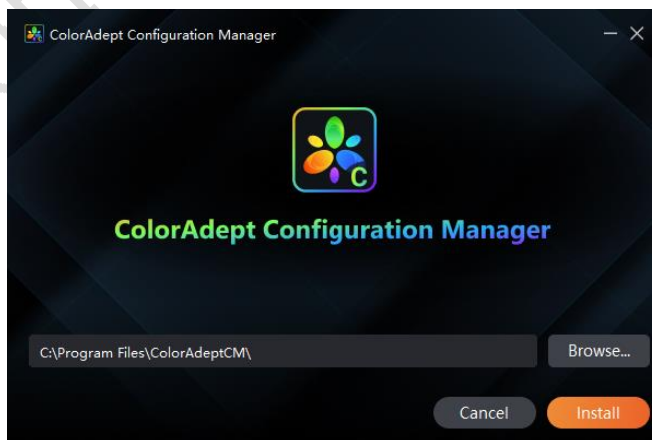


Figure 2.1-2 Install location

Step 4: When installation has finished, click **Start** to launch the software.

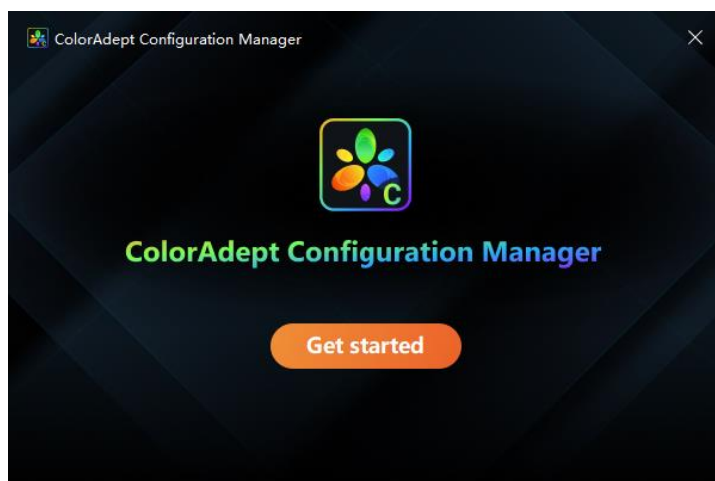


Figure 2.1-3 Finish installation

3. Quick Start

3.1 Cabinet Detection

After connecting cabinets to PC directly through Ethernet cables, you can select a corresponding network interface to detect cabinets, as shown in Figure 3.1-1.

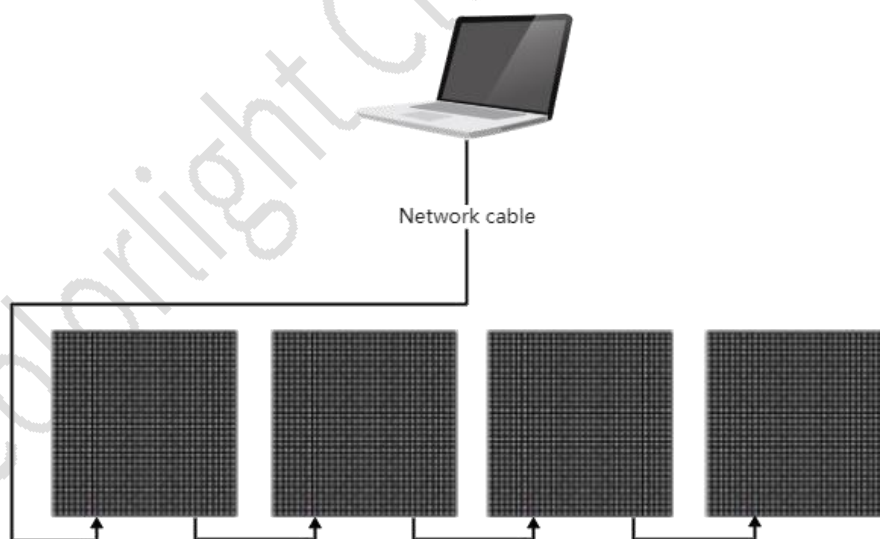


Figure 3.1-1 Connection diagram (network interface mode)

Another option is to connect cabinets to a processor, which is connected to a PC through an Ethernet cable or an Ethernet switch, and then select a corresponding processor to detect cabinets, as shown in Figure 3.1-3.

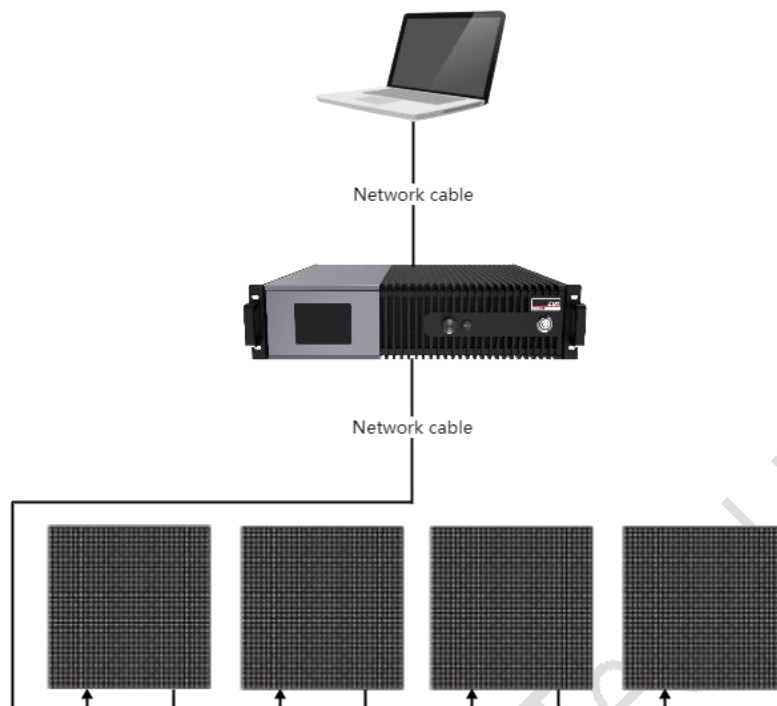


Figure 3.1-2 Connection diagram (processor mode)

Note:

Make sure the processor and the PC are connected to the same network segment.

3.2 Cabinet Library Configuration

Step 1 Click **Settings** on the menu bar and select **Cabinet library** to enter the cabinet library interface.

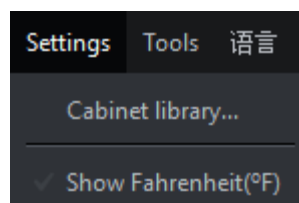


Figure 3.2-1 Cabinet library

Step 2 Click **Manage packs** to enter the cabinet pack management interface.

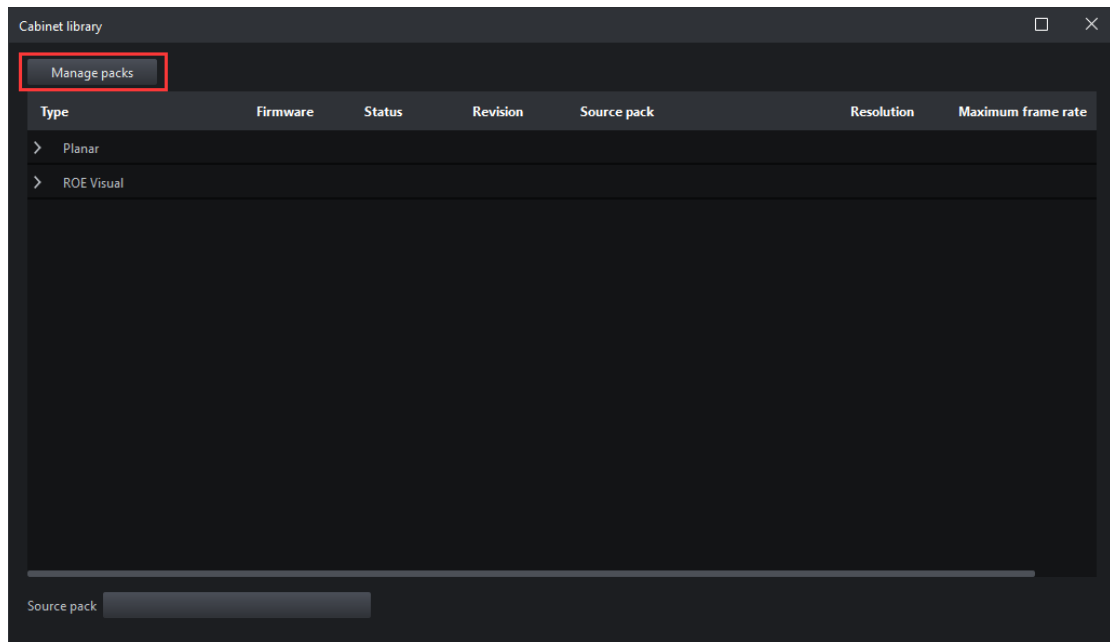



Figure 3.2-2 Cabinet library interface

Step 3 Click the button  to import a selected cabinet pack.

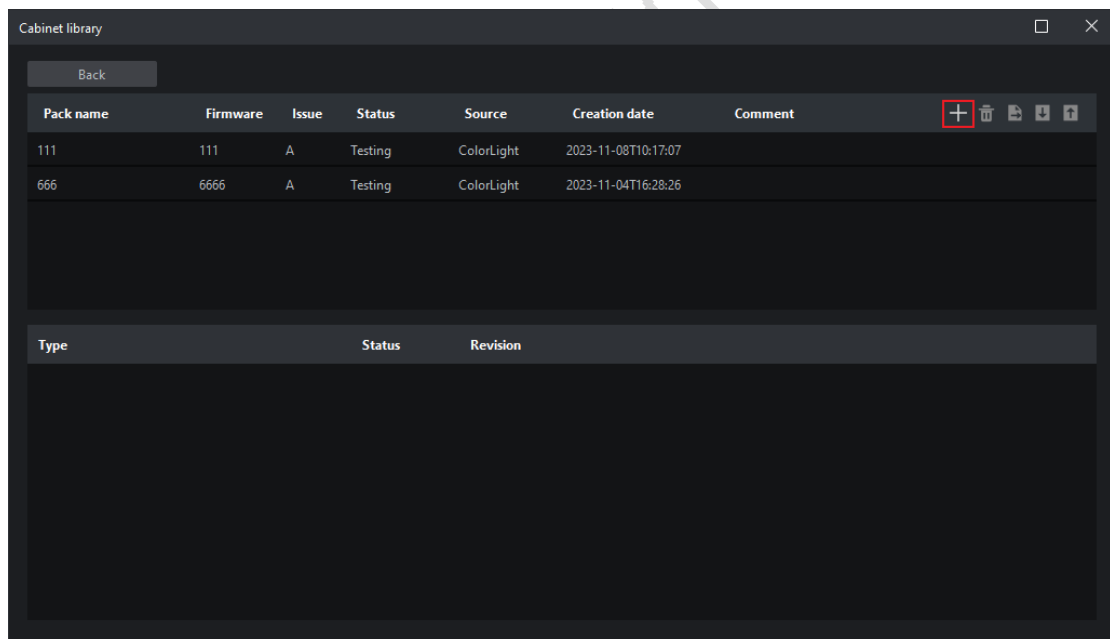


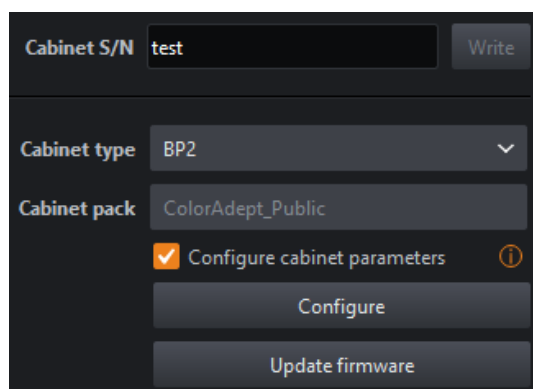
Figure 3.2-3 Import cabinet pack

3.3 Cabinet Configuration

Step 1: Select a cabinet from the cabinet list.

Step 2: Select a cabinet type on the right side panel.

Step 3 Click **Configure** to continue.



The screenshot shows a configuration panel with the following elements:

- Cabinet S/N**: A text input field containing "test" and a "Write" button.
- Cabinet type**: A dropdown menu currently set to "BP2".
- Cabinet pack**: A dropdown menu currently set to "ColorAdept_Public".
- Configure cabinet parameters**: A checkbox with an information icon to its right.
- Configure**: A button.
- Update firmware**: A button.

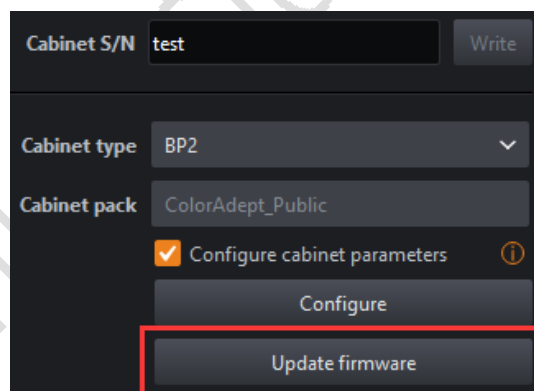
Figure 3.3-1 Configure cabinet

3.4 Update Firmware

Step 1: Select a cabinet from the cabinet list.

Step 2: Select a cabinet type on the right side panel.

Step 3: Click **Update firmware** to continue.



This screenshot is identical to Figure 3.3-1, but the **Update firmware** button at the bottom is highlighted with a red rectangular border.

Figure 3.4-1 Update firmware

4. Main Interface

Send mode includes network interface mode and processor mode. Both have different user interfaces.

4.1 Toolbar

- Network interface mode

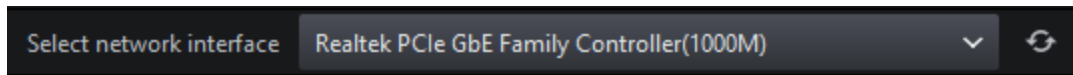


Figure 4.1-1 Select a network interface

Select network interface drop-down menu: You can select detected network interfaces.

Detect button: Click to detect the cabinet of the selected network interface.

- Processor mode

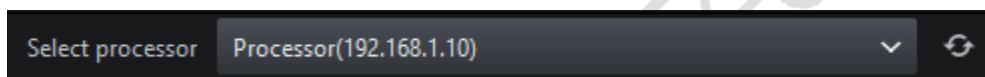


Figure 4.1-2 Select a processor

Select processor drop-down menu: You can select detected processors.

Detect button: Click to detect the cabinet of the selected processor.

4.2 Cabinet List

String position	Type	S/N	Firmware	Error/Total packets	Progress	Failed module	Temperature	Humidity	Voltage	Author	Timestamp
1	i10	test	16.07	0 / 0	N/A	N/A	77.68°F	95%	2.0V		
2	i9+	test1	15.51	0 / 0	N/A	N/A	77.79°F	61%	--		
3	i10	test2	16.07	0 / 0	N/A	1, 2, 3, 4	77.56°F	82%	2.0V		
4	i10	test3	16.07	0 / 0	N/A	1, 2, 3, 4	78.01°F	95%	2.0V		

Figure 4.2-1 Cabinet list

- **Port:** Output port.
- **String position:** In network interface mode, it indicates the position of the cabinet which is connected to the interface. In processor mode, it indicates the position of the cabinet which is connected to processor.
- **Type:** Cabinet type.

- **S/N:** Cabinet S/N.
- **Firmware:** Firmware version of the cabinet pack.
- **Error/Total packets:** The amount of errors and total packets of the cabinet.
- **Progress:** The progress of configuration or firmware update.
- **Failed module:** The number of the failed module in the cabinet.
- **Temperature:** Cabinet temperature.
- **Humidity:** Cabinet humidity.
- **Voltage:** Cabinet voltage.
- **Author:** Author information.
- **Timestamp:** Timestamp information.

4.3 Side Panel

- **Cabinet S/N**

It displays the selected cabinet S/N, which can be modified and written into the receiver card.



Figure 4.3-1 Cabinet S/N

- **Cabinet type**

It displays the selected cabinet type, which can be modified by selecting from the drop-down menu.



Figure 4.3-2 Cabinet type

- Cabinet pack

It displays the cabinet pack of the selected cabinet type. If the current cabinet type exists in two or more cabinet packs, you can change the pack via drop-down menu.

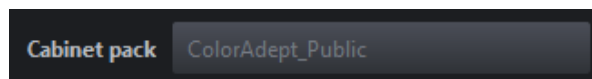


Figure 4.3-3 Cabinet pack

- Configure

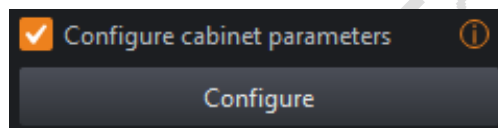


Figure 4.3-4 Cabinet parameter configuration

After selecting **Configure Cabinet Parameters** checkbox, you can click **Configure** to write cabinet parameters to the receiver card. Configuration progress is displayed in the cabinet list.

- Update firmware

Select one or more cabinets, and you can update firmware.

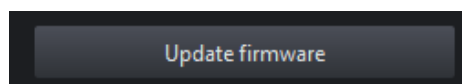


Figure 4.3-5 Update firmware

Note:

Make sure the error rate of the selected cabinet is lower than 1/1000000 when updating the firmware.

- Test Pattern

There are 22 different test patterns available. You can simultaneously change test patterns of multiple cabinets.

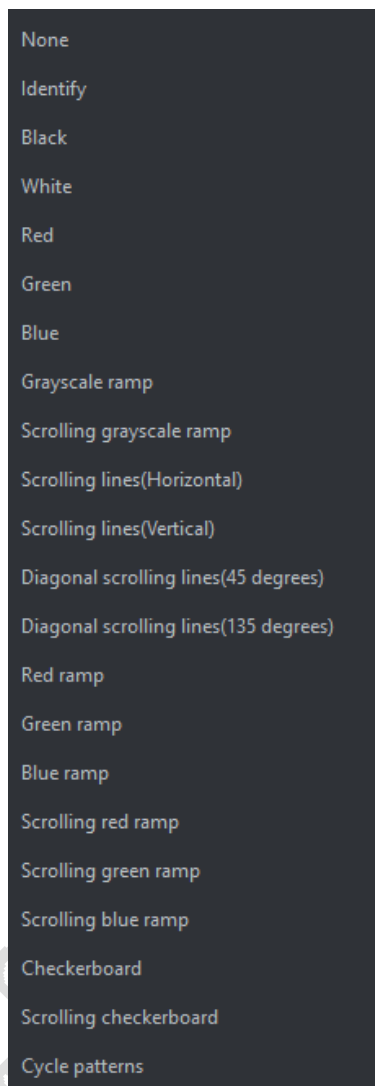


Figure 4.3-6 Test pattern

- Calibration mode

The calibration mode of the selected cabinet is switchable.

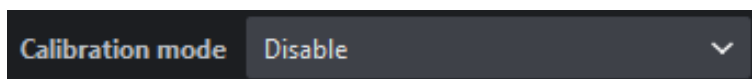


Figure 4.3-7 Calibration mode

- Brightness

The maximum brightness of the selected cabinet is marked on the slider.



Figure 4.3-8 Brightness

5. Menu Bar

5.1 Send Mode

Send mode includes Network interface mode and processor mode, which can be selected as needed.

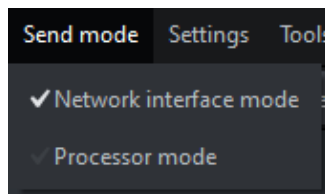


Figure 5.1-1 Send mode

5.2 Settings

5.2.1 Cabinet Library

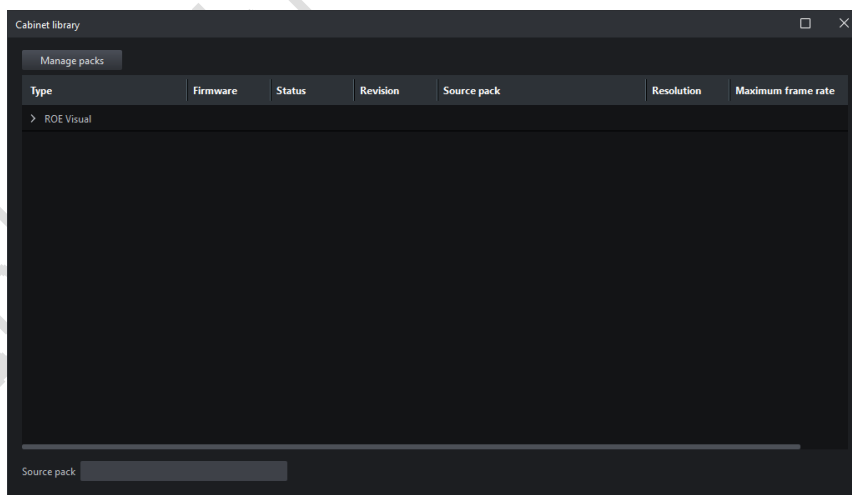


Figure 5.2-1 Cabinet library interface

- **Type:** Cabinet type.
- **Firmware:** Firmware version of the cabinet pack.

- **Status:** Release status of the cabinet type.
- **Revision:** Revision of the cabinet type.
- **Source pack:** Source pack to which the cabinet belongs.
- **Resolution:** Corresponding resolution of the cabinet type.
- **Maximum frame rate:** Maximum frame rate of the cabinet type.
- **Source pack drop-down menu:** It displays the name and the firmware version of the cabinet pack to which the cabinet type belongs. Note that this field will display nothing when you has not selected cabinet type or when you click on the manufacturer name. If the current cabinet type exists in two or more cabinet packs, drop-down list is available for changing the pack of the selected cabinet type.
- **Interface for cabinet pack management**

Click **Manage packs** at the upper left of cabinet library interface to display pack management interface.

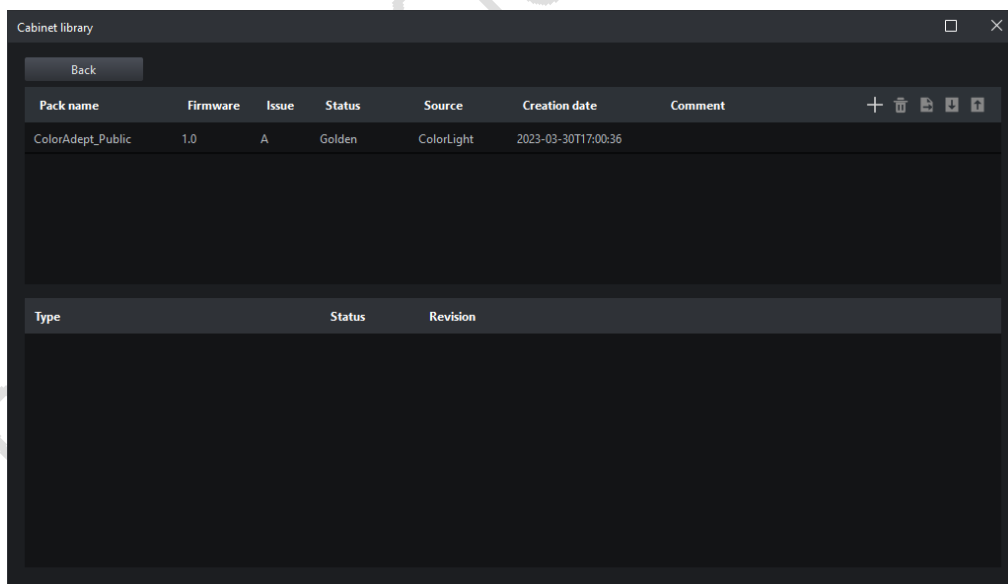


Figure 5.2-2 Pack management interface

- **Back:** Return back to cabinet library interface.
- **Import:** Import the selected cabinet pack.

- **Delete:** Delete the selected cabinet pack.
- **Export:** Export the selected cabinet pack.
- **Move up/down:** Move the selected cabinet pack to adjust its priority.

● Cabinet Pack list

Pack name	Firmware	Issue	Status	Source	Creation date	Comment
ColorAdept_Public	1.0	A	Golden	ColorLight	2023-03-30T17:00:36	

Figure 5.2-3 Cabinet pack list

- **Pack name:** Name of the cabinet pack.
- **Firmware:** Firmware version of the cabinet pack.
- **Issue:** Revision of the cabinet pack.
- **Status:** Release status of the cabinet pack.
- **Source:** Source of the cabinet pack.
- **Creation date:** Created date of the cabinet pack.
- **Comment:** Comment of the cabinet pack.

● Cabinet type list

Type	Status	Revision
ROE Visual		
BP2	Golden	2

Figure 5.2-4 Cabinet type list

- **Type:** Cabinet type.
- **Status:** Release status of the cabinet type.
- **Revision:** Revision of the cabinet type.

5.2.2 Show Fahrenheit (°F)

The temperature is displayed in Fahrenheit (°F) after checking this feature.

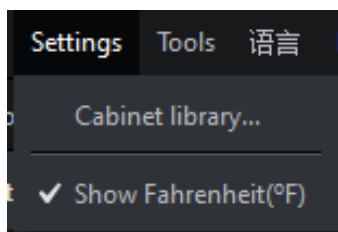


Figure 5.2-5 Show Fahrenheit (°F)

5.3 Tools

5.3.1 Read/Write Module S/N

Click **Read/Write module S/N** to bring up the corresponding setup interface if there are modules within the cabinets, as shown in Figure 5.3-1.

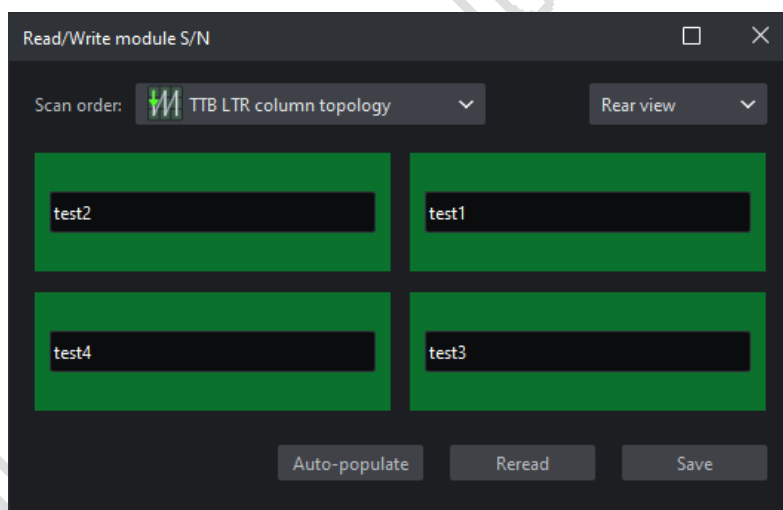


Figure 5.3-1 Read/Write module S/N interface with modules in the cabinet

- Scan order: 16 scan orders are available.



Figure 5.3-2 Scan order

- **Front view:** Select this option to display module position in the front view.
- **Rear view:** Select this option to display module position in the rear view.
- **S/N input box:** It displays the module S/N which can be edited.
- **Auto-populate:** Module S/N is automatically populated in order.
- **Reread:** Reread module S/N.
- **Save:** Write the S/N to the module.

5.3.2 Read/Write Module Current Gain

Click **Read/Write module current gain** to pop up the following interface if there are modules within the cabinets, as shown in Figure 5.3-2.

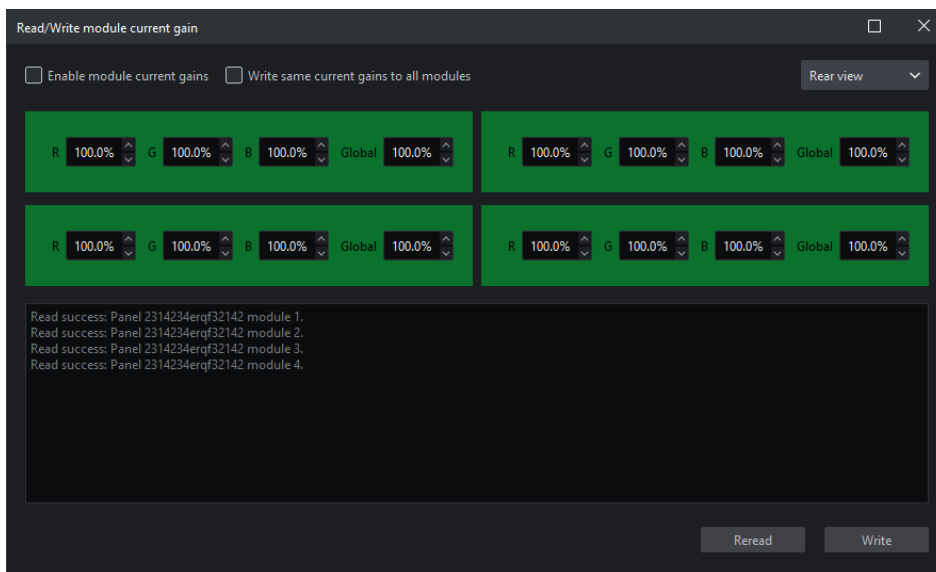


Figure 5.3-3 Read/Write module S/N interface with modules in the cabinet

Enable module current gains: Enable the function of module current gains.

Write same current gains to all modules: After checking this feature, only the red, green, blue, and global current gains of the first module are displayed on the interface. Click **Write** to save the parameters to all modules.

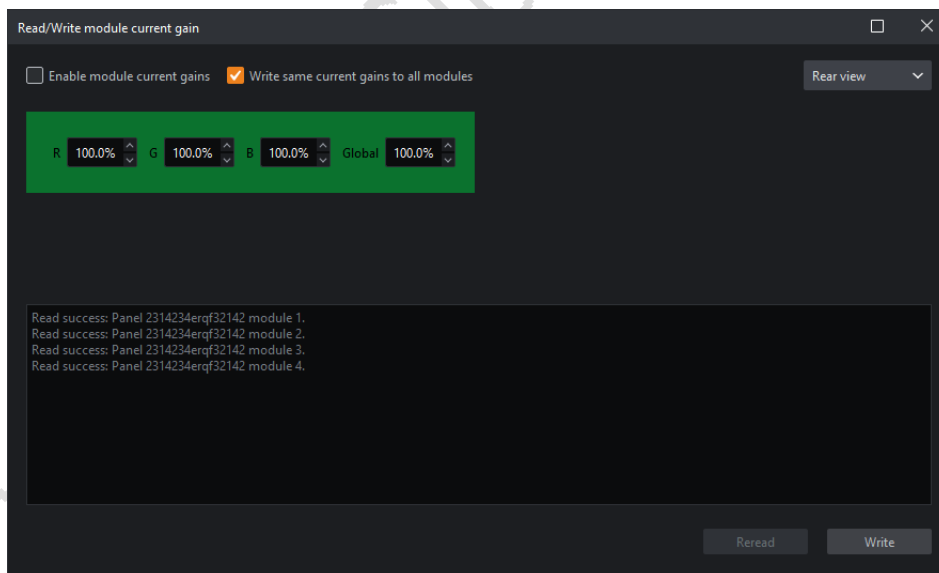


Figure 5.3-4 The interface of Read/Write module current gains

- **Front view:** Select this option to display module position in the front view.
- **Rear view:** Select this option to display module position in the rear view.

- Information box: It displays the operation progress of reading or writing current gains of each module.
- Reread: Reread module current gains.
- Write: Write the current gain parameters set on the current interface to the modules.

5.3.3 Read/Write Cabinet Color Gamut Data

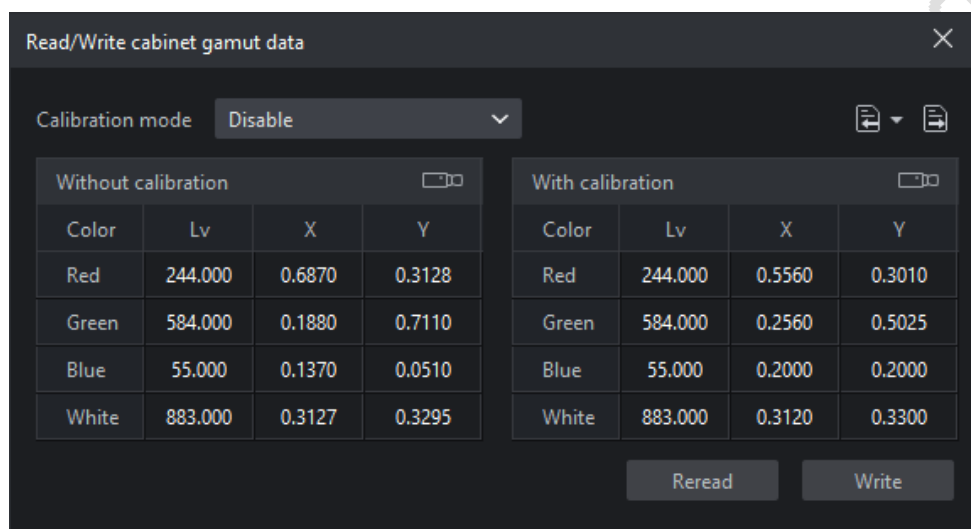


Figure 5.3-5 The interface of Read/Write cabinet color gamut data

- Without calibration / With calibration
 - Red, Green, Blue, White
 - ◆ **Measuring colors...:** Automatically measure color gamut of the selected cabinet with color meter.
 - ◆ **Lv:** Brightness of red/green/blue/white without/with calibration.
 - ◆ **X:** The X-coordinate of red/green/blue/white points without/with calibration.
 - ◆ **Y:** The Y-coordinate of red/green/blue/white points without/with calibration.

 Note:

When multiple cabinets with different color gamut data are selected, “--” indicates different brightness, and “-,-,-” indicates different X/Y coordinates.

- **Calibration mode:** Switch calibration mode.
- **Import:** Import color gamut data files (.cmcgf or .lxy format).
- **Export:** Export color gamut data locally.
- **Reread:** Reread color gamut data of the corresponding cabinet.
- **Write:** Write color gamut data to the corresponding cabinet.

5.3.4 Configure Cabinet Parameters

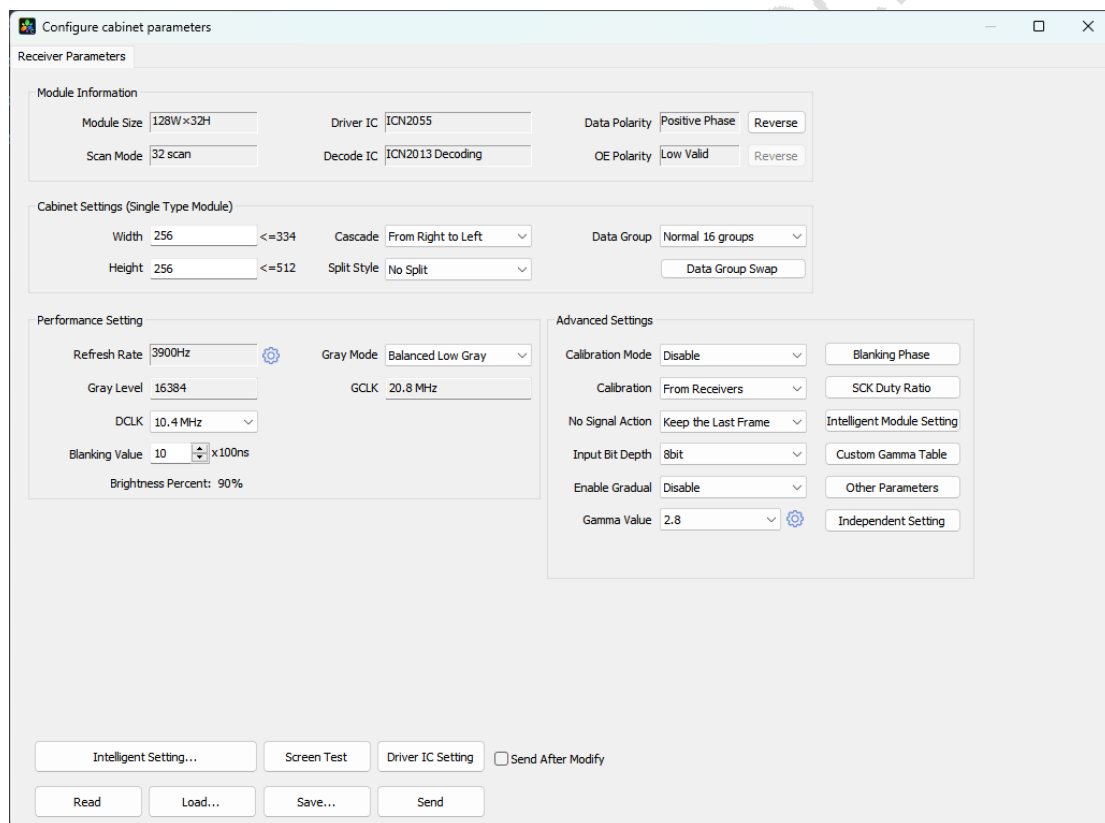


Figure 5.3-6 The interface of Configure cabinet parameters

- **Read:** Read cabinet parameters.
- **Load:** Import a local parameter file (.rcvbp format).
- **Save:** Save cabinet parameters in .rcvbp format locally.

- Send: Send cabinet parameters in the current interface to the receiver.
- Screen test: Set screen test pattern and brightness.

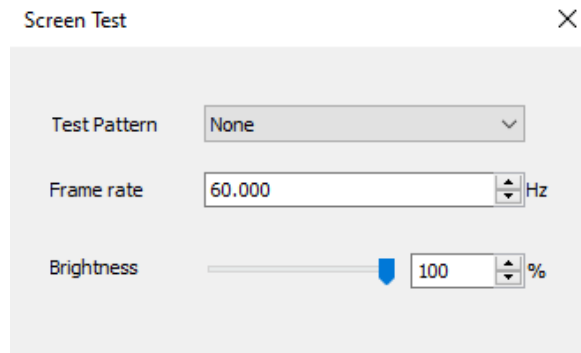


Figure 5.3-7 The interface of Screen Test

Statement

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