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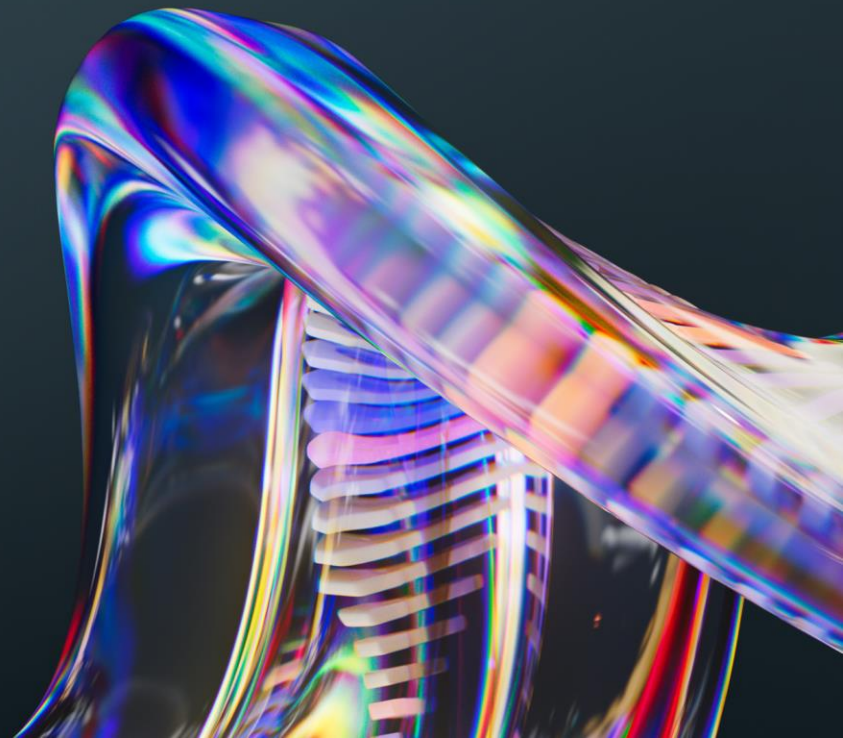
Novastar COEX Handover



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Novastar LED Controller Software - Coex VMP

Operating Systems

Windows Mac OS Linux

Connections

Or

Router
IP Switch

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MX30 | All-In-One Controller 192.168.255.160

Input

HDMI 1 | HDMI 2 | DP

SDI 1 | SDI 2 | Internal

Internal L1 L2 L3
1920x1080 @144Hz

Genlock
144Hz

Port

1 2 3 4 5
6 7 8 9 10

Screen
1920x1080 @144Hz
100%

OPT 1 2

Sync: HDMI 1@143.86Hz | SDR | 36°C

MX40 Pro | Send-Only Controller 192.168.0.10

Input

HDMI1 | HDMI2 | HDMI3

DP | SDI | Internal

HDMI1 4096*2160 @60.00Hz

Port

1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20

Screen
4096*2160 @59.94Hz
100%

OPT 1 2 3 4

Sync:Genlock | HDR10 | 3D | 36°C

Set an IP Address

Or

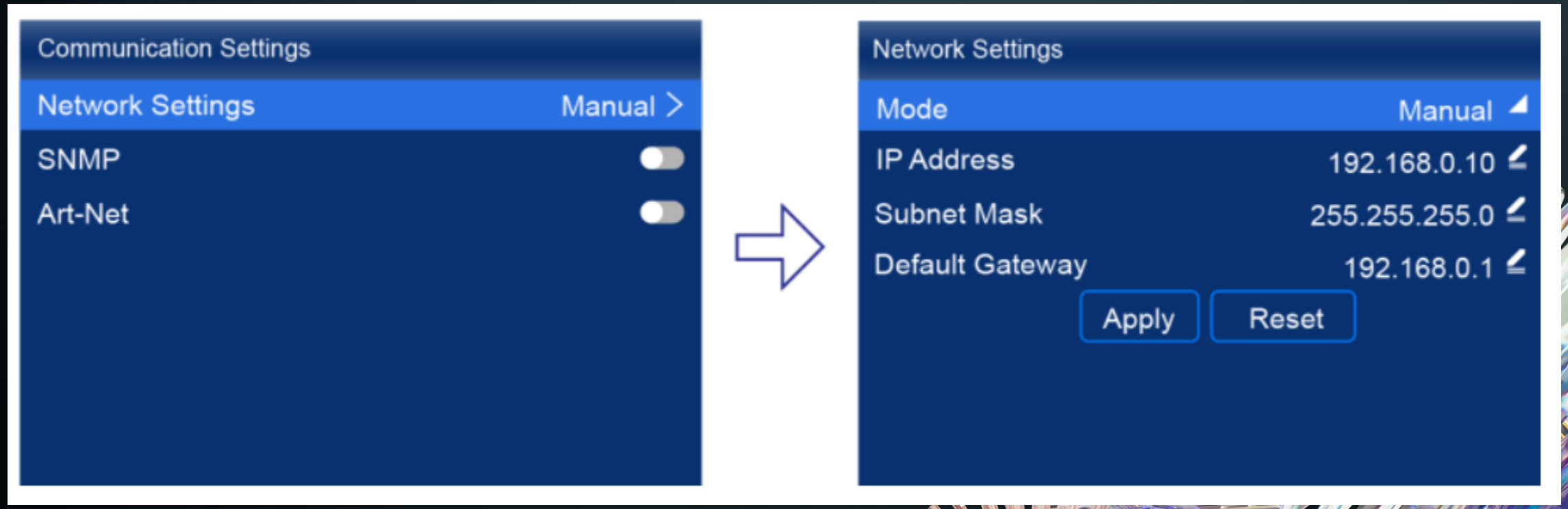
Router

IP Switch

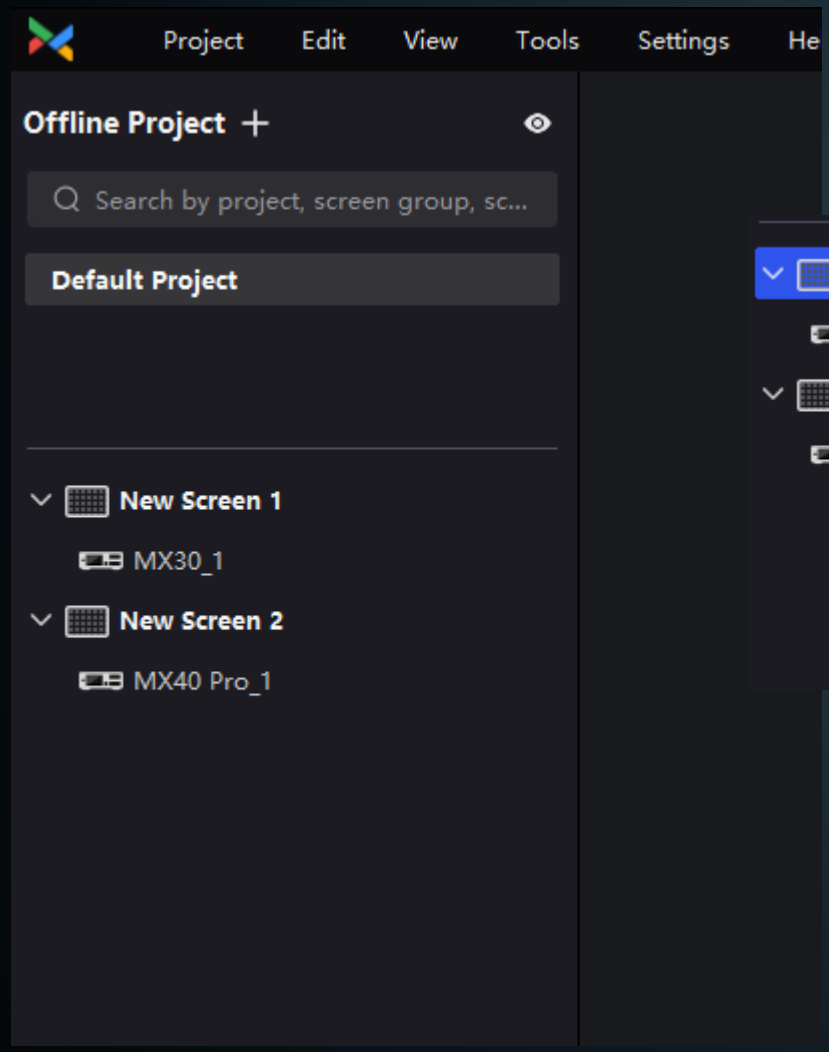
Manually set a static IP address for the device or set up the device to automatically obtain an IP address.
On the main menu screen, choose Communication Settings > Network Settings.
Choose Mode and then select a mode from the drop-down options.

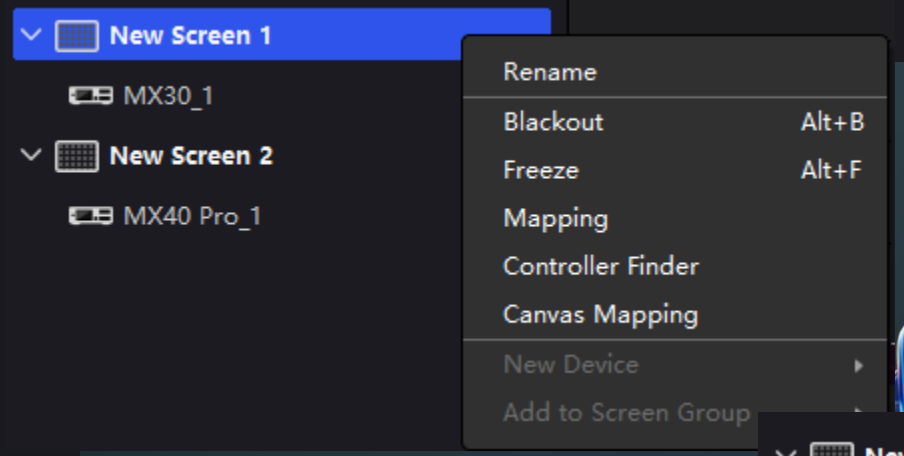
- Manual: Manually set a static IP address for the device.
- Auto: The device automatically obtains an IP address.
- If the manual mode is selected, set an IP Address, Subnet Mask and Default Gateway and select Apply.

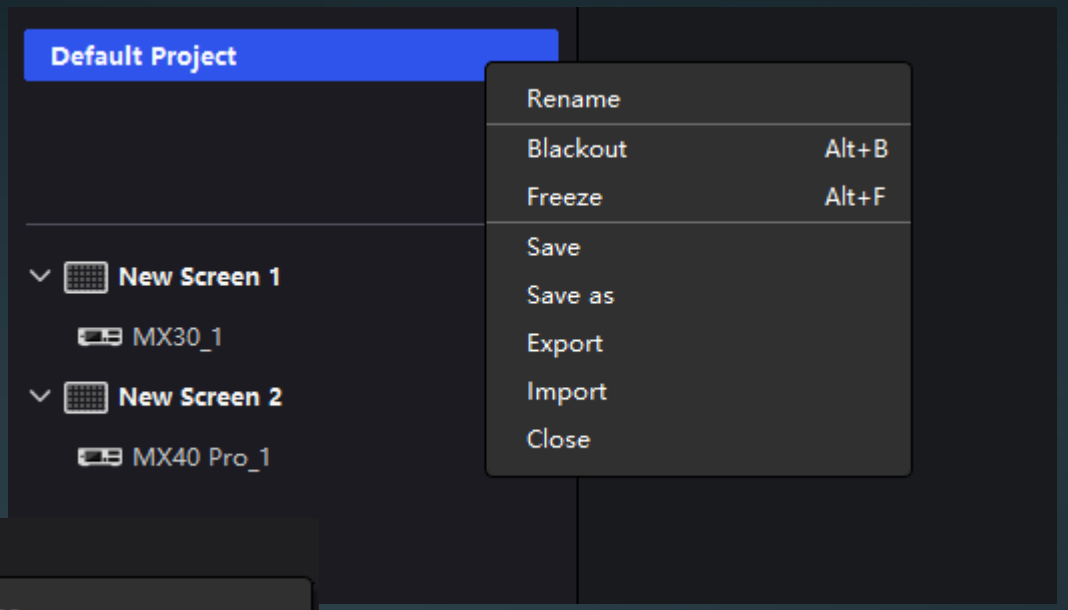
If the automatic mode is selected, this step is not required. If you want to reset the IP address to the default, select Reset.

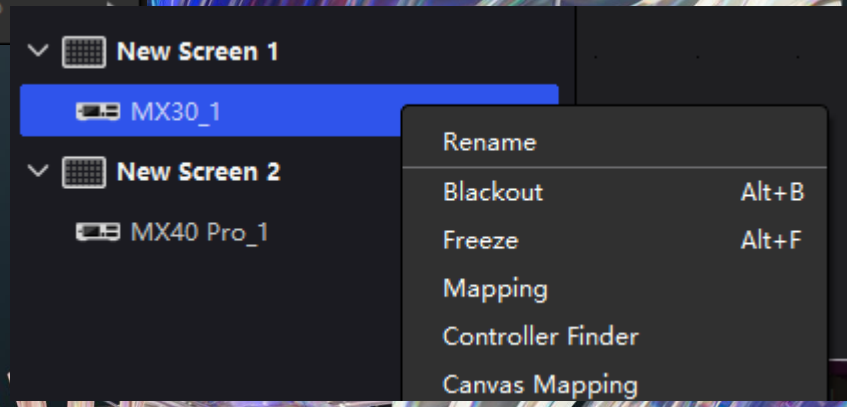


Renaming


Project
Edit
View
Tools
Settings
He
Offline Project
Search by project, screen group, sc...
Default Project
New Screen 1
MX30_1
New Screen 2
MX40 Pro_1


New Screen 1
MX30_1
New Screen 2
MX40 Pro_1
Rename
Blackout Alt+B
Freeze Alt+F
Mapping
Controller Finder
Canvas Mapping
New Device
Add to Screen Group


Default Project
New Screen 1
MX30_1
New Screen 2
MX40 Pro_1
Rename
Blackout Alt+B
Freeze Alt+F
Save
Save as
Export
Import
Close


New Screen 1
MX30_1
New Screen 2
MX40 Pro_1
Rename
Blackout Alt+B
Freeze Alt+F
Mapping
Controller Finder
Canvas Mapping

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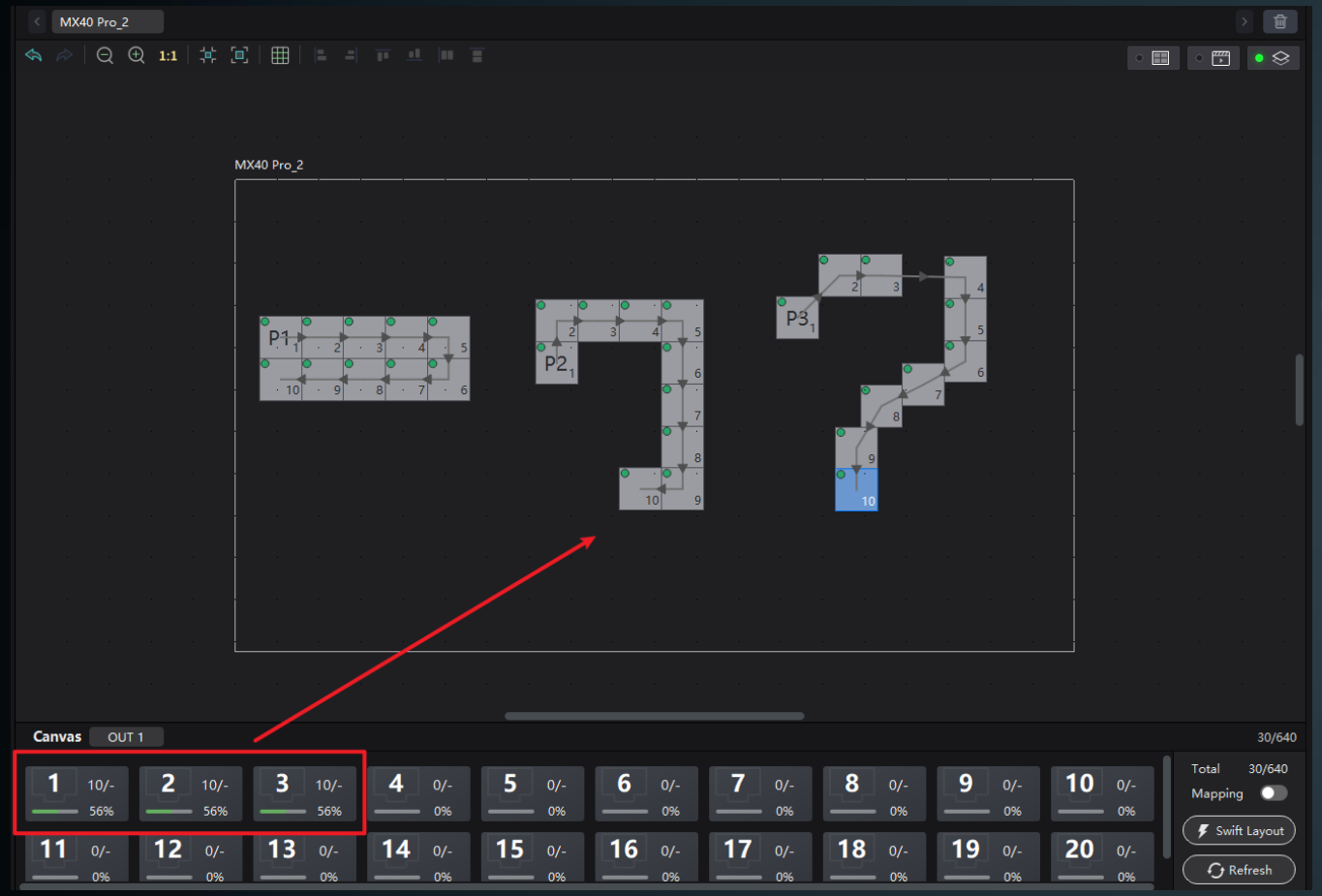
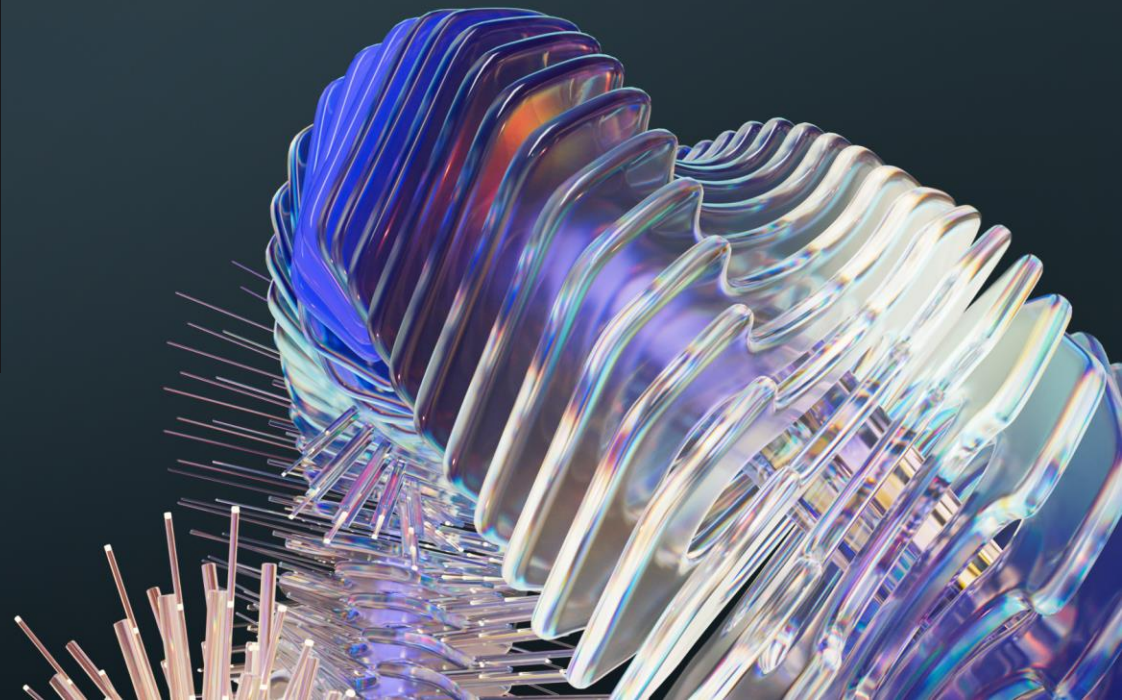


- **Controller Output Port Loading**

- Each output port loading capacity is calculated by its total loading panels pixel, no rectangle area limits anymore. As long as it doesn't exceed the maximum pixels.



Ps:
Port 1 , 2 and 3 load same quantities of panels with same usage rate.

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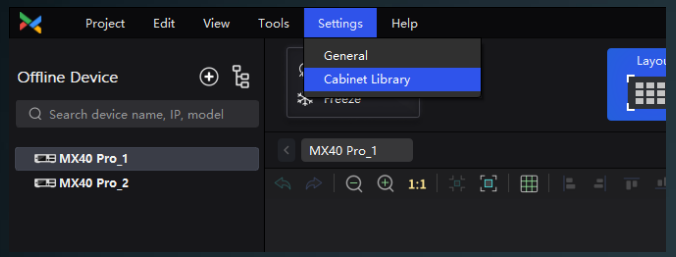
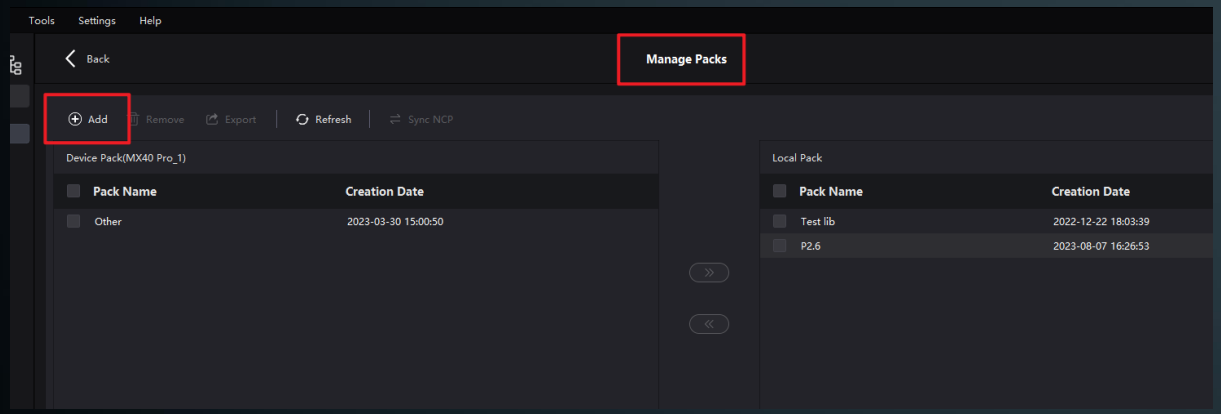
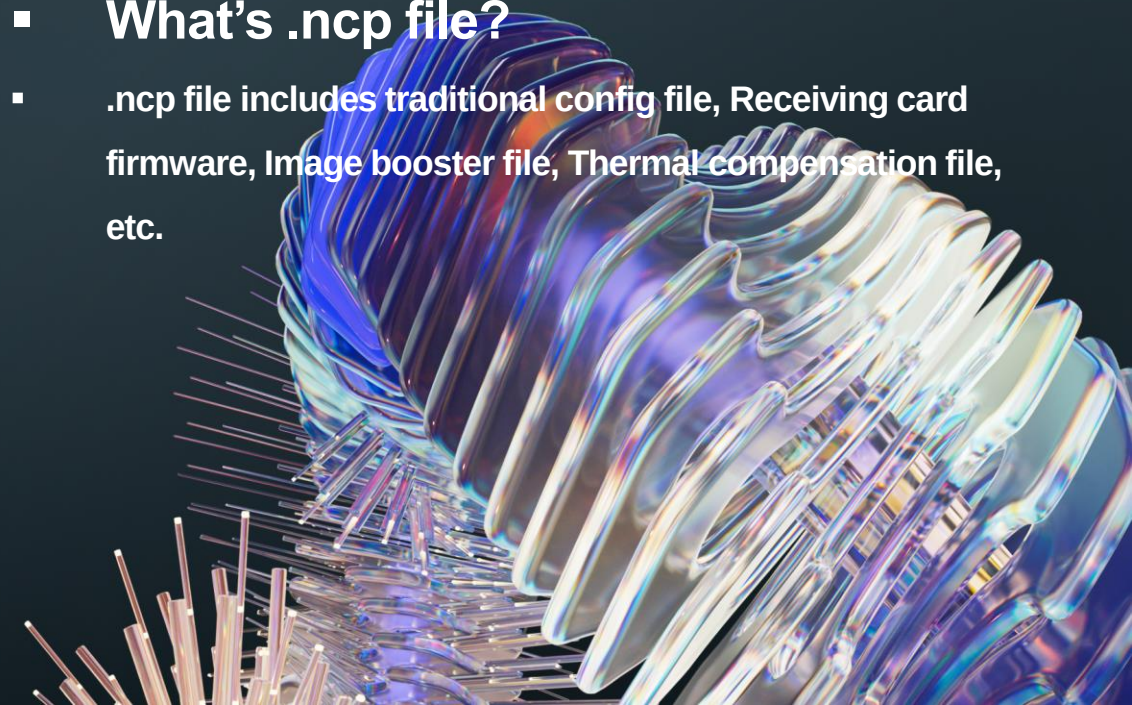




- # Upload the Configuration File
  - Prepare the .ncp file in advance
  - Go to Settings >>> Cabinet library >>> Manage Packs >>> Add >>> load the .ncp file
  - Device Pack: save the ncp file into the controller
  - Local Pack: save the ncp file to local PC, local VMP

- # What's .ncp file?
  - .ncp file includes traditional config file, Receiving card firmware, Image booster file, Thermal compensation file, etc.



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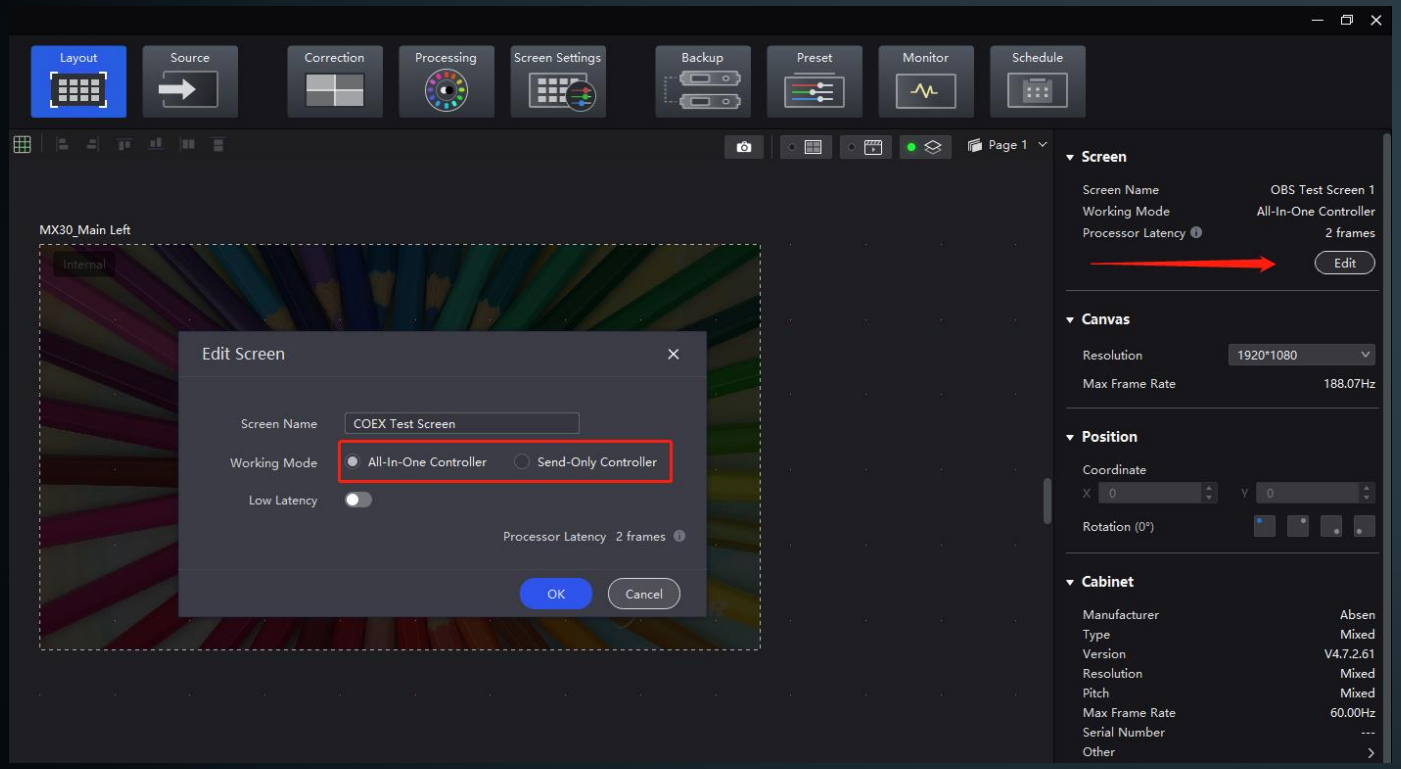
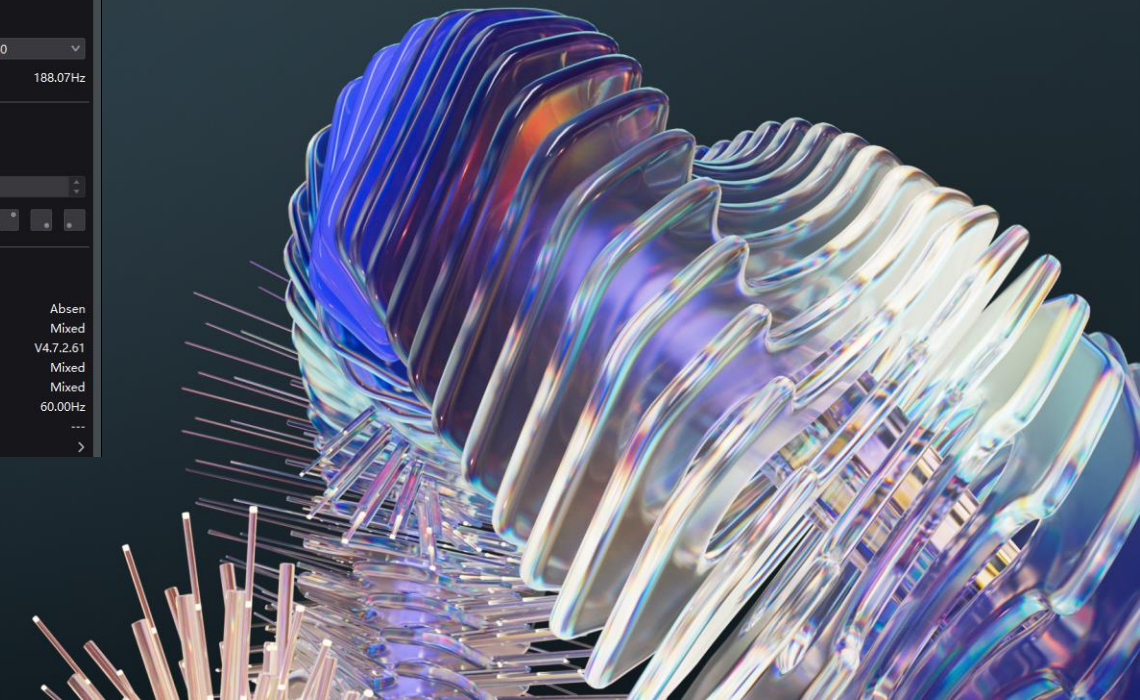
Set the Controller Mode

- Go to Screen >>> Edit
- Choose All-in one Controller mode or Send-Only Controller mode





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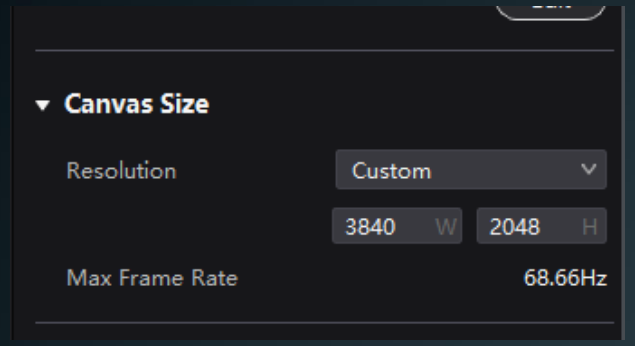
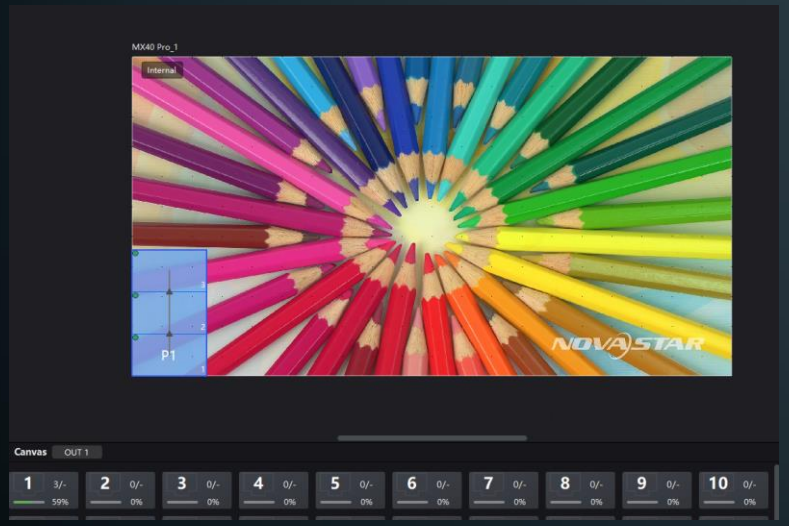


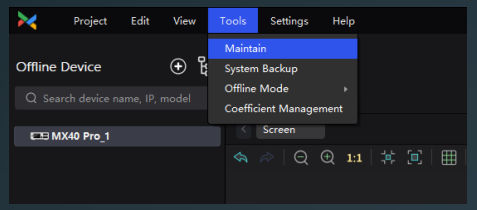
- **Set Convas Size**
- Set it same with the screen resolution or keep default resolution.



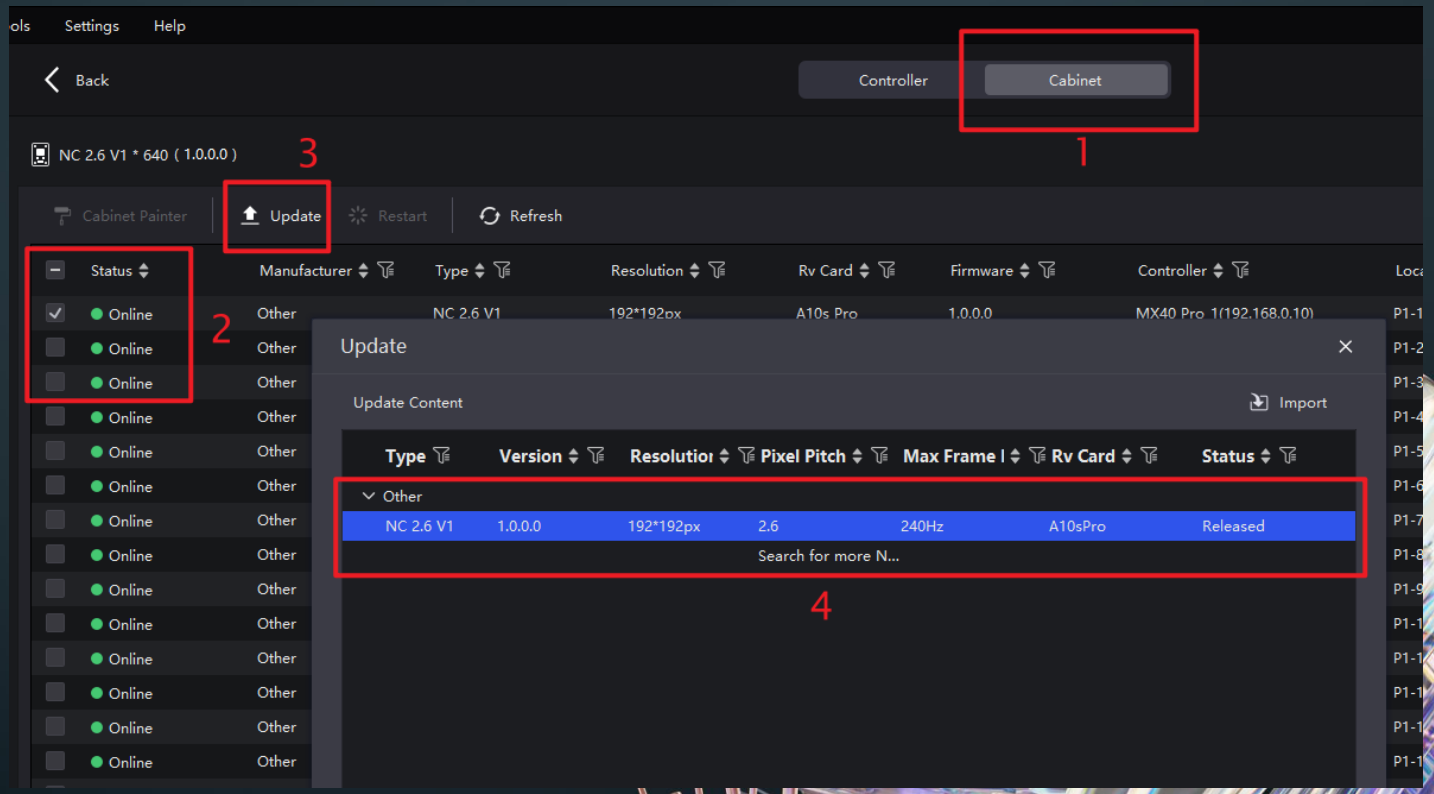
- **Screen Configuration**
- Select the Controller in the left side list
- Select “Layout”, click the outputs in the below, and add them on the canvas until all panels are connected.
- Each output will detect the total quantity of panels and calculate the usage rate.

Send the .ncp file to all panels

- Tools-Maintain

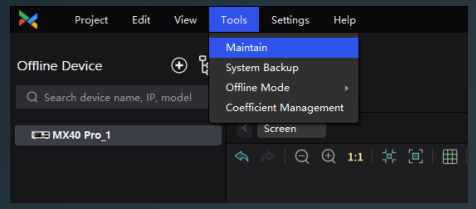


- Switch Cabinet Page
- Choose the panels need to send .ncp file
- Update >>> Choose the .ncp file in the library, click Update.

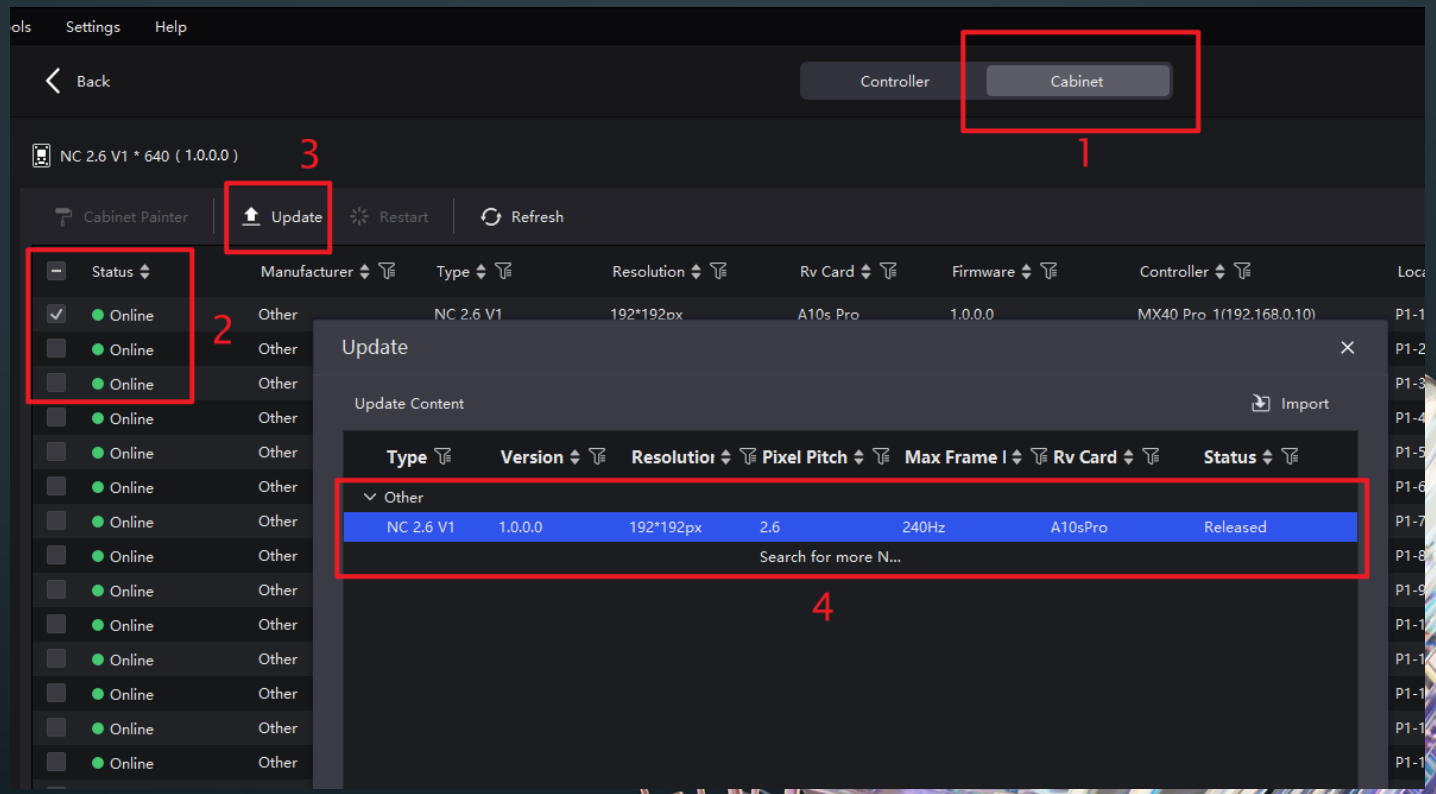


Send the rcfgx file to all panels

- Tools-Maintain



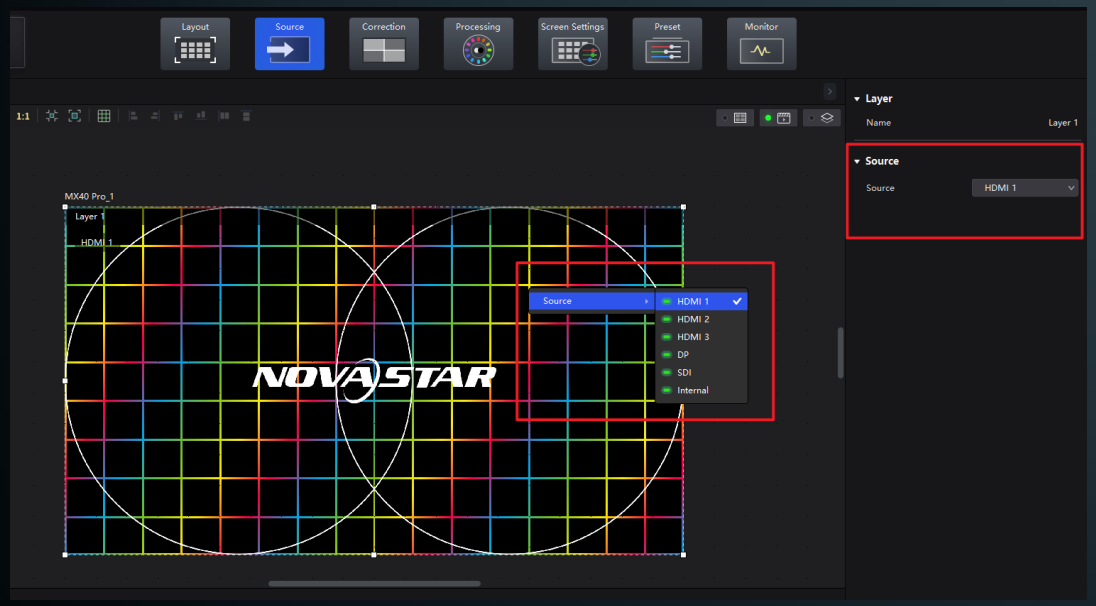
- Switch Cabinet Page
- Choose the panels
- Update >>> Choose the config file, load the .rcfgx file, click Update.



Enable Layers and Switch Source

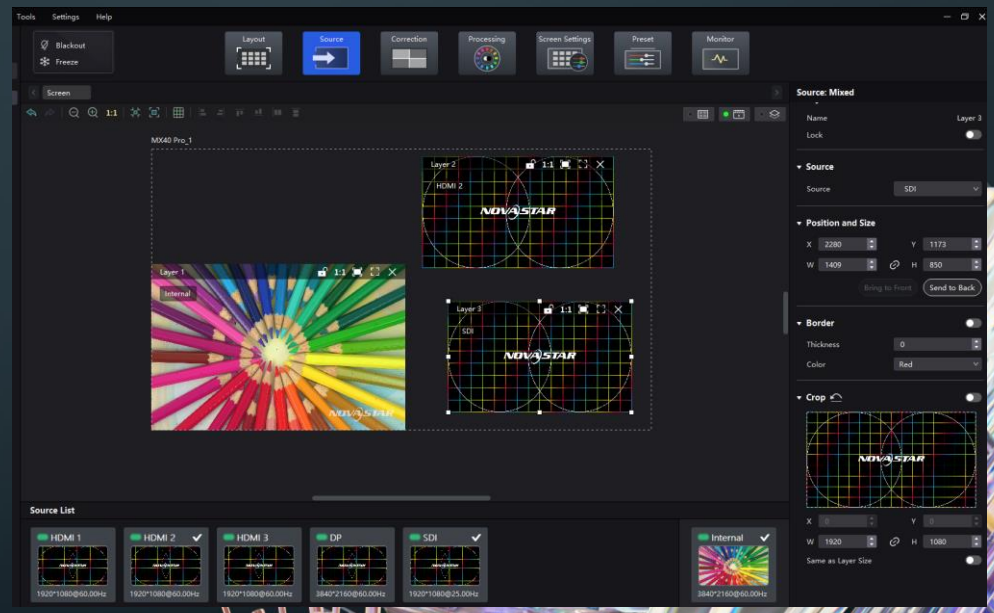
Send-Only Controller Mode

- Enable layer: Only support one layer and cannot be scaled, double click or drage the video source to the canvas.
- Switch source: Right-Click the layer to switch the video source or switch from the right side



All-in-One Controller Mode

- Enable layer: Double click or drage the video source to the canvas.
- Switch source: Right-Click the layer to switch the video source or switch from the right side



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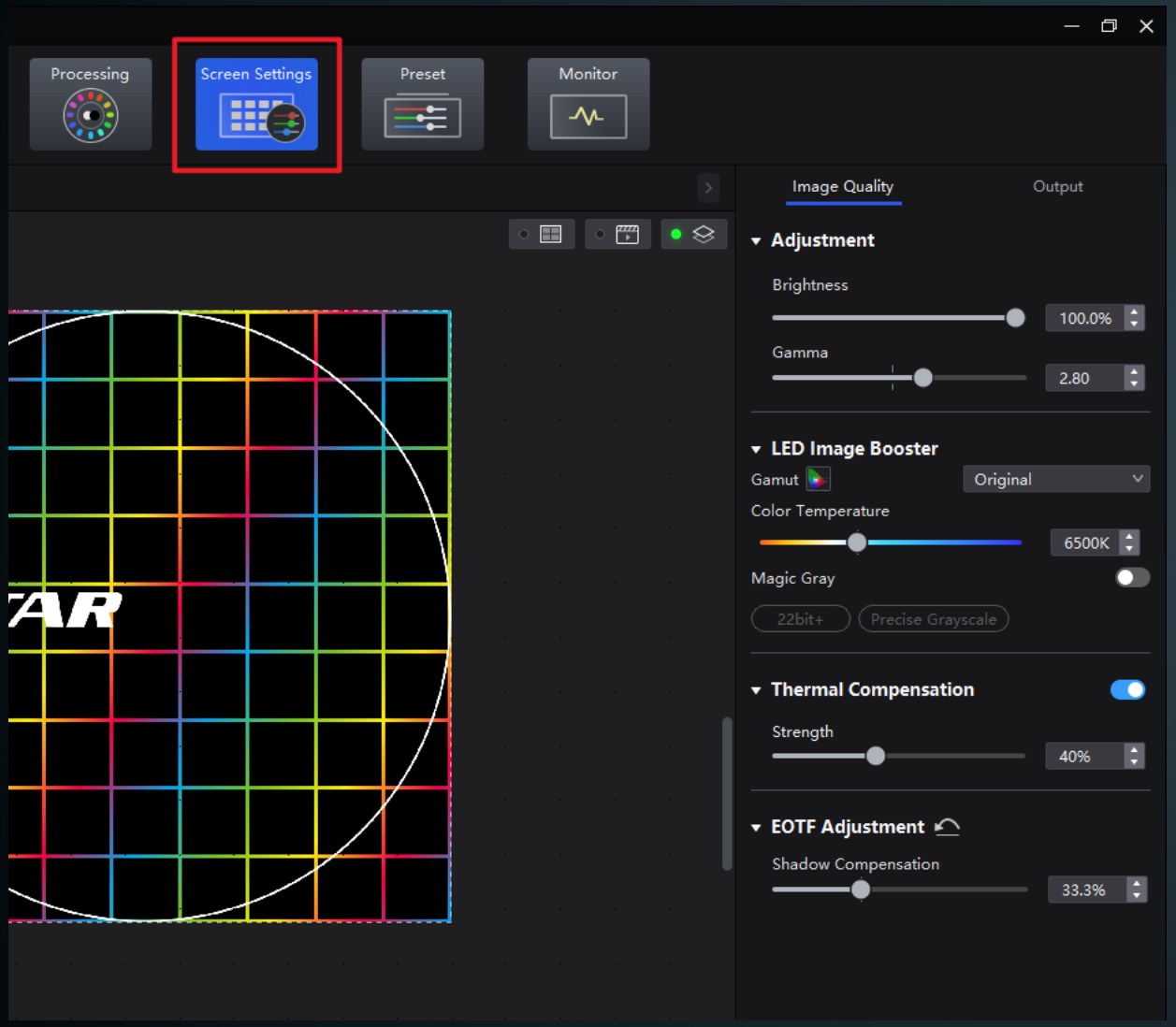
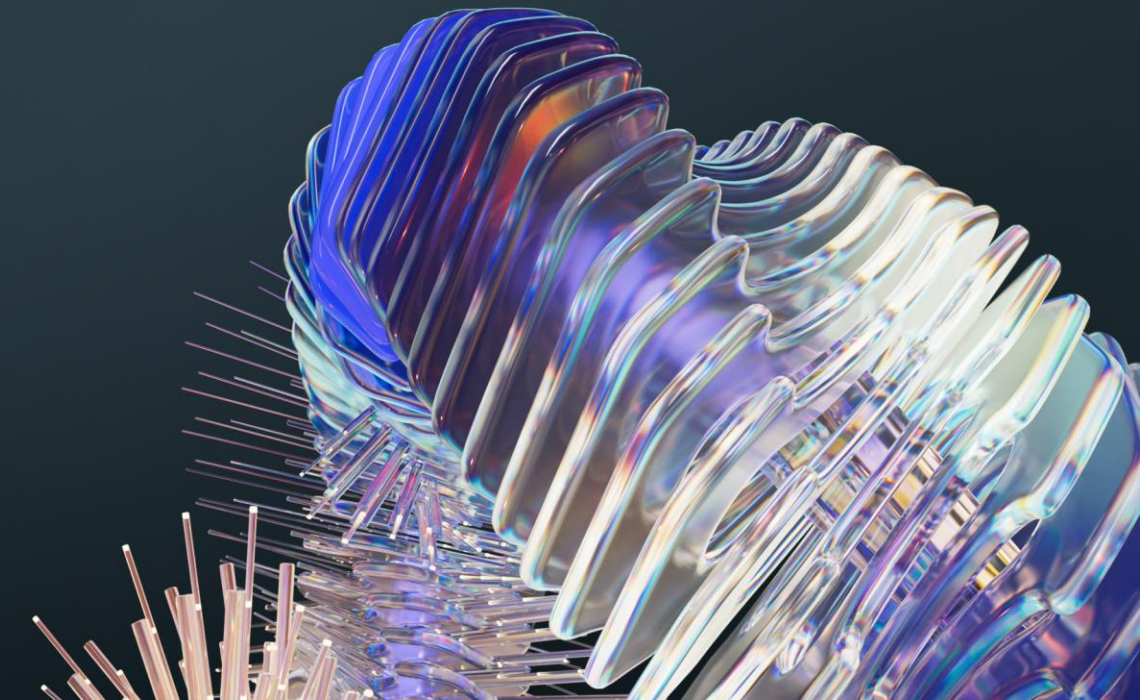


Image Quality Adjustment

- Brightness and Gamma
- Image Booster-enable and change the color gamut, color temperature, magic gray.
- Thermal Compensation, enable and change the Strength



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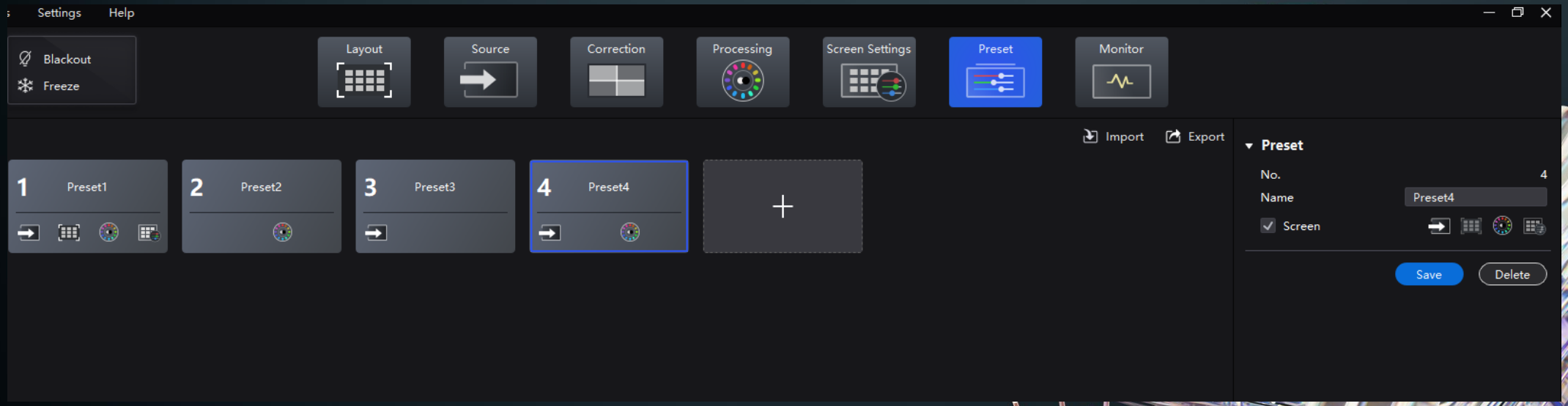
Presets

- Preset can save 4 parts, Source, Layout, Color Processing. Screen Settings.
- When save preset, it is possible to choose which part to save seperately.
- The preset can be edited after creating.



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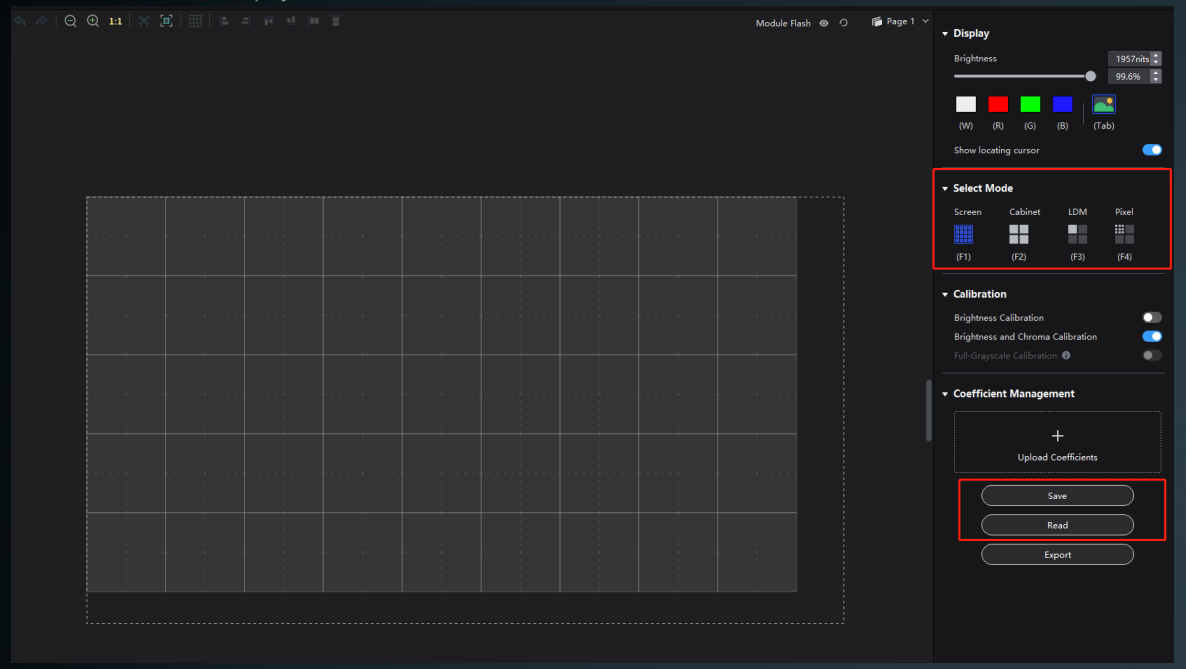
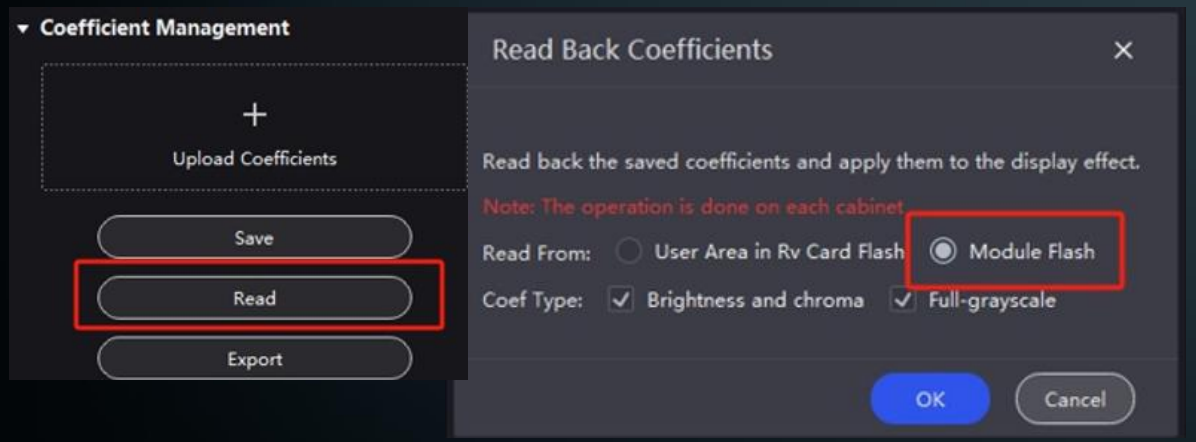
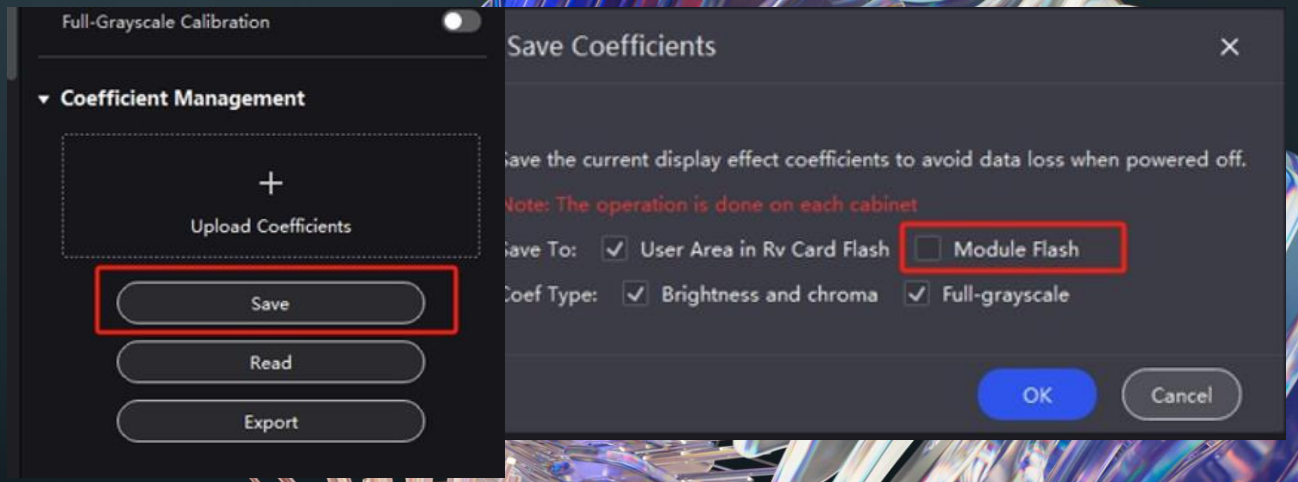


Calibration Coefficient Management (Module Flash)

- Tools >>> Coefficient Mangement
- Select whole screen, cabinet, module mode
- Read Coefficient Management
- Select Module Flash
- Save Coefficient Management – **Module Flash Unticked**





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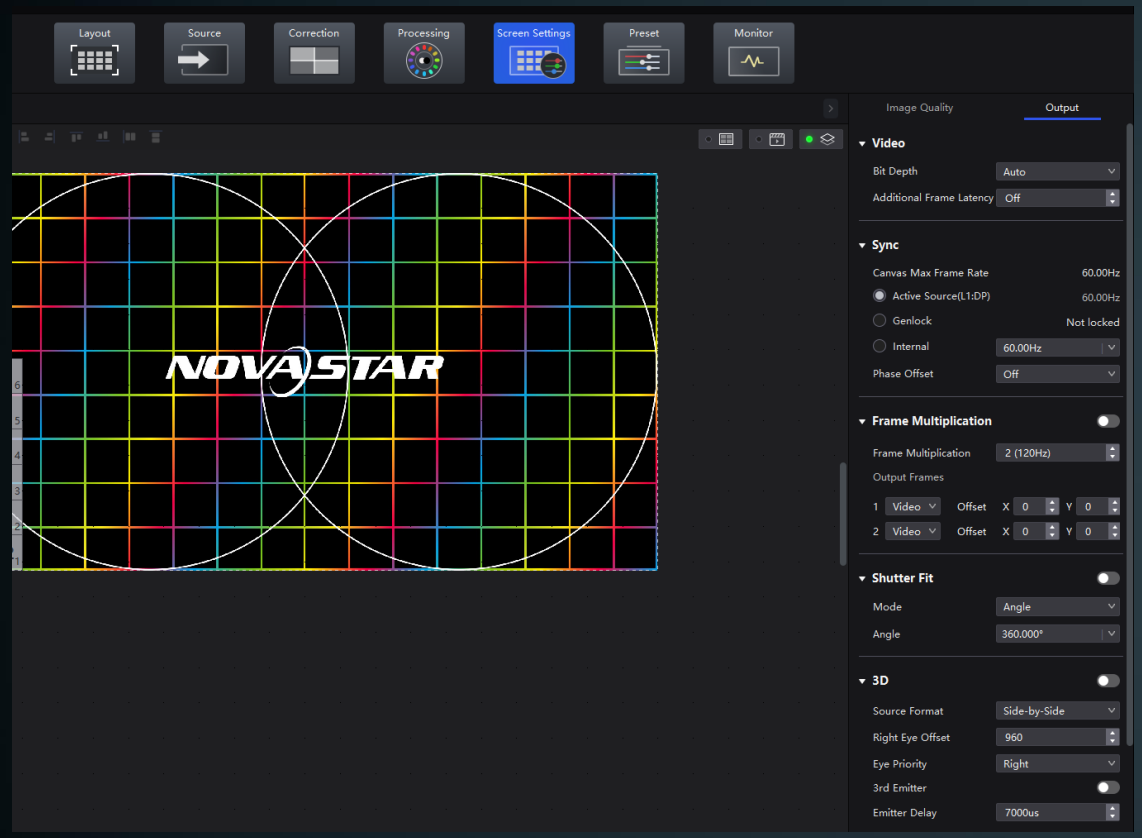

Output Settings

- **Output bit depth**: choose 8bit/10bit/12bit output
- **Add additional latency**: Supports 2 frames maximum
- **Sync**: Sync with video source or Genlock or internal source, and adjust the phase offset
  - **A8S Card – Sync output to correct NCP File Speed**
- **Frame multiplication**: Support multi-cameras to shoot or do output multiplication like 60Hz to 120Hz
- **Shutter fit**: Sync with camera by same angle or speed settings (Only A10s Pro supports)
- **3D**: Set the 3D in 3 formats, side by side, top and bottom, and frame sequential

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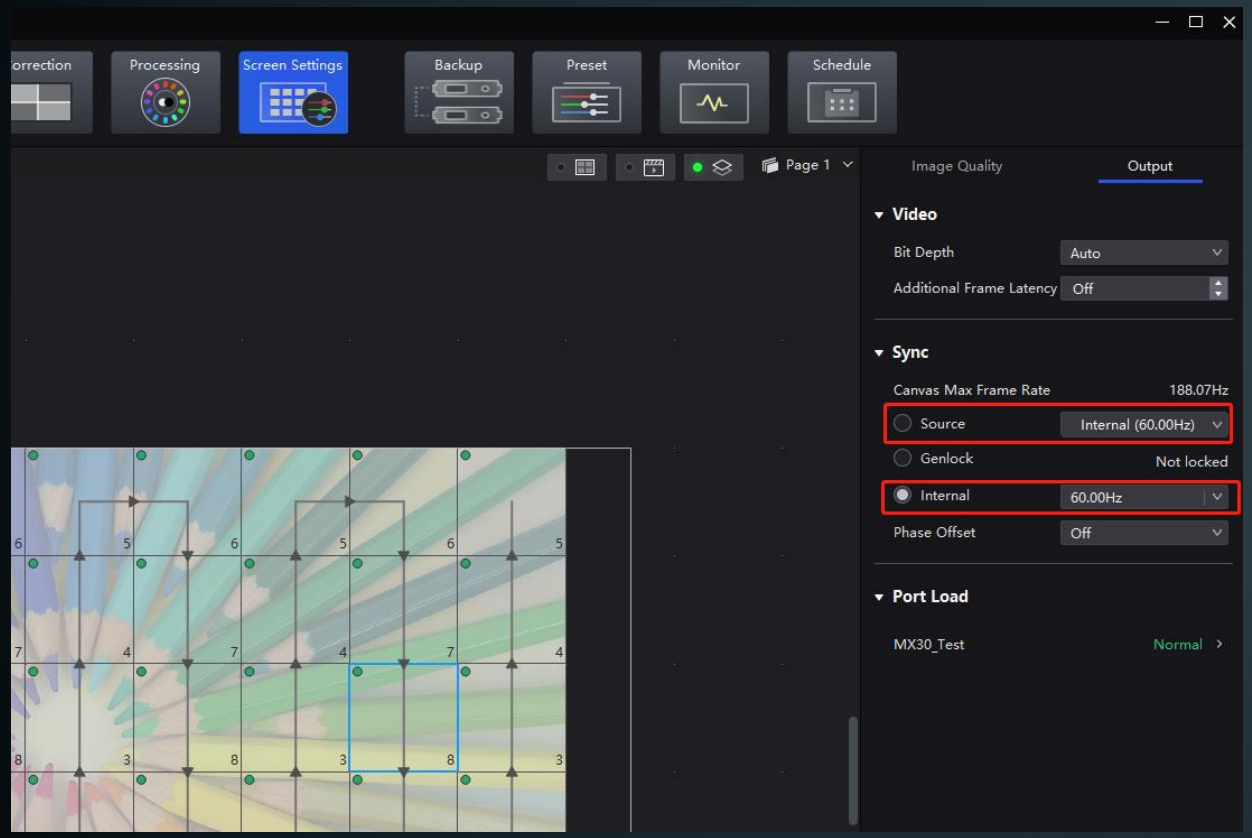
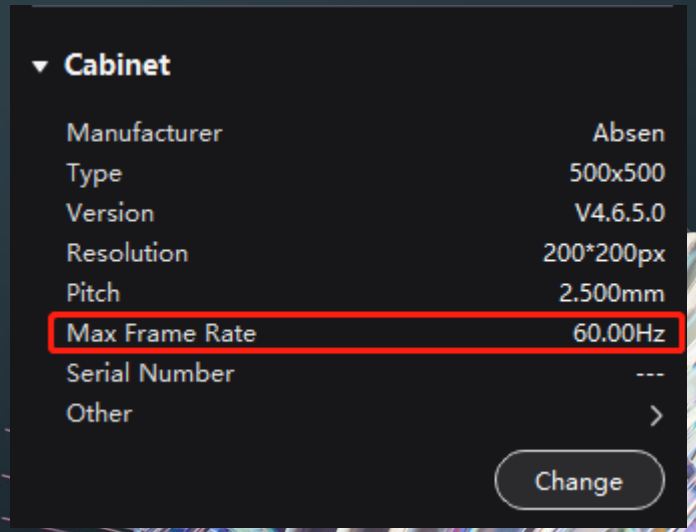
Output Sync

- For A8s Cards – Make sure the output sync is the same as the NCP File.
- Either via Source or Internal





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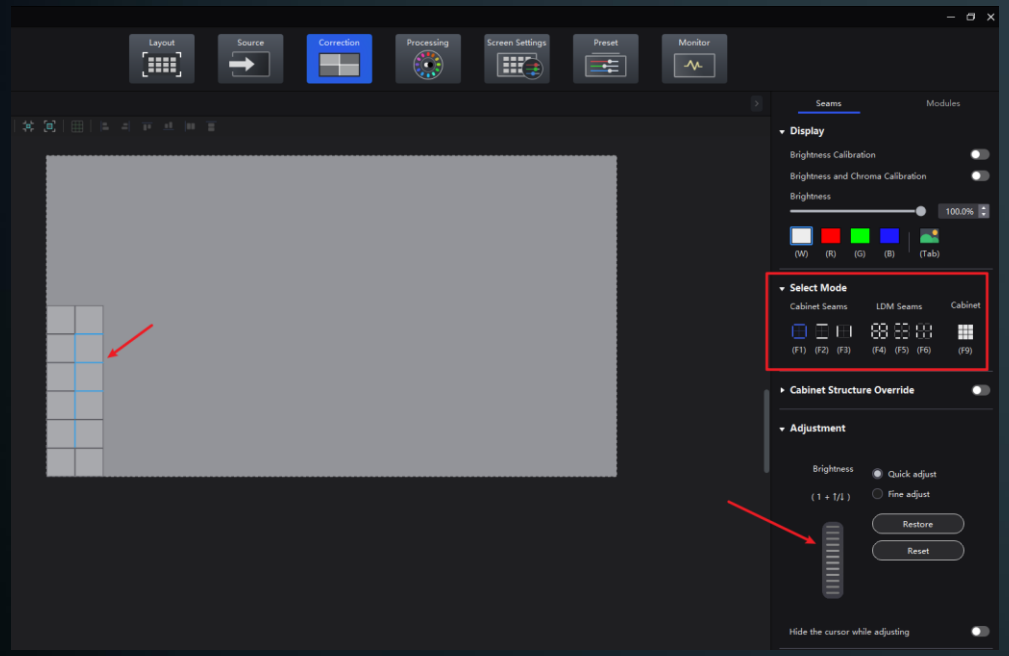
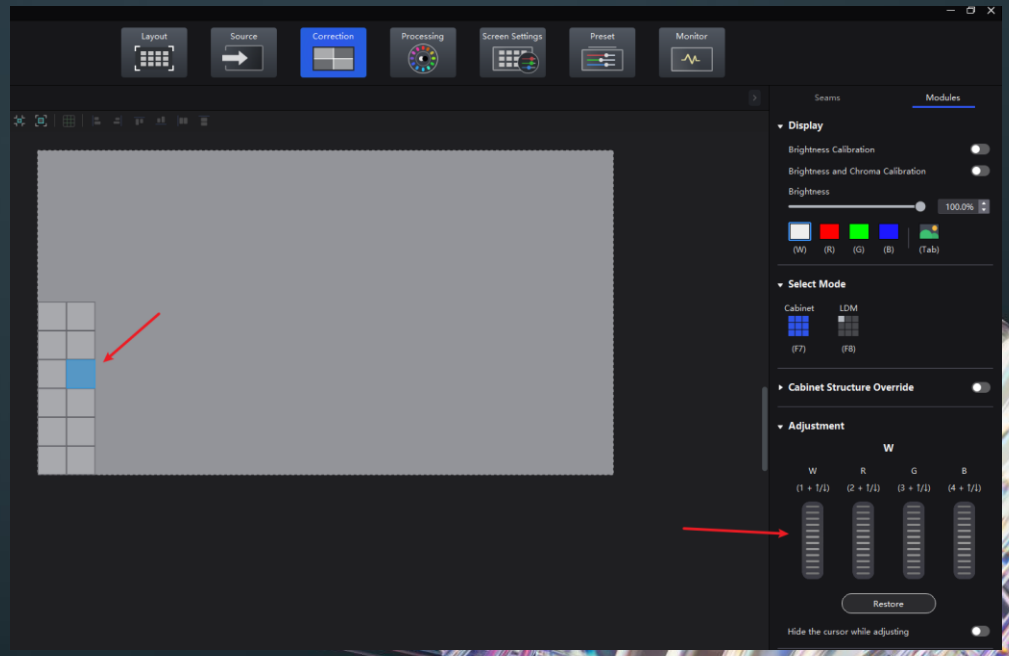
Correction

- Seam Correction and Modules Correction
- Adjust the bright/dark lines and adjust the different batch modules





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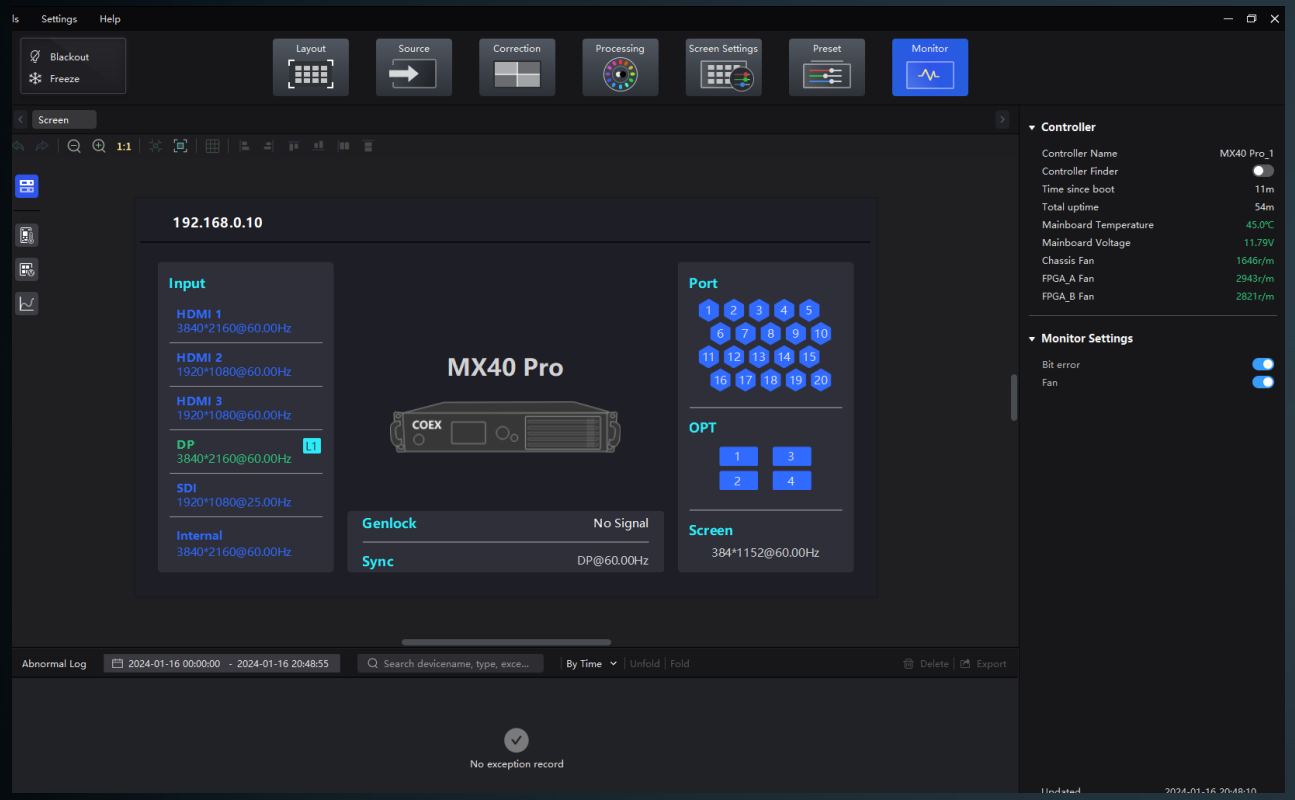

Monitoring

- Controller running status
- Receiving card status, temperature, voltage and bit error.
- Support Abnormal logs

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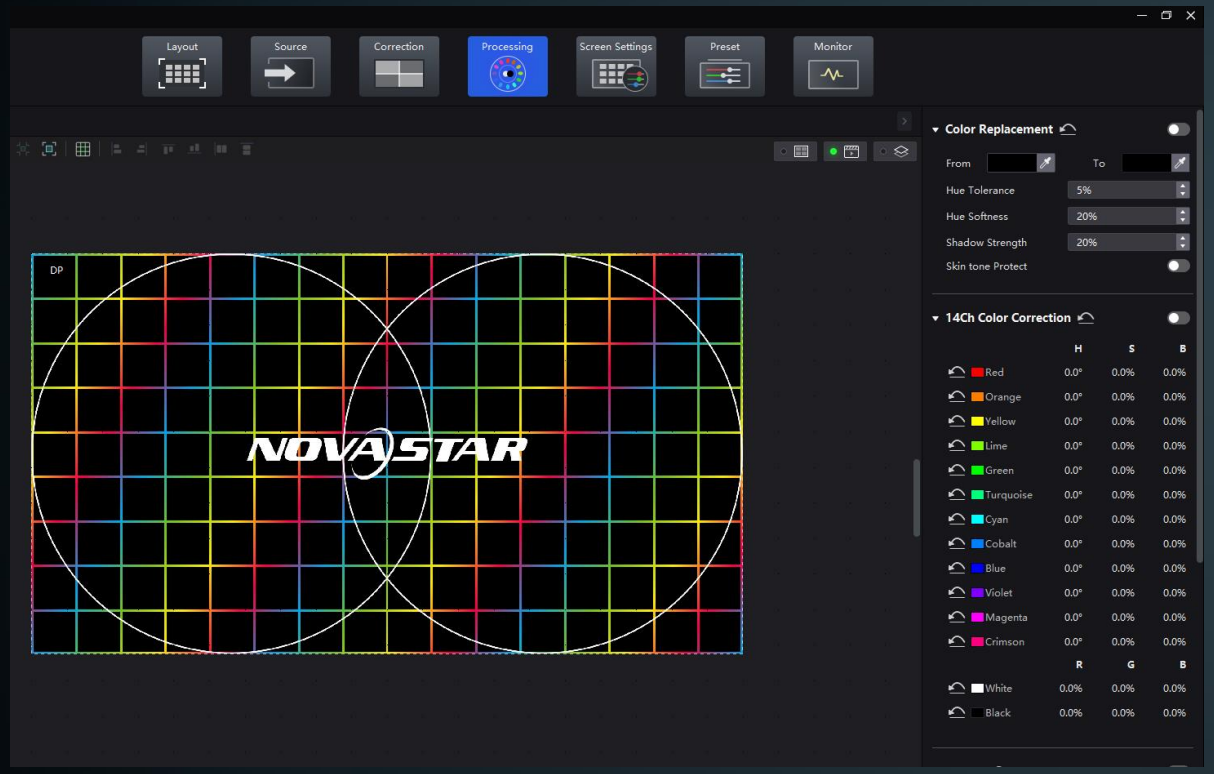

Color Processing

- **Color replacement:** replace a color into another
- **14CH Color Correction**
- **Color Curve**
- **3D Lut: Support 17x17x17 .cube file**
- **Dynamic Booster:** significantly improve the display contrast and image details for better visual experience and effectively control and lower the display power consumption (A10s Pro Supports)

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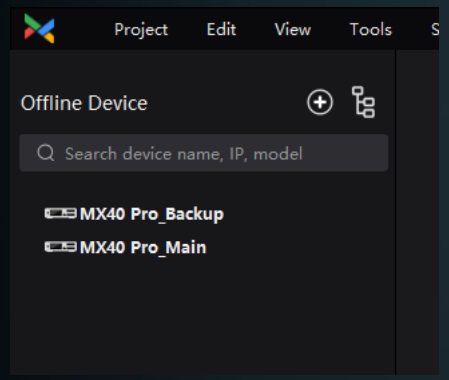
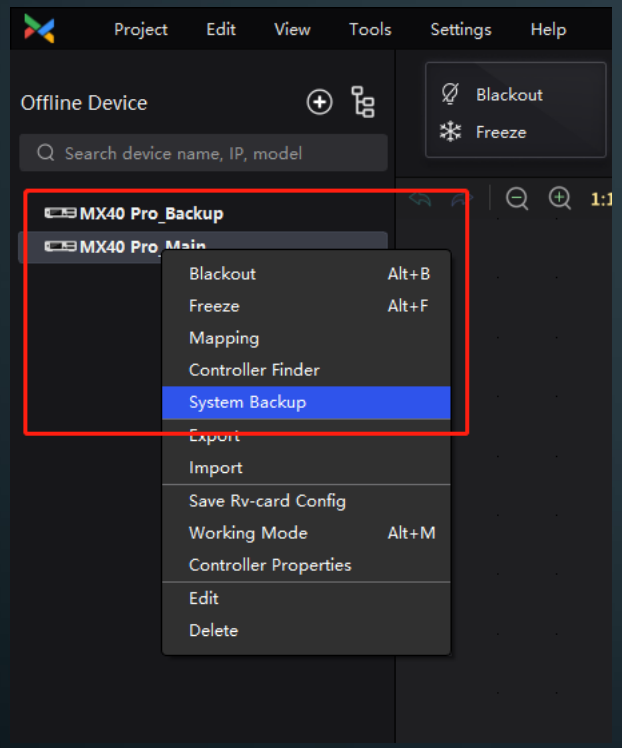
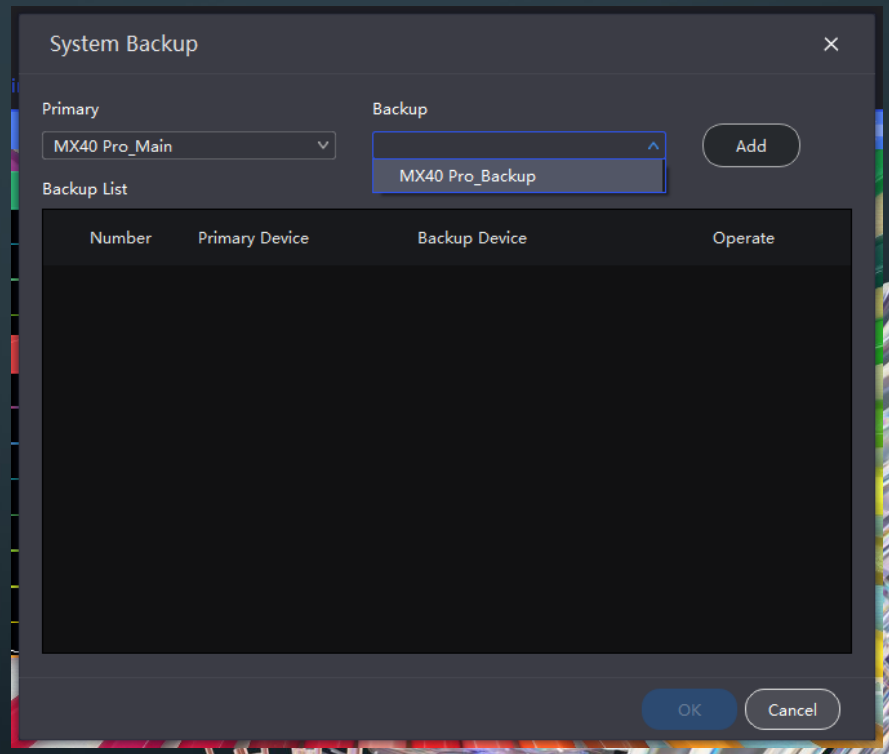
Redundancy (Processor)

- Re-Name Processors to suit
- Right Click on Processor and select ‘System Backup’
- Select Main and Backup Processors and click ‘Add’







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Redundancy (Cable)

- Select ‘Layout’ Tab
- Select Port Redundancy
- Select from Drop down list.
  - 1-10 = 11-20 is suggested