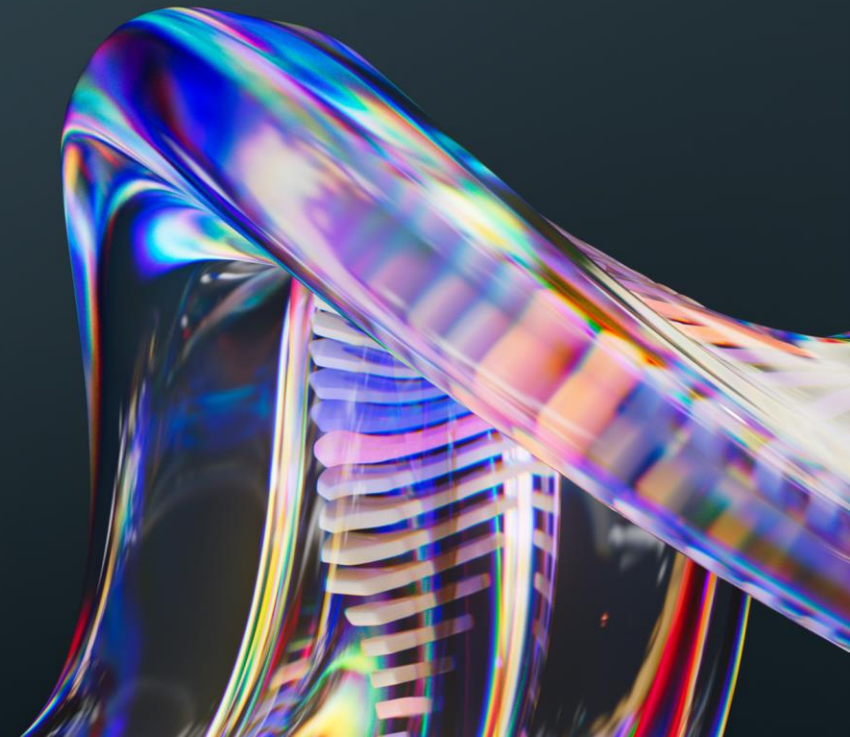


Novastar COEX Handover



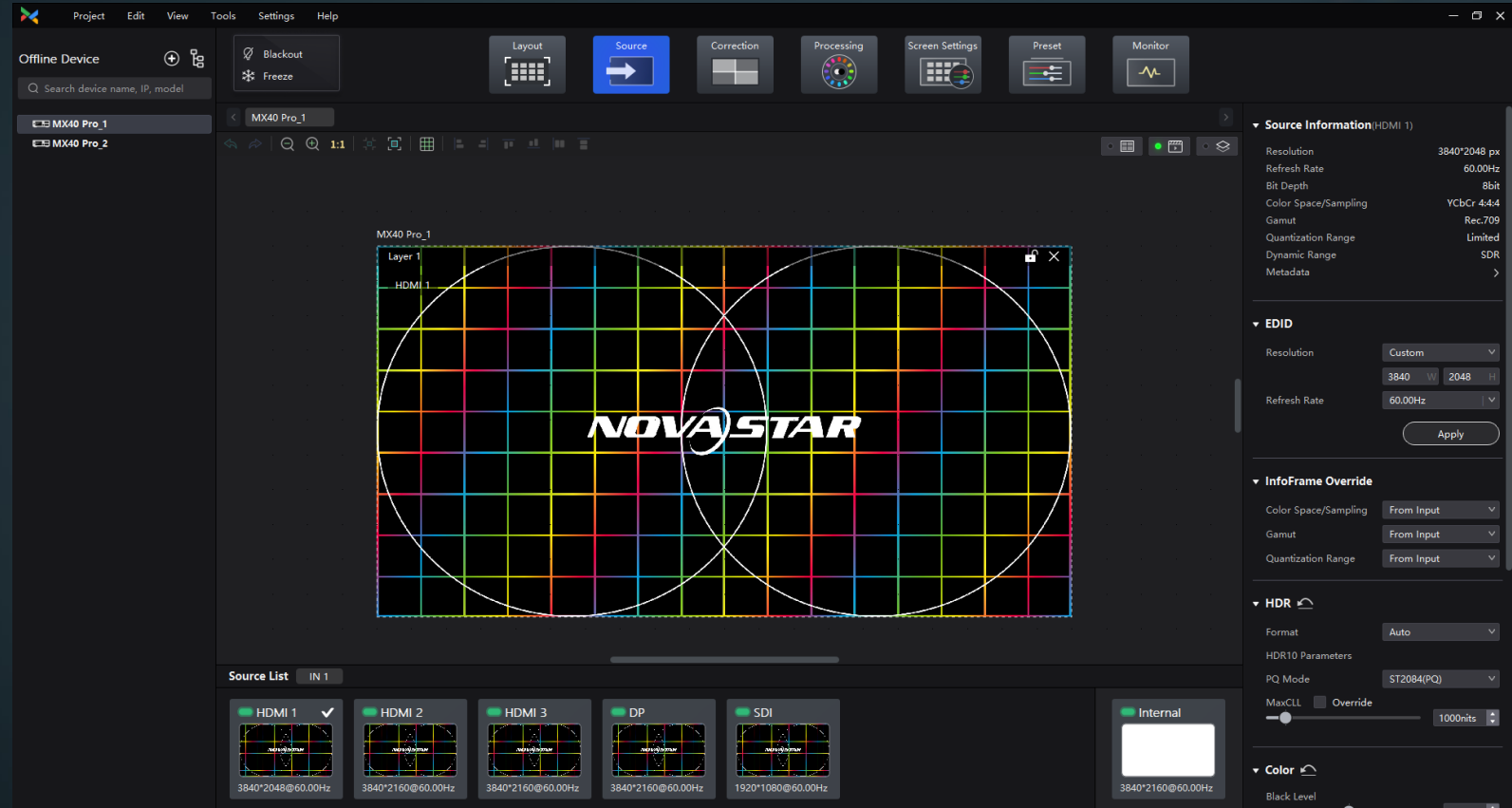
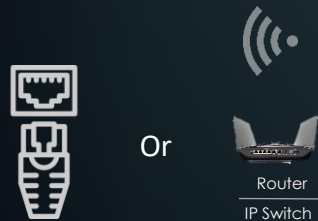
Novastar LED Controller Software - Coex VMP



Operating Systems



Connections



The screenshot displays the Novastar LED Controller Software interface. The main workspace shows a grid layout with the "NOVA STAR" logo centered. The interface includes a top menu bar (Project, Edit, View, Tools, Settings, Help) and a toolbar with icons for Layout, Source, Correction, Processing, Screen Settings, Preset, and Monitor. On the left, there is an "Offline Device" panel with a search bar and a list of devices (MX40 Pro_1, MX40 Pro_2). On the right, there are several configuration panels: "Source Information (HDMI 1)" showing resolution (3840*2048 px), refresh rate (60.00Hz), bit depth (8bit), color space (YCbCr 4:4:4), gamut (Rec.709), and quantization range (Limited); "EDID" panel with resolution (3840 W, 2048 H) and refresh rate (60.00Hz) settings; "InfoFrame Override" panel with color space, gamut, and quantization range options; "HDR" panel with format (Auto), HDR10 parameters, PQ mode (ST2084(PQ)), and MaxCLL (1000nits) settings; and a "Color" panel with a Black Level slider. At the bottom, a "Source List" shows various input sources (HDMI 1, HDMI 2, HDMI 3, DP, SDI, Internal) with their respective resolutions and refresh rates.

🏠 MX30 | All-In-One Controller 🔒 🌐 192.168.255.160

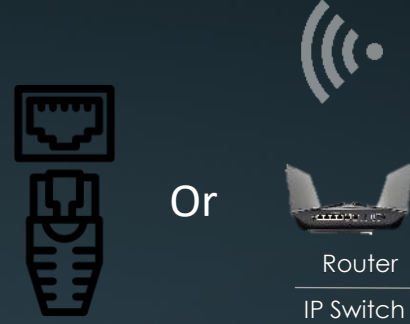
Input	Port
HDMI 1 HDMI 2 DP	1 2 3 4 5 6 7 8 9 10
SDI 1 SDI 2 Internal	
Internal L1 L2 L3 Genlock 144Hz	
Screen 1920x1080 @144Hz ☀️ 100%	OPT 1 2
Sync: HDMI 1@143.86Hz SDR	❄️ 36°C

🏠 MX40 Pro | Send-Only Controller 🔒 🌐 192.168.0.10

Input	Port
HDMI1 HDMI2 HDMI3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
DP SDI Internal	
HDMI1 4096*2160 @60.00Hz	
Screen 4096*2160 @59.94Hz ☀️ 100%	OPT 1 3 2 4
Sync:Genlock HDR10 3D	❄️ 36°C



Set an IP Address



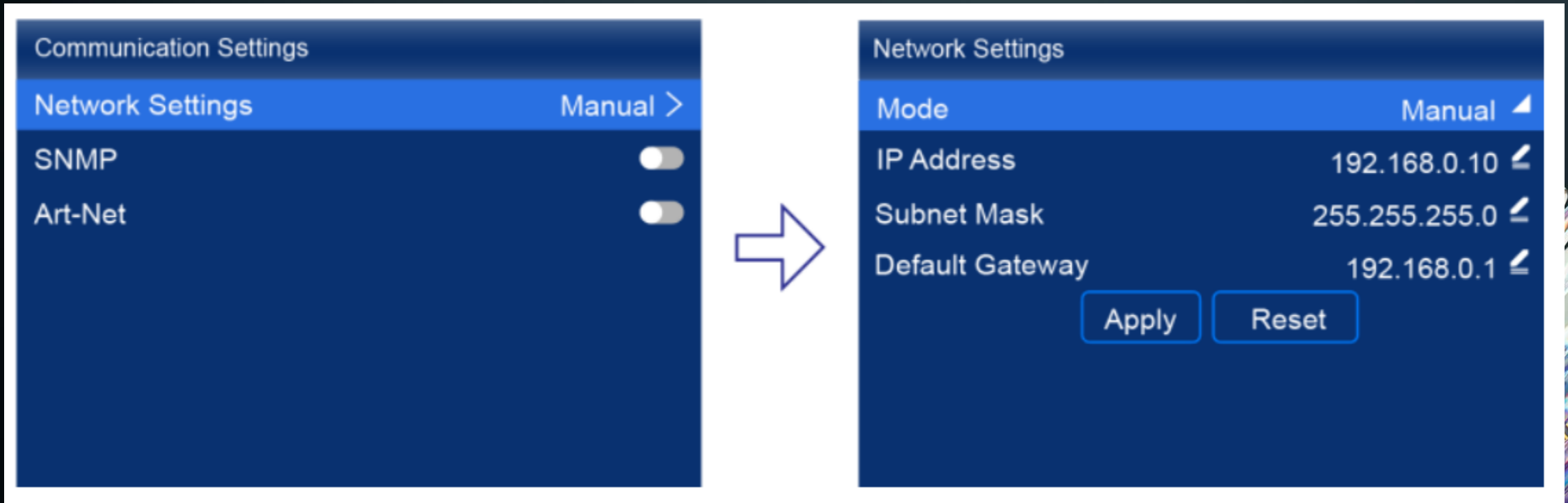
Manually set a static IP address for the device or set up the device to automatically obtain an IP address.

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.



The image shows two screenshots of a device's settings menu. The left screenshot shows the 'Communication Settings' menu with 'Network Settings' selected and 'Manual' chosen. The right screenshot shows the 'Network Settings' menu with 'Mode' set to 'Manual', 'IP Address' set to 192.168.0.10, 'Subnet Mask' set to 255.255.255.0, and 'Default Gateway' set to 192.168.0.1. There are 'Apply' and 'Reset' buttons at the bottom of the right screenshot. A large white arrow points from the left screenshot to the right screenshot.

Menu Item	Value / Option
Communication Settings	
Network Settings	Manual >
SNMP	<input type="checkbox"/>
Art-Net	<input type="checkbox"/>

Menu Item	Value / Option
Network Settings	
Mode	Manual ▲
IP Address	192.168.0.10 ↙
Subnet Mask	255.255.255.0 ↙
Default Gateway	192.168.0.1 ↙
Buttons	Apply, Reset

Renaming

Project Edit View Tools Settings Help

Offline Project +

Search by project, screen group, sc...

Default Project

New Screen 1
MX30_1

New Screen 2
MX40 Pro_1

Default Project

- Rename
- Blackout Alt+B
- Freeze Alt+F
- Save
- Save as
- Export
- Import
- Close

New Screen 1
MX30_1

New Screen 2
MX40 Pro_1

New Screen 1

- Rename
- Blackout Alt+B
- Freeze Alt+F
- Mapping
- Controller Finder
- Canvas Mapping
- New Device
- Add to Screen Group

MX30_1

New Screen 2

MX40 Pro_1

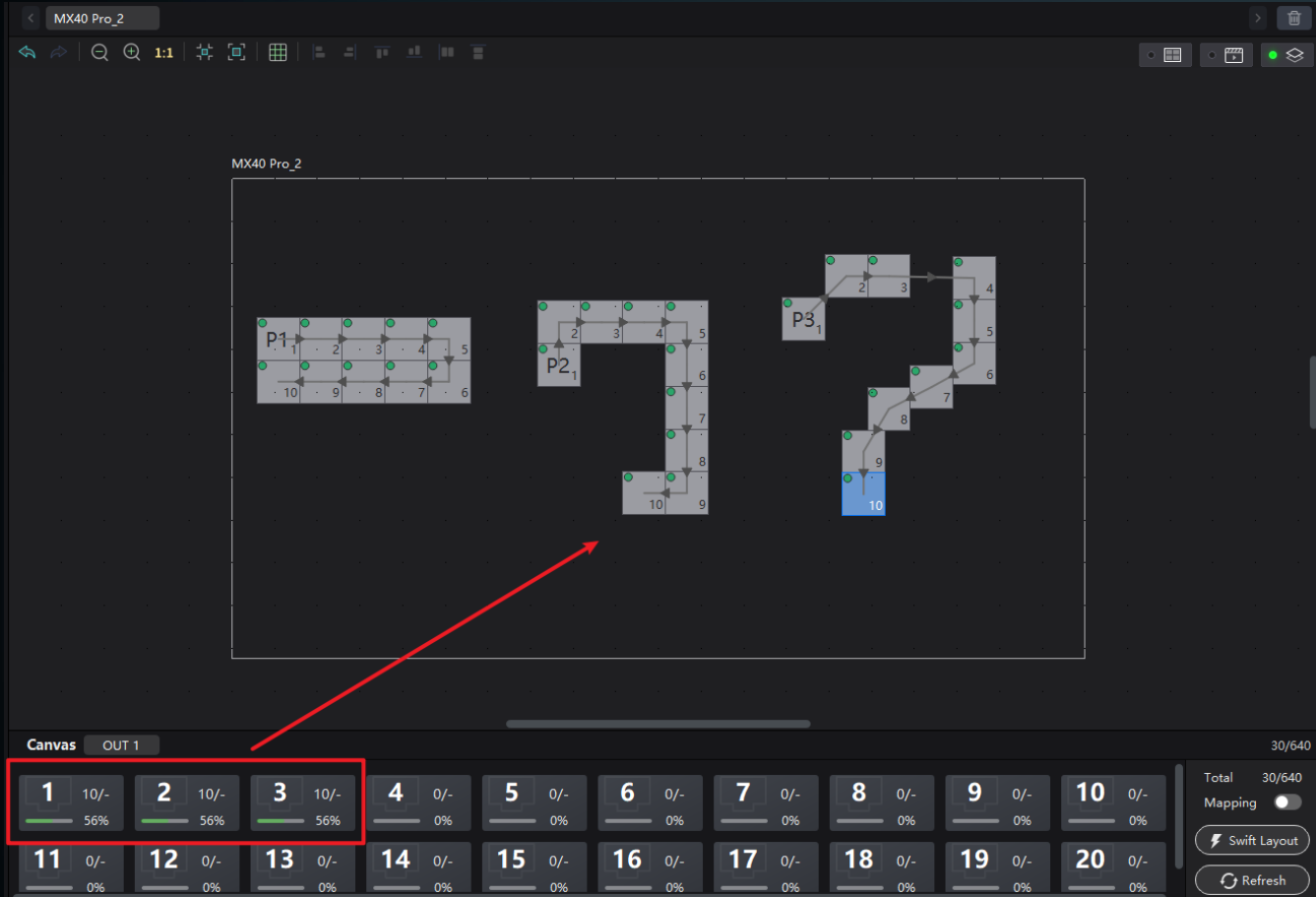
New Screen 1

- Rename
- Blackout Alt+B
- Freeze Alt+F
- Mapping
- Controller Finder
- Canvas Mapping

MX30_1

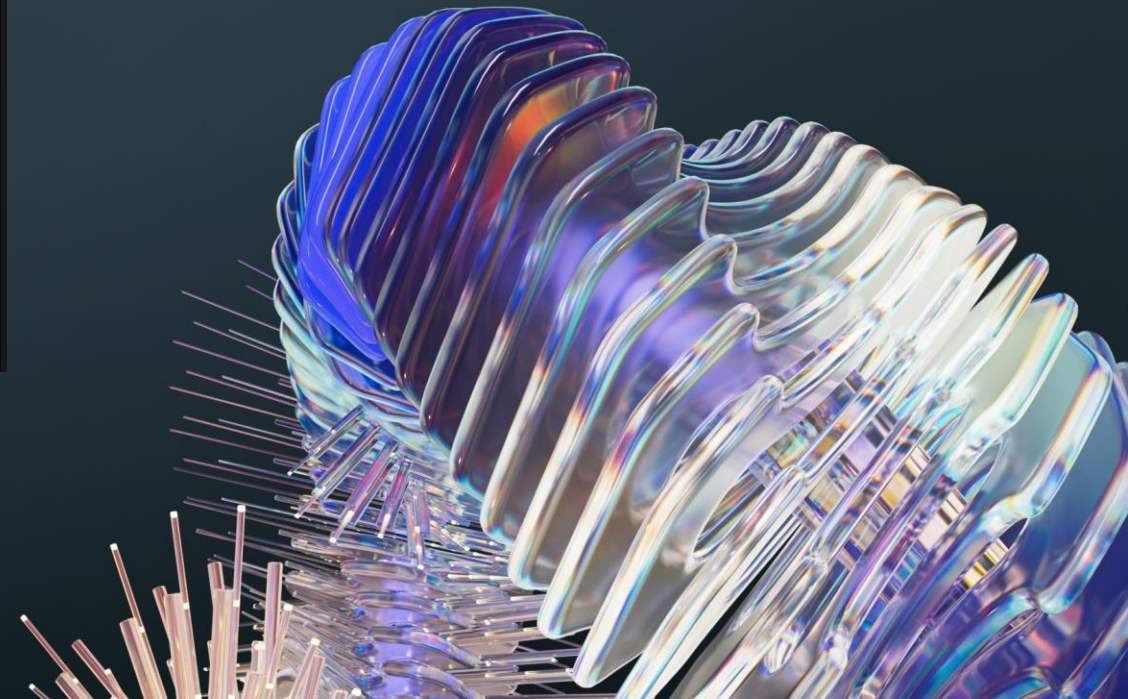
New Screen 2

MX40 Pro_1

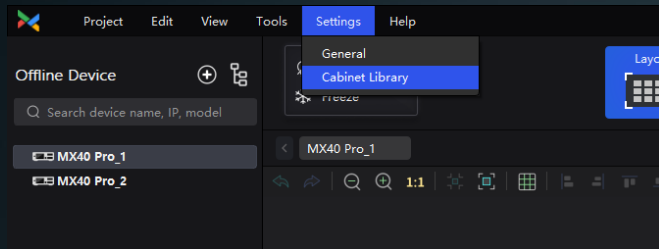


Controller Output Port Loading

- 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.



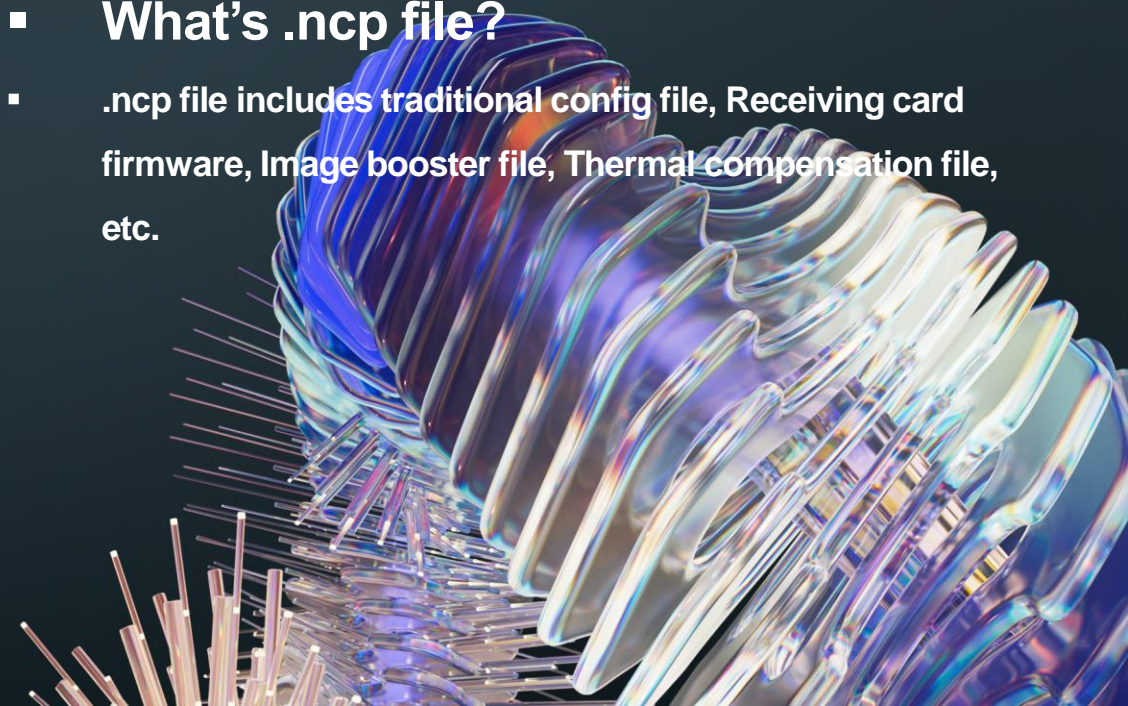
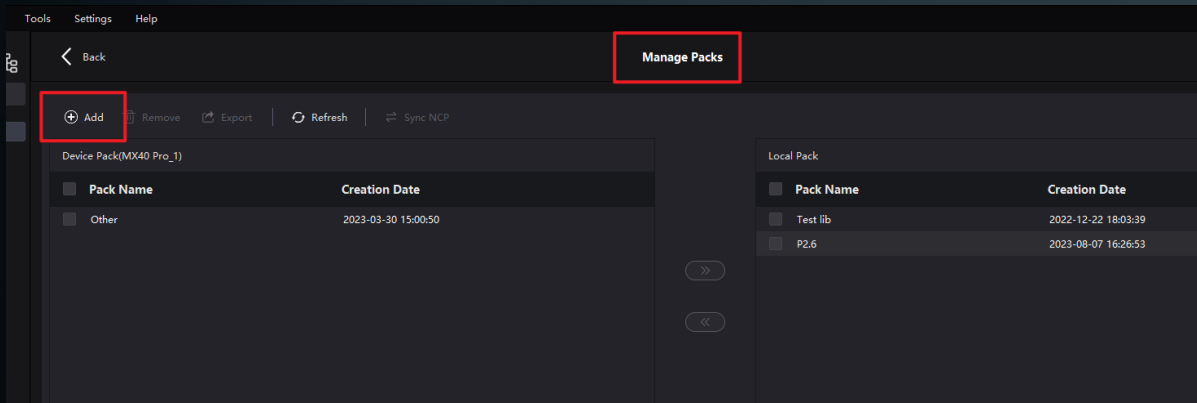
Ps:
Port 1 , 2 and 3 load same quantities of panels with same usage rate.



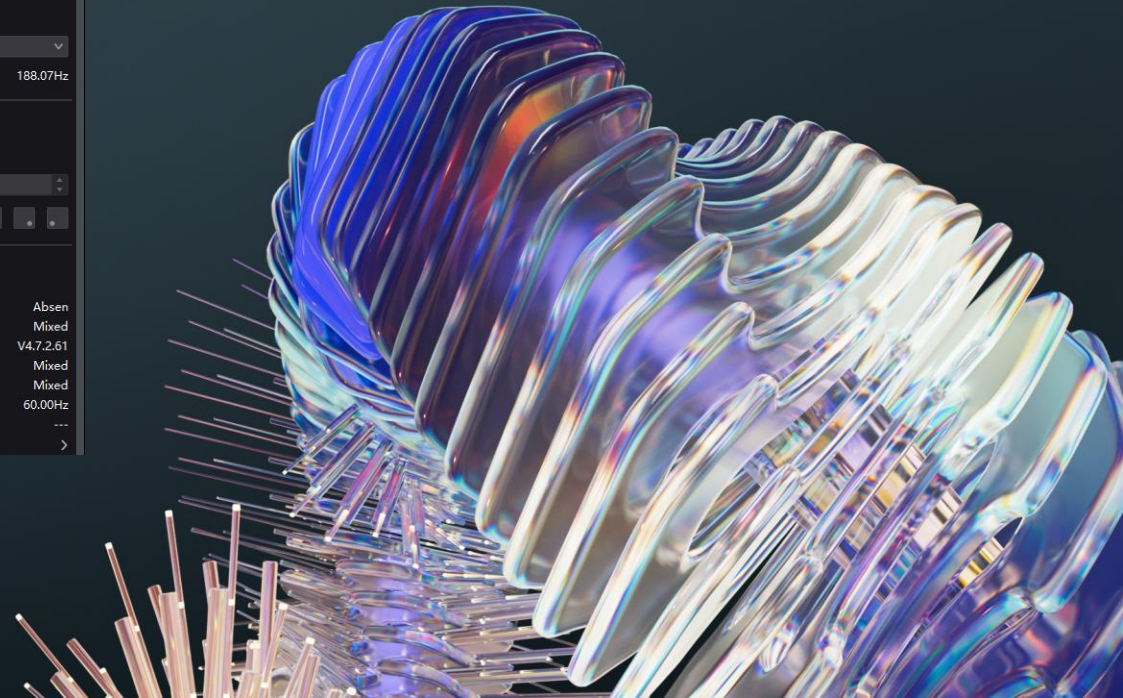
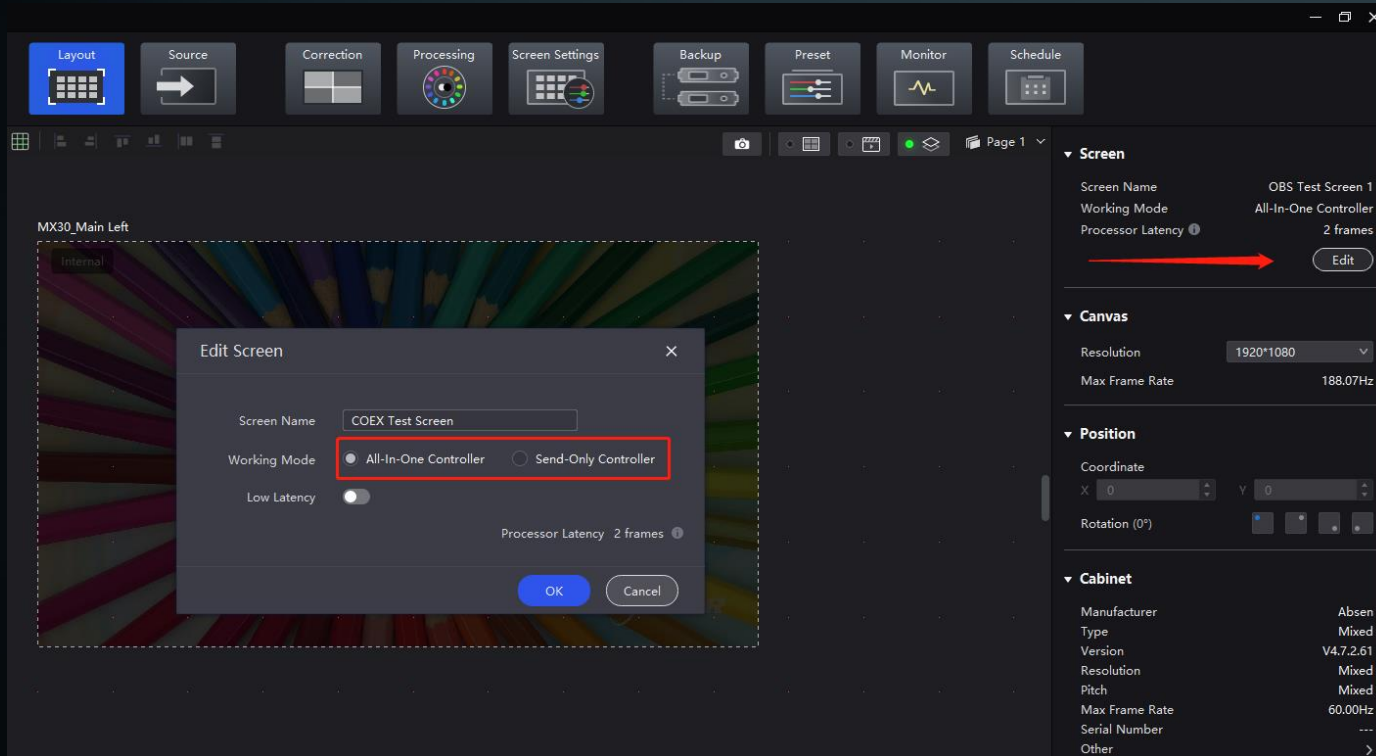
- **Upload the Configuration File**
- Prepare the .ncp file in advance
- Go to Settings >>> Cabinet library >>> Manage Packs >>> Add >>> load the .ncp file
- Device Pack: save the ncp file into the controller
- Local Pack: save the ncp file to local PC, local VMP

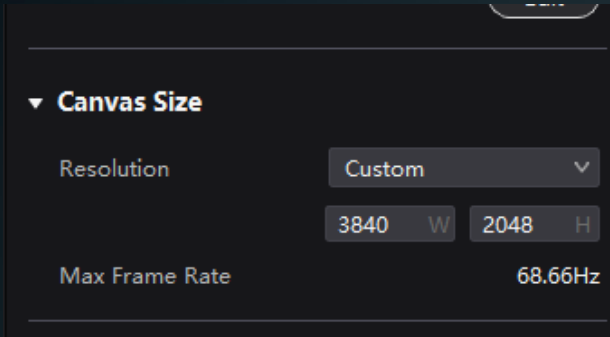
■ What's .ncp file?

- .ncp file includes traditional config file, Receiving card firmware, Image booster file, Thermal compensation file, etc.

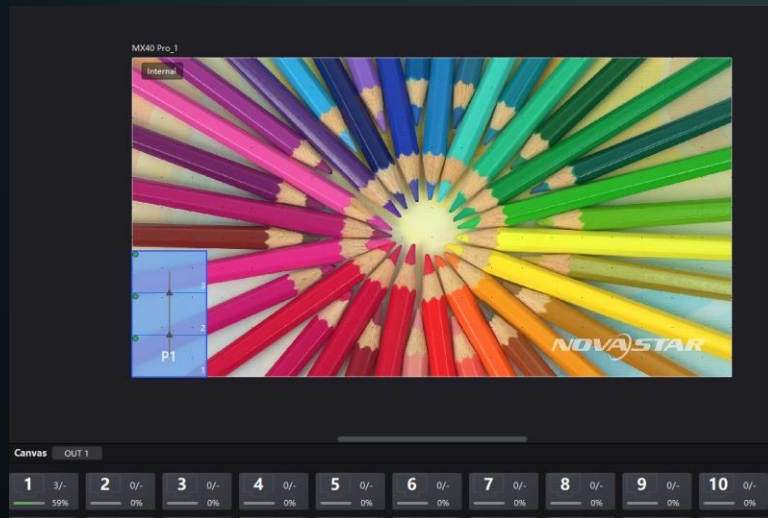


- **Set the Controller Mode**
- **Go to Screen >>> Edit**
- **Choose All-in one Controller mode or Send-Only Controller mode**

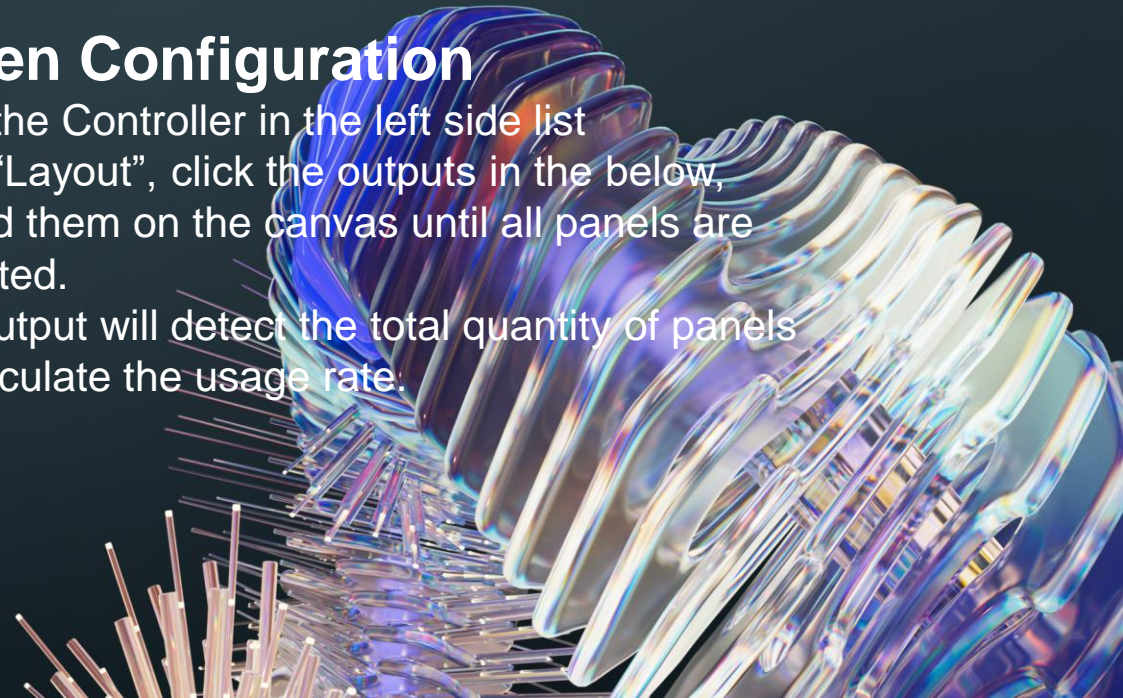




- **Set Canvas Size**
- Set it same with the screen resolution or keep default resolution.

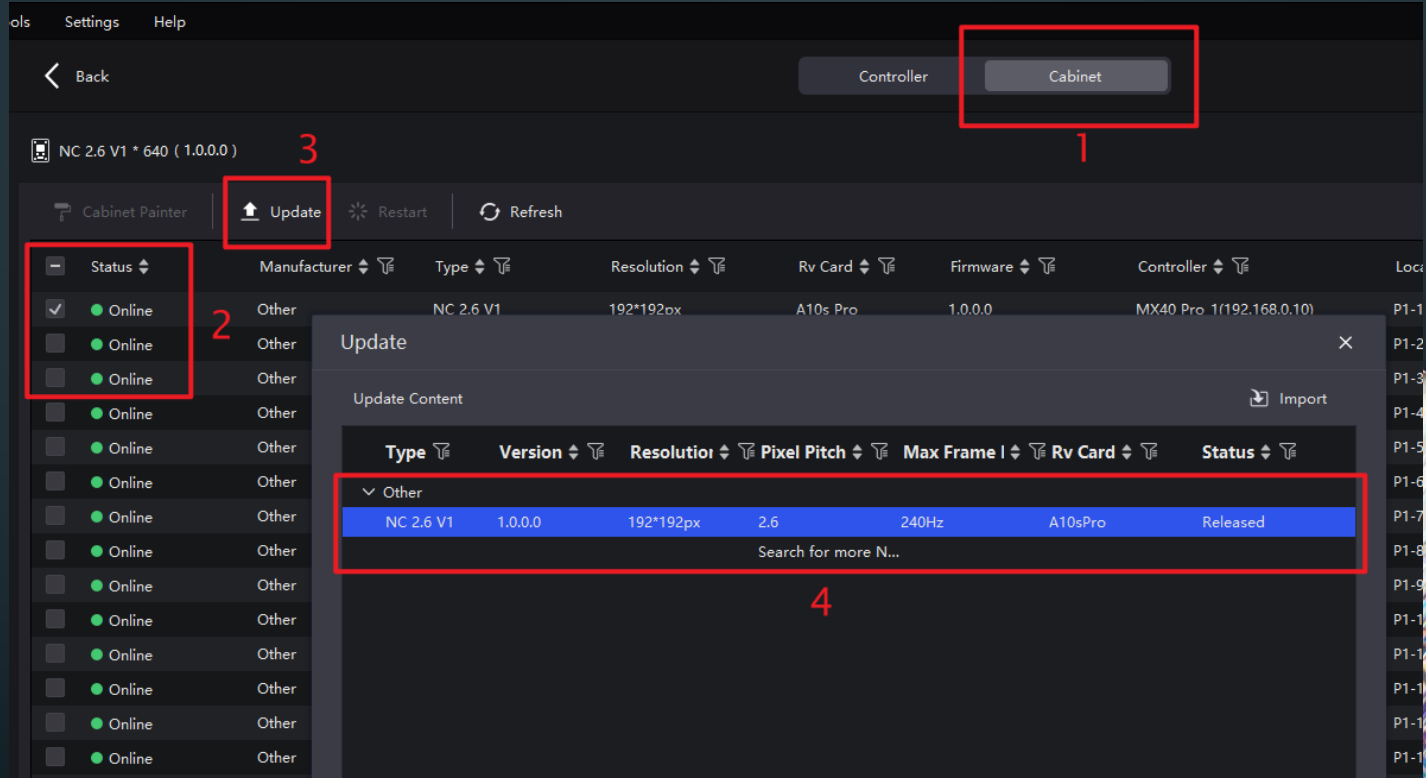
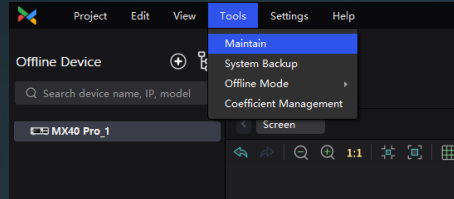


- **Screen Configuration**
- Select the Controller in the left side list
- Select “Layout”, click the outputs in the below, and add them on the canvas until all panels are connected.
- Each output will detect the total quantity of panels and calculate the usage rate.



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.**



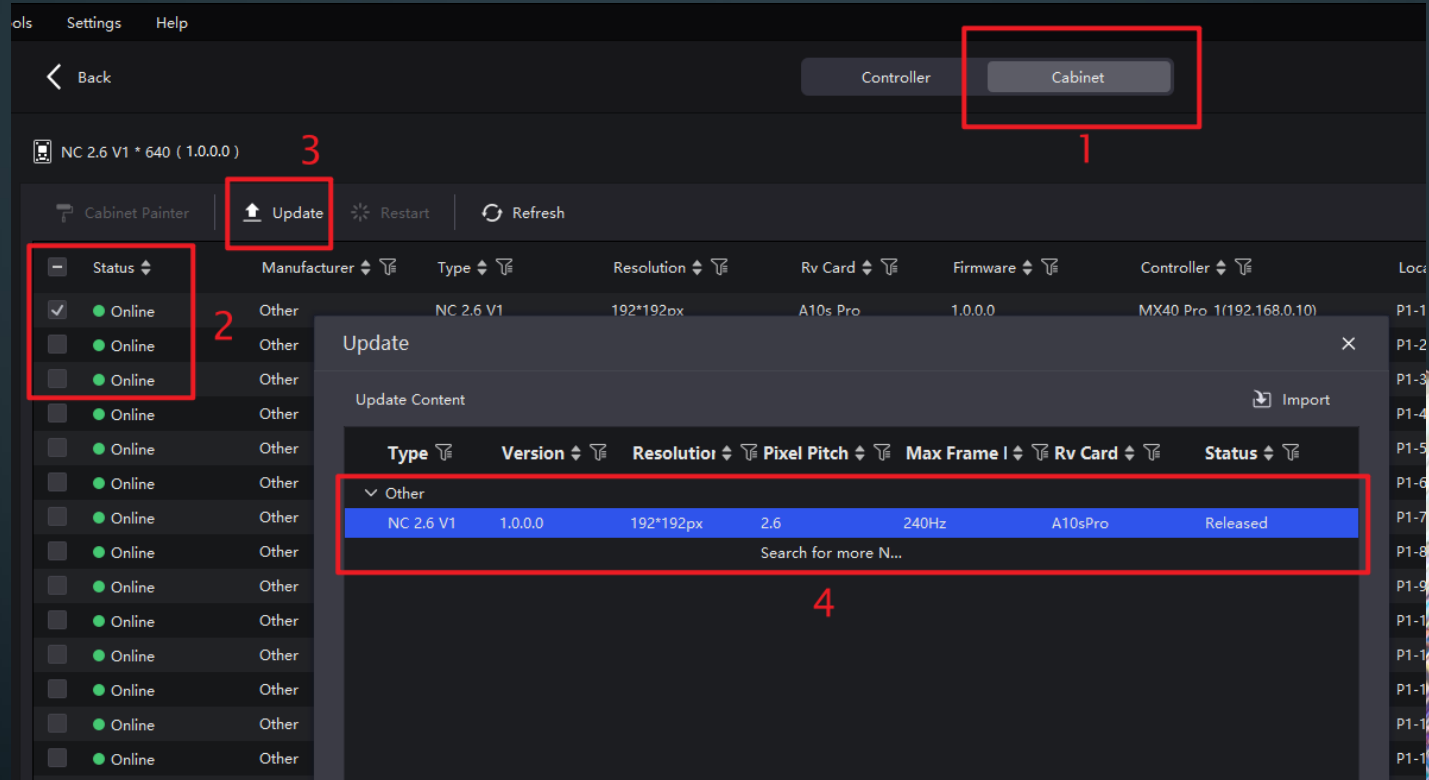
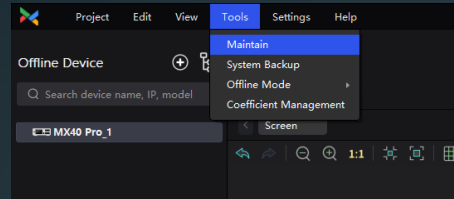
Send the rcfgx file to all panels

- Tools-Maintain

- Switch Cabinet Page

- Choose the panels

- Update >>> Choose the config file, load the .rcfgx file, click Update.



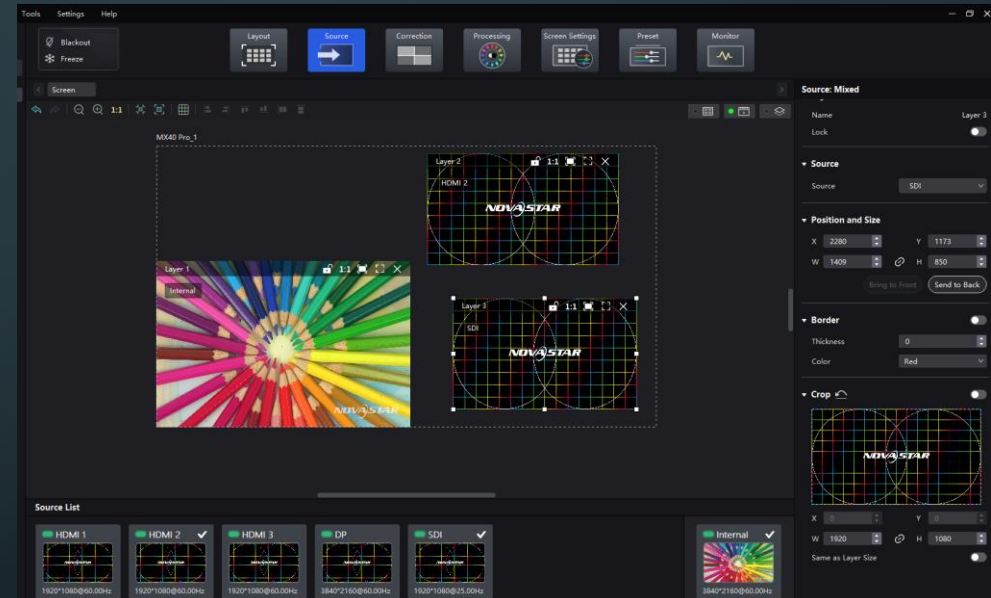
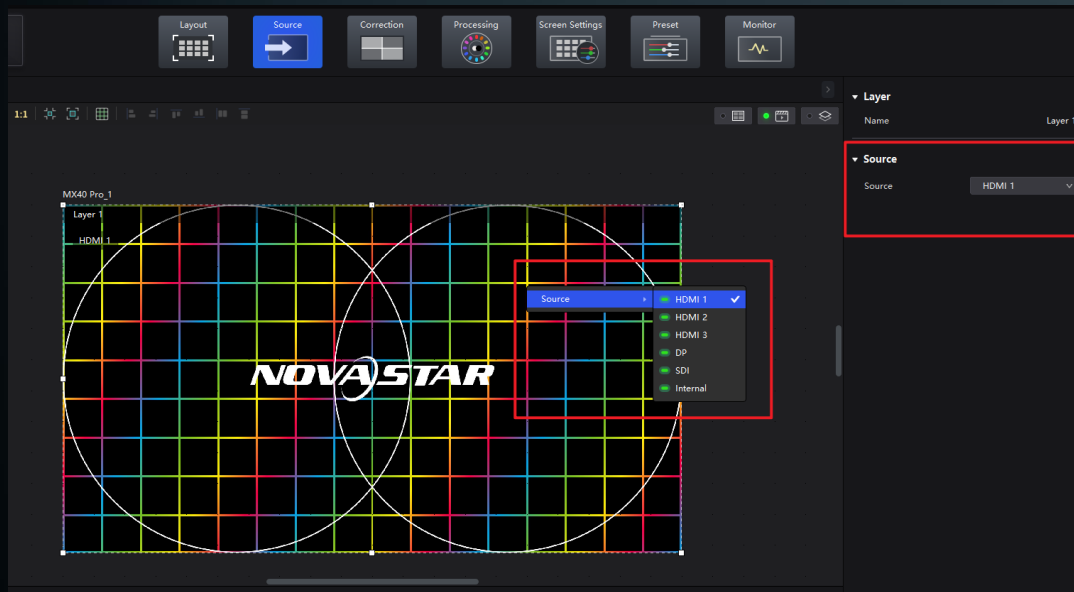
Enable Layers and Switch Source

■ Send-Only Controller Mode

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



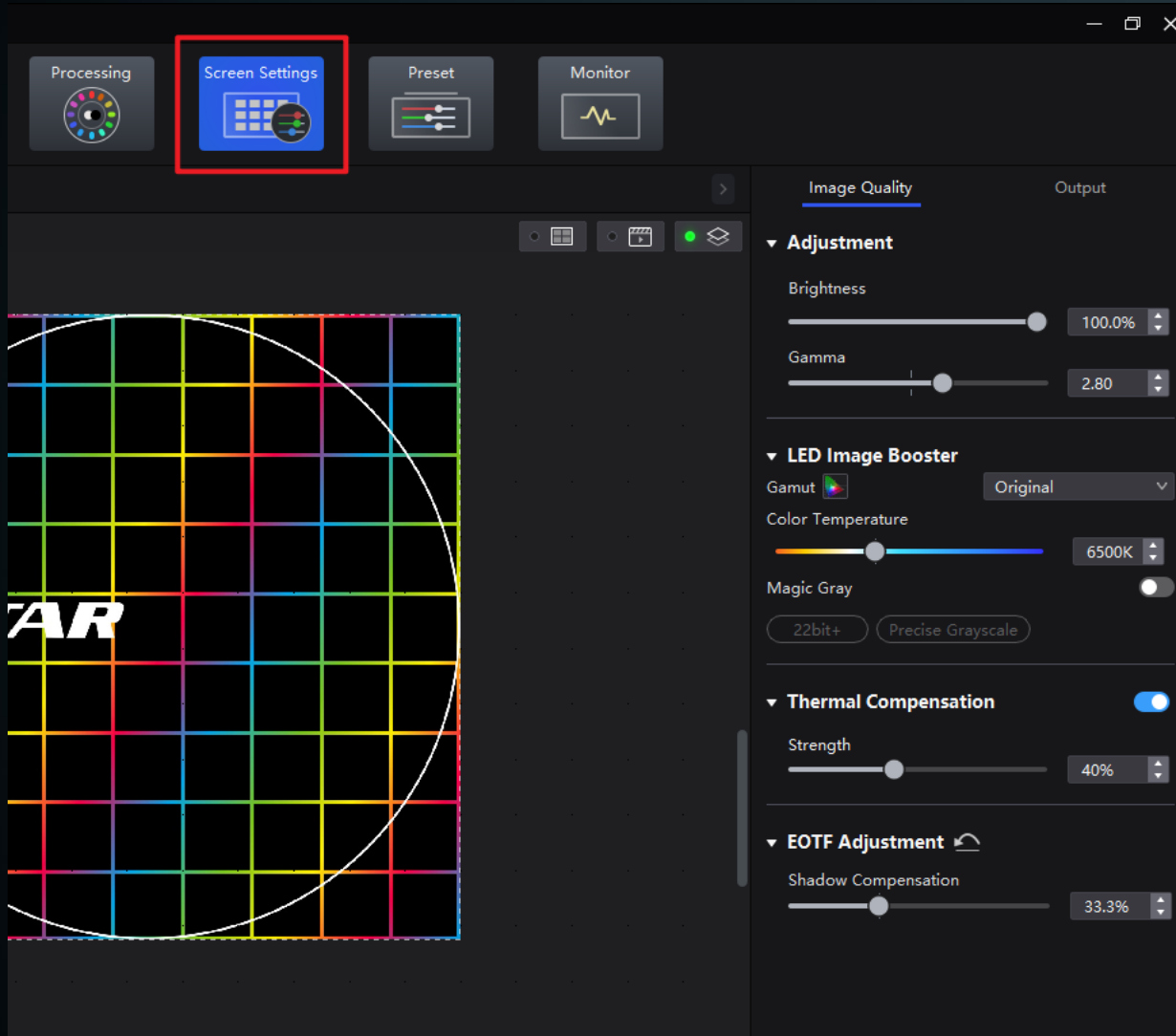
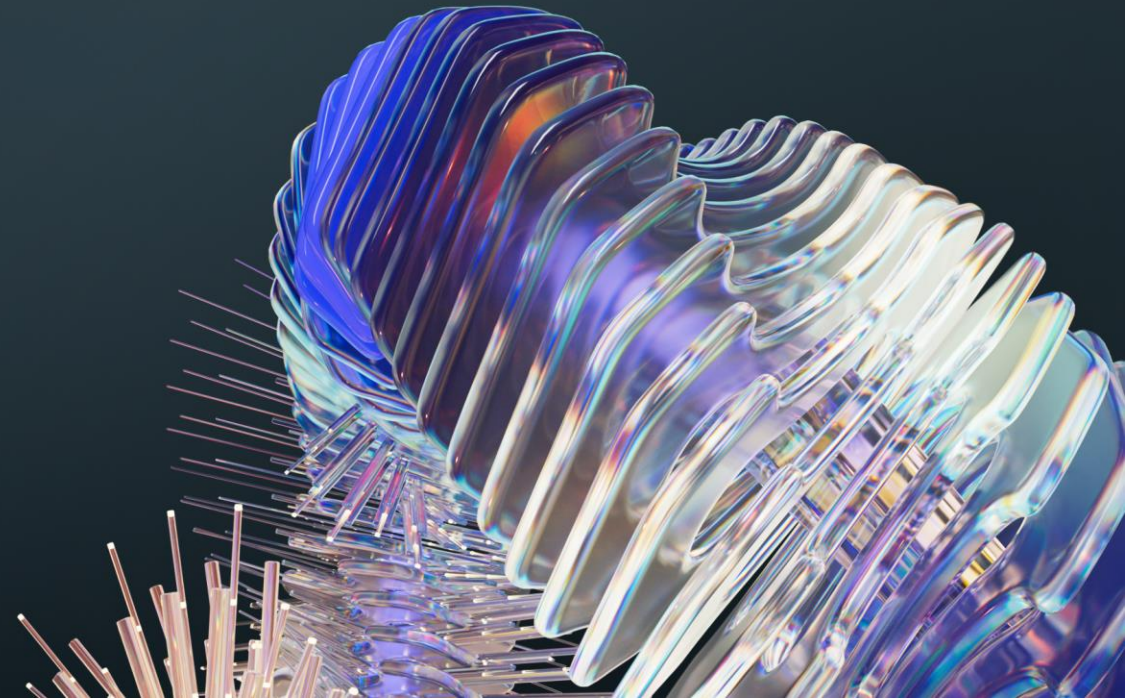


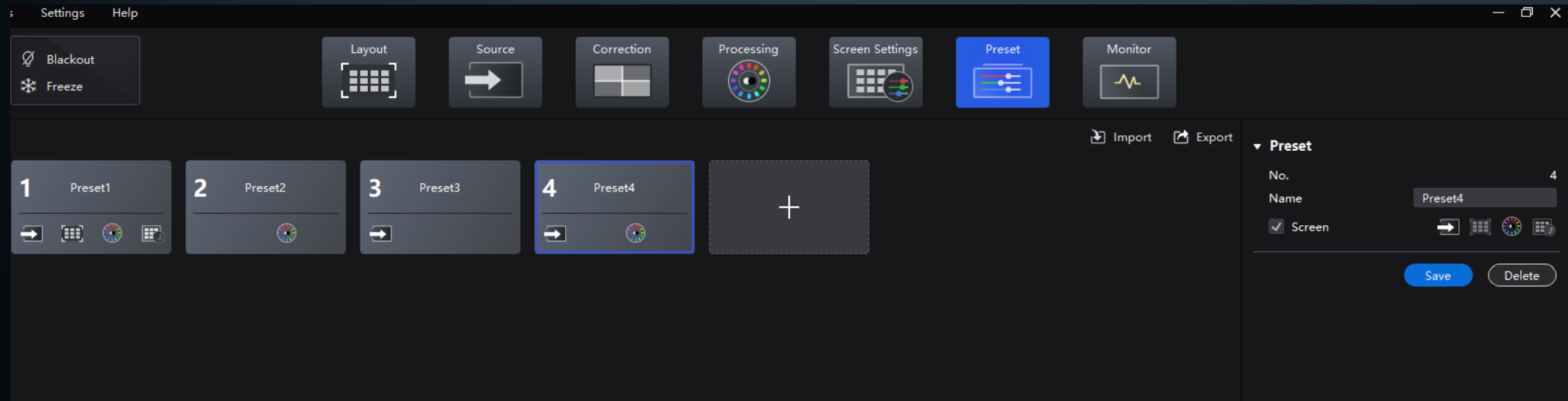
Image Quality Adjustment

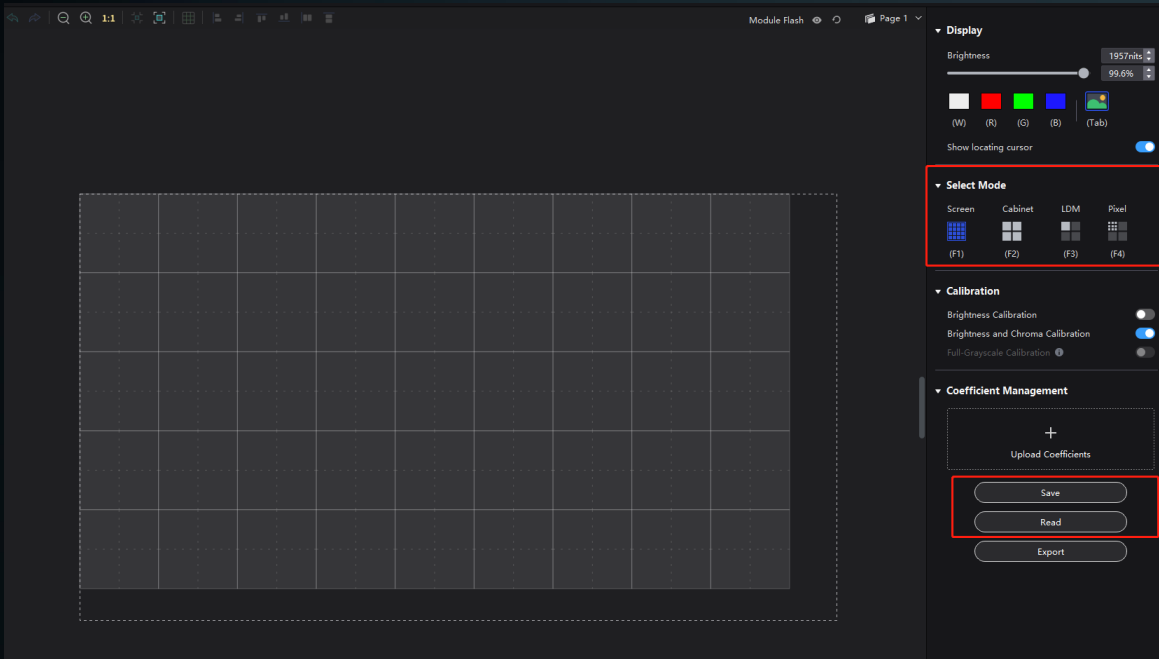
- Brightness and Gamma
- Image Booster-enable and change the color gamut, color temperature, magic gray.
- Thermal Compensation, enable and change the Strength



Presets

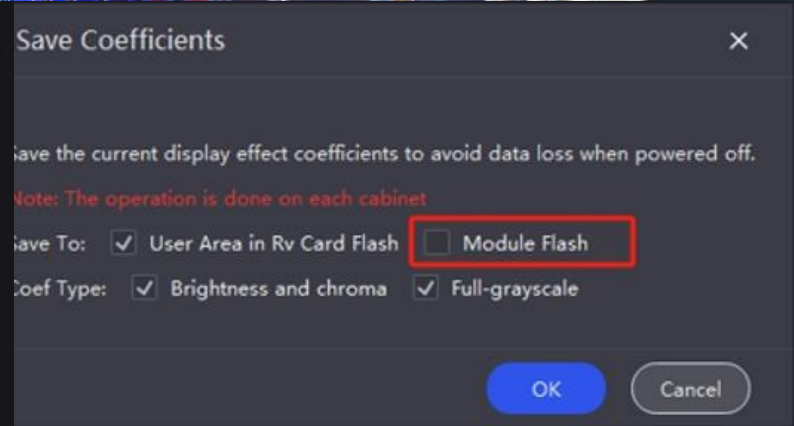
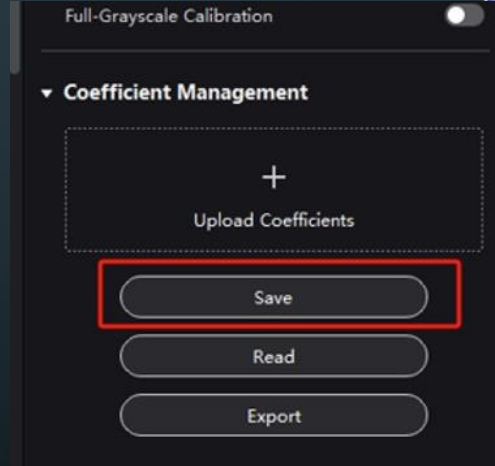
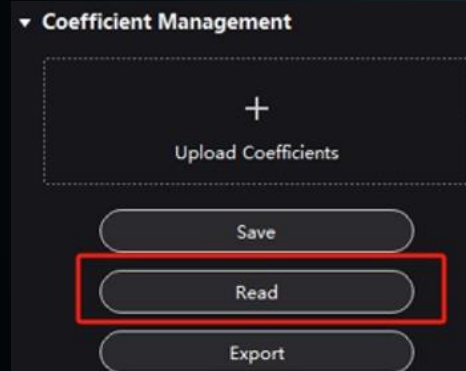
- Preset can save 4 parts, Source, Layout, Color Processing. Screen Settings.
- When save preset, it is possible to choose which part to save separately.
- The preset can be edited after creating.

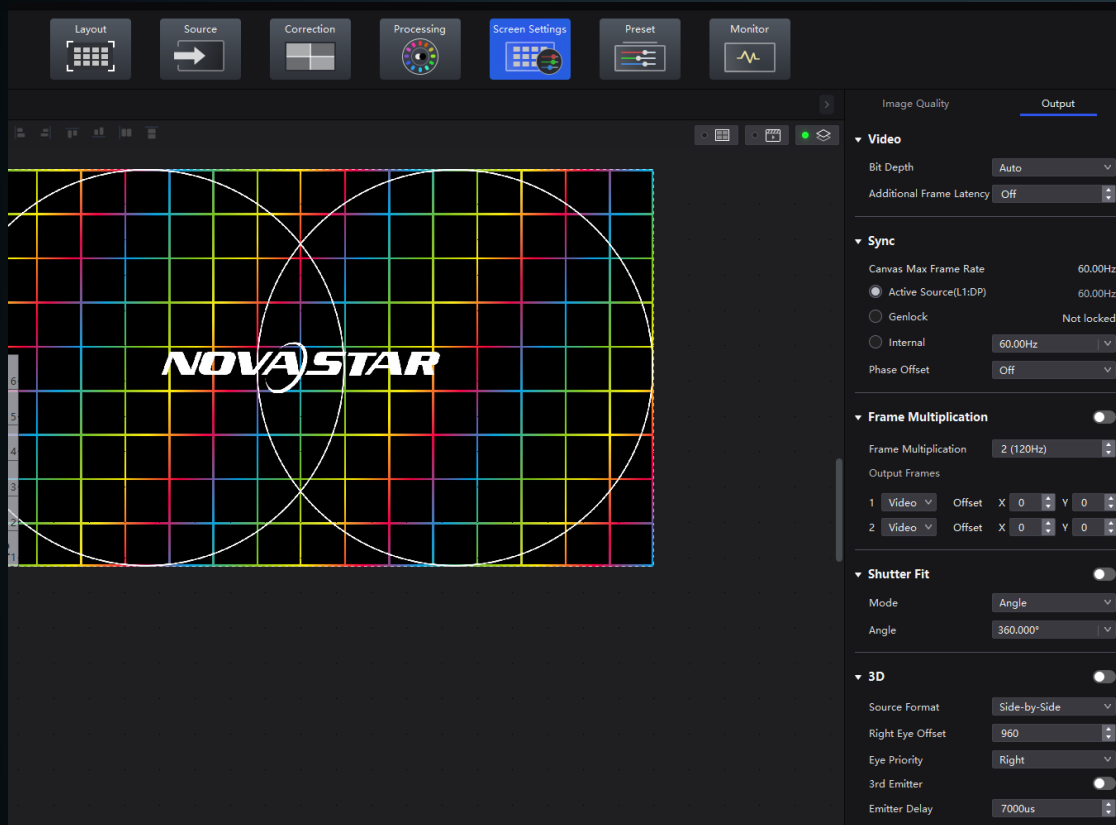




Calibration Coefficient Management (Module Flash)

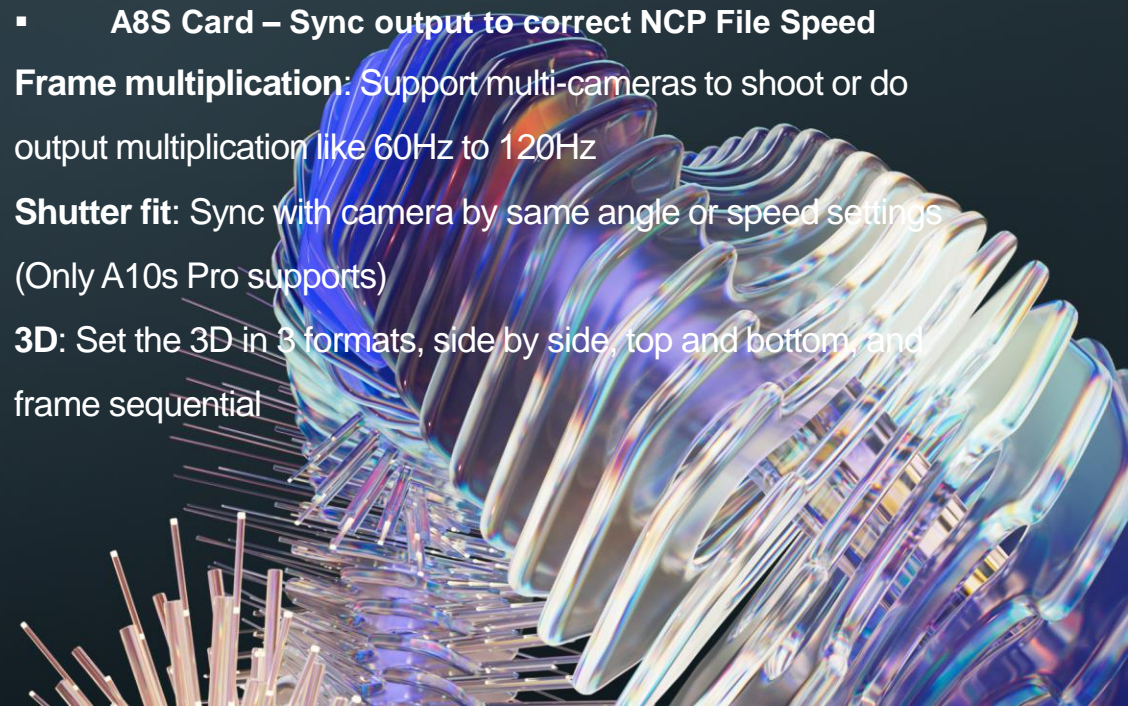
- Tools >>> Coefficient Management
- Select whole screen, cabinet, module mode
- Read Coefficient Management
- Select Module Flash
- Save Coefficient Management – **Module Flash Unticked**





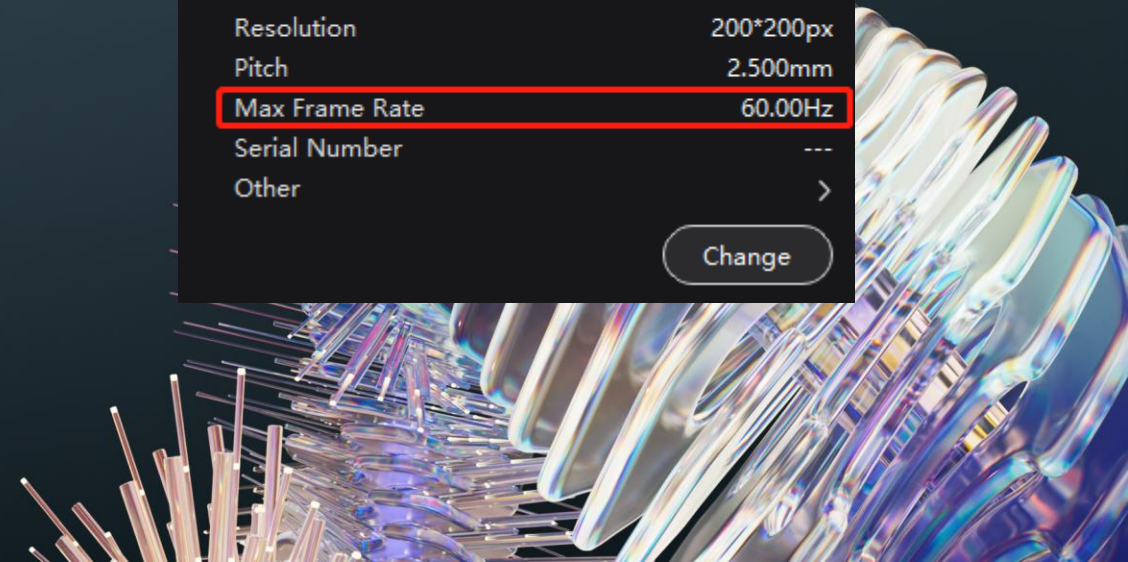
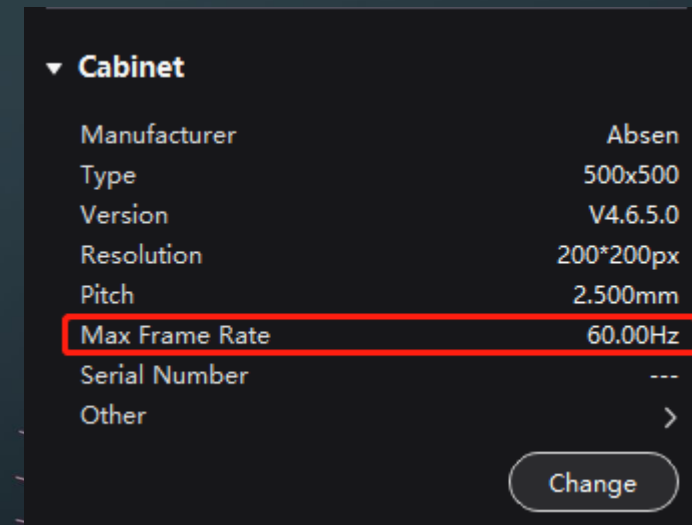
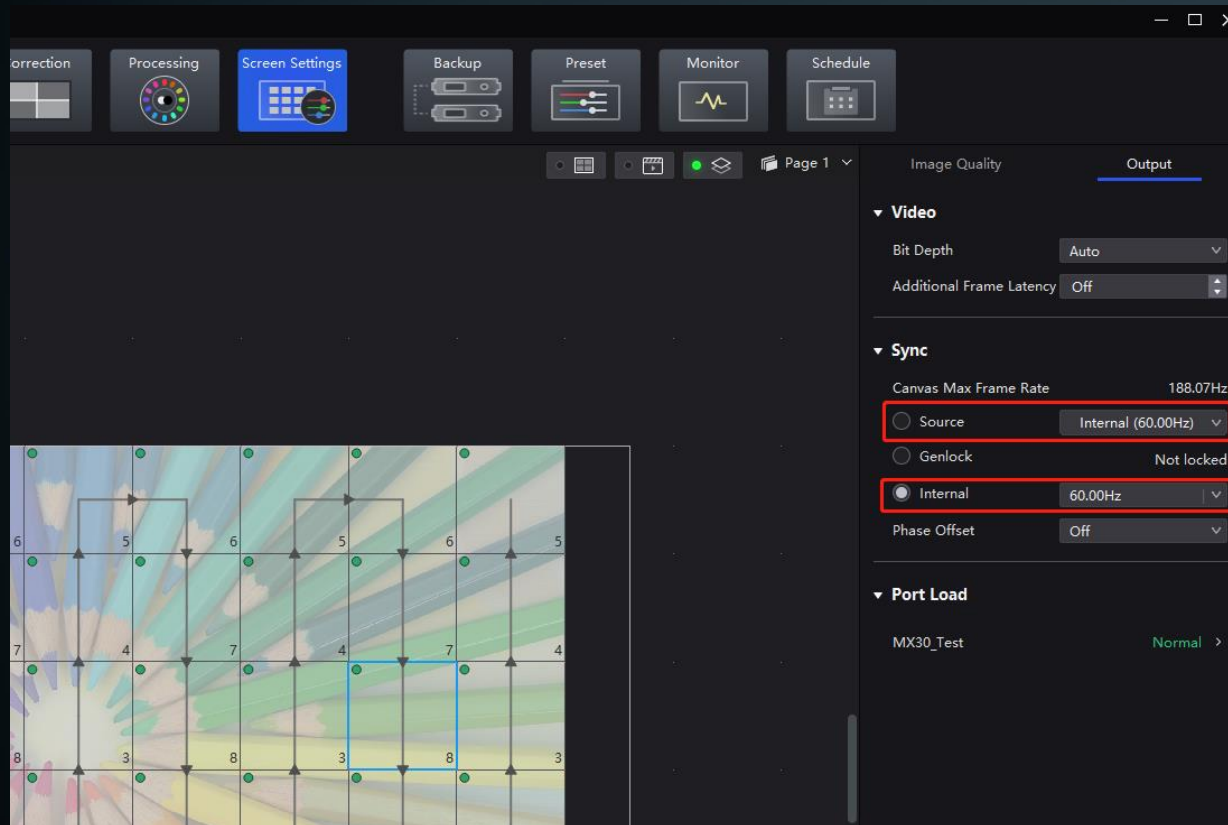
Output Settings

- **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



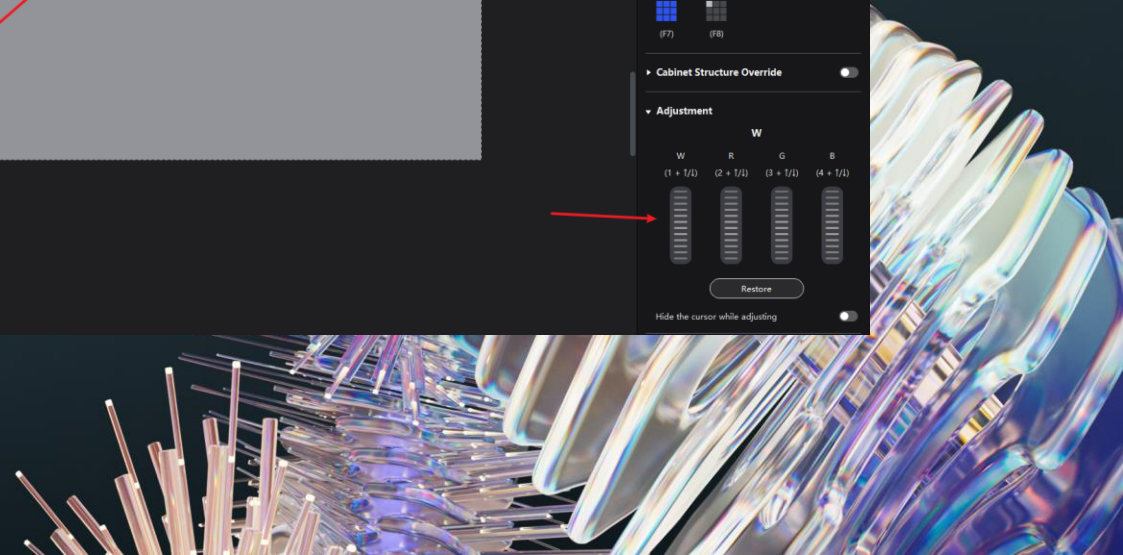
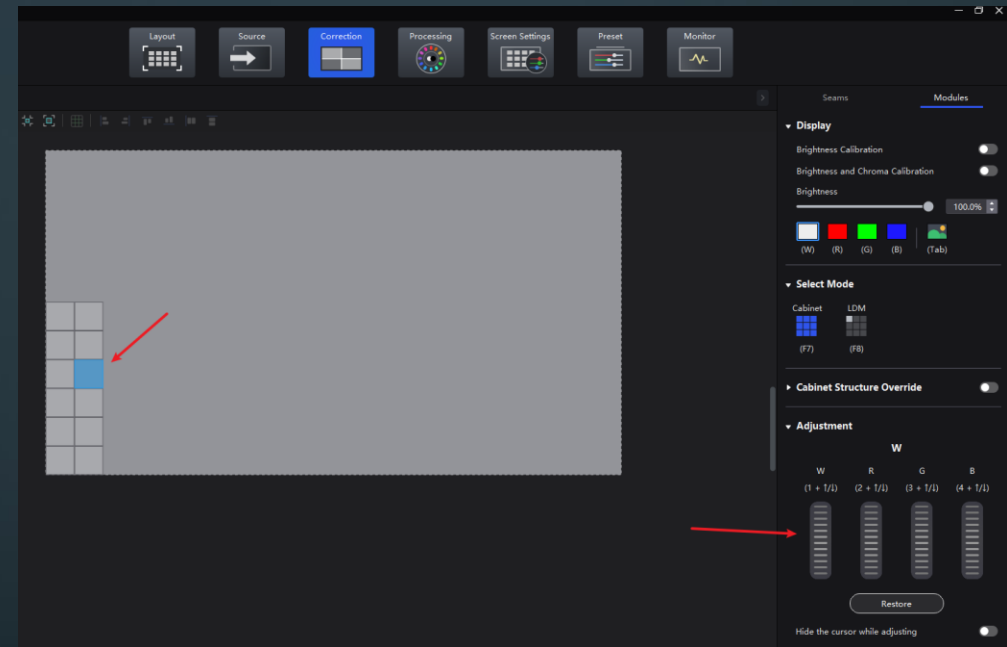
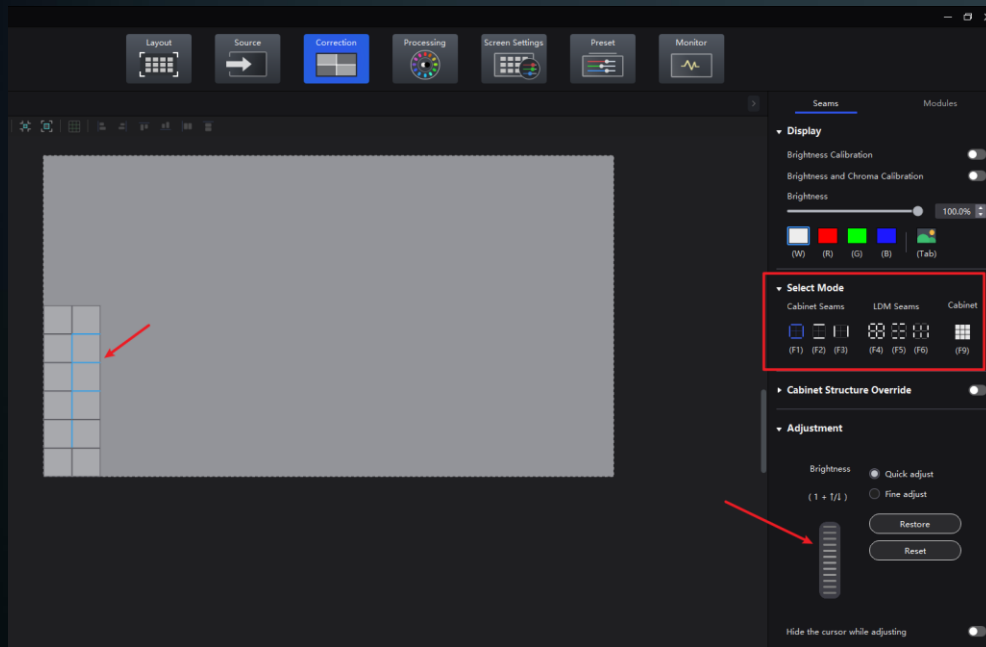
Output Sync

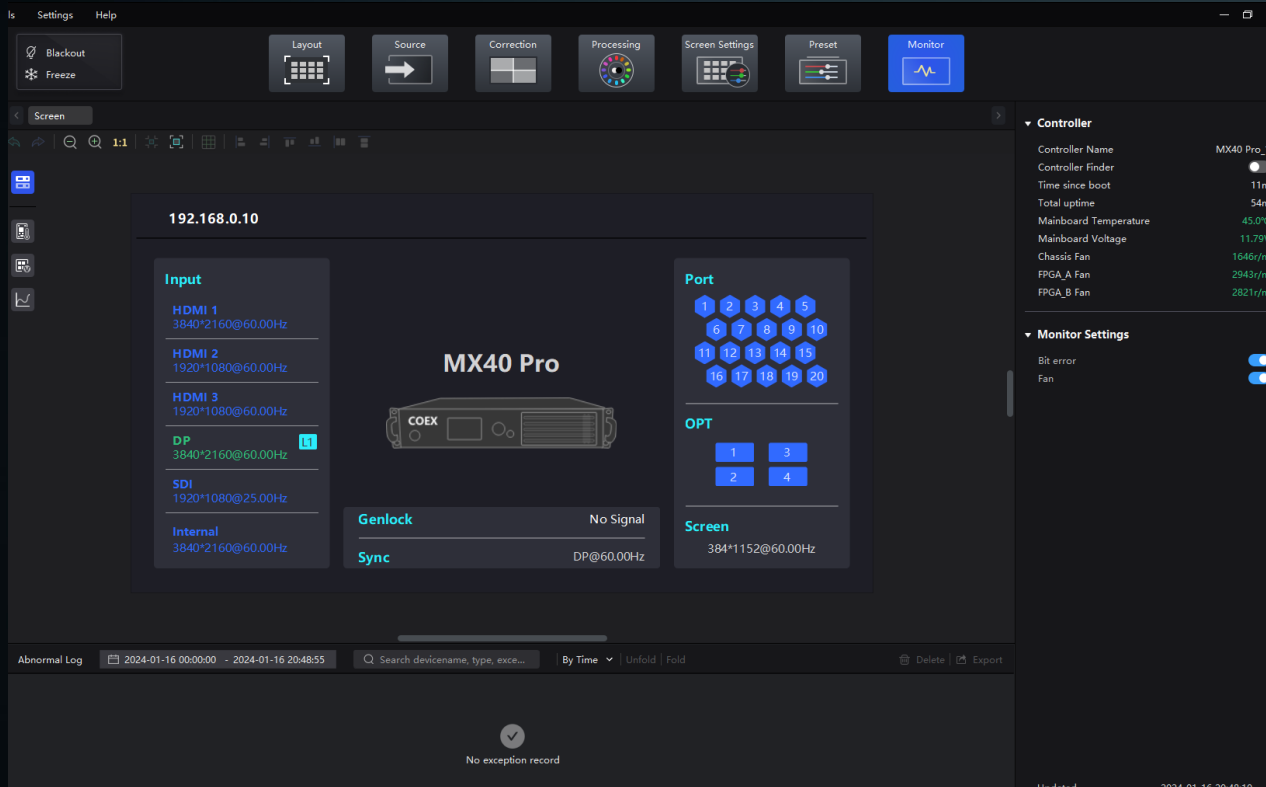
- For A8s Cards – Make sure the output sync is the same as the NCP File.
- Either via Source or Internal



Correction

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



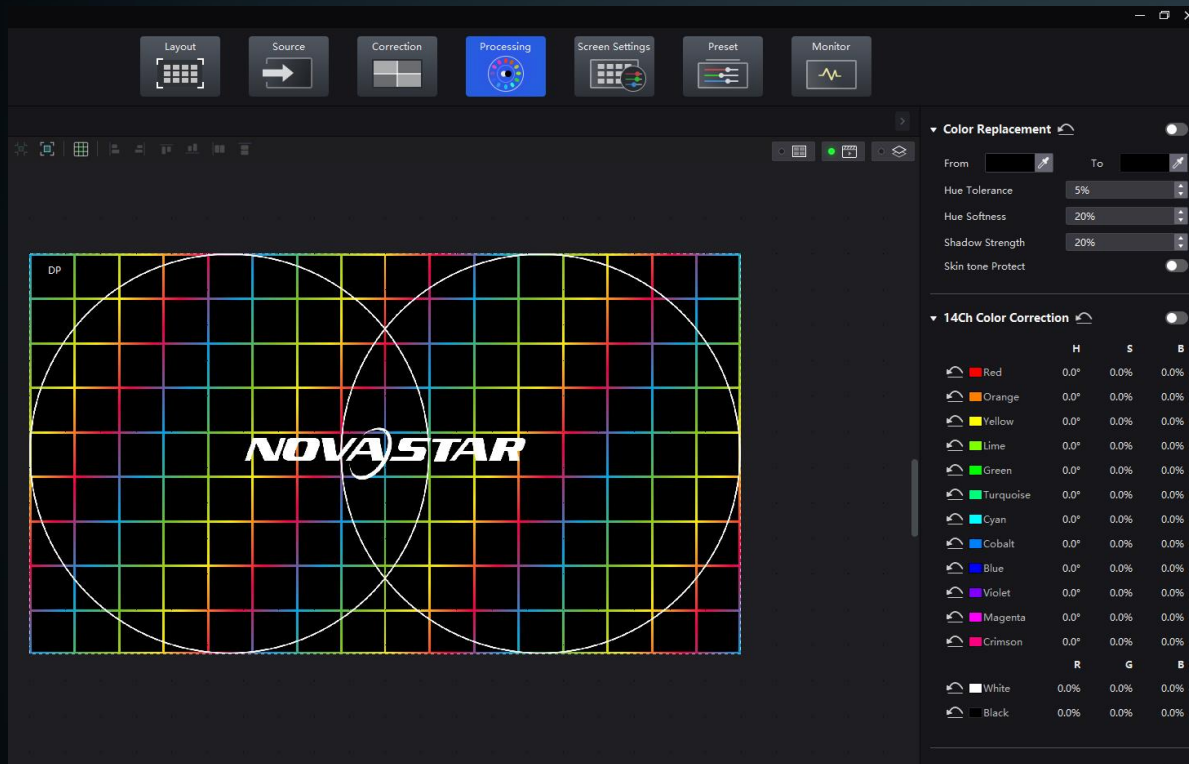


Monitoring

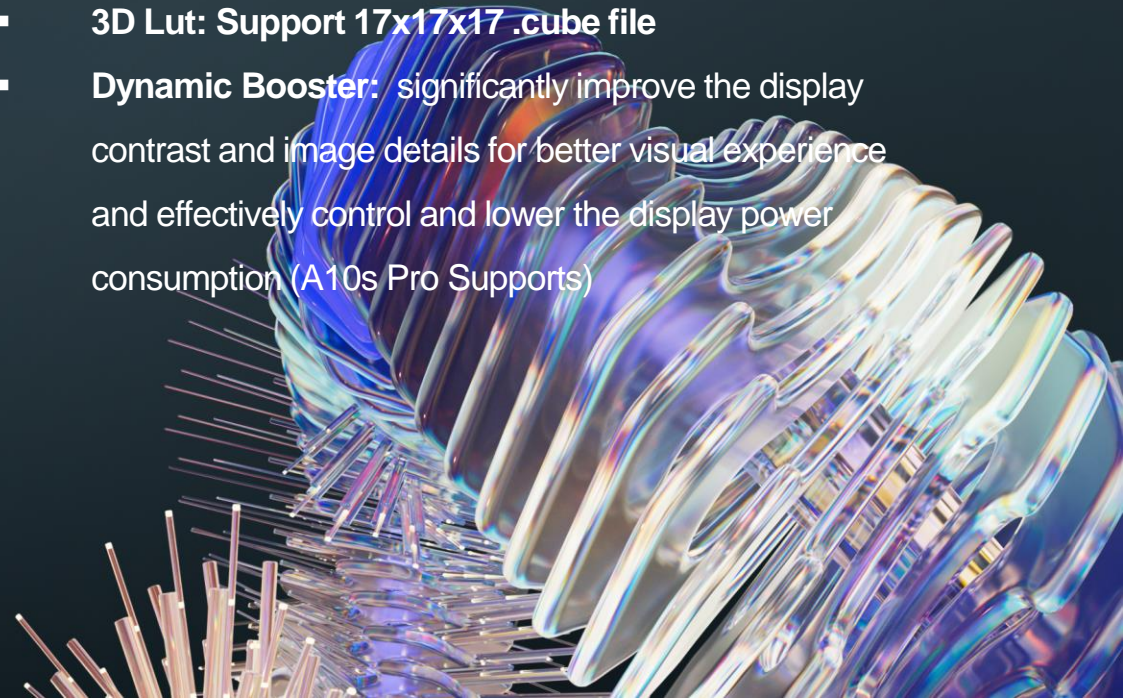
- Controller running status
- Receiving card status, temperature, voltage and bit error.
- Support Abnormal logs



Color Processing

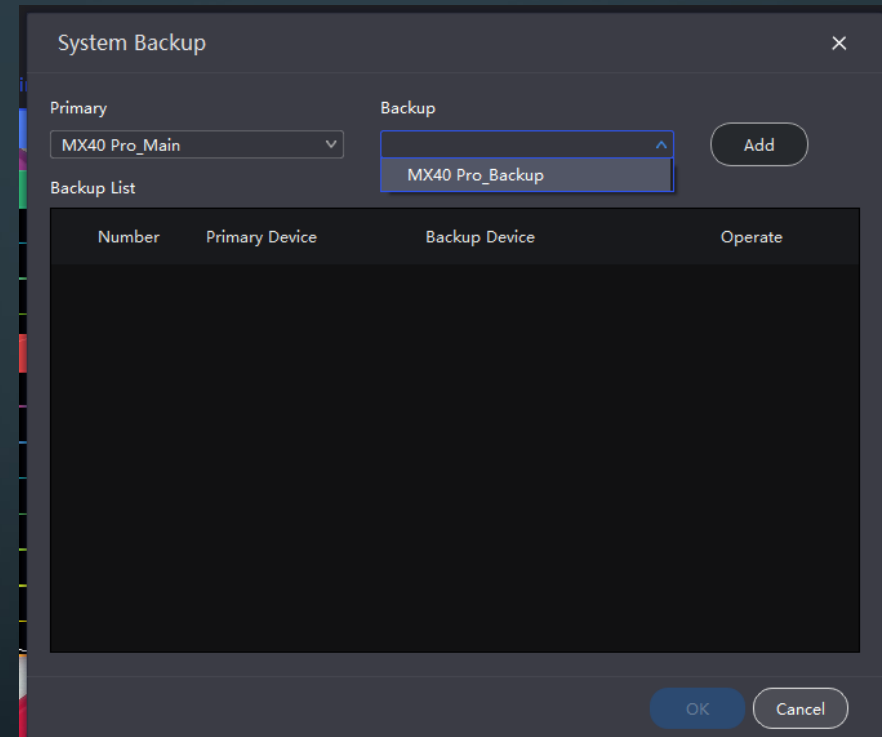
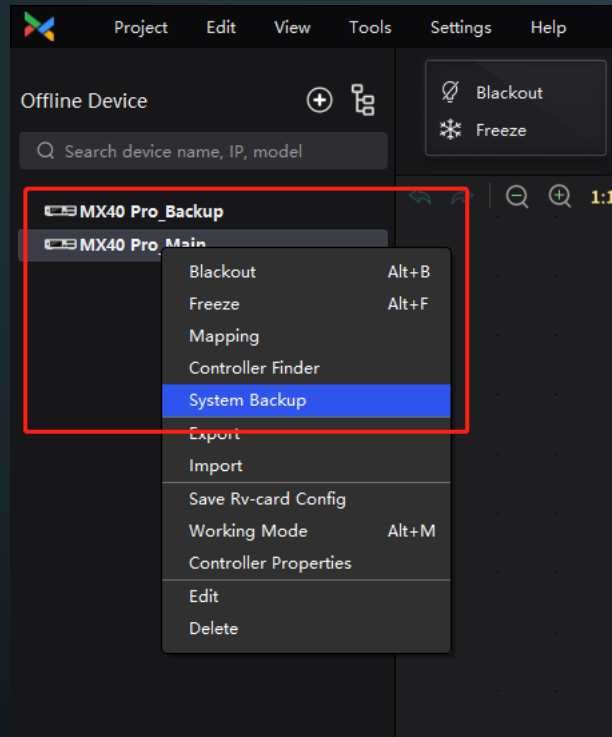
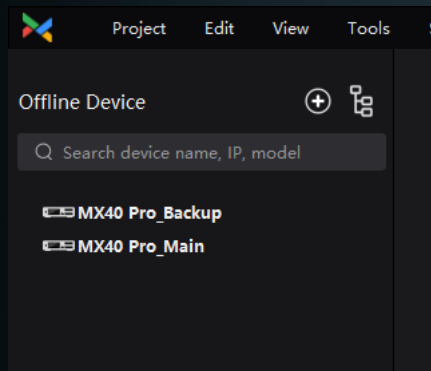


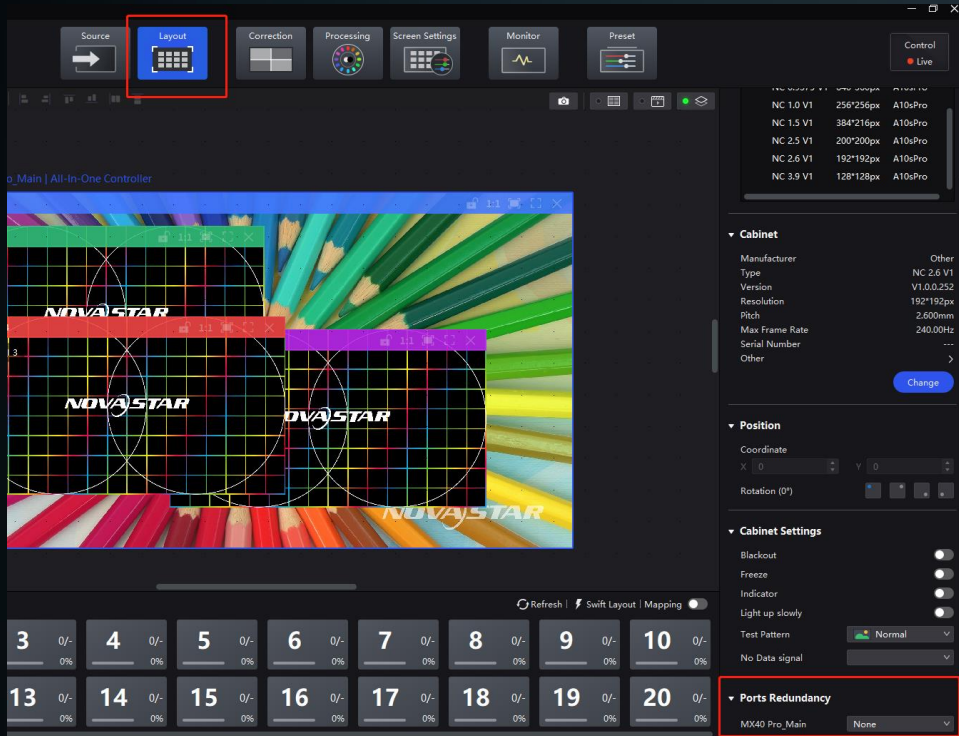
- **Color replacement:** replace a color into another
- **14CH Color Correction**
- **Color Curve**
- **3D Lut:** Support 17x17x17 .cube file
- **Dynamic Booster:** significantly improve the display contrast and image details for better visual experience and effectively control and lower the display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



Redundancy (Processor)

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





Redundancy (Cable)

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

