MX6000 Pro/MX2000 Pro LED Display Controller

V1.5.0

Release Notes

Contents

1 Update Instructions

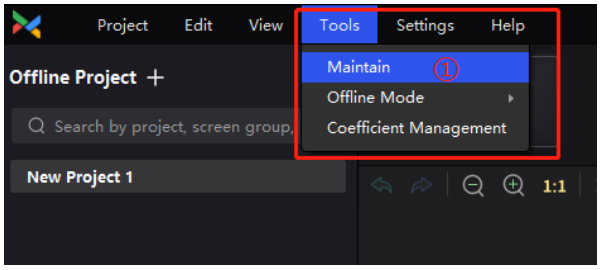
1.1 Upgrade Steps

To ensure compatibility, LED display controller V1.5.0 must be paired with VMP V1.5.0. Follow these steps to upgrade:

MX6000 Pro and MX2000 Pro LED display controllers can be upgraded to V1.5.0 directly.

1.2 Operating Procedure

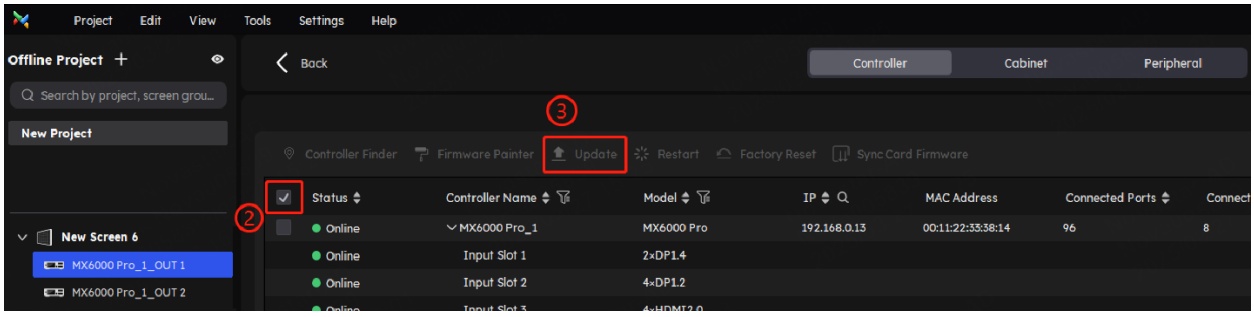
Step 1 From the menu bar, choose **Tools** > **Maintain**.



Step 2 On the **Controller** page, select the target controller.

Step 3 Click **Update** to update the controller's firmware by downloading from the cloud or uploading a local file.

- Select the **Cloud** tab to view the latest version release notes and click **Update** to download and automatically install the package.
- Choose the **Local** tab, click **Upload File**, and select either a firmware file (.img) or a compressed file (.zip) from the pop-up folder. Verify the file name and version number, then click **OK** to proceed with the update.



Note:

- When updating the firmware, it's recommended to use a wired network connection between the PC and the controller. If you need to update via the cloud, ensure the PC is connected to the Internet.
- All the devices of a screen must be upgraded at the same time.

- V1.5.0 controllers introduced support for the YCbCr 4:2:0 format, resulting in changes to the EDID compared to V1.4.0. When upgrading from an earlier version to V1.5.0, if the controller was previously outputting a non-recommended resolution (for instance, the recommended resolution is 1920×1080@60Hz, but the graphics card was forced to output 3840×2160@30Hz), after the upgrade, the output resolution might revert to the recommended 1920×1080@60Hz. In such cases, users may need to force the resolution back to 3840×2160@30Hz. It is advised before upgrading that users with NVIDIA A or P series professional graphics cards use EDID locking or mosaic settings to prevent resolution errors after the upgrade.
- When upgrading MX6000 Pro or MX2000 Pro, all of the cards must be upgraded at the same time. If the cards span across different screens, the controllers that are under the same screen as the card must also be upgraded together.

1.3 Special Note

The COEX platform also includes VMP and receiving cards, which together constitute a complete system.

Starting from COEX V1.5.0, Calcube2.X calibration software is no longer supported. Please use the official version of the CC3 software for screen calibration. Additionally, certain new or optimized features require upgrading the firmware of both VMP and receiving cards.

You can download the latest product user manual, firmware package, and CC3 at NovaStar official website: https://www.novastar.tech/downloads

2 Version Introduction

2.1 Release Notes

V1.5.0 introduced support for 3 types of new daughter cards, SPDIF audio output and 3D emitter connection, enhanced Art-Net and color space/sampling capabilities, and included various bug fixes.

2.2 Compatible Product

Product	Model
Control Software	VMP
Receiving Card	A10s Pro and its derivative cards, CA50E, XA50 Pro, A8s Pro and its derivative cards, A8s and its derivative cards, A8s-N, A7s Plus, A5s Plus, B6s
Fiber Converter	• Pair 1G output cards with CVT10 or CVT10 Pro. • Pair 5G output cards with CVT8-5G.
Multifunction Card	MFN300

Product	Model
Brightness Sensor	NS060
3D Emitter	EMT200 Pro

3 New Daughter Cards

Card Type	Card Model
Input Card	MX_1×ST 2110 (100G)
	MX_1×DP 1.4 (8K@60Hz)

4 Optimization Details

Function	Function
SPDIF Audio Output	Select a single input source as the audio output.
Art-Net	Enable/disable Art-Net and set the starting address.
Color Space/Sampling	Supports YCbCr 4:2:0 color space/sampling.
3D Emitter	Added suport for the EMT200 Pro emitter (1G/5G).

5 Bug Fixes

1. Fixed occasional source recognition issues with the MX_4x12G-SDI input card.
2. Fixed gray-scale flickering at 10-bit.
3. Addressed receiving card black screen delays over 1 second during primary and backup controller checks.
4. Fixed rare flickering issues for layers.
5. Fixed occasional screen flickering with the MX_1×ST2110 input card in high-temperature conditions.
6. Layer parameters now migrate from the screen topology module to the input source module when creating presets, fixing issues with unsynced layer parameters.
7. Fixed the issue where the screen displayed noise before returning to normal when unplugging and replugging the Ethernet port or switching between primary and backup controllers with A8s-N receiving cards
8. Fixed occasional topology errors when importing project files in offline mode.

6 Known Issues

1. Rare image flickering when switching layers.
2. Due to new YCbCr4:2:0 support and EDID template upgrade, graphics cards may need to resend the source after updating to V1.5.0 if the recommended resolution changes.
3. Duplicate entries may appear in **Monitor** > **Alarm** when modifying the controller time backward.
4. After a successful backup setup, the status appears normal, but if the backup controller is powered off, the monitoring interface may not refresh the controller's status promptly.
5. When a controller has no output card installed, VMP cannot detect the controller.

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