



MX40 Pro/MX30/MX20/KU20/CX40 Pro LED Display Controller

V1.5.0



Release Notes

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1 Update Instructions

1.1 Upgrade Steps

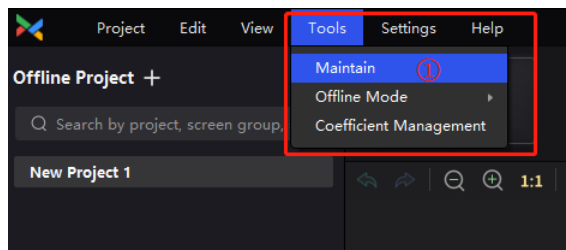
To ensure compatibility, LED display controller V1.5.0 must be paired with VMP V1.5.0.

- First, upgrade VMP to V1.5.0. Then, using VMP, upgrade the controller to V1.5.0.
- For certain controller versions, updates to V1.5.0 cannot be performed directly and must be conducted sequentially. The update steps are as follows:

Product Model	Update Steps
MX40 Pro	1. Before updating to V1.5.0, the firmware must be at V1.2.3 or later. 2. If the firmware is an earlier version than V1.2.3, first update to V1.2.3 using VMP (V1.2.3). 3. For systems running version B14, use VMP (V1.2.3) to update the controller to V1.0.0, and then proceed to update to V1.2.3.
MX30	1. Before updating to V1.5.0, the firmware must be at V1.1.0 or later. 2. If the firmware is an earlier version than V1.1.0, first update to V1.1.0 using VMP (V1.2.3).
MX20	Direct update to V1.5.0 is supported.
KU20	1. Before updating to V1.5.0, the firmware must be at V1.2.1 or later. 2. If the firmware is an earlier version than V1.2.1, first update to V1.2.1 using VMP (V1.2.3).
CX40 Pro	1. Before updating to V1.5.0, the firmware must be at V1.1.0 or later. 2. If the firmware is an earlier version than V1.1.0, first update to V1.1.0 using VMP (V1.2.3). When updating to V1.1.0, please ensure that the receiving card CA50E is updated to V1.3.0.0 or later.

1.2 Operating Procedure

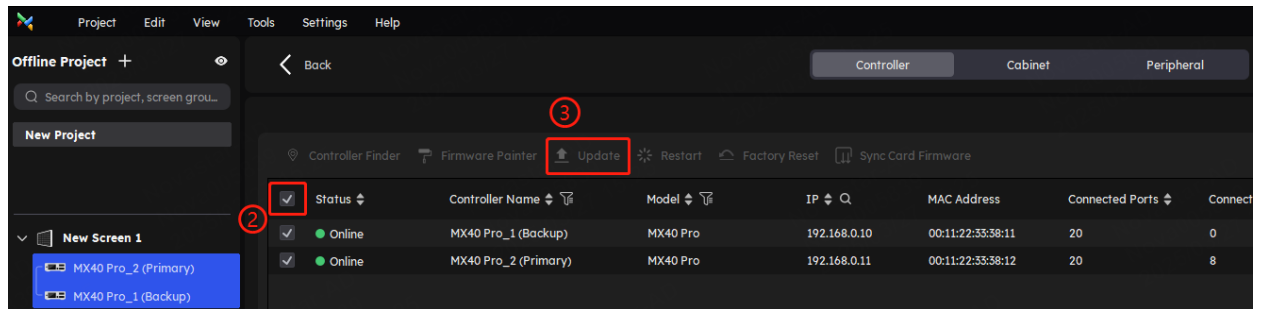
Step 1 From the menu bar, choose **Tools > Maintain**.



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.

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 SPDIF audio output and 3D emitter connection support, 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	CVT10, CVT10 Pro
Multifunction Card	MFN300
Brightness Sensor	NS060
3D Emitter	EMT200 Pro

3 Optimization Details

Function	Function	MX40 Pro	MX30	MX20	KU20	CX40Pro
SPDIF Audio Output	Select a single input source as the audio output.	√	√	√	√	√
Art-Net	Allows for setting of the start address.	√	√	√	√	√
Color Space/Sampling	Supports YCbCr 4:2:0 color space/sampling.	√	√	×	×	√
3D Emitter	Supports connection to the EMT200 Pro emitter.	√	×	×	×	√

4 Bug Fixes

1. Fixed occasional SDI source recognition issues with MX40 Pro and CX40 Pro.
2. Fixed gray-scale flickering at 8-bit for KU20.

3. Addressed receiving card black screen delays of over 1 second during primary and backup controller checkup.
4. Fixed sporadic line flickering when 10-bit is enabled on MX30.
5. Fixed the issue on the MX40 Pro where enabling layers occasionally caused flickering in the top few lines.
6. Fixed the issue where the controller occasionally failed to recognize or misidentified sources after power cycling.
7. Layer parameters now migrate from the screen topology module to the input source module when creating presets, fixing issues with unsynced layer parameters.
8. 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
9. Fixed occasional topology errors when importing project files in offline mode.

5 Known Issues

1. On a few Intel integrated graphics laptops, toggling HDR may occasionally cause the source preview to blackout. Switching HDR off and on again usually resolves the issue.
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. You can manually refresh the receiving card through cabinet maintenance to restore it.

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