MX40 Pro LED Display Controller

V1.4.0

Release Notes

Contents

1 Upgrade Instructions

1.1 Upgrade Steps

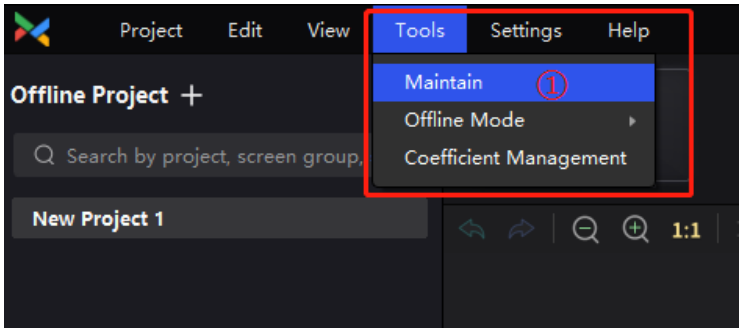
To ensure compatibility, LED display controller V1.4.0 must be paired with VMP V1.4.0. Follow these steps to upgrade:

The controller must be running firmware V1.2.3 or later before upgrading to V1.4.0.

Note: If the MX40 Pro is running firmware version B14, please use VMP V1.2.3 to upgrade the controller to V1.0.0, and then upgrade it to V1.2.3.

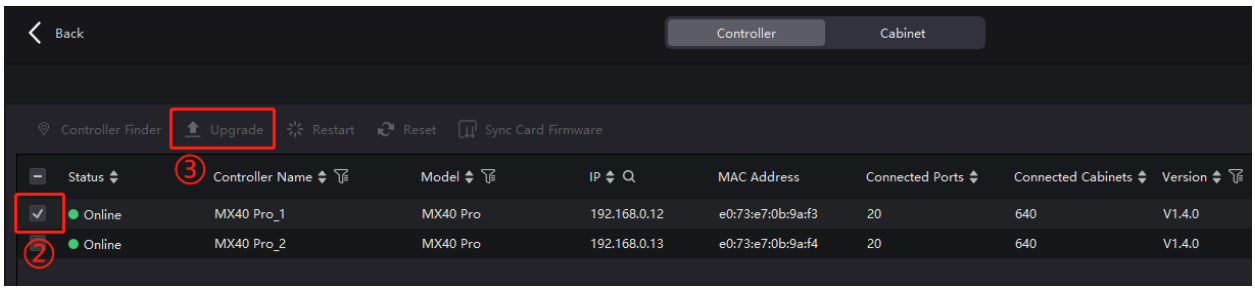
1.2 Operating Procedure

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



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

Step 3 Click **Upgrade**, select the V1.4.0 firmware program file (.img) or .zip file and click **OK**.



Note:

- It is recommended to perform the upgrade using a wired network.
- All the devices of a screen must be upgraded at the same time.

1.3 Special Note

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

Additionally, certain new or optimized features require upgrading the firmware of both VMP and receiving cards.

The latest product user manuals and firmware packages are available on NovaStar's official website at:
https://www.novastar.tech/downloads/?_sasdk=dMTg4NDI2YTE0Mjc3ZGQtMDAyYTExZDZkN2U1OTdhMi0yNjAzMWE1MS0yMDczNjAwLTE4ODQyNmExNDI4MTAzOQ

2 New Version Introduction

2.1 Release Notes

Version 1.4.0 enhances the 3D LUT, multi-batch module adjustment and optical port settings functions, and includes several bug fixes.

2.2 Compatible Product

Product	Model
Control Software	VMP
Receiving Card	A5s Plus, A7s Plus, A8s and its series, A8s-N, A8s Pro and its series, A10s Pro and its series
Fiber Converter	CVT10, CVT10 Pro
Multifunction Card	MFN300
Light Sensor	NS060

3 Optimization Details

Function	Description
3D LUT	File uploads now support precision formats of 33x33x33 and 65x65x65.
Multi-batch Module Adjustment	Optimized device performance to significantly enhance the speed of multi-batch module adjustment. (Available with the A10s Pro)
Optical Port Settings	Allows expansion from 20 to 40 Ethernet ports for optical output. This improves the output capability of the device's Ethernet ports, enabling a single device to achieve 4K@60Hz output backup and 4K@120Hz

Function	Description
	output of frame multiplication.
Mixed Output of Optical and Ethernet port	Support both fiber converter's Ethernet port output and controller's Ethernet port output (fiber converter's Ethernet port output takes priority when both of them are available).

4 Bug Fixes

1. Fixed the issue where the device-to-device backup in all-in-one controller mode does not take effect after the layer becomes source-less.
2. Fixed the issue of occasional jitter in the fourth layer after power cycling.
3. Fixed the issue of occasional self-check error after power cycling, with error codes of FPGA B DDR ERROR, Vol_Main_12V, and Xserver work error.
4. Fixed the issue where the LED Image Booster does not take effect on certain cabinets when the screen is loaded by multiple models of receiving cards.
5. Fixed the issue where turning on the calibration switch after uploading the calibration coefficients when the controller works with the A10s Pro caused bright lines to appear on the display.
6. Fixed the issue where, under a 10-bit output, adjusting the low-grayscale compensation to 83.3% and 100% caused abnormal display on the screen.
7. Fixed the issue where the input sources are unstable for HDMI 2 and HDMI 3 connectors at a resolution of 3840×1152@60Hz.
8. Fixed the compatibility issue between Blackmagic's Teranex Mini–HDMI to 12G-SDI converter and MX40 Pro's SDI connector.
9. Fixed the issue where the multi-mode function is not displayed in VMP V1.2.3 interface after the NCP file generated by Cabinet Tool V1.0.5 is imported to VMP.
10. Fixed the issue where the display exhibits grayscale spikes when the grayscale gradient test pattern is displayed.
11. Fixed the issue where the ARM system would crash abnormally after a power cycle or extended operation.
12. Fixed the issue of error codes occurring on the fiber converter's 9th Ethernet port when it loads cabinets while the fiber converter is connected to the controller's optical port.
13. Fixed the issue where the display exhibits noise when playing a specific image for an extended period.
14. Fixed the issue where certain cabinets display a black image when the number of cabinets in the screen topology exceeds 16.

5 Known Issues

None.

Trademark

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