MX40 Pro/MX30/MX20/KU20/CX40 Pro

LED Display Controller

V1.5.1

Release Notes

Contents

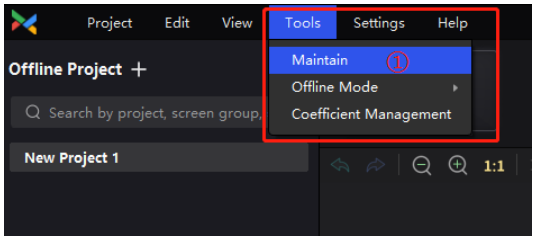
1 Update Instructions

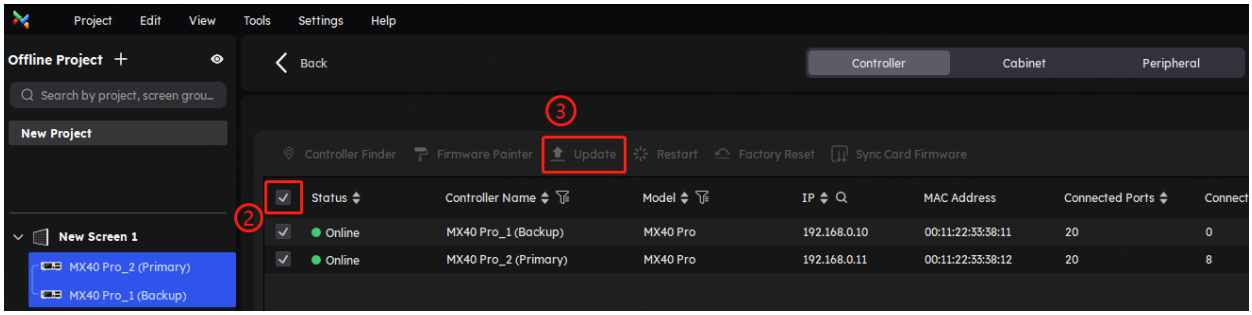
1.1 Update Strategy

LED display controller V1.5.1 must be paired with VMP V1.5.1. The update strategies for the LED display controller are as follows:

Product Model	Update Strategy
MX40 Pro	1. Before updating to V1.5.1, the firmware must be at V1.4.0 or later. 2. If the firmware is at V1.2.3, first update to V1.4.0 using VMP (V1.4.0 or later). 3. If the firmware is an earlier version than V1.2.3, first update to V1.2.3 using VMP (V1.2.3). Then, use VMP (V1.4.0 or later) to update the controller to V1.4.0. 4. For systems running version B14, use VMP (V1.2.3) to update the controller to V1.0.0, and then update to V1.2.3 and V1.4.0 sequentially.
MX30	1. Before updating to V1.5.1, the firmware must be at V1.4.0 or later. 2. If the firmware version is at V1.1.0, first update to V1.4.0 using VMP (V1.4.0 or later). 3. If the firmware is an earlier version than V1.1.0, first update to V1.1.0 using VMP (V1.2.3). Then, use VMP (V1.4.0 or later) to update the controller to V1.4.0.
MX20	1. Before updating to V1.5.1, the firmware must be at V1.4.0 or later. 2. If the firmware is an earlier version than V1.4.0, first update to V1.4.0 using VMP (V1.4.0 or later).
KU20	1. Before updating to V1.5.1, the firmware must be at V1.4.0 or later. 2. If the firmware version is at V1.2.1, first update to V1.4.0 using VMP (V1.4.0 or later). 3. If the firmware is an earlier version than V1.2.1, first update to V1.2.1 using VMP (V1.2.3). Then, use VMP (V1.4.0 or later) to update the controller to V1.4.0.
CX40 Pro	1. Before updating to V1.5.1, the firmware must be at V1.4.0.B5 or later. 2. If the firmware version is at V1.1.0, first update to V1.4.0.B5 using VMP (V1.4.0.CTM0210 or later). Then, perform a factory reset on the controller and select **Reset all**. 3. If the firmware is an earlier version than V1.1.0, first update to V1.1.0 using VMP (V1.2.3). Then, use VMP (V1.4.0.CTM0210 or later) to update the controller to V1.4.0.B5. 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





Note:

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

1.3 Special Note

The COEX platform includes LED display controllers and receiving cards, which together constitute a complete system.

Additionally, certain new or optimized features require updating both VMP and receiving card firmware.

The latest user manuals and firmware can be found at the following website:

https://www.novastar.tech/downloads

2 Version Introduction

2.1 Release Notes

V1.5.1 included optimizations to the single-card controllers and some 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

Product	Model
Brightness Sensor	NS060
3D Emitter	EMT200 Pro

3 Optimization Details

Name	Description	MX40 Pro	MX30	MX20	KU20	CX40 Pro
Firmware Update	Optimize the firmware update process and improve the firmware package transmission method to avoid false positive interception by some antivirus software, ensuring stable and reliable updates.	✓	✓	✓	✓	✓
EOTF Low-Grayscale Compensation Optimization	After optimization, 10-bit and 12-bit start glowing step by step at 33.3% at 100% brightness.	✓	✓ (12-bit not supported)	✓ (12-bit not supported)	✗ (10-bit and 12-bit not supported)	✓

4 Bug Fixes

- Fixed the screen flashing issue when the KU20 was used with specific receiving cards.
- Fixed the occasional issue where NTP time synchronization would fail to take effect.
- Fixed the overexposure issue on the MX40 Pro when outputting 12-bit video from an HDR input source.

5 Known Issues

- Fixed the occasional resolution misidentification issue with the MX30's HDMI/DP connectors when paired with an RX 5700 graphics card.
- Fixed the occasional single-frame flash corruption when switching input sources on the CX40 Pro in the All-In-One Controller mode.

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