NOVASTAR MX Series LED Display Controller User Manual

Contents

NOVASTAR MX Series LED Display Controller

Specifications

- **Product:** MX30/MX20/KU20 LED Display Controller V1.4.0
- **Manufacturer:** COEX
- **Release Notes**: V1.4.0

Product Information

The COEX MX30/MX20/KU20 V1.4.0 LED Display Controller is part of the COEX platform which includes VMP and receiving cards, constituting a complete system. It offers enhanced multi-batch module adjustment functions and bug fixes for improved performance.

Usage Instructions

Upgrade Instructions

Upgrade Steps

1. From the menu bar, choose Tools > Maintain.
2. On the Controller page, select the target controllers.
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 devices of a screen must be upgraded simultaneously.

New Version Introduction

Version 1.4.0 enhances the multi-batch module adjustment function and includes several bug fixes. Compatible products include VMP A5s Plus, A7s Plus, A8s, A8s-N, A8s Pro, A10s Pro, CVT10, CVT10 Pro, MFN300, and NS060.

Optimization Details

- **Function:** Multi-batch Module Adjustment
- **Description:** Optimized device performance to significantly enhance the speed of multi-batch module adjustment. (Available with the A10s Pro)

Bug Fixes

- Fixed issues such as device-to-device backup, LED Image
  Booster, calibration switch effects, low-grayscale compensation adjustments, multi-mode function display, grayscale spikes, and abnormal ARM system crashes.

FAQ

Where can I find the latest product user manuals and firmware packages?
The latest product user manuals and firmware packages are available on NovaStar's official website at: NovaStar Downloads

Upgrade Instructions

Upgrade Steps

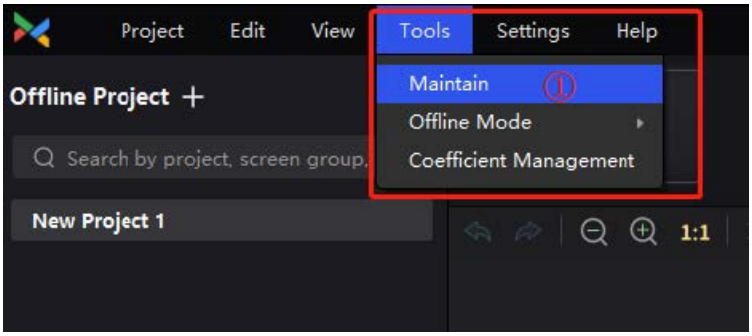
To ensure compatibility, LED display controller V1.4.0 must be paired with VMP V1.4.0. Follow these steps to upgrade:

- The MX30 must be running firmware V1.1.0 or later before upgrading to V1.4.0.
- The MX20 must be running firmware V1.0.0 or later before upgrading to V1.4.0.
- The KU20 must be running firmware V1.2.1 or later before upgrading to V1.4.0.

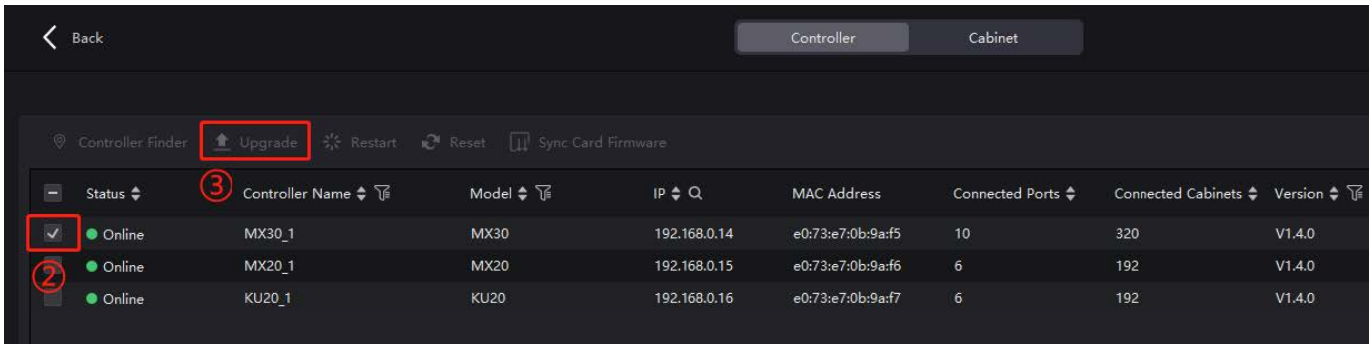
Note: If the controller is running a firmware version below the one mentioned above, please download the firmware from the official website to upgrade.

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.

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

New Version Introduction

Release Notes
Version 1.4.0 enhances the multi-batch module adjustment function and includes several bug fixes.

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

Optimization Details

Function	Description
Multi-batch Module Adjustment	Optimized device performance to significantly enhance the speed of multi-batch mo dule adjustment. (Available with the A10s Pro)

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 where the LED Image Booster does not take effect on certain cabinets when the screen is loaded by multiple models of receiving cards.
3. 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.
4. 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.
5. Fixed the issue where the input sources are unstable for HDMI connectors at a resolution of 3840×1152@60Hz.
6. Fixed the compatibility issue between Blackmagic's Teranex Mini–HDMI to 12G-SDI converter and MX30's SDI connector.
7. 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.
8. Fixed the issue where the display exhibits grayscale spikes when the grayscale gradient test pattern is displayed.
9. Fixed the issue where the ARM system would crash abnormally after a power cycle or extended operation.
10. Fixed the issue where certain cabinets display a black image when the number of cabinets in the screen topology exceeds 16.
11. Fixed the issue for MX30 in 10-bit output mode, where the LED display loaded by receiving cards except the A10s Pro exhibits flickering horizontal lines.

Known Issues

Official website
www.novastar.tech

Technical support

support@novastar.tech

Documents / Resources

	**NOVASTAR MX Series LED Display Controller** [pdf] User Manual MX30, MX20, KU20, MX Series LED Display Controller, MX Series, LED Display Controller, Display Controller, Controller

References

- **User Manual**