Notes for NovaLCT-Mars Ver2.8.x

1 LED Display Configuration

1.1 The Sending Board Resolution and the Graphics output resolution must be the same as each other, or the LED display won't work normally. The computer display and the LED display will show black for a while when sending a new resolution of the transmitter cards to the hardware.

1.2 Show on the Scan Board page of the Screen Config window are the settings set by last sending operation. Please double check the receiver card settings before sending them to the hardware.

1.3 LED display control systems connected to the same serial port have the same system configuration file. Save the system configuration file for each serial port that is connected with LED display control systems.

1.4 A transmitter card cannot support real and virtual pixels at the same time.

2 Brightness Adjustment

2.1 Both light sensors connected to the transmitter cards or the function cards can be used for auto brightness adjustment. But to have the light sensors connected to the function cards show on the auto brightness configuration page, they must be correctly set on the function card configuration page first.

2.2 The default period for auto brightness adjustment is 300 seconds. Please refer to the NovaLCT-Mars Serial LED Display Control System User Manual for how to change the period if it is required to do so.

3 Calibration

3.1 Make a copy of the calibration coefficients for the area of which the calibration coefficients are to be adjusted before the adjustment operation.

3.2 Enable calibration before adjusting the calibration coefficients, otherwise the

adjustment results cannot be viewed.

3.3 Although it is rare, but sometimes it does happen that the calibration coefficients cannot be correctly uploaded to the hardware under the Fast Upload mode. In that case, please plug the DVI cable again after turning off the computer and then turn on the computer and re-upload the coefficients. If the coefficients still cannot be uploaded correctly, please switch to the Stable Upload mode for calibration coefficients uploading.

3.4 The operations of calibration adjustment of the selected display area (area A) can be applied to another display area (area B) if the original colors (color before calibration coefficients adjustment) of both areas are similar. If the original colors are not similar, please do not perform the Apply The Effect To Other area operation. Note that area B may include area A. Please refer to 4.8.2.5 Adjust Coefficients in the NovaLCT-Mars Serial LED Display Control System User Manual for more details about calibration coefficients adjustment.

4 Combination Display

4.1 In a combination display, driver chips used in all LED displays must be the same, or the brightness and the current gains of some displays may not be adjusted.

4.2 Only settings of monitoring, brightness and current gain of the displays can be adjusted or changed in the combination display. The combination display cannot change the mapping areas positions and sizes of the displays.

5 Monitor

5.1 Only receiver cards of version E or later support cabinets status checking (humidity, smoke, fans and etc.) and cabinet door status checking. Data package version should also be 3.1.0.0 or later.

6 Function card

6.1 If Emergency Stop operation is executed, auto control of power supply will be disabled until executing the Start All operation. However, manual control is still valid. So, be careful when dealing with function cards.

6.2 In auto control mode, the time standard for the function card to turn on/off the power supplies is the time set on it.

6.3 In the software control mode, NovaLCT-Mars controls the power supplies according to the schedule and with the computer time as the time standard. The connection between NovaLCT-Mars and the function card must be kept all the time.

7 Others

7.1 It is not recommended to hot plug any USB-to –Serial Port cable.

7.2 The computer may assign the USB-to-Serial Port converters connected to it the same serial port ID, which results in some of the converters not able to work. To solve this problem in the case of using one computer to control multiple LED display control systems, check whether IDs for all converters are correctly assigned through Device Manager -> Port (COM and LPT) of the computer.

7.3 If the serial ports used for NovaLCT-Mars to communicate with external devices are occupied by other applications, NovaLCT-Mars will not be able to control the external devices. To solve this problem, terminate those applications and select System -> Reconnect from the NovaLCT-Mars main menu to reset up the connection between NovaLCT-Mars and the external devices.

7.4 To the problem of brightness difference between cabinets when powered on again after powered off.

The parameters affecting cabinet brightness are LED display brightness, current gains of R, G and B(only for cabinets using driver chips supporting current gain), Gamma, brightness of R, G and B, and calibration coefficients.

A. When will this problem appear?

- Settings good for color consistency had not been saved to the hardware before the hardware was powered off.
- Settings of these parameters are not suitable for a new placed receiver card.

B. How to solve this problem?

Adjust settings for the brightness affecting parameters again. If this does not work, then disable calibration. If the display is good after calibration is disabled, the cause

for the brightness inconsistency is that the calibration coefficients are not suitable. Adjust the calibration coefficients of the cabinet of which the brightness is different from that of the others. Send the parameters of the scan boards again after the calibration coefficients adjustment.

8 Software/Hardware Compatibility between different versions

8.1 NovaLCT-Mars V2.8.0

Compatible Software Versions

All released versions earlier than V2.8.0

Corresponding Hardware Program

Data_Mars_E_V5.4.0 and Data_Mars_S_V3.4.0

Compatible Hardware Program Versions

8.2 NovaLCT-Mars V2.6.0

Compatible Software Versions

All released versions earlier than V2.6.0

Corresponding Hardware Program

Data_Mars_E_V5.3.0 and Data_Mars_S_V3.3.0

Compatible Hardware Program Versions

All released versions earlier than Data_Mars_E_V5.3.0 and Data_Mars_S_V3.3.0

8.3 NovaLCT-Mars V2.4.0

Compatible Software Versions

All released versions earlier than V2.4.0

Corresponding Hardware Program

Data_Mars_E_V5.1.2.2 and Data_Mars_S_V3.1.2.2

Compatible Hardware Program Versions

All released versions earlier than Data_Mars_E_V5.1.2.2 and Data_Mars_S_V3.1.2.2

Remarks

For point detecting, please use receiver cards of E version or higher and update the hardware version to the corresponding hardware program.

Notes

For a LED display which uses hardware program of Data_Mars_E_V5.1.2.2 or Data_Mars_S_V3.1.2.2 and has been started by NovaLCT-Mars V2.4.0, it cannot be started by NovaLCT-Mars of version earlier than V2.4.0.

8.4 NovaLCT-Mars V2.2.x

Compatible Software Versions

For V2.2.5: all earlier released versions

For V2.2: earlier versions except those earlier than V1.2.

Corresponding Hardware Program

Data_Mars_S_V3.1.0.0

Compatible Hardware Program Versions

All released versions earlier than Data_Mars_S_V3.1.0.0

Remarks

(1) For system monitoring, use receiver cards of E version or higher.

(2) For the flexible printed circuit (FPC) status checking function, use Data package of version 3.1.0.0

8.5 NovaLCT-Mars V2.0

Compatible Software Versions

All versions between V.1.2 and V2.0

Corresponding Hardware Program

Data_Mars_S_V3.0.0.7

Compatible Hardware Program Versions

All released versions earlier than Data_Mars_S_V3.0.0.7

Remarks

Large scale modification on the content about calibration

8.6 NovaLCT-Mars V1.8

Compatible Software Versions

All versions between V.1.2 and V1.8

Corresponding Hardware Program

Data_Mars_S_V3.0.0.5

Compatible Hardware Program Versions

All released versions earlier than Data_Mars_S_V3.0.0.5

Remarks

Soft Mode and Enhanced Mode for display quality adjustment and Mode A and Mode B for Gamma adjustment are added on the Display Adjustment page.

8.7 NovaLCT-Mars V1.4

Compatible Software Versions

All versions between V1.2 and V1.4

Corresponding Hardware Program

Data_Mars_S_V3.0.0.5

Compatible Hardware Program Versions

All released versions earlier than Data_Mars_S_V3.0.0.5

Remarks

The function of low gray level calibration is added.

8.8 NovaLCT-Mars V1.2

This is the earliest released version of NovaLCT-Mars

Corresponding Hardware Program

Data_Mars_S_V3.0.0.2

Compatible Hardware Program Versions

May not be compatible with the test versions earlier than Data_Mars_S_V3.0.0.2