Software Release Notes

Project Title: LED-CV4

Project Created by: Gary Pritchard
Created: 17 May 2019
Last Modified: 18 May 2021

This document is a cumulative list of bug fixes and feature enhancements for the LED-CV4 product family.
Please see Appendix A at the end of this document for details on how to upgrade the software.

Reporting Bugs

If you find a bug or feel that we could improve the product then please let us know. If you find a bug that affects operation or crashes the unit then could you let us know ASAP!!
email   techSupport@lsccontrol.com.au
phone   +61 3 9702 8000

Obtaining Updates

If you wish to be emailed about **LED-CV4** software updates as they are released, then send an email to the above address and you will be added to the mailing list.

Installation procedure

The LED-CV4 software is updated via RDM. This means it can be updated in-situ after installation without the need to have direct physical access to the unit. The update is done over standard DMX cabling using our HOUSTON X software and an RDM hardware interface.

Hardware Interface Options:
- LSC **Nexus** ethernet DMX node
- Any 3rd party Art-Net interface that supports the **ArtRdm** protocol

Software Required:
- **HOUSTON X**
  houstonx.lsccontrol.com.au

Perform the following steps to do an upgrade:
1. Connect the LED-CV4/s to the RDM interface using standard DMX cabling.
   (N.B. If there are DMX splitters between the RDM interface and the LED-CV4 devices, they MUST be RDM compatible, otherwise the update will fail).
2. Run the HOUSTON X software and check that the hardware interface appears in the Interfaces tab.
3. Wait for 15-60 seconds and the LED-CV4 devices will automatically appear in the LED-CV4 tab.
4. Double click on the ''APP VER' cell of the LED-CV4 device you wish to upgrade.

Interfaces	APS	LEDCV4	ALARMS							
LABEL		DMX ADDR	MODE	FREQ	INP VOLTS	IDENTIFY	APP VER	BOOT VER	RDM ADDRESS	HIDDEN
LSC-CV4	[+]	301	8-bit	1 KHz	24.2V	IS OFF	1.01	1.02	U12::4C73:0A0A1124	Hide

5. A file dialog box will appear. Navigate to the location of the download and select the update file.
6. The update will take 60-300 seconds, depending on the hardware interface used and whether DMX is also being transmitted. A pop-up dialog box shows the status of the upgrade.
7. Once completed, the LED-CV4 will restart.
8. Check that the new software version information is displayed in the 'APP VER' cell of HOUSTON X.
9. If an error occurs due to RDM or other issues, the entire process can be repeated.

Software Release Notes

Release: v1.04   Date: 22-December-2020

Software Released by: Gary Pritchard

Reason for the Release: Bug Fixes
- Timing errors on RDM corrected.
- Break ignored during Discovery responses.

Components:
- LED-CV4_v1.04.bin

Release: v1.03   Date: 30-September-2020

Software Released by: Gary Pritchard

Reason for the Release: Bug Fixes
- Errors crept into the V1.01 release resulting in a number of RDM timing errors occurring.
- Curves were not available via standard RDM controllers.

Components:
- LED-CV4_v1.03.bin

Release: v1.02   Date: 13-August-2020

Software Released by: Gary Pritchard

Reason for the Release: Bug Fixes
- Errors crept into the V1.01 release resulting in the DMX LED not illuminating and the POWER LED no longer flashing when an output overloaded.

Components:
- LED-CV4_v1.02.bin

Software Release Notes

Release: v1.01   Date: 23-July-2020

Software Released by: Gary Pritchard

Reason for the Release: New Features

New Features (only accessible via RDM or HOUSTON X):
- Current Limit per Channel can now be set;
- Curve control added – Each channel can be set to a different curve if desired namely Linear (default), Square Law or Cube Law.
- Resolution can now be changed. Setting the CV4 into 16-bit is now possible
- Frequency Selection – the PWM frequency can now be changed to be 1kHz, 2kHz or 4kHz. Note that in 16-bit mode only 1kHz is possible.

Changes:
- The front panel Address Selection has changed for manual control. Address 991 now sets the first output to 100%, 992 the second, etc. The addresses in the previous version were 996-999.

Components:
- LED-CV4_v1.01.bin

Release: v1.00   Date: 17-May-2019

Software Released by: Gary Pritchard

Reason for the Release: First public release

Components:
- LED-CV4_v1.0.bin   - application

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