

# Software Release Note

RD-002-05



**LSC Electronics Pty. Ltd.**  
**Research and Development**

## Project Title: MDR-DIN

Project Created by: Gary Pritchard  
Created: 18 December 2018  
Last Modified: 25 January 2023

This document is a cumulative list of bug fixes and feature enhancements for the MDR-DIN 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@lsclighting.com.au](mailto:techSupport@lsclighting.com.au)  
phone +61 3 9702 8000

## Obtaining Updates

If you wish to be emailed about **MDR-DIN** 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 MDR-DIN 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 3<sup>rd</sup> party Art-Net interface that supports the **ArtRdm** protocol

Software Required:

- **HOUSTON X**  
[houstonx.lsccontrol.com.au](http://houstonx.lsccontrol.com.au)

Perform the following steps to do an upgrade:

1. Connect the MDR-DIN/s to the RDM interface using standard DMX cabling.  
(N.B. If there are DMX splitters between the RDM interface and the MDR-DIN 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 MDR-DIN devices will automatically appear in the MDR-DIN tab.
4. Double click on the "APP VER" cell of the MDR-DIN device you wish to upgrade.

Interfaces	MantraMini	MDR							
LABEL	PORT 1	PORT 2	PORT 3	PORT 4	IDENTIFY	APP VER	BOOT VER	RDM ADDRESS	HIDDEN
MDRD-B04F	RDM	RDM	RDM	RDM	IS OFF	1.01	1.00	U200::4C73:02022738	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 MDR-DIN 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.

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## **Release: v1.05      Date: 25-Jan-2023**

Software Released by:      Gary Pritchard

### **Reason for the Release:**

Bug Fixes

### **New Features:**

- None

### **Bug Fixes:**

- Long RDM replies could be corrupted. This could also be random depending on the RDM traffic prior to the long reply.

### **Known Problems:**

- None.

### **Components:**

- MDR-DIN\_v1.05.bin - application

## **Release: v1.04      Date: 05-Jul-2022**

Software Released by:      Gary Pritchard

### **Reason for the Release:**

Bug Fixes

### **New Features:**

- None

### **Bug Fixes:**

- If the "RDM Enable" switch for output 1 was selected to DMX Only then RDM discovery could fail on the other outputs.

### **Known Problems:**

- None.

### **Components:**

- MDR-DIN\_v1.04 - application

## **Release: v1.03      Date: 21-Jun-2021**

Software Released by:      Gary Pritchard

### **Reason for the Release:**

Bug Fixes

### **New Features:**

- None

### **Bug Fixes:**

- Under certain circumstances, RDM discovery of devices connected to slave ports could fail. This was due to turn around times cropping the replies. MDRD now truncates a preamble byte on a discovery reply as allowed per the RDM standard. This will limit the nesting of MDRDs to seven deep at best although nesting this deep is, in any case, not recommended practice.

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- Corruption on a slave output by one of more responders could cause the MDRD to hang until it was power cycled.

## **Known Problems:**

- None.

## **Components:**

- MDR-DIN\_v1.03 - application

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## **Release: v1.02      Date: 18-Jan-2021**

Software Released by:      Gary Pritchard

### **Reason for the Release:**

Bug Fixes

### **New Features:**

- None

### **Bug Fixes:**

- The Watchdog timer was inactive.
- Under certain circumstances, RDM discovery of devices connected to slave ports could fail.
- RDM timing was not correct in all cases.
- The turnaround time of the device meant that sometimes messages to slave ports were cropped resulting in them not responding.

### **Known Problems:**

- None.

### **Components:**

- MDR-DIN\_v1.02 - application

## **Release: v1.01      Date: 24-Jan-2019**

Software Released by:      Gary Pritchard

### **Reason for the Release:**

Bug Fixes

### **New Features:**

- None

### **Bug Fixes:**

- Controller reported an error during discovery on Dmxter.
- Some RDM message replies were blocked.

### **Known Problems:**

- None.

### **Components:**

- MDR-DIN\_v1.01 - application

## **Release: v1.00      Date: 18-Dec-2018**

Software Released by:      Gary Pritchard

**Reason for the Release:      First public release**

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