

# Light-O-Rama S5 / S6

## Transitioning from an iDMX-1000

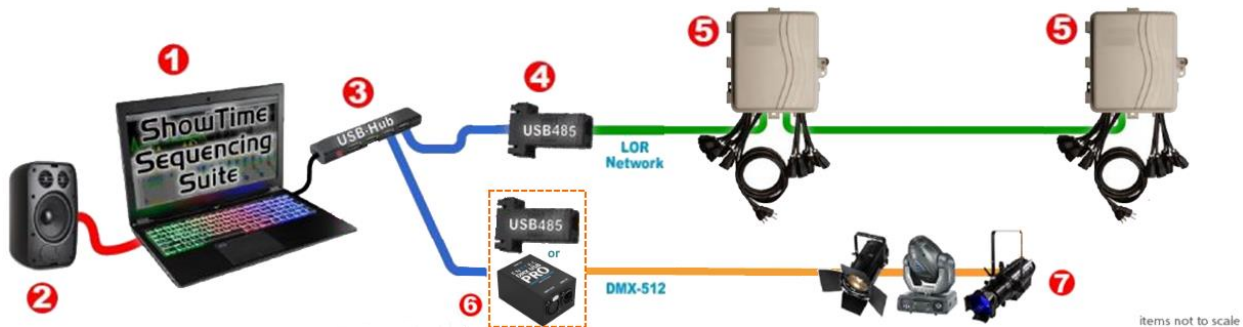
Version 1.00  
October 2022

There are several ways to control DMX fixtures from Light-O-Rama software. This document assumes you currently have an iDMX-1000 controlling your DMX fixtures but are moving to a USB DMX adapter such as an Enttec DMX USB Pro.

Going from a setup like this:



To one like this (requires an Advanced or Pro level software license):



### Legend

1. Computer running Light-O-Rama Software Suite
2. Speakers
3. Third party USB Hub (bottom only)
4. LOR USB Adapter
5. LOR Controllers
6. iDMX-1000 (top); LOR USB Adapter or Enttec DMX USB Pro (bottom)
7. DMX fixtures

## Choosing a DMX Adapter

Choose the adapter that will be used to control the DMX network. The adapter will provide one DMX-512 universe. Choices include:

<p>LOR USB Adapter</p> 	<p>Purchase Device:  <a href="https://store.lightorama.com/collections/computer-adapters-and-repeaters/products/usbrs485hs">https://store.lightorama.com/collections/computer-adapters-and-repeaters/products/usbrs485hs</a></p> <p>Purchase adapter cable for 3-pin DMX:  <a href="https://store.lightorama.com/collections/computer-adapters-and-repeaters/products/rjtoxlr3fe">https://store.lightorama.com/collections/computer-adapters-and-repeaters/products/rjtoxlr3fe</a></p>	<ul style="list-style-type: none"> <li>• Least expensive option</li> <li>• DMX timing is generated on the PC (less stable)</li> </ul>
<p>ENTTEC Open DMX USB</p> 	<p>Purchase Device:  <a href="https://www.amazon.com/Open-DMX-USB-Interface-Controller/dp/B0009RY664">https://www.amazon.com/Open-DMX-USB-Interface-Controller/dp/B0009RY664</a></p> <p>Purchase adapter cable for 3-pin DMX:          One option of many:  <a href="https://www.amazon.com/SinLoon-Turnaround-Connection-Spotlight-Output/dp/B073WW6RFS/">https://www.amazon.com/SinLoon-Turnaround-Connection-Spotlight-Output/dp/B073WW6RFS/</a></p>	<ul style="list-style-type: none"> <li>• Several compatibles are available on Amazon that are the USB adapter and adapter cable all in one</li> <li>• DMX timing is generated on the PC (less stable)</li> </ul>
<p>ENTTEC DMX USB PRO</p> 	<p>Purchase Device:  <a href="https://www.amazon.com/dp/B077VW1DJH/">https://www.amazon.com/dp/B077VW1DJH/</a></p> <p>Purchase adapter cable for 3-pin DMX:          One option of many:  <a href="https://www.amazon.com/SinLoon-Turnaround-Connection-Spotlight-Output/dp/B073WW6RFS/">https://www.amazon.com/SinLoon-Turnaround-Connection-Spotlight-Output/dp/B073WW6RFS/</a></p>	<ul style="list-style-type: none"> <li>• DMX timing is generated on the adapter (very stable)</li> <li>• Recommended for professional shows</li> </ul>

## Changes to Physical Wiring

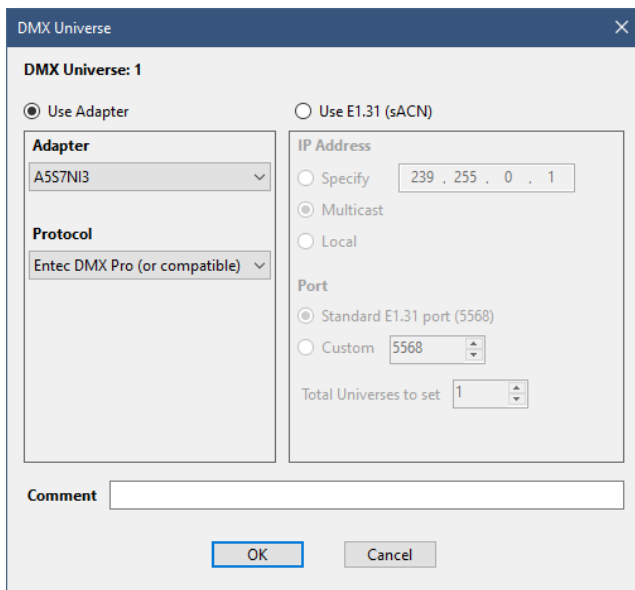
- Remove the iDMX-1000 from the LOR network:
  - Unplug the DMX cable from the DMX OUT port on the iDMX-1000
  - Unplug the Cat-5 cables attached to the front of the iDMX-1000 (these are part of the LOR network)
- Connect the new DMX USB adapter (selected above) to the computer. Make sure Windows finds the driver after plugging it in (FTDI driver). It will also show up as a new COM port in Device Manager. If Windows does not load the driver, it can be downloaded here:  
[https://www.ftdichip.com/Drivers/CDM/CDM21228\\_Setup.zip](https://www.ftdichip.com/Drivers/CDM/CDM21228_Setup.zip)
- Plug the DMX adapter cable into the DMX USB adapter
- Plug the DMX cable that was connected to the iDMX-1000 (XLR male) into the new DMX adapter cable (XLR female)

## Changes to Network Preferences

Add the new DMX adapter to Network Preferences.

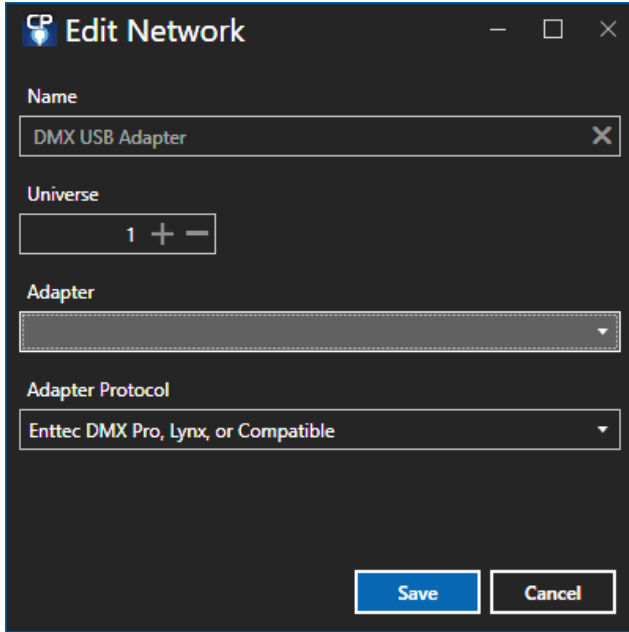
S5

In Network Preferences, LOR adapters for LOR networks are set up on the LOR tab. Adapters used for DMX are set up on the DMX tab. On the DMX tab, click on the row for universe 1. This will open a dialog window as shown below. Click the “Use Adapter” radio button. Select your adapter from the drop-down box. If you have multiple adapters plugged into your system, it can be difficult to tell which adapter is the correct one. To make this easier, we recommend removing all USB adapters except the one you are currently setting up before opening Network Preferences. Once setup is complete, you can plug in the other adapters.



The screenshot shows a dialog box titled "DMX Universe" with a close button (X) in the top right corner. The main title is "DMX Universe: 1". There are two radio buttons: "Use Adapter" (selected) and "Use E1.31 (sACN)". Under "Use Adapter", there is a dropdown menu for "Adapter" showing "A557N13" and a dropdown for "Protocol" showing "Entec DMX Pro (or compatible)". Under "Use E1.31 (sACN)", there is an "IP Address" section with "Specify" (239 . 255 . 0 . 1) and "Multicast" (selected) radio buttons, and a "Local" radio button. There is also a "Port" section with "Standard E1.31 port (5568)" (selected) and "Custom" (5568) radio buttons, and a "Total Universes to set" dropdown showing "1". At the bottom, there is a "Comment" text box and "OK" and "Cancel" buttons.

Open the Control Panel and go to the Networks section. Click the Add button in the upper right. Click “DMX USB Adapter” in the popup window. In the subsequent window, select your adapter from the drop-down box and the applicable adaptor protocol.



### Changes to Your Preview

Using the iDMX-1000, the channels for your DMX fixtures were set as LOR circuits. For the new configuration, we need to move the fixture channels to DMX. Whether this can all be done in one step or several depends on how the iDMX-1000 was configured.

The iDMX-1000 supports two addressing modes:

Mode	16 DMX channels per unit id	All DMX channels on a single unit id
Mode is determined by unit id	Unit ID ends with 0 (e.g. 10, 20, 30, ...E0)	Unit ID ends in a digit other than 0 (e.g. 01, 02, 03, etc.)
Total # of unit ids	16 If the starting unit id is 10, then it would use 10 – 1F.	1
# of DMX channels supported	256	512

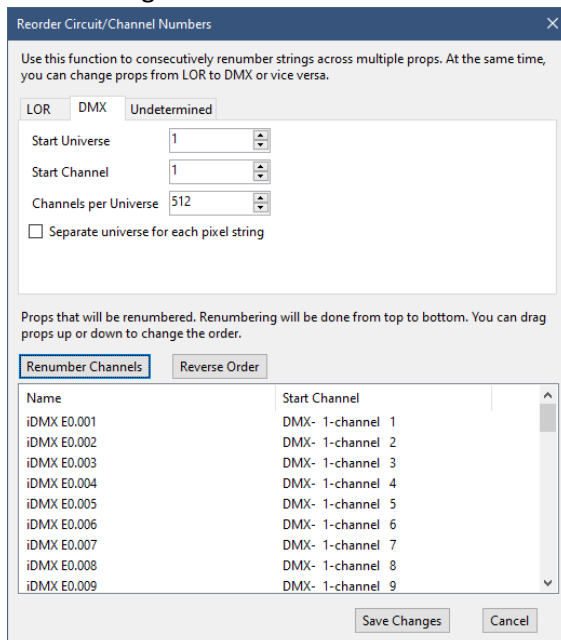
As shipped from the factory, the iDMX-1000 is set to unit id E0. From the table above, this means it is in “16 DMX channels per unit id” mode and utilizes unit ids E0 through EF to control DMX channels 1-256. A complete

mapping is in the back of the iDMX-1000 manual; however, the following table shows how the first 64 channels are mapped:

Unit Id	Circuit															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
E2	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
E3	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64

If the iDMX-1000 was configured with unit id E0 (factory default)

- Open your preview in Preview Design
- Go to the Channel Conflicts & Bulk Changes tab
- Change the “Show” drop-down to “All Props”
- To select only items with unit ids between E0 and EF, set the Channel filter to “unit E”
- Click the “Select All” check box
- From the Change menu, select Set DMX Universe
- Enter the universe number you set in Network Preferences above (probably 1).
- If you have more than 16 fixture channels, the icon on the tab will change to a yellow warning as you will now have channel conflicts. To clear the warnings:
  - Clear the Channel filter by clicking the “X” to the right of the text box.
  - Change the “Show” drop-down to “Props with channel conflicts”
  - If your fixture channel numbers are contiguous (no breaks), then click “Select All”, then select “Reorder Circuit/Channel Numbers”. In the pop-up window, set the “Channels per Universe” to 512, then click “Renumber Channels”. If everything in the bottom list looks correct, then click “Save Changes”.



- If your fixture channel numbers are not contiguous (have breaks), then you will need to fix entries one at a time. Click on a row that needs to be fixed, change the Start Circuit field in the box to the right, then click “Save Update”. Repeat for each fixture channel that needs to be adjusted until the yellow warning icon disappears.

If the iDMX-1000 was configured with unit id 01 (all fixture channels on a single unit id)

- Open your preview in Preview Design
- Go to the Channel Conflicts & Bulk Changes tab
- Change the “Show” drop-down to “All Props”
- To select only items with unit id 01, set the Channel filter to “unit 01”
- Click the “Select All” check box
- From the Change menu, select Set DMX Universe
- Enter the universe number you set in Network Preferences above (probably 1).

Save the preview. Your DMX fixtures should now operate with the new DMX USB Adapter. No changes to your sequences should be required.