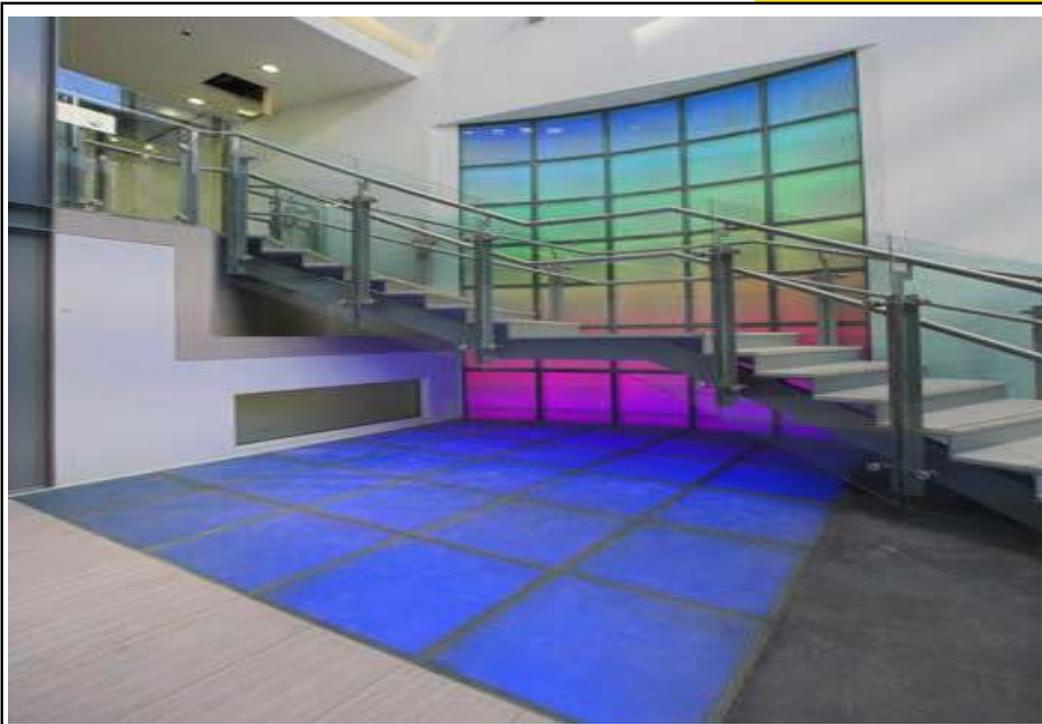


Interfacing with DMX512 Information



- With Helvar 920
- DMX Input to S-DIM
- Multiple S-DIM patches
- DMX Output
- Last Takes Precedence

Overview

DMX512 is an internationally accepted standard of digital communication for lighting products, such as control desks, dimmer packs, moving lights and colour scrollers used within the entertainment industry

As the name implies, there are 512 control channels available on a single network and the protocol runs over a RS485 bus at 250K bits / second (Baud rate), thereby providing a very quick protocol for use in such applications as theatre, stage or concert lighting.

With the emergence of "architainment" and the cross-over of technologies between the two traditionally separate architectural and entertainment sectors, it has become more and more common to see DMX employed as an input to the architectural lighting system with direct control then available to the lighting technician from the control desk.

At a lower level, simple fixtures controlled by DMX, such as LED color changers are now being employed more for architectural effects and hence need to be controlled from the main lighting system.

Considerations

The 902 Imagine Lighting Router has a DMX connection that is user configurable by Helvar Designer Software to operate as an input or output connection.

When used as an input, the user can allow a DMX control desk to be "patched" to any of the available SDIM channels that are connected to the same router. This patch can be multiple targets, so in the event of certain DMX address's being used for other fixtures, any overlap can be avoided. The maximum number of "patches" is 252 address's (the same as those available to SDIM), although with this 252, any of the available DMX range can be used.

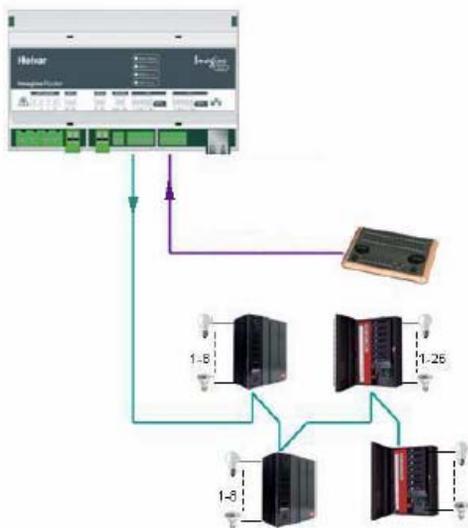
When used in conjunction with lighting control panels, the principle of last takes precedence is employed, such that the DMX or control panel will "take control" depending on the last command sent to the SDIM devices. This prevents one system or the other "locking" the output to a high level and stopping any subsequent control as in the case of highest takes precedence.

If the connection is configured as a DMX output, it allows the user to specify a number of addresses that can then be programmed to provide an output level to the devices that are subsequently attached, such as LED drivers. Again any of the DMX range of addresses may be specified up to a maximum of 252.

Control Flow

DMX IN

This allows control of SDIM channels from a lighting desk or other DMX control device.



DMX OUT

This allows control of DMX devices as part of the system scene.



Contact your local Helvar representative or visit us online at www.helvar.com
 Due to a policy of continuous improvement, Helvar reserve the right to alter specifications without notice at any time.