dmXLAN node1s

single port DMX Ethernet node

Users manual

ELC

Versions:
The dmXLAN node1s is available with a male or female XLR (5-pin). Both types can work as input or output.

Connections:

Network 10/100 MBit Ethernet (on Neutrik Ethercon)
The network connection uses a standard UTP network connection. This connection should also have Power over Ethernet. Both versions, data-pairs/spare-pairs, of PoE are supported. PoE switches are available from ELC (switch5 or switch8LS-POE) or from third party brands like lynksys / netgear / hp / and others. As a stand alone PoE source, the linksys WAP12POE is a cheap and easy alternative.

DMX port (XLR5 Male or Female)

Pin	*Description*
1	Ground/Screen
2	Data -
3	Data +
4	-
5	-

The DMX port is bidirectional(via programmable setup), has an internal terminator resistor and is RDM prepared.

Mounting

There is a keyhole and a normal hole on the back of the unit for mounting.

This product may only be used for controlling dimmers and moving lights. Using the product out of these specifications will remove all responsibility from the supplier

Operation

The dmXLAN node1s is operated by configuring the unit via the dmXLAN software. The software and manual can be downloaded from the website at www.elclighting.com

There is just a single button on the unit (in between the to connections). This button can be used in 3 ways.

- Press and hold the button at power on (plugging in the PoE source)
  → this will force the device into boot mode / firmware upgrade mode
- Press the button (short)
  → this will get the node1s selected in the active dmXLAN software (as from dmXLAN software version 3.1.6)
- Press and hold the button for about 10 seconds.
  → This will program the device in the default settings.
  Male XLR version: Input universe 0.0
  Female XLR version: Output universe 0.0

From the dmXLAN software you can program the DMX port as disabled, input or output

DMX port as output

When a port is set up as a DMX output, then you can select the working mode of that port. Modes are:

- disabled → the DMX output is disabled
- outzero → the DMX sends out a DMX test signal with all channels at 0%
- single → the output sends out the DMX values of the selected (primary) ArtNet universe. The DMX output is enabled the first time it detects the DMX universe on the network (or internal DMX inputs). If the universe on the network fails, the DMX output will go into DMX hold.
- dual HTP → like single, but merge two DMX universes (primary and secondary) in highest take precedence.
- dual LTP → like dual LTP, like dual HTP but in latest takes precedence (on a channel by channel basis)

DMX port as input

When a port is set up as a DMX input, it can be operation in the following modes.

- disabled → the DMX input does nothing
- normal → any valid DMX is sent onto the network (and internal use) using the selected universe (ArtNet)
- backup → the DMX input will not send data if the selected universe is present on the network. If the selected universe is not present on the network for several seconds and the input has valid DMX, then it will send DMX data. If another sender starts sending the same universe, the input will go back input backup mode.

General Information

CE – Product

The dmXLAN node1s permits to the CE requirements set up by the European Community. This can be recognized by this label on the outside of the product.

CE

Technical Specifications:

Power:	Power over Ethernet
Dimensions	75mm x 83mm x 45mm
Weight	300g