Up-Lynx User Guide

Up-Lynx is a wall-mounted panel DMX512 to Ethernet converter. It converts two universes of DMX512 into Art-Net Ethernet data.

Key Features include:

- DMX routing by Ethernet
- Connect up to 256 DMX Universes to one network
- Two DMX512-A compatible inputs
- 10BaseT Ethernet Port
- RDM (Remote Device Management Draft V1.0)
- Power indicator
- Data activity indicators
- Art-Net Compatible
- UK & US panels available

Specification:

Input Voltage:	9-48VDC
Power:	2W
Current:	35mA @ 48VDC
Dimensions: (W x H x D)	UK: 146 x 85 x 39mm, US: 162 x 114 x 41mm
IP:	Indoor use only
Listings:	CE, FCC
DMX Output Connections:	XLR5
Network Connections:	XLR-RJ45
Power Connection:	XLR4
Isolation Ethernet Port:	Total Isolation
Isolation Power Input:	Total Isolation
Isolation DMX A/B:	Common Ground

Power Supply Options: (order separately)

PSU Option	Number of Units
Power-Hub 4	3 (requires 1 x PSU-9-1.5-XLR4)
Tour-Lynx	6 or 12 (requires 1 PSU for each block of 6)
Insta-Lynx	6 or 12 (requires 1 PSU for each block of 6)
PSU-24-2-WM2	PSU units for above

- Up-Lynx is mounted in a standard wall panel.
- The Ethernet connection is made via a latching Neutrik XLR-RJ45 connector. This connector also accepts standard RJ45's.
- The power input can be either from the Ethernet cable using the IEEE 802.3 standard, or from an external power supply.
- The front panel provides two DMX512-A inputs. Each input is designed to support the planned Remote Device Management Protocol (RDM).
- Configuration is simplicity itself. The three rotary dials are used to select the required DMX512 universe.

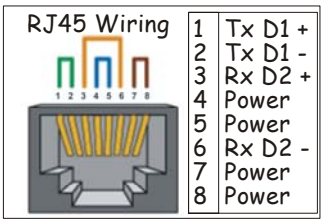
Communication:

Ethernet Interface:

Connect to 10BaseT Ethernet Hub using Cat5 or better cable

Wiring Detail:

The following guide should be used if custom Cat5 cables are being used



DMX Wiring:

The DMX512 is connected to the 5 pin XLR on the front panel. Cable connection is as follows:

Pin 1	Protective ground	Connect to cable screen
Pin 2	Data complement	Connect to twisted pair wire
Pin 3	Data true	Connect to twisted pair wire
Pin 4	Not used	
Pin 5	Not used	

Device Operation:

Switches:

Sub-Net: Set the product address (usually zero)
Universe Select A/B: DMX512 universe number for A or B

NB: If all the indicators flash when a switch setting has been changed, the product will have been locked by the network administration software.

Indicators:

POW: On when unit is powered. Flashing if hardware fault
DMX A/B: On when data is transmitted
COM: On when network data is active

Device Configuration:

Jumper Settings:

In normal operation, no configuration is necessary. In the event of a Network IP address clash, four option jumpers are provided:

Jumper	Option
JP4	Connect to switch to the alternate 10.x.x.x network
JP6	Connect to invert the low byte of the IP address
JP7	Connect and cycle power to defeat all custom settings
JP5	Connect to disable RDM

Wheel Settings:

As the Up-Lynx can be programmed to operate on non-standard IP addresses, it is sometimes useful to override these settings.

To do this, set all of the front panel wheels to the 'F' setting. Cycle the power. The module will then respond on the standard Art-Net addresses as defined by JP4 & JP6 above.

Power:

Power Requirements:

15VDC to 48VDC @ 200mW (RJ45)
9VDC to 48VDC @ 200mW (XLR)

Connection Options:

- Powered Hub: Connect to IEEE802.3 compliant 10BaseT Hub. This will provide device power via the Ethernet connector
- Independent Power: Connect DC power as specified above to the 2 pin Jaguar Connector located near the RJ45

The Art-Net Range:

- Down-Lynx – A wall-mounted panel Ethernet to DMX512 converter. It converts Art-Net Ethernet data into two universes of DMX512. (Available in UK or US formats)
- Up-Lynx – A wall-mounted panel DMX512 to Ethernet converter. It converts two universes of DMX512 into Art-Net Ethernet data. (Available in UK or US formats)
- Net-Lynx O/P – A desktop Ethernet to DMX512 converter. It converts Art-Net Ethernet data into two universes of DMX512
- Net-Lynx I/P – A desktop DMX512 to Ethernet converter. It converts two universes of DMX512 into Art-Net Ethernet data
- Ether-Lynx – A rack mounted Ethernet to DMX512 converter. It provides the gateway for four DMX512 outputs and two DMX512 inputs over Art-Net
- Tour-Lynx – A rack-mounted (2RU) Mid-Span Power Inserter for 10BaseT Ethernet
- Insta-Lynx – A rack-mounted (1RU) Mid-Span Power Inserter for 10BaseT Ethernet
- Power-Hub 4 – A four port 'Power over Ethernet' hub
- Panel-Power 15 – A wall-mounted panel PSU for Down/Up-Lynx
- Rock Solid Ethernet Book – A guide to the world of Ethernet Technology
- DMX-Workshop – A free windows application that allows the user complete control over an Art-Net network. Tools include:
    - Data Monitor form
    - Dynamic and Memory DMX512 transmit functions
    - Scope, Max/Min, analysis functions
    - Firmware upload to Art-Net and RDM devices
    - RDM (Remote Device Management Draft V1.0)
    - Network configuration including routing presets
    - Download: http://www.artisticlicence.com/dwnart.htm

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