DMXPEN *Node01*

Design your show, record and bring with you
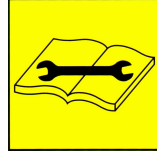

cat.no. dmxpenNode01R1-UK-2012

Manual / UK

INDEX

Thanks to buy this DMXPEN series products.
A correct use of this product, will ensure a correct functionality, a long life and at the same time will avoid product failure.

Please read this manual carefully and be sure to understand the information provide to ensure a safe and reliable application, to learn a suitable knowledge of the product and his necessary precaution before using it.

1. This manual describes the DMXPEN Node01 operating functions. The user must operate the product according to the performance specifications described in the operation manuals.

2. While every effort has been made to ensure that the information on this manual is accurate and complete, we would appreciate any errors or omissions submitted to our attention.

3. Maintenance, inspection, and replacement of parts must be performed only by authorized personnel.

4. We reserve the right to change the specifications of the hardware and software described in this manuals at any time and without prior notice.

5. Do not use DMXPEN Node01 with wet finger

6. After the package opening, please make this check:

   • The received product correspond with the ordered one
   • No part are missing on the received product.
   • The product is not damaged.
   • Contact immediately a DMXPen distributor in case of fault.

DESCRIPTION

DMXPen Node01 device has the following features:

– ArtNet - DMX Conversion
– DMX - ArtNet Conversion
– ArtNet - MIDI Conversion
– MIDI - ArtNet Conversion
– DMX - MIDI Conversion
– MIDI - DMX Conversion

Briefly the DMXPen products mission is record and carry easily: *"Design your show, record and bring with you"*.

Why recording? The first goal of a professional light programmer is to select a light desk and learn to use it in the best way, because this means freedom of expression and productivity.

The DMXPen products range improve this concept taking care of recording what the light programmer realize whit his preferred equipment.

Why carry? Often the light programmer presence is not necessary during the show playback, so he can realize the show and record it so the user has only the duty to activate his playback (i.e. fair booth, shop, club, etc.)
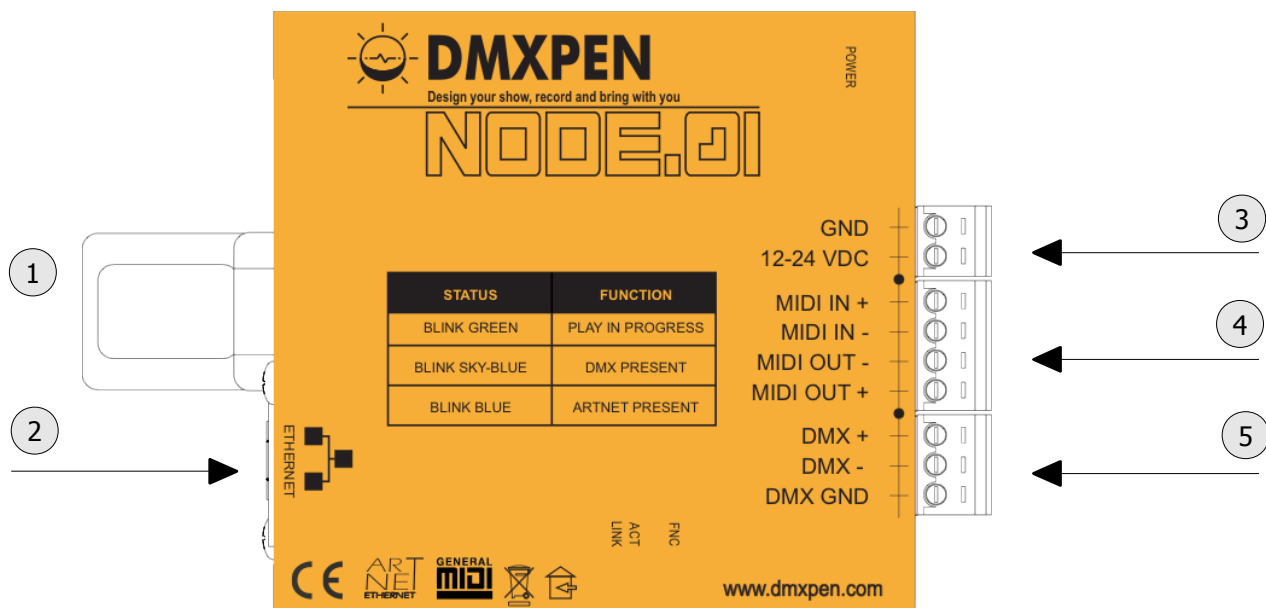
Moreover doing this with a normal light desk, mean carry heavy or expensive equipment that usually are not so familiar to the users (i.e. barman, custodian, etc.).

This is another issue improved from the DMXPen products because contains only the show engine with a simple user interface at a very low cost.

SET UP/CONNECTION

This DMXPen series offer a compact solution products provided also with a DIN Rail mount accessory

Note: the device do not has a main ON/OFF switch and is necessary remove power supply to make maintenance.

Note Number	Description	Device Connector	Wiring Connector
1	DIN Rail mount accessory	-	-
2	Ethernet Port	RJ45 Female	RJ45 Male
3	Power Supply	Phoenix 1803277	Phoenix 1803578
4	MIDI Port (IN/OUT)	Phoenix 1803293	Phoenix 1803594
5	DMX512/A Port (IN/OUT)	Phoenix 1803280	Phoenix 1803581

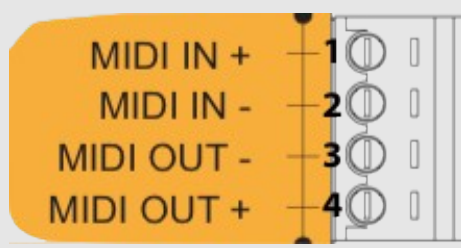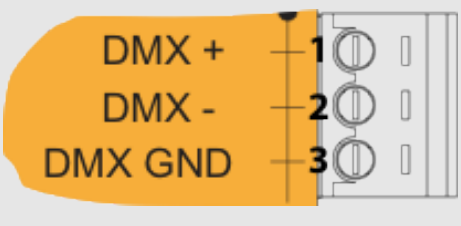| Technical Specification	
Dimension (L x W x H)	77 x 82 x 33 mm (77 x 94 x 46 mm with DIN Rail mount accessory)
Weight	250 gr.
Material / finishing	Iron / Fire Painted
Degree Protection	
Operating Relative Humidity : from 30% to 85% without condensation	Operating Relative Humidity : from 30% to 85% without condensation
Operating Temperature	-5°C + 50°C
DMX	DMX512/A Input/Output Data (half duplex)
Power Supply	12-24 VDC – 500 mA
MIDI	- 1 MIDI IN port - 1 MIDI OUT port
Ethernet	- IEEE 802.3 10BaseT Ethernet interface
Power supply	- 12-24 VDC - 200-500 mA

Power Supply

Pin	Description
1	GND
2	12-24VDC

DMX IN/OUT

Pin	Description
1	DMX+
2	DMX-
3	GND

MIDI IN/OUT

Pin	Description
1	MIDI IN+ (Anode)
2	MIDI IN- (Kathod)
3	MIDI OUT- (Signal)
4	MIDI OUT+ (+5V with 220ohm)

DEVICE CONFIGURATION

DMXPen Node01 is provided with the standard DMXPen engine that allow remote control via ethernet port using PenSuite software tools (PenSuite is a free software tools available on www.dmxpen.com web site in both PC and MAC OS version).

ArtNet - DMX512 Conversion

To activate this function run PenSuite and configure the following items:

– IP Adr
– BroadCast Adr
– NetMask
– ArtNet Port
– ArtNet Universe
– Data Direction as *ArtNet - DMX*

On correct setup, ArtNet frames received through ethernet port and addressed to the configured universe, will be sent on the DMX OUT Port.

DMX512 - ArtNet Conversion

To activate this function run PenSuite and configure the following items:

– IP Adr
– BroadCast Adr
– NetMask
– ArtNet Port
– ArtNet Universe
– Data Direction as *DMX - ArtNet*

On correct setup, DMX frames received through DMX IN port, will be sent on ethernet port as ArtNet frame to the broadcast address configured.

MIDI - ArtNet Conversion

On device configured as DMX - ArtNet, each MIDI Note ON command received will force the indicated channel to 100% and Note Off to 0% causing also the ArtNet frame transmission on the ethernet port.

In example if the device receive a MIDI Note ON 1, Ch1 will be forced 100% and forced to 0% on MIDI Note Off 1 command reception. DMXPen stores the last channel value.

ArtNet - MIDI Conversion

On device configured as ArtNet - DMX, received ArtNet frames containing 0% to 100% transitions on Ch1-Ch127, will cause MIDI Note ON 1-127 transmission on MIDI OUT port.

Transitions from 0 to 100% of Ch128-Ch255 will cause MIDI Program Change 1-127 transmission on MIDI OUT port.

MIDI - DMX Conversion

On device configured as ArtNet - DMX, each MIDI Note ON command received will force the indicated channel to 100% and Note Off to 0% causing also the DMX frame

transmission on the DMX OUT port.

In example if the device receive a MIDI Note ON 1, Ch1 will be forced 100% and forced to 0% on MIDI Note Off 1 command reception. DMXPen stores the last channel value.

DMX - MIDI Conversion

On device configured as DMX - ArtNet, received DMX frames on DMX IN port containing 0% to 100% transitions on Ch1-Ch127, will cause MIDI Note ON 1-127 transmission on MIDI OUT port.

Transitions from 0 to 100% of Ch128-Ch255 will cause MIDI Program Change 1-127 transmission on MIDI OUT port.

WARRANTY

12 month

(according to D.L. n.24 2 february2002, directive 1999/44/CE of European Parliament)

MAINTENANCE / CLEANING

No special maintenance operation are required for DMXPEN Node01

Anyway remember to unplug the device from the power supply during maintenance and cleaning operation.

Moreover we suggest to make a backup copy of the show file stored on the microSD card using a PC connected or other card reader device.

Use only dry cleaning cloth to clean DMXPen ControlBOX. Do not use cleaning solvent or washing powder.

www.dmxpen.com

DMXPEN

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ARTNET

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