



DMXPEN

ReCOIN 232

Design your show, record and bring with you



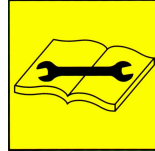
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Manual / UK

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INTRODUCTION



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.

WARNINGS

1. This manual describes the DMXPEN Rec01N 232 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 Rec01N 232 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 Rec01N 232 device has the following features:

- DMX512 Signal Recording and Playback
- ArtNet Signal Recording and Playback
- ArtNet - DMX Conversion
- DMX - ArtNet Conversion
- Remote control via MIDI interface
- Remote control via Ethernet interface
- Remote control via RS232 interface

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.).

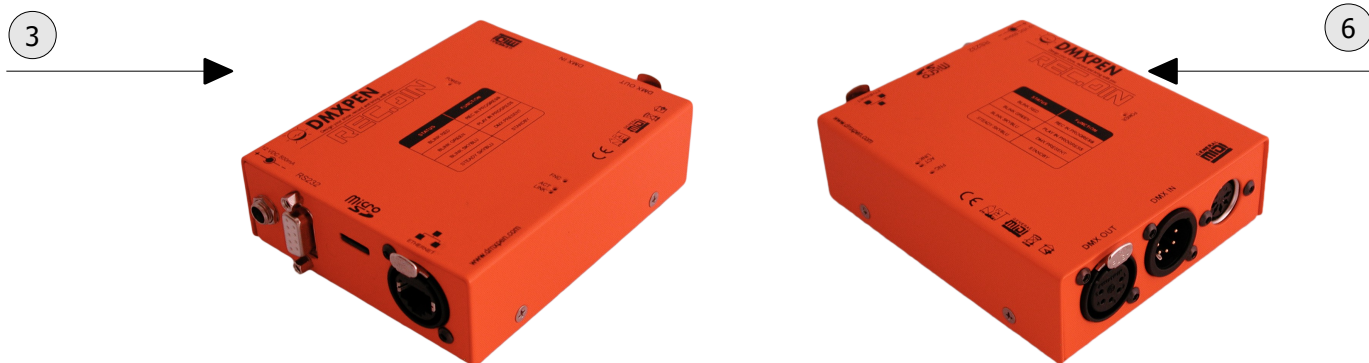
This is another issue improved from the DMXPen products because contains only the show engine with a simple user interface at a very low cost.

SET UP/CONNECTION

Be sure to have the microSD card inserted on the socket (the product is supplied with the microSD card inserted on the socket).

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	Power Supply Input	Jack Socket DC 2.0 (Switchcraft 722A)	Jack Plug DC 2.0 (Switchcraft S760K)
2	RS232 Port	DSUB 9 Pole Female	DSUB 9 Pole Male
3	Ethernet Port	RJ45 Female	RJ45 Male
4	MIDI (IN/OUT) Port	DIN 5 Pole Female	DIN 5 Pole Male
5	DMX512/A Input	XLR 5 Pole Neutrik Male	XLR 5 Pole Female
6	DMX512/A Output	XLR 5 Pole Neutrik Female	XLR 5 Pole Male



Technical Specification	
Dimension (L x W x H)	92 x 113 x 33 mm
Weight	350 gr.
Material / finishing	Iron / Fire Painted
Degree Protection	IP 30
Operating Relative Humidity : from 30% to 85% without condensation	
Operating Temperature	-5°C + 50°C
DMX IN	DMX512/A Input Data
DMX OUT	DMX512/A Output Data
Power Supply	12-24 VDC – 500 mA
RS232	- 1 full duplex channel - 500 Mbps max. communication speed
MIDI	- 1 MIDI IN port - 1 MIDI OUT port

MicroSD card	- 1 MicroSD card socket - FAT16 file system
Ethernet	- IEEE 802.3 10BaseT Ethernet interface
Power supply	- 12-24 VDC - 200-500 mA
standard reference	EN 55022, EN 61000-4-2, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11, EMC 89/336/CEE, BT 73/23/CEE

PIN ASSIGNMENT

Power Supply



Pin	Description
1	GND
2	12-24VDC

MIDI – DIN 5 Pole Female



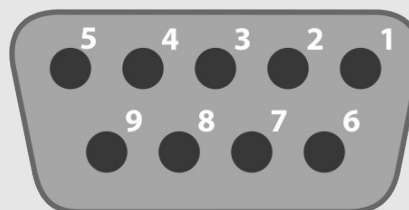
Pin	Description
4	MIDI IN+ (Anode)
5	MIDI IN- (Kathod)
1	MIDI OUT+ (+5V with 220ohm)
3	MIDI OUT- (Signal)

DMX IN – XLR 5 Pole Male



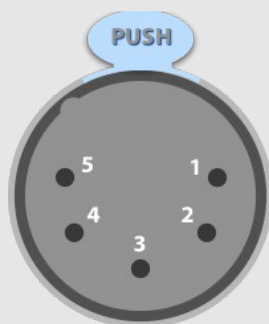
Pin	Description
1	GND
2	DMX-
3	DMX+

RS232 – SUBD 9 Pole Female



Pin	Description
1	
2	TX
3	RX
4	
5	GND
6	
7	
8	
9	

DMX OUT – XLR 5 Pole Female



Pin	Description
1	GND
2	DMX-
3	DMX+

DEVICE CONFIGURATION

DMXPen Rec01N 232 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 the device micorSD card or on www.dmxpen.com web site in both PC and MAC OS version).

Remote Control via Ethernet Port (PenSuite)

As indicate on the previous paragraph, connecting DMXPen to the ethernet port and using the PenSuite software tools (PenSuite is a free software tools available on the device micorSD card or on www.dmxpen.com web site in both PC and MAC OS version) this functions will be available:

- Start show playback
- Start show recording
- Data direction selections
- ArtNet signal transmission
- ArtNet signal receptions

Remote Control via MIDI Port

<i>Start show playback</i>	To start a show playback using a MIDI device, it's enough to send a "MIDI Program Change" command using the show number as parameter. In example MIDI Program Change 1, will start show 1 playback.
<i>ArtNet – MIDI Conversion</i>	Il passaggio da 0 al 100% dei Ch1-Ch127 generano un evento MIDI Note ON per le note 1-127. Il passaggio da 0 al 100% dei Ch128-Ch255 generano un evento MIDI Program Change 1-127.
<i>DMX – MIDI Conversion</i>	Il passaggio da 0 al 100% dei Ch1-Ch127 generano un evento MIDI Note ON per le note 1-127. Il passaggio da 0 al 100% dei Ch128-Ch255 generano un evento MIDI Program Change 1-127.

Remote Control via RS232 Port

DMXPen serial port data format is 19200,N,8,1 and the communication protocol is based on readable ASCII characters followed by a CR (ASCII13). Here, each time we type <CR> we refer to the ASCII13 character, the CR.

<i>DMX - ArtNet Data Direction</i>	\$DDA <CR> Configure the DMX port as data input. Ethernet port will send the received frame using the ArtNet protocol at the broadcast address configured with PenSuite
<i>ArtNet - DMX Data Direction</i>	\$DAD <CR> Configure the ArtNet on the ethernet port as data input. DMX port will send the received frame. Use PenSuite to configure the device universe number and IP and broadcast address.
<i>Start show playback</i>	\$Gxxx <CR> Start show xxx playback
<i>Start show recording</i>	\$Rxxx <CR> Start show xxx recording
<i>Stop show playback/recording</i>	\$STOP <CR> Stops any playback or recording

session leaving ArtNet - DMX and DMX - ArtNet conversions active. The system in stops, acts as an ArtNet node.

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 Rec01N 232.

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



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