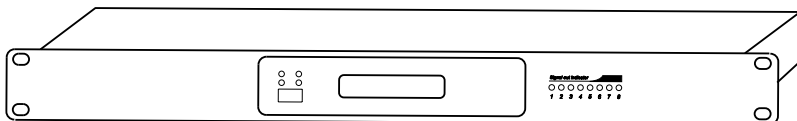# SPIDERNET8

ArtNet to DMX adapter

User Manual

This manual contains important information.
Please read before operating fixture.

CE

INTRODUCTION

The SPIDERNET8 Port Node is a reliable and versatile ArtNet-to-DMX adapter designed to expand DMX networks. It allows conversion of Ethernet data into 8 universes of DMX signal. Additionally, it can be used as a DMX Splitter with 2 inputs to 8 DMX signal outputs. It is intended for control of all kinds of lighting products such as conventionals, moving lights, LEDs, video and media via DMX signal. To optimize the performance of this product, please read the user manual carefully before use.

What Is Included

The following items are included in the box:
- 1pc SPIDERNET8
- 1pc Power cable
- 1pc User Manual

Carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Contact your supplier immediately and retain packing material for inspection if any part is missing or damaged.
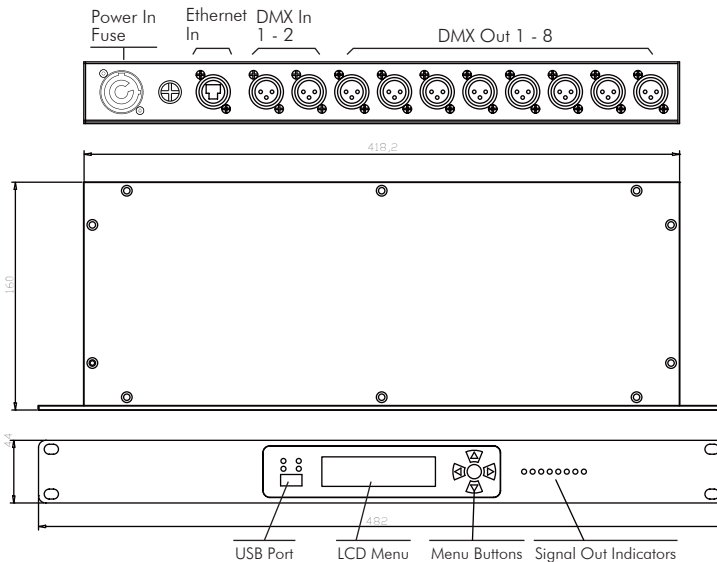
Safety Instruction

> ⚠ **WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:**

- This product is intended for indoor use only!
- Always turn off, unplug power and allow fixture to cool before servicing.
- Ensure that fixture is properly grounded.
- Please keep this User Guide for future consultation.
- To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- The unit must be installed in a location with adequate ventilation. Be sure no ventilation slots are blocked.
- Make sure power cord is never crimped or damaged.
- Do not remove the top cover under any conditions. There are no user serviceable parts inside.
- Disconnect the unit's main power when left unused for long periods of time.
- Never connect this unit to a dimmer pack.
- Never operate this unit when it's cover is removed.
- Any damage caused by manual modifications are not subjuect to warranty.

Features

- Supports ArtNet (V4) and DMX
- 8 Universal DMX ports
- 1 x RJ45 TCP/IP 10/100M Ethernet connector
- Artnet to DMX signal conversion
- 2 inputs to 8 outputs DMX Splitter function
- LED indicator for each output
- 16 x 2 digits LCD menu/fuction display
- USB port for fireware updating

Product Overview

SETUP

Installation

The unit fits nicely in a standard 19" rack or sits on a flat surface.

AC Power

The unit has an internal auto-ranging power supply that works with an input voltage range of 100–240 VAC, 50/60 Hz. Before applying power to a unit, make sure that the unit's input voltage matches the power source voltage.

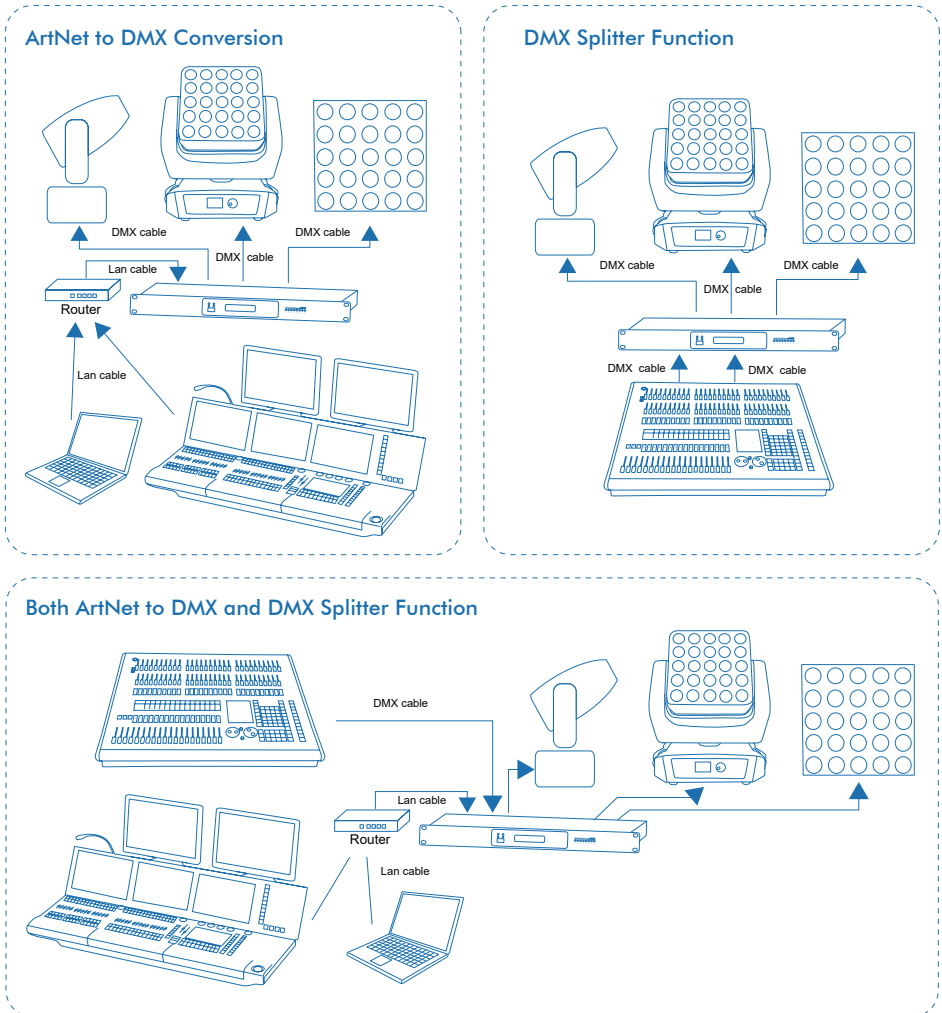**WARNING: All units must be connected to circuits with a suitable Earth Ground.**

Signal Connection

The unit receives signal though 2 DMX In ports and one of 2 Neutrik® etherCON® ports. It sends signal out through 8 DMX Out ports and the other Neutrik® etherCON® port.

Connection Diagram

The unit can be used as ArtNet to DMX, DMX splitter function, and both ArtNet-DMX and DMX splitter simultaneously. Once it is properly configured it operates without user intervention.
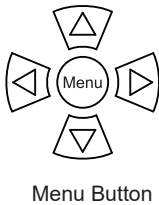
Please see connection diagram as below.
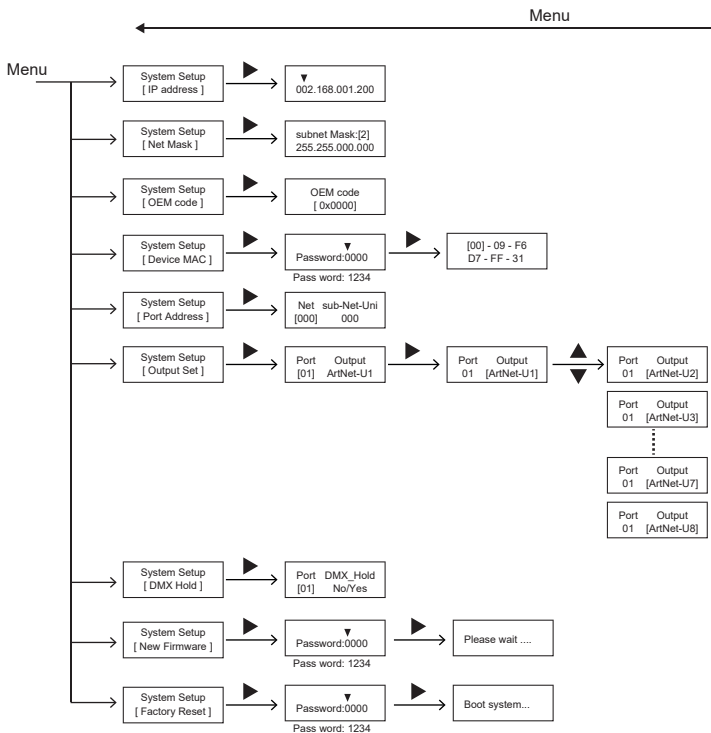
OPERATING INSTRUCTIONS

Menu Buttons

The setup of menu is operated by 5 buttons as described belows.

Menu Button

When navigating the menu:

Use (Menu) to scroll 1st level menu or back to higher level.
Use △ to increase value.
Use ▽ to decrease value.
Use ▷ to move right.
Use ◁ to move left.

Menu Map

Menu

Menu

System Setup [IP address]	▶	▼ 002.168.001.200
System Setup [Net Mask]		subnet Mask:[2] 255.255.000.000
System Setup [OEM code]		OEM code [0x0000]
System Setup [Device MAC]	▶	▼ Password:0000 Pass word: 1234	▶	[00] - 09 - F6 D7 - FF - 31
System Setup [Port Address]		Net sub-Net-Uni [000] 000
System Setup [Output Set]		Port Output [01] ArtNet-U1	▶	Port Output 01 [ArtNet-U1]	△▽	Port Output 01 [ArtNet-U2]

Port   Output
01   [ArtNet-U3]

Port   Output
01   [ArtNet-U7]

Port   Output
01   [ArtNet-U8]

System Setup [DMX Hold]	▶	Port DMX_Hold [01] No/Yes
System Setup [New Firmware]	▶	▼ Password:0000 Pass word: 1234	▶	Please wait ....
System Setup [Factory Reset]	▶	▼ Password:0000 Pass word: 1234	▶	Boot system...

ArtNet to DMX

When the unit is used as an ArtNet to DMX converter, Art-Net universes must be assigned to DMX output ports, and the Net, Subnet, IP address settings must be configured.

To configure Net and Subnet setting, do the followings:

1) Use (Menu) button to select | System Setup [Output Set] |

2) Press ▷ button to access | Port Output [01] ArtNet-U1 | ,use △ ▽ and ◁ ▷ to select Port

number and then press △ ▽ assign output universe or DMX In.

3) When there are more than 8 universes, setup for port address is required for different nodes.

| System Setup [Port Address] | ▶ | Net sub-Net-Uni [000]   000 |

For example, 1st Node is set as | Net sub-Net-Uni [000]   000 | then it outputs universe 1 to 8.

2nd Node is set as | Net sub-Net-Uni [000]   009 | then it outputs universe 9 to 16.

DMX Splitter function

When the unit is used as a DMX splitter only, DMX output ports must be assigned to either DMX IN-1 or DMX IN-2, no need to configurate Net, Subnet, IP address, etc.

1) Press (Menu) button and select | System Setup [Output Set] |

3) Press ▷ button and use △ ▽ to select | Port Output [01] DMX -IN1 | or | Port Output [01] DMX -IN2 |

Note: DMX output ports can be assigned to only ArtNet or DMX -1 /2 , not both.

Indicators

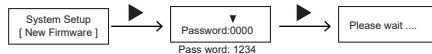On the front panel there are indicators described as below.

Indicator	Behavior	Meaning
LINK	Solid	Ethernet IN is connected to ArtNet source
DATA	Blinks	Unit receives ArtNet signal
DMX 1	Solid	DMX IN-1 is connected to DMX source
DMX 2	Solid	DMX IN-2 is connected to DMX source
Signal Out	Solid	DMX OUT ports output DMX signal

Software updating

1) Copy the new software to the root directory of your USB stick.
2) Insert USB stick in the USB port.
3) Press Menu button and select [New Firmware], input password and press

▷ button.

System Setup
[New Firmware] ➤ Password:0000
Pass word: 1234 ➤ Please wait ....

⚠ **USB port for software updating via USB-stick only. Do not connect any peripheral device (mouse, keyboard or similar).**

SPECIFICATIONS

Power Input: AC 100-240V 50-60Hz
Power consumption: 6W
Data inputs: EtherCon and 3pin XLR In(or 5pin)
Data outputs: 8 x 3pin XLR Out (or 5pin)
Dimension: 482 x 168 x 44 (1U rack mount)
Weight: 2.2 kg

IMPORTANT INFORMATION!

In order to optimize the recovery and recycling of the materials that old appliances contain and reduce the impact on human health and the environment, ensure that this product is recycled at the end of its life.