



# ArtNet to DMX Converter User Manual



# 1. Before You Begin

## What Is Included

- Enquiryment 1pcs
- PowerCon Cable 1pcs
- User Manual 1pcs

## Safety Notes

Please read the following Safety Notes carefully before starting to work with the product. These notes provide important safety information about the installation, usage, and maintenance.



- Always connect this product to a grounded circuit.
- Make sure the power cord is not crimped or damaged.
- Always connect this product to a power source with the proper voltage as listed on the product sticker.
- Do not operate the product if there is damage to the housing.
- This product is for indoor use only! It is rated IP20. Do not expose the product to rain or moisture.
- Always disconnect this product from power before cleaning it or changing the fuse.
- Never disconnect the product from the power source by pulling or tugging on the cord.
- If mounting the product overhead, always secure it using a safety cable.
- Make sure there are no flammable materials close to the product when it is operating.



- This product is not intended for permanent installation.
- Never connect the product to a dimmer or a rheostat.
- Always install the product in a location with adequate ventilation.
- Do not operate the product in an ambient temperature higher than 104 °F (40 °C).
- This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained certified technicians. Do not open the housing or attempt any repairs.
- Any damages caused by manual modifications are not subject to warranty. will not accept liability for damage caused by unauthorized modifications or not observing the safety warnings and instructions in the manual.
- All applicable local codes and regulations apply for proper installation of this product.
- In the event of a serious operating problem, stop using the product immediately.
- If the product requires repair contact us. For more information see [Returns](#) and [Contact Us](#).



Keep this User Manual for future reference.

## 2. Introduction

### Product Description

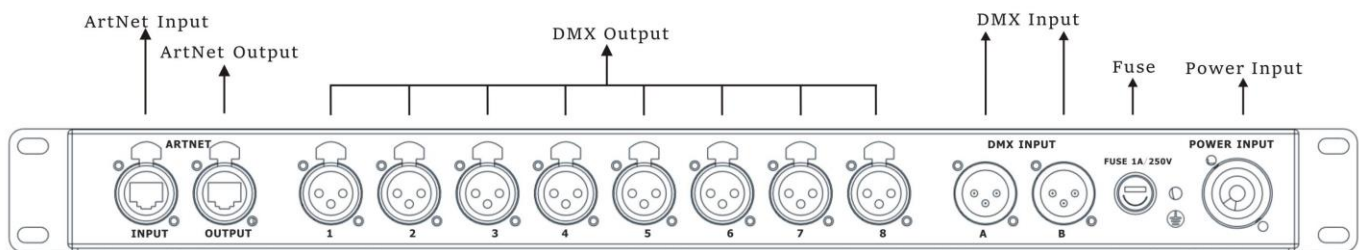
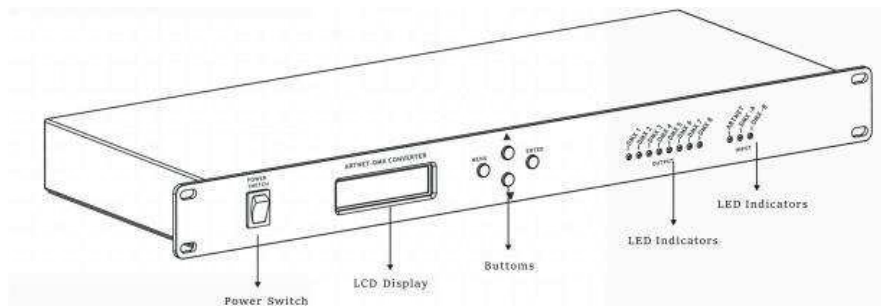
AD8 is a reliable and versatile rack-mountable Art-Net -to-DMX adapter with an integrated optical DMX splitter ,DMX booster and Art-Net hub capability. It has two 3-pin DMX In ports and eight 3-pin DMX Out ports, all optically isolated. It takes up to 8 Art-Net universes simultaneously. The eight 3-pin DMX Out ports can be assigned to either of the DMX In ports or to one of the Art-Net PowerCon ports. PowerCon ports are through ports that allow daisy chaining of AD8 units.

AD8 provides a reliable, highly customizable network infrastructure for complex control systems.

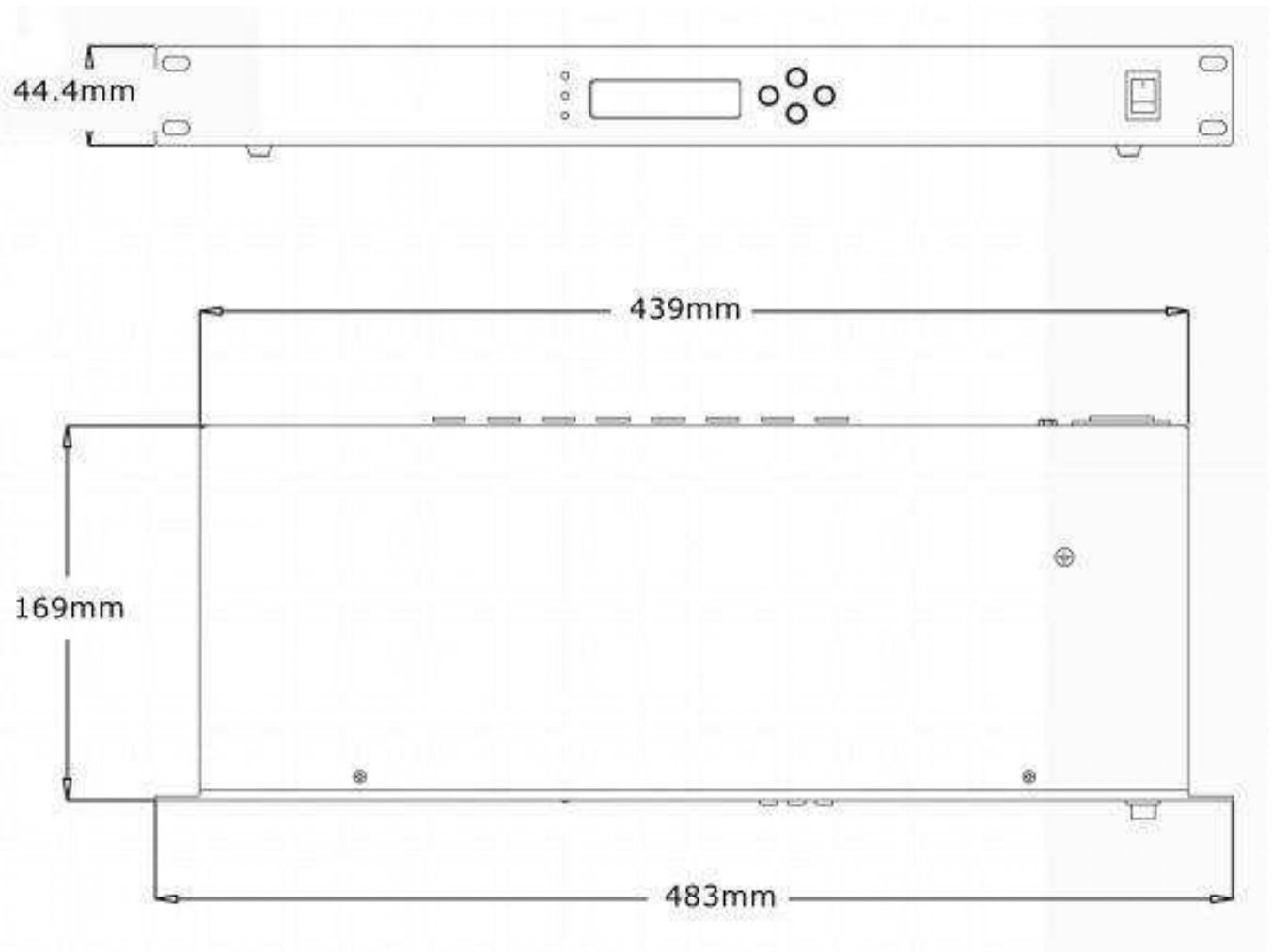
### Additional Products

The AD8 is an adapter ,booster and hub combined that works as part of a control system .

### Product Overview



## Product Dimensions



## 3. Setup And Installation

### AC Power

AD8 has an internal auto- ranging power supply that works with an input voltage range of 110–240 VAC, 50/60 Hz. To determine the power requirements for the AD8 refer to the label affixed to the product or [Technical Specifications](#).



**Always connect this product to a properly grounded and protected circuit.**



**Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

### Fuse Replacement



1. Disconnect the product from power.
2. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder.
3. Pry the fuse holder out of the housing.
4. Remove the blown fuse from the holder.
5. Replace with a fuse of the exact same type and rating.
6. Insert the fuse holder back in place and reconnect power.



**Disconnect the product from power before replacing the fuse**  
**Always replace a blown fuse with another of the same type and rating.**



**A spare fuse is not included; however, the safety cap has room for a spare.**

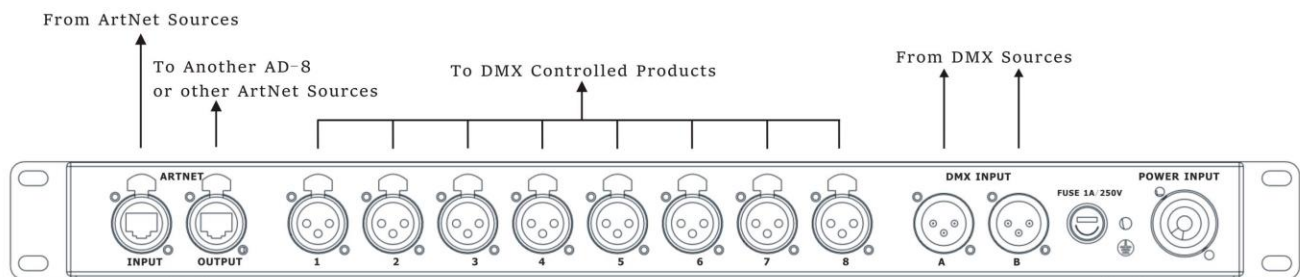
### Mounting

The AD8 fits nicely in a standard 19" rack, or sits on a flat surface. The Net-X should be placed where the menu and the ports are accessible, and where there is adequate ventilation.

### Signal Connection

The AD8 receives signal through 2 DMX In ports and PowerCon ports. It sends signal out through 8 DMX Out ports and Artnet output

### Signal Connection Diagram



- The DMX ports can only be input or output ports. There are 2 DMX In ports and 8 DMX Out ports.

## Installation Guidelines

The AD8 is used as part of a control system for operating various lighting and multi-media products. The physical and digital construction of the control network is determined by the location and signal needs of the products.

When designing a control system that uses the AD8, consider the following:

- Placing the AD8 so the menu and ports can be accessed
- Running the cables so there is no tension or pull on the cables or plugs
- Planning a large control system carefully before configuring the components, so IP address, DMX address, and other identifiers are not duplicated

## 4. Features

- Distributes Art-Net data to 8 DMX512 universes (4096 channels)
- Parallel DMX input possible (1024 channels)
- 8 optically isolated XLR plugs (3-pin) for DMX output
- 2 XLR (3-pin) for DMX input
- Variable data routing capabilities for all DMX outputs
- 1 x powercon in/through port
- Serial connection possible
- User-friendly configuration directly at the front panel via 4 operating buttons and alphanumeric LCD screen (2 x 16 characters)
- LED indication for functions
- DMX Splitter / DMX booster operation possible
- Rack installation 1 U

## 5. Technical Specifications

Power supply:	110-240 V AC, 50/60 Hz
Power consumption:	15 W
DMX512 inputs:	2 x 3-pin XLR male
DMX512 outputs:	8 x 3-pin XLR female
Ethernet:	2 x RJ45 100 Mbps
Protocol:	Art-Net 4
Dimensions (LxWxH):	483 x 169 x 44.4 mm
Weight:	2.9 kg

## 6 .Configuration And Operation

The AD-8 is configured through the control panel, using the control panel buttons. Once the AD-8 is properly configured it operates without user intervention.

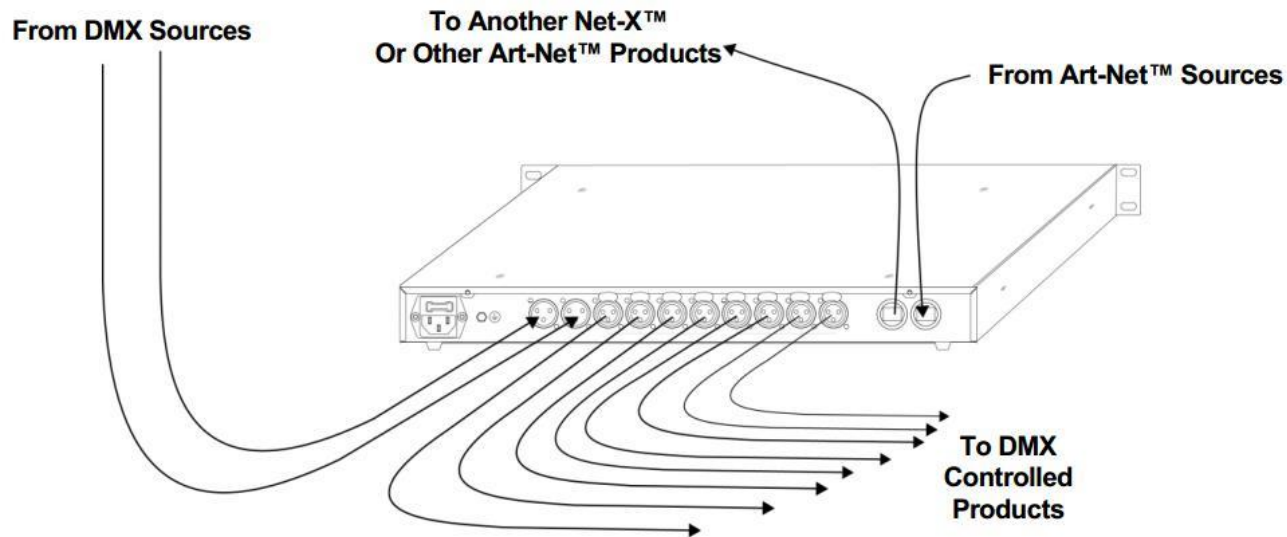
The AD-8 can be used as a DMX splitter only, in which case the DMX In ports must be assigned to the DMX Out ports, but the Net, Subnet, and IP address settings do not need configuration.

The AD-8 can be used as an Art-Net hub, in which case the AD-8 universes must be assigned to the DMX Out ports, and the Net, Subnet, and IP address settings must be configured.

The AD-8 can be used as both a DMX splitter and an AD-8 hub simultaneously, in which case both the DMX assignments and the AD8 settings must be configured. For more information, see [Configuration Examples](#).



**DMX In ports and universes can be assigned to multiple DMX Out ports.**



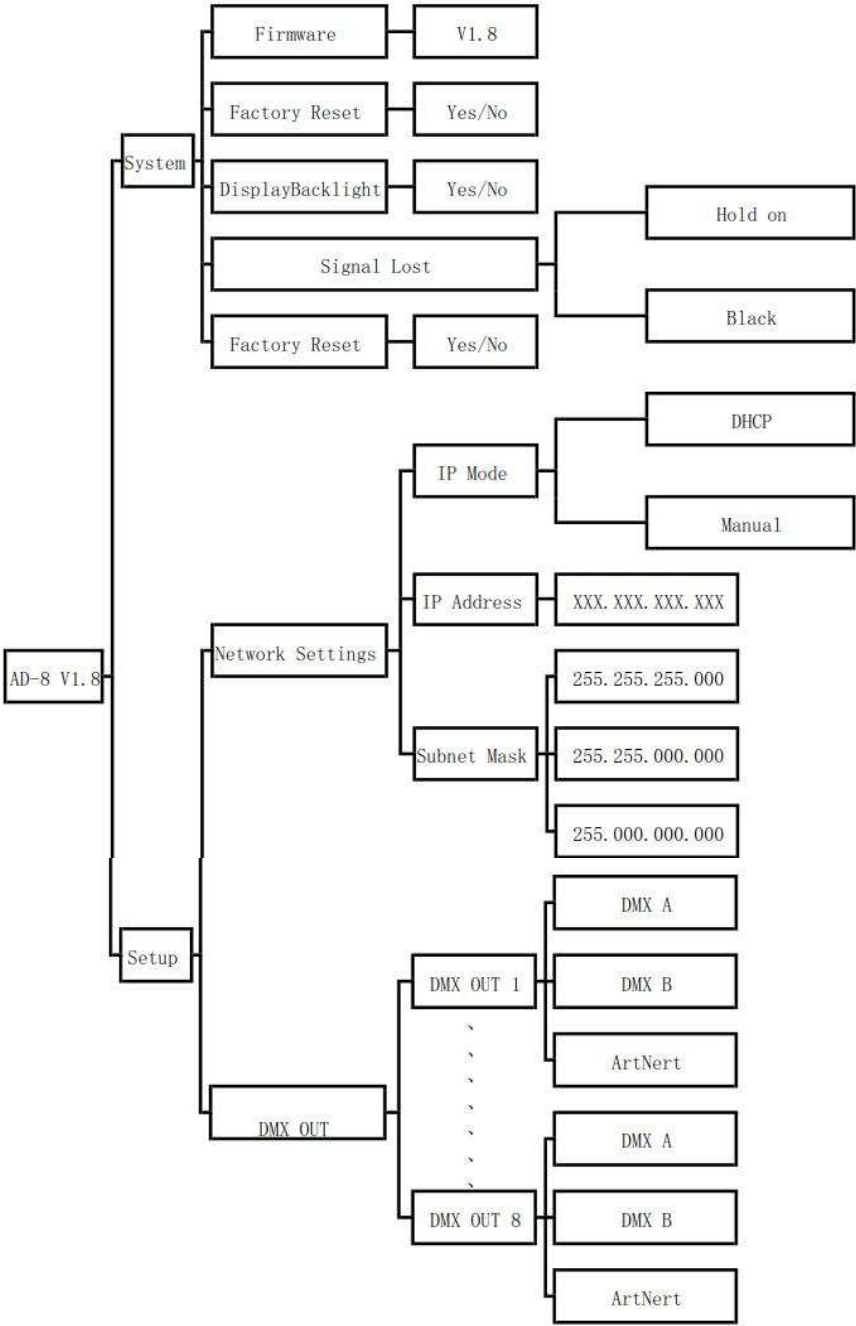
## Control Panel

The control panel is the mechanism for configuring the AK-AD8 settings. It has a small LCD screen and four buttons, which are described below.

Button	Function
<MENU>	Scrolls through the first level of options, or exits from the current menu or function
<UP>	Navigates upward through the menu list or increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list or decreases the numeric value when in a function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function

# Menu Map

The menu map shows the organization of the configuration settings. Use it for reference when configuring the AD8





## Using The Menu

The menu is used by pressing the 4 control buttons as described in the next sections.

## Configuration Examples

AD-8 is extremely versatile, with DMX source capabilities and AD-8 source capabilities which can be combined so that the AD-8 is acting as a DMX splitter, an Art-Net™ adapter, and an AD-8 hub.

### Configuring IP Mode

- The IP address is the address of the AD-8 on the network. It must be configured if the AD-8 is being used as an AD-8 hub.

DHCP it is control 1-8 universe , once one of them 1-8 universe ,select artnet output , it is Valid IP

Manual it is control 1-8 universe also , but need manual operation .

### DMX Out :(DMX Splitter)

DMX source-only configuration uses the AD-8 as a DMX splitter. The DMX signal comes in from one or both of the DMX In ports and goes out through one or more of the DMX Out ports.

To configure the AD-8 as a DMX splitter with the input and output assignments listed here

Select the DMX Out to configure by pressing **<MENU>**

Press **<UP>** or **<DOWN>** option DMX A or DMX B or Arnet ,whatever which one you want .

- The DMX signal comes in from one or both of the DMX In ports and goes out through one or more of the DMX Out ports.
- DMX A and DMX B can be entered DMX signals separately.

The menu structure presents each DMX Out port as a **<DMX Output #X>**, where X is the DMX Out port.

If want DMX Out the signal of DMX A or DMX B signal , just pressing the **<DMX Output #X>** to DMX A or DMX B

If want all DMX Out 1- DMX Out 4 ,the DMX signal are same DMX A signal ,  
pressing **<Enter > option DMX Out 1 - DMX Out 4 it is DMX A**

If want all DMX Out 5- DMX Out 8 ,the DMX signal are same DMX B signal ,  
pressing **<Enter > option DMX Out 5- DMX Out 8 it is DMX B**

If want all DMX out the DMX signal are same DMX A signal ,  
pressing **<Enter > option DMX Out 1 - DMX Out 8 it is DMX A**

If want all DMX out the DMX signal are same DMX B signal ,  
pressing **<Enter > option DMX Out 1 - DMX Out 8 it is DMX B**

## Signal Lost

- **Hold on**

For example , if the computer output color it is red , sudden ,the computer out of power , enter hold on ,it will keep red color

- **Black**

In such case , Option black , the computer out of power , output will black out .

## AD-8 Source (AD-8 adapter)

AD-8 source-only configuration uses the AD-8 as an Artnet-to-DMX adapter. The signal comes in from the AD-8 source to the powercon port and goes out through one or more of the DMX Out ports.

# 5. Technical Information

## Maintenance

To maintain optimum performance and minimize wear, the user should clean this product regularly. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean the Net-X, do the following:

1. Unplug the panel from power.
2. Wait until the unit is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
4. Clean all external surfaces with a mild solution of non-ammonia cleaner or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
6. Make sure all connections are thoroughly dry before reconnecting power and signal cables.

- Keep the environment around the Net-X free of dust, dirt, water, and extreme temperatures.
- Insert and remove DMX and Powercon cables slowly and gently.
- Put the Net-X on the top of any stacks of equipment, or rack mount it.
- Turn the Net-X off when it is not in use.



**Always dry the external surfaces carefully after cleaning them.**