ArtNet/DMX Converter
User Manual

Safety and maintenance

before installing the equipment, please read this manual and follow the safety precautions listed below and observe all warnings in this manual.

· Make sure that the device's power matches the local power outlets.

· To reduce the risk of fire or electric shock, do not expose the device to rain or wet conditions.

· Do not allow water or other liquids into the device.

· Do not open the device, no user-serviceable parts inside.

· Do not disassemble or modify the device, disassemble or modify the device will not be under warranty.

· Do not attempt to repair it. Unqualified repair personnel could result in damage or faulty operation.

· Please disconnect the power when not in use for a long time.

· Use a dry cloth to clean the device.

· Handle with care. Strong shock or vibration may cause malfunction.

1.Overview

AD-2N Is an Ethernet to DMX Bi-directional converters. Provide two network Art-Net to DMX512 two-way conversion capabilities. Equipment uses high-speed ARM processors, follow the standard Art-Net Protocol, provide RJ45 network interfaces and standard DMX512 input/output interface. ArtNet-DMX2 highly compliant protocol standards, real-time, stable and reliable.

AD-2N Factory configuration IP Address 2.xxx And subnet mask 255.0.0.0 , no need to modify, . Special network configuration can use PC configuration tools and WEB browser changes.

Input/output mode decide by switches of the Panel. Can refer to device Panel configuration form.

1.1 Input mode

Traditional console input mode change DMX Signal into Art-Net Signals transmitted over the Ethernet. Just like a standard Art-Net console; Can control all the Art-Net node which connected to the same UNIVERSE on the network. This model can let traditional DMX device being networked , saving investment, have great economic benefits.
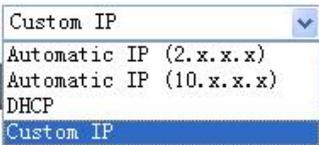
1.2 Output Mode

Output mode can receive the same UNIVERSE Art-Net Message and convert DMX512 Signal to directly control the DMX Equipment.

1.3 Configuration

ArtNet-DMX2 Can be configure the device by PC and WEB browser .

Art-Net standard IP addresses, can be set to 2.x.x.x(subnet mask 255.0.0.0) 10.x.x.x(subnet mask 255.0.0.0). If the console has a special setting, you can change the device IP to the same network segment.
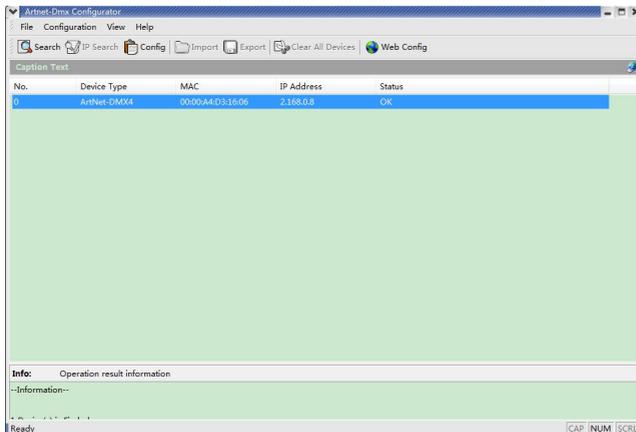

IP Address have four modes :2.x.x.x Automatic, 10.x.x.x Automatic, DHCP , User-defined patterns. First two IP addresses automatically, the subnet mask for the 255.0.0.0, DHCP address by the DHCP Server to assign, can setting be customized as needed . please Configure to communicate with devices in the same network segment.

Art-Net identify the node By UNIVERSE , setting in the range for 0~255 ; this device UNIVERSE count from 0 , some equipment start from 1.
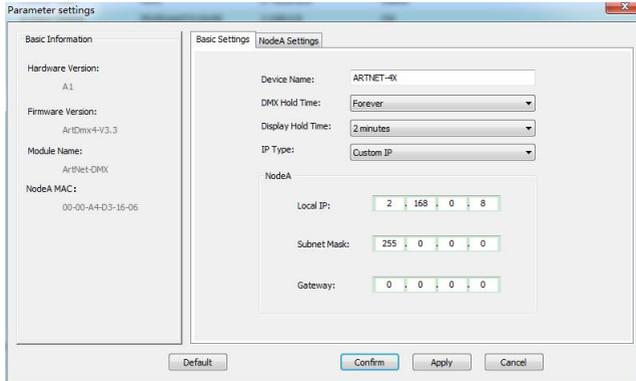
2. searching configuration

You can instruct the user to configure and activate the required DMX Networking applications by PC -End configuration software. With this feature, users need to spend on average only 30 seconds to complete set of equipment, saving a lot of time and effort.
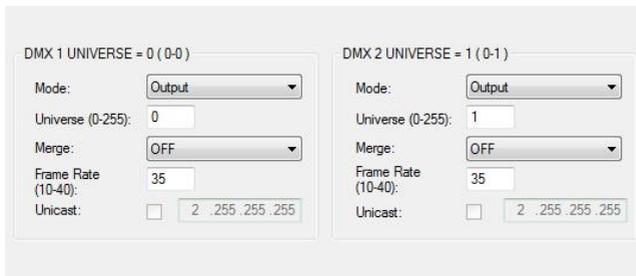
Click on the ″ **search** ″, the system lists all devices on the network, double-click to the configuration .

Click on the **"Default"**, Device will restore the factory settings.

The basic configuration page（ **Basic Settings** ）Device name **DMX** Time, display time, **IP** Some basic parameters such as address configuration.

Node configuration page（ **Node A/B Settings** ）-Port configurations, as shown below:

Mode：Set the **DMX** input/output mode.

Note: input/output mode is read-only, configured will decide by dip switches on the Panel.

Universe：Set the **Art-Net** of the **UNIVERSE**.

Merge：Set the merge strategy when you have multiple inputs to the same port, you can keep the default.

Frame Rate: Set **DMX** Output refresh rate 。

Unicast：Set input mode if use the unicast mode to save the bandwidth, need to specify   the corresponding   device's IP address.

3. Enter the WEB configuration

1) Connect the PC and the device to the network (direct or the same LAN) via a standard RJ45 cable.

2) The device is powered on to view the IP address displayed on the screen.

3) Modify the PC IP address to the same network segment.

4) Open the browser (IE, chrome or other), in the address bar enter the device IP address.

5) At this time to display the basic status of the device information, enter the password, the default is empty, click Submit

ArtNet-DMX4

(Status Infomation)

Model	ArtNet-2048
Name	ARTNET-4X
NodeA IP Address	2.168.0.8
NodeA Netmask	255.0.0.0
NodeA Gateway	0.0.0.0
NodeA MAC Address	00:00:a4:d3:16:06
Firmware Ver.	ArtDmx4-V3.3
Password	[ ] Submit

6) modify the IP address and other basic information

The following is a typical configuration of custom IP (Custom IP).

Basic Settings

Name	ARTNET-4X
DMX Hold	Forever
Display Timeout	2 minitues

	Node A
MAC Address	00:00:a4:d3:16:06
IP Address	2.168.0.8
Netmask	255.0.0.0
Gateway	0.0.0.0

IP Configuration	Custom IP

Apply   Reset

Name is the device name

DMX Hold Sets the hold time of the DMX output after the network has no signal

Display Timeout Set the display backlight retention time (this product model ignores this)

7) Modify the equipment configuration as needed.

DMX Configuration

Node A

	Direction	Universe(0~255)	Merging policy	Framerate(10~40Hz)	Unicast
DMX 1	Output ▾	0	OFF ▾	35	
DMX 2	Output ▾	1	OFF ▾	35	

Apply   Reset

The first column： Direction sets the DMX port input / output mode

Note: The input and output mode here is read-only, and the configuration is determined by the DIP switch on the panel.

The second column： Universe sets Art-Net's UNIVERSE.

The third column Merging policy sets multiple input strategies to the same port, which can be maintained by default.

The fourth column： Framerate sets the refresh rate of the DMX output.

The fifth column： Unicast sets whether the input mode uses unicast mode to save bandwidth. When unicast, specify the IP

address of the other device.

4. Specifications

Connector

DMX: 2 x shielded & gold plated 3-pin XLR (female)

Network: 1 x 10 / 100Mbps RJ45 connector

Power supply: 9-12V DC

DMX features

Support Agreement: DMX512 (1986 & 1990), DMX512-A, RDM (selected) ANSI E1.20

DMX port direction: input or output (configurable)

DMX port protection: built-in 1.5KV

DMX Port Match / Offset: Yes

DMX Parameters: Frame Frequency: 10-40fps / Break: 176-352μs

Ethernet features

Support agreement: Art-Net, UDP, TCP, ICMP, DHCP

Port rate: 10 / 100BaseTX

Port detection: auto-negotiation, MDI / MDIX

Additional features

Configuration management software: search found, simple configuration

WEB configuration: support

Status report

LCD display configuration: Setup information (IP address, subnet mask, DMX port settings)

Ethernet port indication: connection and activity

Run: LED indication