Technical Specification

Power Supply ....…………………AC100-240V, 50/60Hz
Dimensions.......................…………..….482x155x44mm
Weight....................……………...…........2.3kgs

Innovation, Quality, Performance

Show Atelier

DIAPro ArtNet to DMX 44

User Guide

*Please read these instructions carefully before use*

CONTENTS

2) **ArtNet Clone:** Direct through mode, the preset is used to replicate a standard ArtNet signal from 2 (1-2) Input ports to 2(3-4) output ports.
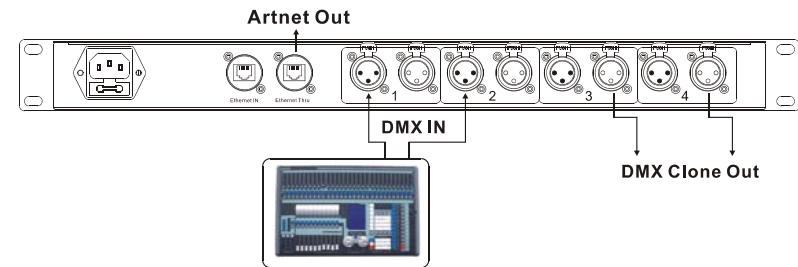
3) **Isolated Mode:** It will isolate the DMX input and output. The DMX input wouldn't output the DMX signal to the DMX out port. They will receive the signal from the network individually.

4) **Factory Setting:** All of the setting including the device name, device ID as well as device IP will be restored to the original status.

**4.2.8 Version**

You can check the version number from this option.
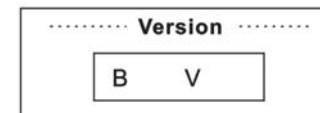
Application Diagram

Please Note that: The unit cannot be circular connected, or it will cause cyber storm to affect the performance of system.

4.2.7 User Preset

Enter into the main menu by press MENU button, then pressing UP / DOWN to choose the **User Preset** option and then press the ENTER to confirm your selection. This setting help you easily use the application avoid complicated setup procedure. You can simply choose you desired mode by pressing UP and DOWN.
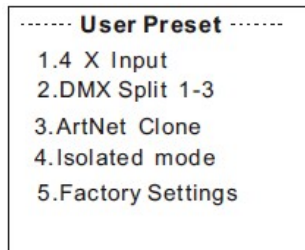
1) **4 x Input:** Make the 4 DMX port as Input status.
   a) **DMX Split 1-3:** This setting will help you make the unit as one splitter which with one DMX input to 3 DMX output. Please note that the LED indicator of the DMX Output port will light up in green.
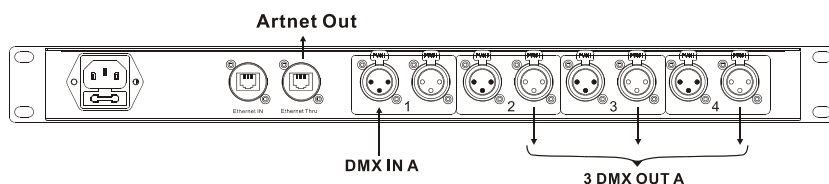
1. Features

➢ RJ45 Ethernet (LAN) connector, 10/100M self-adaption, support TCP/IP protocol

➢ Ethernet connector supports Auto MDI/MDIX

➢ Support standard DMX-512, sACN (E1.31) and ArtNet protocol

➢ Support ArtNet←→DMX signal bilateral conversion

➢ DMX input/output can be set as able/disabled

➢ Each DMX output can be set as single, zero, HTP, LTP and RDM mode

➢ Each DMX input can be set as normal or backup mode

➢ Can be acted as DMX splitter

➢ IP address can be set manually

➢ Factory setting

➢ LCD display indicates each DMX output status

➢ LED indicators indicate the activate status of Ethernet

➢ Online updates software

➢ 4 DMX port , any of the port can be set as input status or output status

➢ Broadcast mode, one device transmits while all devices receive the same information

➢ Backup mode, when one DMX signal goes faulty, it will output the other DMX signal automatically.

NOTE: Some basic knowledge of DMX is required to fully utilize this unit.

2. General Instructions

Please read the user manual carefully, as it includes important information regarding details of operation, maintenance, and technical data. Keep this manual with the unit for future consultation.

WARNINGS！

♦   DO NOT make any inflammable liquids, water or metal objects enter the unit.
♦   Should any liquid be spilled on the unit, DISCONNECT the power immediately.
♦   STOP using the unit immediately in the event of serious operation problems and contact with your local dealer for a check or contact us directly.
♦   DO NOT open the unit--there are no user serviceable parts inside.
♦   NEVER try to repair the unit by yourself. Repairs by unqualified people could cause damage or faulty operation.

CAUTIONS！

♦   After having removed the packaging, please check that the unit is NOT damaged in any way. If in doubt, DON'T use it and contact an authorized dealer.
♦   Packaging material (plastic bags, polystyrene foam, nails, etc.) MUST NOT be left within children's reach, as it can be dangerous.
♦   This unit must only be operated by adults. DO NOT allow children to tamper or play with it.
♦   NEVER use the unit under the following conditions:

Any of the port 1-4 can be set as Disabled status. Upon the port has been set as Disabled status, the DMX port will be disabled, it cannot send or receive any data from now on.

Please note that the Framerte/fs only available for Output status; The Secondly and Resend option only available for the HTP/LTP mode under the status of Output.

4.2.5 Set ID NO.

Enter into the main menu by press MENU button, then pressing UP / DOWN to choose the **Set ID NO.** option, then press the ENTER to confirm your selection. Press the ID No. (for example: 001) and press the ENTER to enter and press UP and DOWN to choose the ID No. for the unit from 000 to 255. The ID is only used to recognize each of the unit easily.

```
······ Device ID ·······
        001
Cancel        Enter
```

4.2.6 Set LCD Backlight

Enter into the main menu by press MENU button, then pressing UP / DOWN to choose the **Set LCD Backlight** option and then press the ENTER to confirm your selection. You can choose its status as ON/OFF. "ON" means the LCD backlight will turn on all the time. "OFF" means the LCD backlight will turn off automatically after idle 30 seconds.

```
····· LCD BackLight ·····
1.ON
2.OFF
```

and secondly. The unit will compare the two universal and resend the later one to the network.

Please note that in the LTP mode, you should ensure the Resend option is not at the status of Disabled. Or it won't resend the data to the network.

HTP means the port will output the one with higher value between the universal of principle and secondly. The unit will compare the two universal and resend the higher data to the network. They can be set within the range of 0.0-F.F./001-255. (These two formats can be change through Display Mode)

Please note that in the HTP mode, you should ensure the Resend option is not at the status of Disabled. Or it won't resend the data to the network.

**RDM** means the port output can support Remote Device Manager.
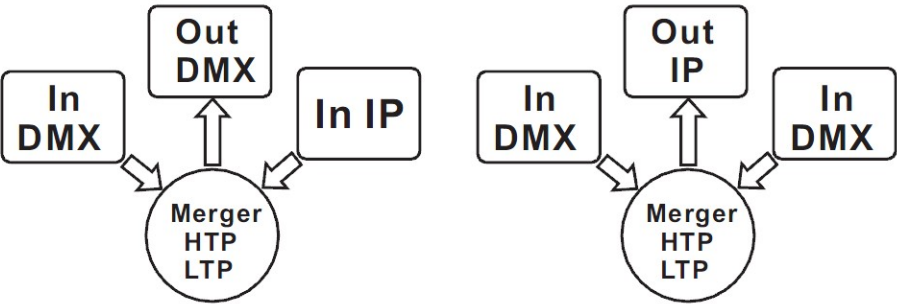
3) 1-4 DMX port disabled

In places subject to excessive humidity.
In places subject to vibrations or bumps.
In places with a temperature of over 45℃/113 F or less than 2℃/35.6 F.
Protect the unit from excessive dryness or humidity (ideal conditions are between35% and 80%).
♦ DO NOT dismantle or modify the unit privately.

3. Overview

3.1 Front View
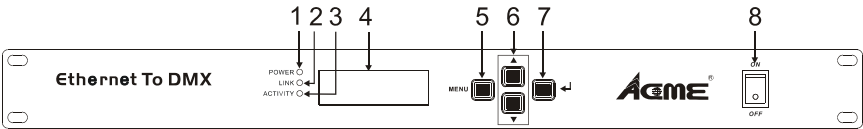
1 POWER LED indicator	To show the on/off status of the unit
2 LINK LED indicator	Network connect status indicate
3 ACTIVITY LED indicator	Network activity indicator, when there is any data transmit, it will flash.
4 LCD Display	display the present status and the available option
5 Menu Button	Enter into main menu or back to last menu
6 **UP/DOWN Button**	UP and DOWN button
7 Enter Button	Enter button
8 Power Switch Button	Power ON/OFF the unit

3.2 Rear View

3pin XLR

9   10   11

5pin XLR

9   10   11
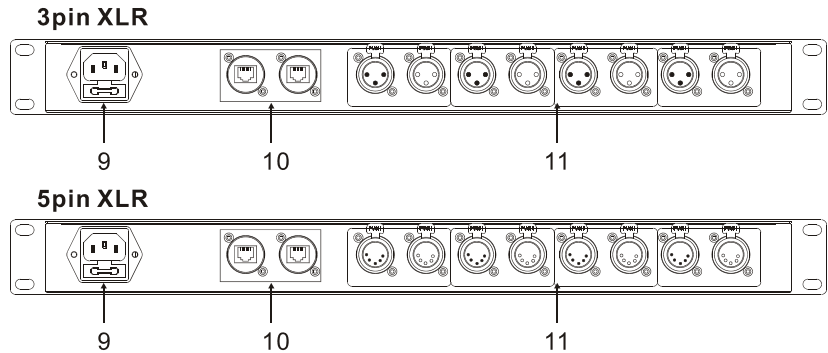
9 Power supply	Connect with the power cord
10 Ethernet RJ45 connector	Connect with network cable
11 DMX port 1-4	Can be set as DMX in/DMX out

4. Operation Guide

Nowadays many occasions require thousands of DMX channels. And with the increased use of LED fixtures and video mapping, it is now necessary to have fast DMX response and proper network load management. CA-AN44 can realize not only instant response but also lower network load. It allows users to increase the number of DMX universes and easily place DMX universes remotely on any TCP/IP Ethernet network. In addition, the CA-AN44 can be used as a DMX merger, DMX splitter, backup device and so on.

4.1 Startup View

Backup mode refers that when there is any data on the universal of network, the CA-AN04 won't send any data to universal of network. Only when the universal of network is no any data, then the CA-AN04 will receive the data from DMX IN port and send it to the universal of network simultaneously.

2)   1-4 DMX output

Any of the port 1-4 also can be set as Output status. Upon the port has been set as Output status, there are **LTP, HTP, zero**, **single** and **RDM** these 5 modes can be selected.

Zero means the port output should be "0';
**Single** means this port will only output one universal.
LTP means this port will output the latter one between the universal of principle

4.2.4 Set DMX port

Enter into the main menu by press MENU button, then pressing UP / DOWN to choose the **DMX port** option and then press the ENTER to confirm your selection. Then you can set the parameter of the each port by pressing the ENTER and UP/DOWN.

```
······   DMX Port   ········
1.DMX Port 1
2.DMX Port 2
```
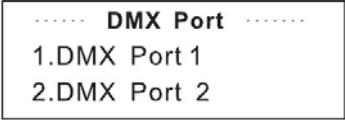
1) 1-4 DMX Input
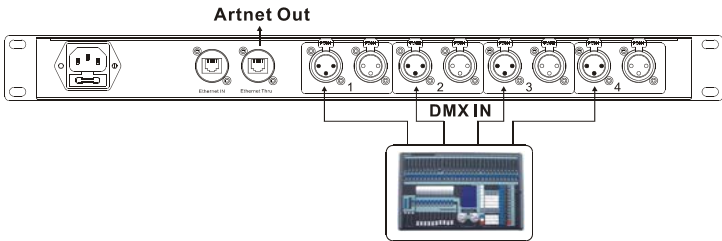
You can set any of the DMX port 1-4 as Input status. Then only the principle universal is available. It can be set within the range 0.0 - F.F. As the DMX port has been set as Input status, then the Mode only can be set as normal or backup.

```
······   DMX Port   ·······
1.Port Status   IN
2.Port Mode  Normal
```
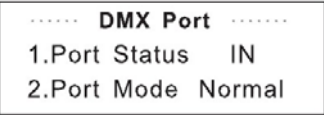
Normal mode means it will send the data received from DMX IN port to the universal of network regardless if there is any data in the universal of the network.

There are 4 different statuses (as pictures show) you can check when you power on your unit. You can switchover them by pressing the UP/DOWN button. All of the options can be changed in the main menu.

In the port status, A/B means the network port; "x" means there is no network connected. "√" means the network has been connected. 1-4 refers to the DMX port 1-4. In the status, "x" means the DMX port's status is inactive. It will hold the current output. "√" stands the DMX port's status is activity, it has connected to the network. "o" means the current port status is set to DMX output; "I" means the DMX ports is set to DMX input status.

4.2 Main menu

Main Menu

- 1.Rename Device — ┌ X X X X X X X X X X ┐ / └ Cancel Enter ┘
- 2.Set IP Address — ┌ 0~255,0~255,0~255,0~255 ┐ / └ Cancel Enter ┘
- 3.Set Netmask
  - A.255.000.000.000
  - B.255.255.000.000
  - C.255.255.255.000
- 4.Set DMX Port
  - 1,DMX Port 1
  - •
  - •
  - •
  - 4,DMX Port 4
  - 5,Exit
    - 1,Port Status
      - Input
      - Output
      - Disabled
    - 2,Port Mode
      - normal
      - backup
      - zero
      - single
      - HTP
      - LTP
      - RDM
    - 3,Framerte/fs
      - 010
      - ⋮
      - 040
    - 4,Principal
      - 0.0 : 001
      - ⋮ : ⋮
      - F.F : 256
    - 5,Secondary
      - 0.0 : 001
      - ⋮ : ⋮
      - F.F : 256
    - 6,Resend
      - 0.0 : 001
      - ⋮ : ⋮
      - F.F : 256
      - Disabled
    - 7,Display Mode
      - Hex/F.F
      - Dec/256
- 5.Set ID NO. — ┌ 000~255 ┐ / └ Cancel Enter ┘
- 6.Set LCD Backlight
  - 1,ON
  - 2,OFF
- 7.User Preset
  - 1.4 X Input
  - 2.DMX SPlit 1-3
  - 3.ArtNet Clone
  - 4.Isolated Mode
  - 5.Factory Settings
- 8.Version — ┌ BXX VXX ┐

4.2.1 Rename Device

Enter into the main menu by press UP/DOWN button, then pressing the button to choose the **Rename Device** option and then press the ENTER button to confirm your selection. Now you can rename the device by pressing UP and DOWN now. Confirm you change and move to next option by press the ENTER.

```
········· Rename ·········
ArtNet To DMX
Cancel     Enter
```

4.2.2 Set IP Address

Enter into the main menu by press MENU button, then pressing UP / DOWN to choose the **Set IP Address** option and then press the ENTER to confirm your selection. Now you can set **IP address** by pressing UP and DOWN now. Confirm you change and move to next option by press the ENTER and UP/DOWN.

```
······  IP Address  ······
002.010.010.002
Cancel     Enter
```

Please note: Each of the IP address should be unique.

4.2.3 Set Netmask

Enter into the main menu by press MENU button, then pressing UP / DOWN to choose the **Netmask** option and then press the ENTER to confirm your selection. Now you can set **Netmask** by pressing UP and DOWN now. Confirm you change and move to next option by pressing the ENTER and UP/DOWN.

```
········· Netmask ·········
A. 255.000.000.000
B. 255.255.000.000
C. 255.255.255.000
```