ArtNET-RDM 28

CONTENTS

1. Features

➢ RJ45 Ethernet (LAN) connector, 10/100/1000M self-adaption, support TCP/IP protocol

➢ Ethernet connector supports Auto MDI/MDIX

➢ Support standard DMX-512 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，RDM mode

➢ Can be acted as DMX splitter

➢ IP address can be set manually

➢ Six kinds of user pre-setting

➢ Display indicates each DMX port status

➢ LED indicators indicate the activate status of Ethernet

➢ Online updates software

➢ 2 DMX input, 8 DMX output. All the input /output with optoelectronic isolation

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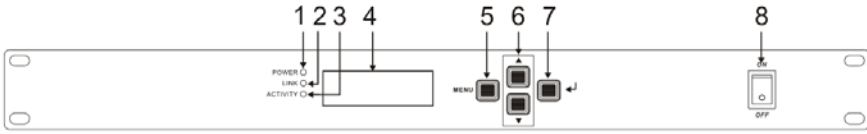
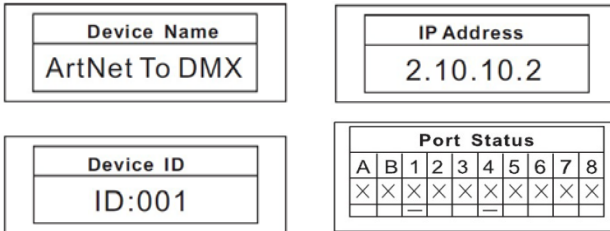| **1 POWER LED indicator** | To show the on/off status of the unit |
2 LINK LED indicator	Network connect status indicate
3 ACTIVITY LED indicator	Network activity indicator, when there is any data transmit, it will flash.
4 LCD Display	display the present status and the available option
5 MENU Button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

3.2 Rear View
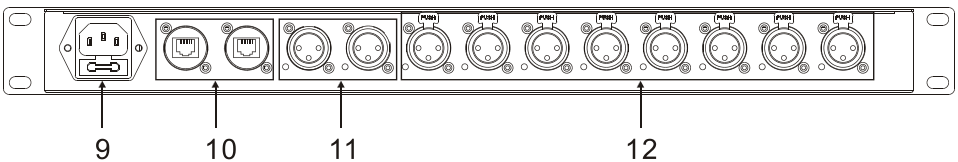
9 Power supply	Connect with the power cord
10 Ethernet RJ45 connector	Connect with network cable
11 DMX In port A B	DMX in
12 DMX port 1-8	Can be set as DMX in/DMX out

4. Operation Guide

4.1 Startup View

Device Name
ArtNet To DMX

IP Address
2.10.10.2

Device ID
ID:001

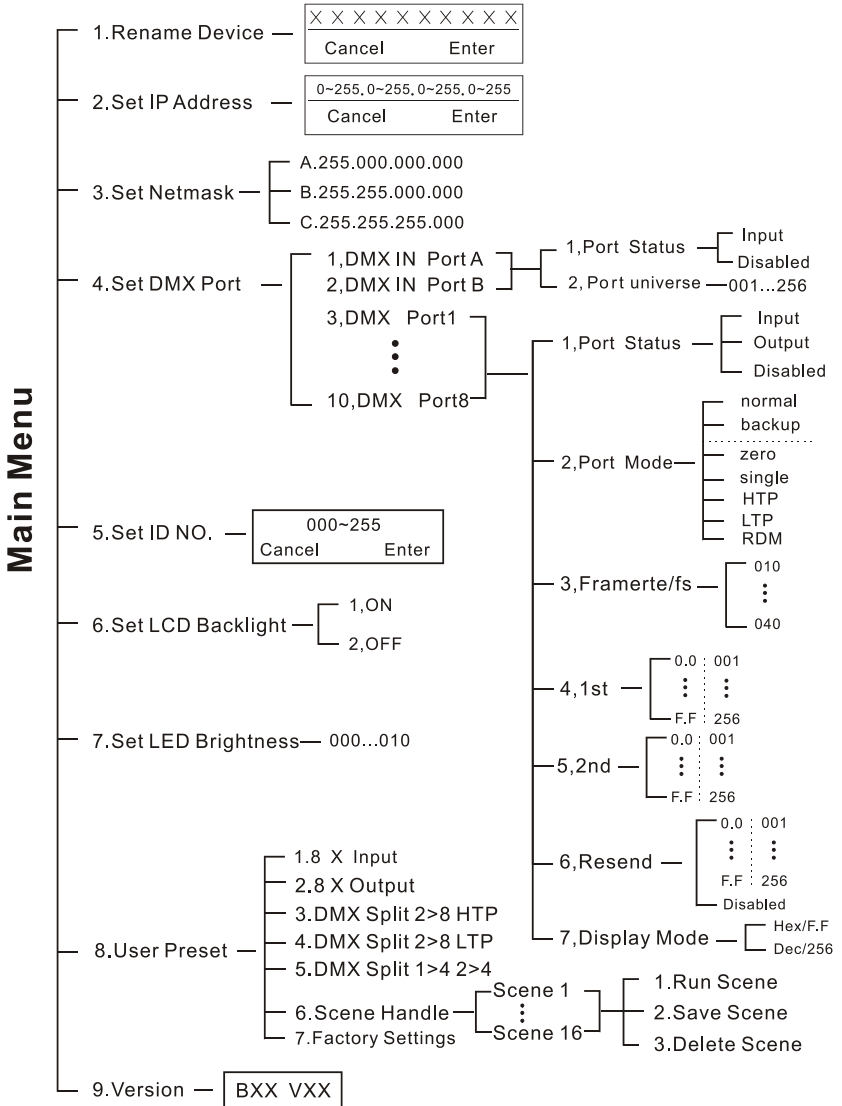| Port Status									
A	B	1	2	3	4	5	6	7	8
×	×	×	×	×	×	×	×	×	×
		—			—				

There are 4 different statuses (as pictures show) you can check when you power on the unit. You can switchover them by pressing the UP and DOWN. 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. 1-8 refers to the DMX port 1-8. 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. "-" means the current port status is forbidden.

4.2 Main menu

Main Menu

- 1.Rename Device —
  - 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 IN Port A
  - 2,DMX IN Port B
    - 1,Port Status
      - Input
      - Disabled
    - 2,Port universe — 001...256
  - 3,DMX Port1
    - ⋮
  - 10,DMX Port8
    - 1,Port Status
      - Input
      - Output
      - Disabled
    - 2,Port Mode
      - normal
      - backup
      - zero
      - single
      - HTP
      - LTP
      - RDM
    - 3,Framerte/fs
      - 010
      - ⋮
      - 040
    - 4,1st
      - 0.0 001
      - ⋮   ⋮
      - F.F 256
    - 5,2nd
      - 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.Set LED Brightness — 000...010

- 8.User Preset —
  - 1.8 X Input
  - 2.8 X Output
  - 3.DMX Split 2>8 HTP
  - 4.DMX Split 2>8 LTP
  - 5.DMX Split 1>4 2>4
  - 6.Scene Handle
    - Scene 1
    - ⋮
    - Scene 16
      - 1.Run Scene
      - 2.Save Scene
      - 3.Delete Scene
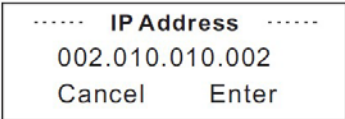 - 7.Factory Settings

- 9.Version — BXX VXX

4.2.1 Rename Device

Enter into the main menu by press MENU, then pressing the UP and DOWN to choose the **Rename Device** option and then press the ENTER 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 MENU.

```
········· Rename ··········
   ArtNet To DMX
  Cancel     Enter
```
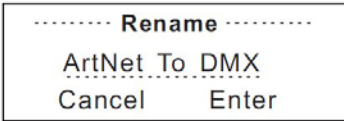
4.2.2 Set IP Address

Enter into the main menu by press MENU, then pressing the UP and 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 by press the ENTER.

```
······   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, then pressing the UP and DOWN to choose the **Set 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 by press the ENTER.

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

4.2.4 Set DMX port

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

1) DMX Input A B
   Press ENTER button and select DMX IN Port A or DMX IN Port B. Then press the button UP and DOWN to set the Port Status and Povtuniverse from 001 to 256.

2) 1-8 DMX Input
   You can enter to any of the DMX port 1-8 and set as below:
   1, Port Status, DMX port status can be set as IN / OUT/ DIS;
   2, As the DMX port set as Input status, then the Mode only can be set as normal or backup.
   3, Framerte/fs, adjust the speed of DMX output
   4, Principal, adjust the value
   5, Secondary, adjust the value
   6, Resend, adjust or disable the value for universal of network
   7, Display Mode, adjust the display mode

   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.

Backup mode refers that when there is any data on the universal of network, the CA-AN08 won't send any data to universal of network. Only when the universal of network is no any data, then the CA-AN08 will receive the data from DMX IN port and send it to the universal of network simultaneously.

3) 1-8 DMX output

Any of the port 1-8 also can be set as Output or Disabled 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 and secondly. The unit will compare the two universal and resend the later one 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)
RDM means the port output can support Remote Device Manager.
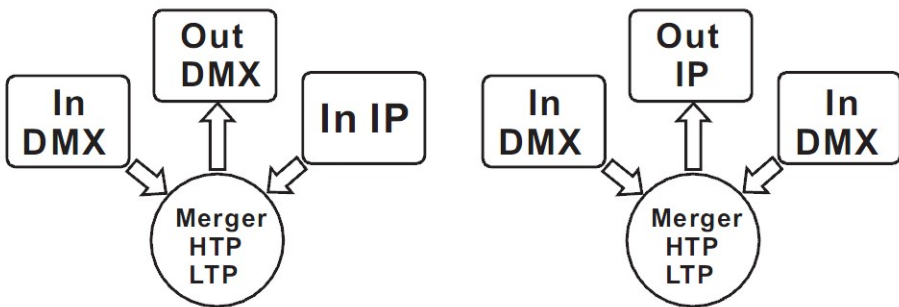
4) 1-8 DMX port disabled

Any of the port 1-8 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, pressing UP and DOWN to choose the **Set ID NO.** option, then press the ENTER to confirm your selection. You can set 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 the UP and 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
```

4.2.7 Set LED Brightness

Enter into the main menu by press MENU button, then pressing the UP and DOWN to choose the **Set LED Brightness** and then press the ENTER button to confirm your selection. You can adjust the brightness from 000 to 010.
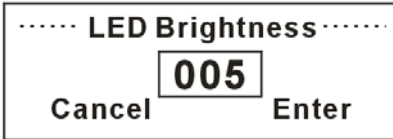

4.2.8 User Preset

Enter into the main menu by press MENU button, then pressing the UP and 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, and confirm your choose by pressing ENTER..

1) **8 x Input:** Make the 8 DMX port as Input status.
2) **8 x Output:** Make the 8 DMX port as Output status.
3) **DMX Split 2>8 HTP:** This setting will split the DMX signal. DMX signal input from port A&B, and output from port 1 to 8. It will be HTP mode, the port which signal is better will be prior .
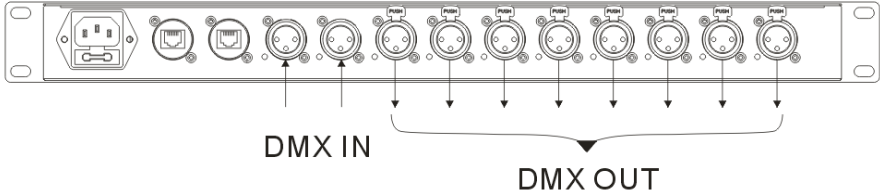
DMX Split 2>8 HTP
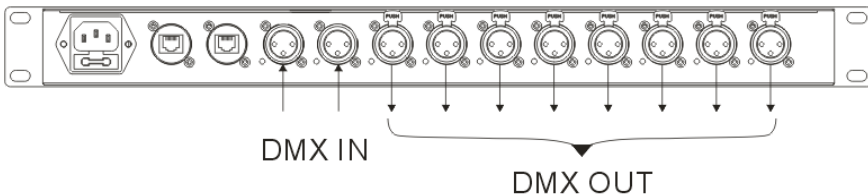
4) **DMX Split 2>8 LTP:** This setting will split the DMX signal. DMX signal
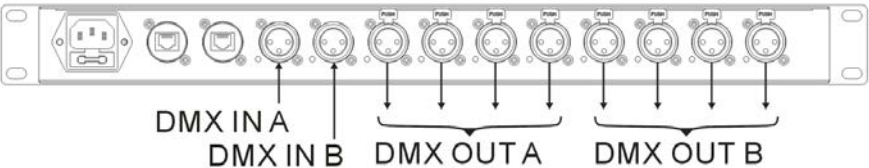
input from port A&B, and output from port 1 to 8. It will be LTP mode, the port which signal change later will be prior .

DMX Split 2>8 LTP

DMX IN

DMX OUT

5) **DMX Split 1>4 2>8:** This setting will split the DMX signal. DMX signal which input from port A will output from port 1 to 4. DMX signal which input from port B will output from port 5-8.
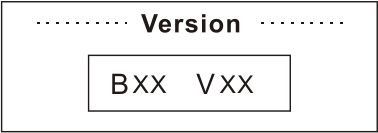
DMX Split 1>4 2>8

DMX IN A
DMX IN B   DMX OUT A   DMX OUT B

6) **Scene Handle:** You can Run/Save/Delete scene.

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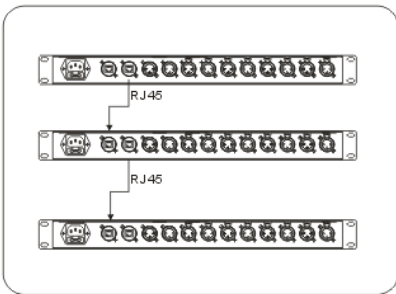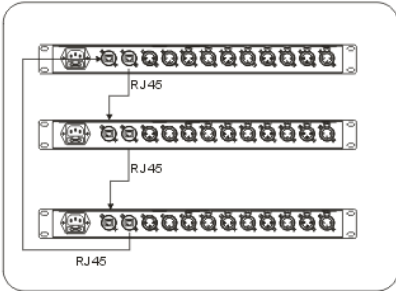
4.2.9 Version

You can check the version number from this option.

········ **Version** ········

BXX   VXX

5. Application Diagram

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

Technical Specification

Power Supply：AC100-240V, 50/60Hz

Dimensions/ Weight： 482x44x155mm 2.0kgs
                    19.0"x1.7"x6.1"in, 4.4lbs