ART-NET DMX-1024 PoE Box (ATD-1024 Pro)

Instructions

1. Introduction

ART-NET DMX-1024 PoE Network Box (ATD-1024 Pro) is a DMX 1024 channel gateway controller designed by DOREMiDi. ATD-1024 Pro can connect DMX devices with 3Pin XLR interface to the local area network, supports DMX input/output between network and DMX devices, IP address setting, and Universe setting, so that the computer can remotely control DMX devices through the local area network. In addition, ATD-1024 Pro supports PoE (Power Over Ethernet), and the product can be powered by a local area network with PoE function. ATD-1024 Pro has an operation panel, and parameters such as IP address/Universe/DMX data direction can be set directly on the product.

2. Appearance

❶ ❷ XLR interface: Connect devices with DMX function through 3Pin XLR cable, with working indicator light, flashing when there is DMX message communication.

❸ DC IN 5V~9V: Product power supply interface, use DC5.5*2.1 plug (positive inside and negative outside) to power the product, power supply voltage 5V~9VDC.

❸ LAN/PoE: Ethernet interface, connect Ethernet devices such as routers, switches, etc. through network cables, with working indicator light. Can connect network devices with PoE function to power the product.

❺ Display: Display screen, display product working parameters, IP address, Universe, DMX communication direction, etc.

❻ Knob: Set device parameters, long press to enter the menu, click to select parameters, rotate to adjust parameters.

3. Product Parameters

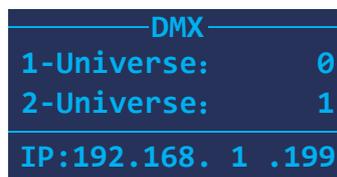| Name	Description
Model	ATD-1024 Pro
Size (L x W x H)	88*79*52mm
Weight	180g
XLR Interface	2 standard 3Pin XLR interfaces, each interface has 512 DMX channels
PoE Ethernet Interface	Ethernet ART-NET interface with PoE function

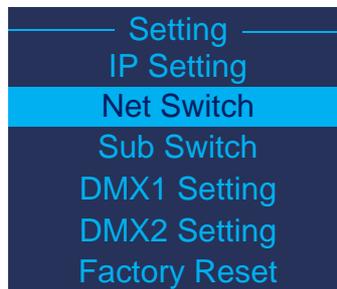| DC In Interface	Use DC 5V~9V power supply
Power consumption	200mA@5V/9V
Indicator Light	Network communication indicator, XLR interface working indicator
XLR Compatibility	Compatible with all DMX devices with 3Pin XLR interface

4. Steps for usage

4.1. Connection: Supply power to ATD-1024 Pro through DC IN, DMX OUT is connected to DMX device using 3Pin XLR cable, ART NET LAN is connected to switch or router through network cable.
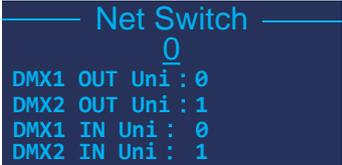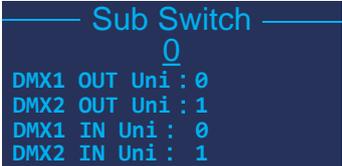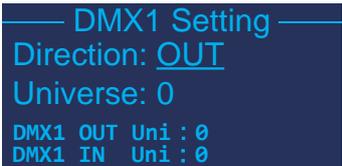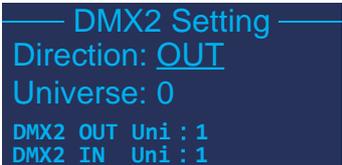
4.2. Set the working parameters of the product

After the product is turned on, enter the main interface, which displays the universe and IP address of the product DMX1 and DMX2, as shown in the figure:

```
────DMX────
1-Universe:        0
2-Universe:        1

IP:192.168. 1 .199
```

Long press the knob to enter the menu to set parameters, and rotate the knob to select different setting items: IP Setting / Net Switch / Sub Switch / DMX1 Setting / DMX2 Setting / Factory Setting. Click a setting item to enter the setting, and long press the knob to return to the previous interface.
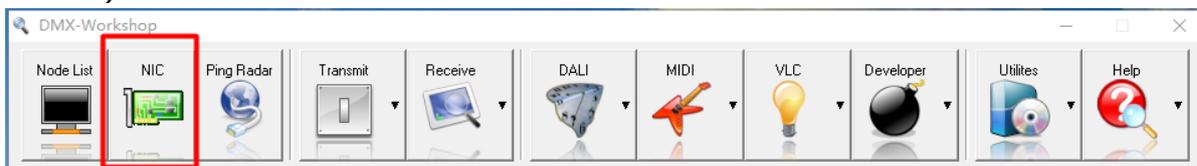
```
─── Setting ───
IP Setting
Net Switch
Sub Switch
DMX1 Setting
DMX2 Setting
Factory Reset
```

Name	Display	Description
IP Setting	```──── IP Setting ────
Mode : STATIC
IP : 192.168.1 .199
Sub: 255.255.255.0
GW : 192.168.1 .1```	Mode: The mode in which the product obtains the IP address. STATIC: Static IP, the product will use a static IP address. DHCP: The router/switch with DHCP assigns the IP address to the product. The following parameters are only valid when Mode = STATIC: IP: Set a static IP address. Sub: Set the subnet mask. GW: Set the gateway address, that is, the IP address of the router/switch to which the product is connected.
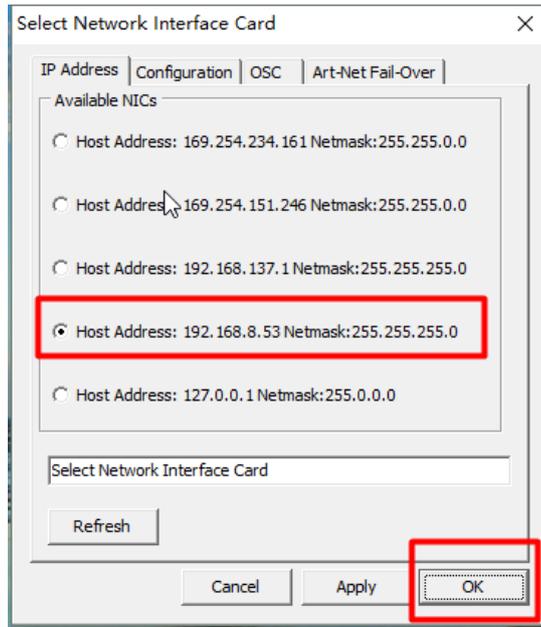
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Net Switch	─── Net Switch ─── 0 DMX1 OUT Uni : 0 DMX2 OUT Uni : 1 DMX1 IN Uni : 0 DMX2 IN Uni : 1	Set the universe address of DMX1 and DMX2. The universe is composed of Net, Sub and DMX1/2 Setting universes, following the following conversion: DMX Universe = Net*256 + Sub*16+ Universe
Sub Switch	─── Sub Switch ─── 0 DMX1 OUT Uni : 0 DMX2 OUT Uni : 1 DMX1 IN Uni : 0 DMX2 IN Uni : 1	
DMX1 Setting	─── DMX1 Setting ─── Direction: OUT Universe: 0 DMX1 OUT Uni : 0 DMX1 IN Uni : 0	Direction: Set the data direction of DMX1. OUT: Output DMX message, IN: Input DMX message. Universe: Set DMX1 Universe.
DMX2 Setting	─── DMX2 Setting ─── Direction: OUT Universe: 0 DMX2 OUT Uni : 1 DMX2 IN Uni : 1	Direction: Set the data direction of DMX2. OUT: Output DMX message, IN: Input DMX message. Universe: Set DMX2 Universe.
Factory Reset	Factory Reset? No Yes	After factory reset, the following parameters are used by default: Mode = STATIC IP = 192.168.1.199 Sub = 255.255.255.0 GW = 192.168.1.1

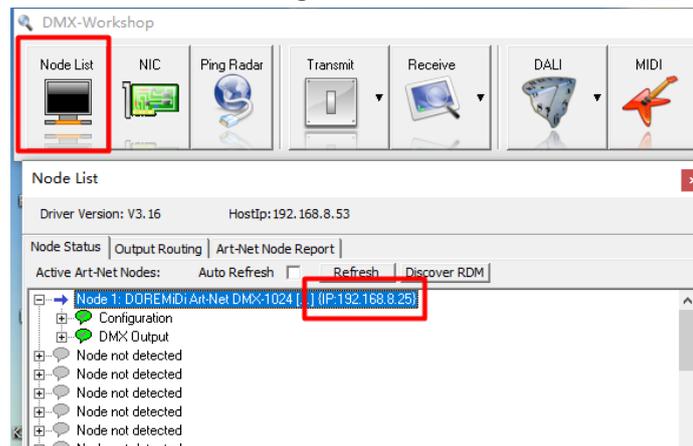4.3. Use DMX-Workshop to set the IP address of ATD-1024 Pro

ATD-1024 Pro supports remote setting of IP address, Universe and other parameters using DMX-Workshop, taking IP address as an example.

● Download "DMX-Workshop", and install "DMX-Workshop" according to the prompts.

● DMX-Workshop download link: https://www.doremidi.cn/h-pd-39.html?fromColId=104

● Open "DMX-Workshop" and click "NIC", select "Host Address: 192.168.8.53 Netmask: 255.255.255.0" and click "OK". As shown: *(Note: The IP address of each computer may be different)*
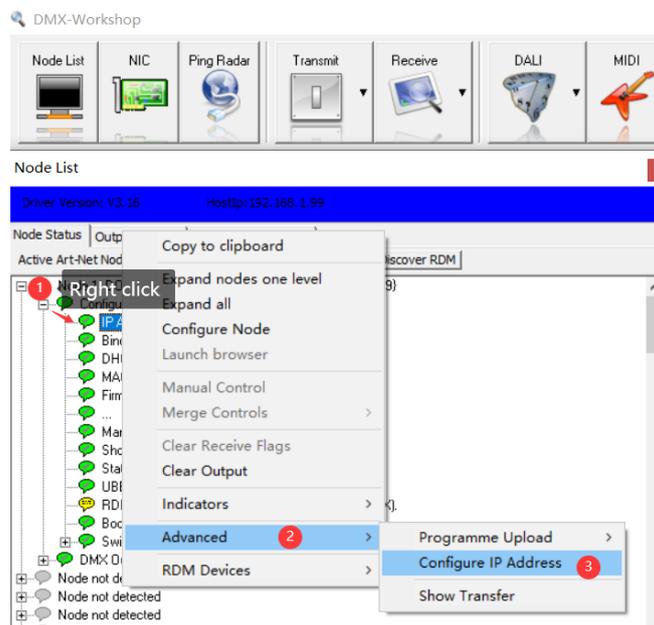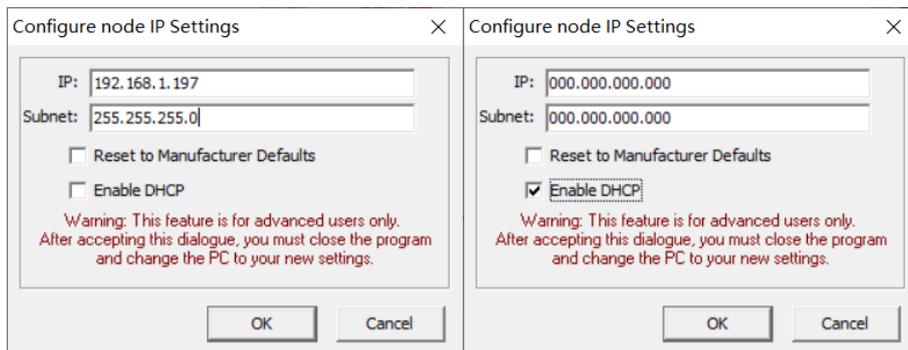
- Click "Node List" to find the IP address of the box and record it *(note: the IP address of each box is different)*, as shown in the figure, the IP address is 192.168.8.25. As shown:

- Open DMX-Workshop, select "DOREMiDi Art-Net DMX-1024", enter the configuration IP address, as shown in the figure:
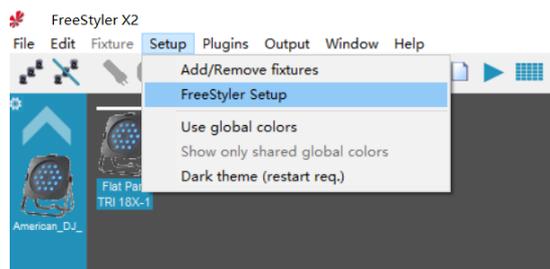
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- Set a static IP address, the subnet generally uses 255.255.255.0. If you want to change the ATD-1024 to obtain the IP function automatically, you need to enable DHCP. After enabling, the ATD-1024 will use the automatic IP acquisition function.
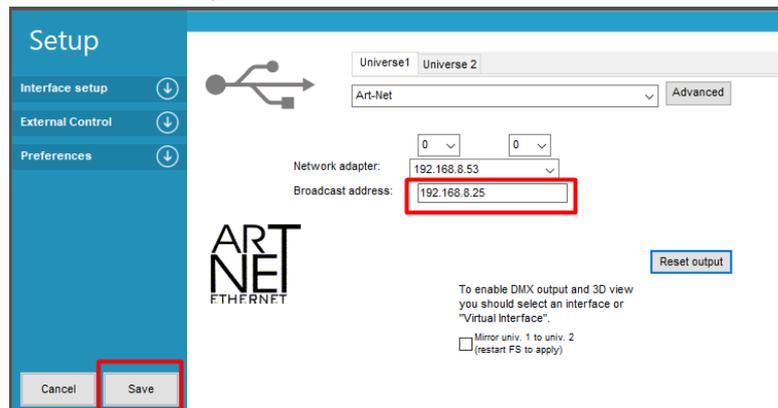

- Similarly, you can set the product's Universe in DMX-Workshop. For details, refer to the instructions of the software.

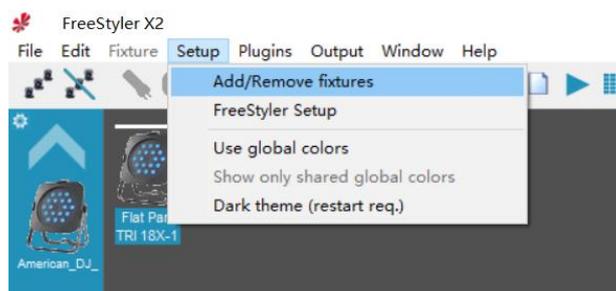4.4. Software settings: Take FreeStyle X2 as an example
- Install FreeStyle X2 software:
    FreeStyle software download link: www.freestylerdmx.be
- Open the "FreeStyler" software, click "Setup" and select "FreeStyler Setup". As shown:

- Fill in the obtained IP address, and then click "Save". As shown:

- Open "Setup→Add/Remove fixtures" to add/remove the DMX devices that need to be controlled. As shown:

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5. Precautions

5.1. This product contains a circuit board.

5.2. Rain or immersion in water may cause the product to malfunction.

5.3. Do not heat, press, or damage internal components.

5.4. Non-professional maintenance personnel are not allowed to disassemble the product.

5.5. The working voltage of the product is 5VDC, using a voltage lower or exceeding this voltage may cause the product to fail to work or be damaged.

1. Q&A

6.1. Question: In DHCP mode, the IP address of the product cannot be obtained.
Answer: Please refer to the following:
- Please make sure that your router/switch has DHCP function;
- Please make sure that the computer and the product are in the same LAN;
- Please try to turn off the computer firewall before setting.

6.2. Question: In STATIC mode, the computer software cannot discover the device or cannot connect to the device.
Answer: Please refer to the following:
- Please make sure that the static IP address of the product is not repeated with other devices in the LAN.
- Please make sure that the gateway IP of the product is set correctly and is the IP address of the router/switch in the network.
- Art-Net uses UDP communication, please check whether your router/switch has limited UDP function.

6.3. Question: After connecting to DMX lamps, the lights cannot be controlled normally.
Answer: Please make sure that the DMX channel sent is consistent with the lamps.

6.4. Question: What software can use this device.
Answer: ATD-1024Pro is a standard Art-Net device. Generally speaking, as long as the software supports Art-Net, it can be used. However, some software will restrict the use of other devices. Please check whether your software has similar restrictions.

If the problem is not resolved, please contact customer service.

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