



General

Product Type	Converter
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Electronics

Input Domain	DC
Power Supply	N/A
LED Outputs	1

Control

Output Signal	DMX
Control	ArtNet
Dimming Range	0~100%
Dimming Curve	Linear
Driver Configuration	Dip Switches

Protection

Reverse Polarity	Yes
LED Output Short	Yes
Overload	Yes

Environmental

Operating Temperature	-20 ~ +65 °C
Ingress Protection	IP44

CE IP44 5^{year}
warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

Artnet-DMX-1 Artnet-DMX Converter



FC CE RoHS

warranty
5 years



Artnet-DMX converter is the Ethernet Control System based on the Artnet protocol, used to convert the Artnet network data package into DMX512 data, adopting high-speed ARM processor, stable and reliable working. Following Artnet standard protocol, it supports RJ45 network interface and standard DMX512 output interface.

Artnet-DMX-1 can be configured in one of two ways: Artnet convert into DMX512, or DMX512 convert into Artnet.

It is compatible with all the effects lighting control software which support Artnet protocol, widely used in the LED dot matrix and the stage lighting control network in needing lots of DMX512 data, especially for TV station recorded scene, stage performances, entertainment and so on.

1. Technical specs

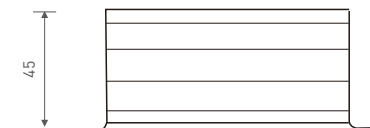
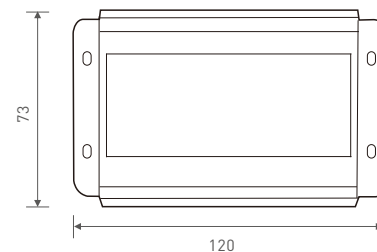
Artnet-DMX-1

Power input:	12Vdc (with a power adapter)	Network Connection:	RJ45
Input signal:	Artnet/DMX512	Isolation Ethernet Port:	Transformer isolation
Output signal:	DMX512/Artnet	Working temperature:	-30°C~65°C
DMX channels:	512 channels	Dimension:	L120×W73×H45mm
Current:	30mA@12Vdc	Package Size:	L198×W78×H50mm
IP:	Indoor use only	Weight (G.W):	360g
DMX Output Connection: 3-pin XLR			

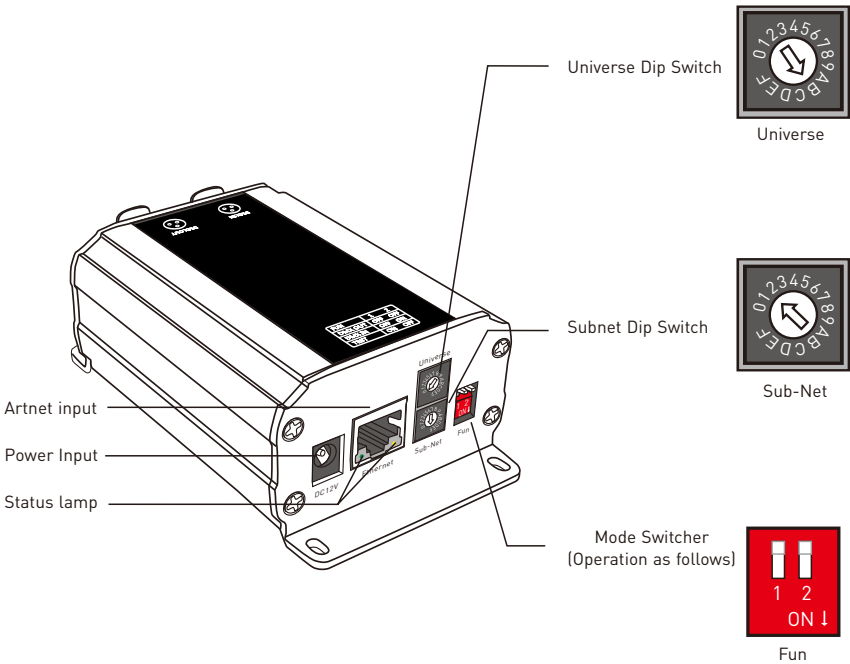
2. Performance features

- 2.1 Based on Artnet protocol network data communication, accept network DMX data;
- 2.2 IP address is bound to Subnet, no need to reset, plug and play.
- 2.3 Manage Artnet on broadcast mode or unicast mode.
- 2.4 1 group input, 1 group output.
- 2.5 Firmware can be updated via the network.
- 2.6 Compatible with the light software based on Artnet Protocol, control stage lighting and LED lighting simultaneously.
- 2.7 Connect up to 256 DMX Universes to one network.
- 2.8 10BaseT Ethernet Port.
- 2.9 Data activity indicators
- 2.10 Configurable DMX output refresh rates.

3. Product dimension



4. Interface instruction

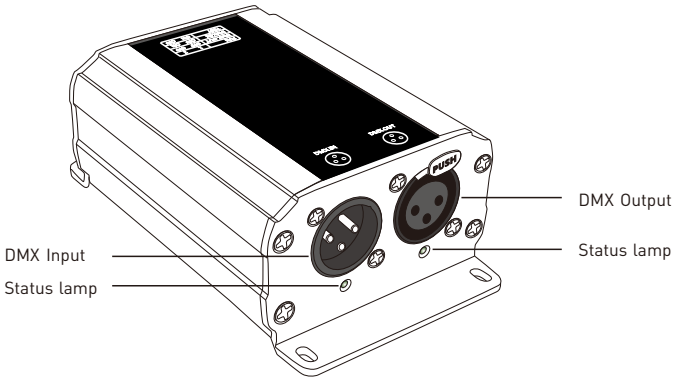


Switching modes operation instruction :

1	2	Diagrams	Functions
OFF	OFF		Artnet to DMX512 mode
OFF	ON		DMX512 to Artnet mode
ON	OFF		Testing function, generates 170 pixels full color gradient floating DMX data.

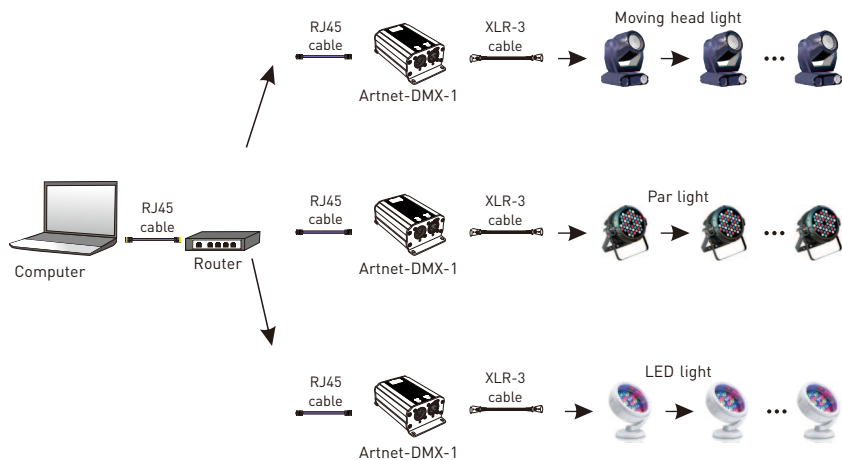
Address setting instruction:

Universe/Sub-Net Dip Switch	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Value	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Calculating method: Group address= Subnet×16 + Universe, IP Address=2.xx.xx.Group Address, MAC Address=44-4d-58-2d-31-Group Address (xx is the random number generated by the factory)																
For example: Subnet: 2, Universe: B, Group Address=2×16 + 11 = 43, so the DMX output group address is 43, Corresponding IP address is 2.xx.xx.43, MAC address is 44-4d-58-2d-31-43.																

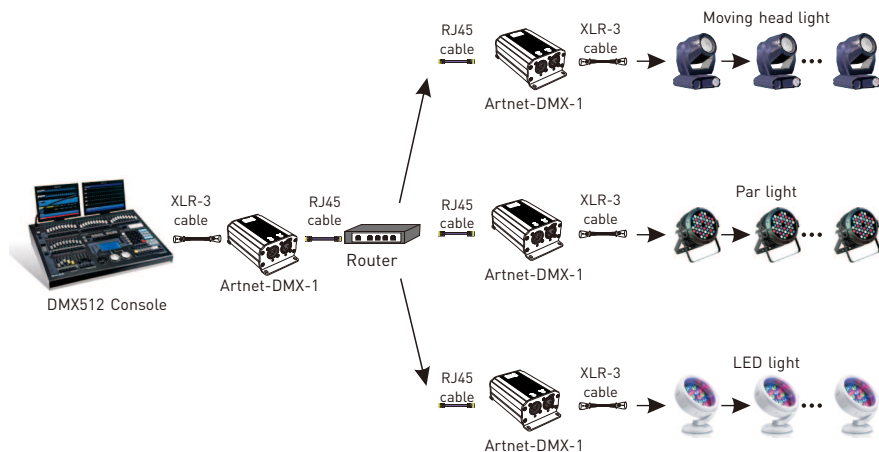


		1
		GND
		2
		DATA-
		3
		DATA+

5. Conjunction diagram



ArtNet to DMX mode

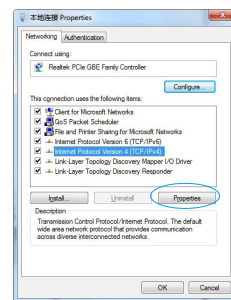


DMX to ArtNet mode

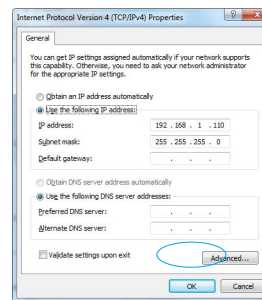
6. Connect ArtNet-DMX-1 to the computer

This product is compatible with all the ArtNet software in the market, here take MADRIX as an example:

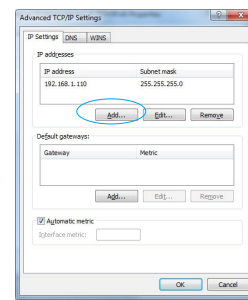
- 6.1 Install the Madrix 3 software in the computer, the icon on the desktop : 
- 6.2 Use the equipped adapter to power ArtNet-DMX-1.
- 6.3 Connect ArtNet-DMX-1 and computer via the cable.
- 6.4 IP setting: this control system is compatible with random network segment. According to the ArtNet protocol, 2.X.X.X can be added in the computer (X means arbitrary value), methods as below:



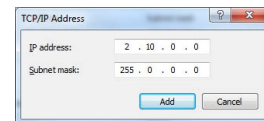
6.4.1 Open the Network, click "Properties" button of the TCP/IPV4 protocol.



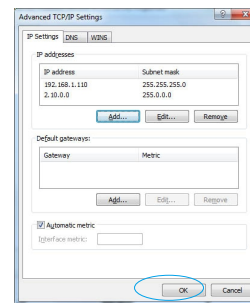
6.4.2 Click "Advanced".



6.4.3 Click "Add".

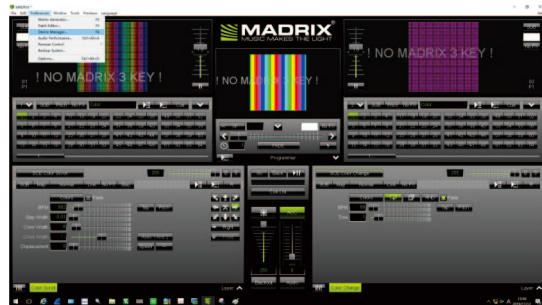


6.4.4 Add the IP address 2.X.X.X (X could be arbitrary value).

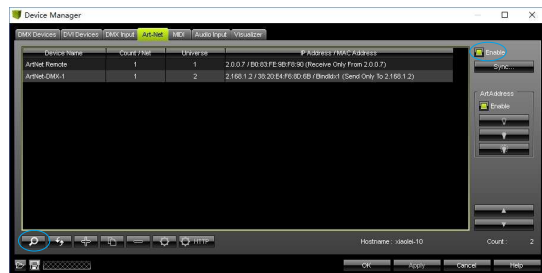


6.4.5 Interface of adding successful, click "OK" and exit.

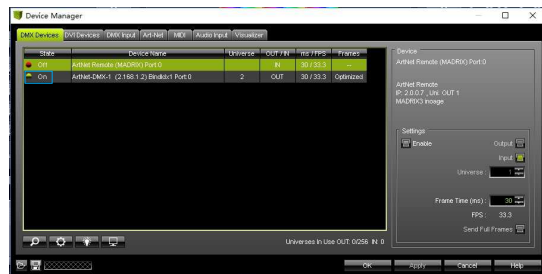
6.5 Open Madrix 3 software, choose "preferences">" device manager" from menu.



6.6 In "device manager" dialog, choose "ArtNet" tab, tick "enable" and click search . Artnet-DMX-1 will be searched.



6.7 Click the tab of "DMX devices", set port status to "ON" if connected successfully. Now, you can use computer to control lamps via ArtNet-DMX-1.



* MADRIX® is registered trademarks of Inoage GmbH Co., Inc. in Germany.

7. Attention

- 7.1 The product shall be installed and serviced by the qualified person.
- 7.2 This product is non-waterproof. Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 7.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 7.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 7.5 Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 7.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7.7 If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

8. Warranty agreement

- 8.1 We provide lifelong technical assistance with this product:
 - A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
 - For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.
- 8.2 Warranty exclusions below:
 - Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
 - The product appears to have excessive physical damage.
 - Damage due to natural disasters and force majeure.
 - Warranty label, fragile label and unique barcode label have been damaged.
 - The product has been replaced by a brand new product.
- 8.3 Repair or replacement as provided under this warranty is the exclusive remedy to the customer. We shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
- 8.4 Any amendment or adjustment to this warranty must be approved in writing by our company only.

* No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact your supplier if any question.