LTECH

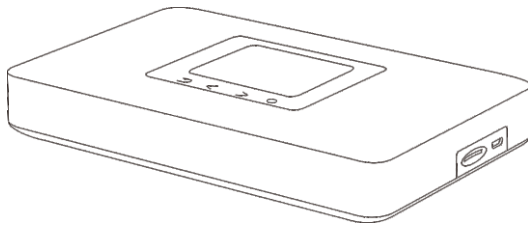## Artnet-DMX Control System

Artnet-DMX-8S

Feel grateful, Fighting Innovation, win-win

Manual

ART NET ETHERNET

LTECH

www.ltech-led.com

Product Introduction

- Ethernet Control System based on the Artnet protocol.

- Convert the Artnet network data package into DMX512 data.

- Adopting high-speed ARM processor, stable and reliable.

- Supports RJ45 network interface and DMX512 with RJ45 output interface.

- With TFT 2.4" LCD screen and 4 touch keys, very easy for setting operation.

- Update firmware via SD card or network.

- Support program record.

- Support offline playback.

- Compatible with the light software based on Artnet Protocol.

- Widely used in the LED dot matrix and the stage lighting control network in needing lots of DMX512 data.

- Suitable for TV station recorded scene, stage performances, entertainment and so on.

DMX8   DMX7   DMX6   DMX5   DMX4   DMX3   DMX2   DMX1   ETHERNET
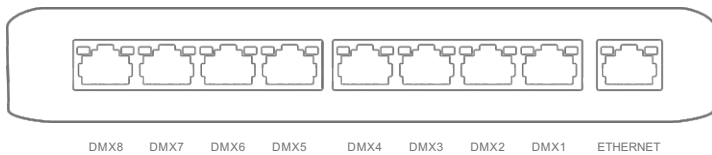
Technical Specs

Artnet-DMX-8S

Power input:	5Vdc, 1A	Screen size:	2.4˝, TFT 320 * 240
Input signal:	Ethernet	Isolation ethernet port:	Total isolation
Output signal:	8 universe	Isolation power input:	Total isolation
Network protocol:	Artnet Input / DMX output	Working temperature:	-30℃~55℃
SD card capability:	8G (support Max.16G)	Dimension:	L185×W115×H29mm
DMX output connection:	RJ45	Package size:	L192×W164×H36mm
Network connection:	RJ45	Weight (G.W):	400g

Package Contents
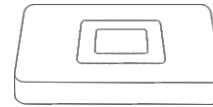
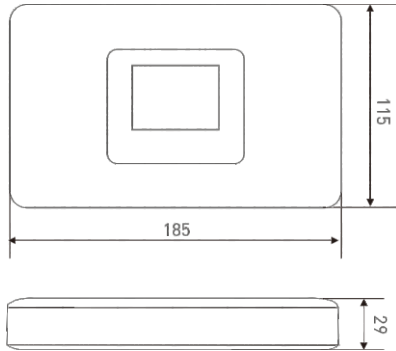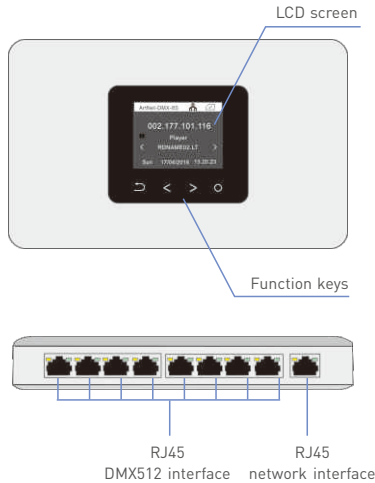Control System 1pcs

Power Adapter 1pcs
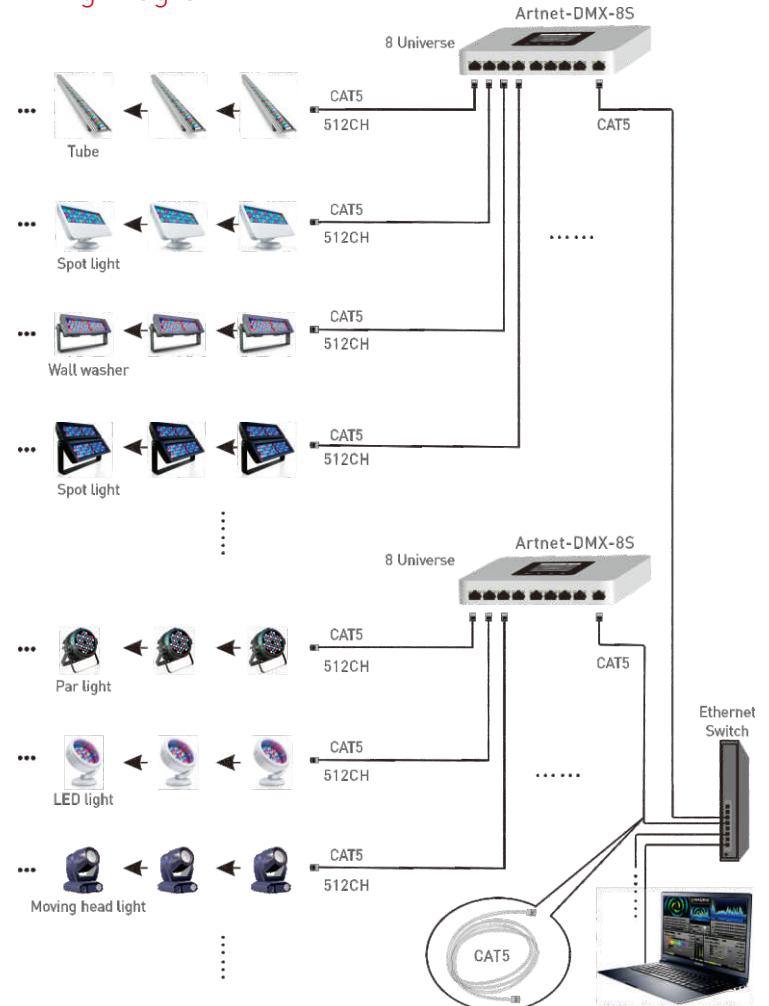
SD card (8G) 1pcs

Manual 1pcs

Product Size

The unit: mm

115

185

29

Main Component Description

LCD screen

Artnet-DMX-8S
002.177.101.116
Player
RDNAME02.LT
Sun 17/04/2018 15:20:23

Power input

SD card slot

Function keys

RJ45
DMX512 interface

RJ45
network interface

3

Wiring Diagram

Artnet-DMX-8S

8 Universe

CAT5

CAT5

CAT5
512CH

Tube

CAT5
512CH

Spot light

CAT5
512CH

Wall washer

CAT5
512CH

Spot light

Artnet-DMX-8S

8 Universe

CAT5
512CH

CAT5

Par light

CAT5
512CH

LED light

CAT5
512CH

Moving head light

Ethernet
Switch

CAT5

4

Connect ArtNet-DMX-8S to the Computer

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

1. Install the Madrix 3 software in the computer, the icon on the desktop :

MADRIX 3

2. Use the equipped adapter to power ArtNet-DMX-8S.

3. Connect ArtNet-DMX-8S and computer via the cable.

4. IP Setting: This control system is compatible with random network segment. According to the ArtNet protocol, 2.X.X.X or 10.X.X.X can be added in the computer (X means arbitrary value), methods as below:
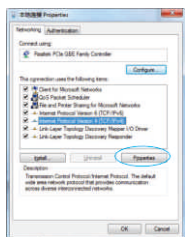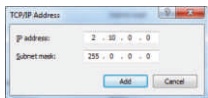
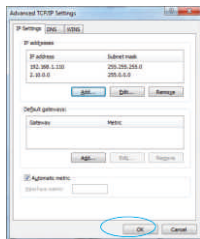4.1 Open the Network, click ˝Properties˝ button of the TCP/IPv4 protocol.
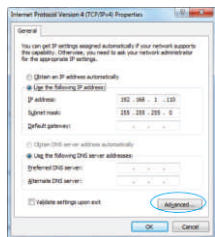
4.2 Click ˝ Advanced˝.
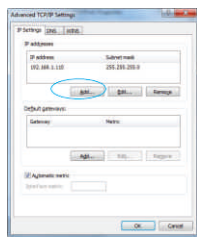
4.3 Click ˝ Add˝.

4.4 Add the IP address 2.X.X.X or 10.X.X.X (X could be arbitrary value).

4.5 Interface of adding successful, click ˝OK˝ and exit.

5. Open Madrix 3 software, choose˝preferences˝ > ˝ device manager˝ from menu.

6. In ˝device manager˝ dialog, choose ˝ArtNet˝ tab, tick ˝enable˝ and click search , Artnet-DMX-8S will be searched.

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-8S.
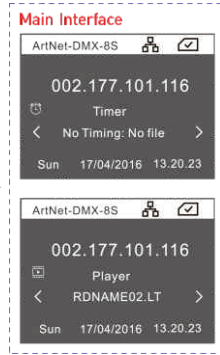
✳ MADRIX© is a registered trademark of Inoage GMbH Co., Inc. in Germany.

LCD Screen Interface Diagram

Playlist

Play List

| List | Recorder |

File Name: RDNAME061.LT

File Time: 00:00 ▶

114102KB/127732KB

Play List

| List | Recorder |

‹ 01. Play List 01 ›

01.RDNAME01.LT
02.RDNAME02.LT ✓
03.RDNAME03.LT ✓
04.RDNAME04.LT

Timing

Timing01

| Date | Week |

Start Date: 2016.03.28 08:00
End Date: 2016.03.29 22:00

＋ 01.RDNAME01.LT
02.RDNAME02.LT
03.RDNAME03.LT
04.RDNAME04.LT

Timing01

| Date | Week |

Weed Day: Mon
Start: 00:00   End. 00:00

＋ 01.RDNAME01.LT
02.RDNAME02.LT
03.RDNAME03.LT
04.RDNAME04.LT

Timer

Timer List

1. Timing01
2. Timing 02 ✓
3. Timing 03
4. Timing 04

Network

Network

| IP | ArtNet |

         Universe
ArtNet----->DMX1   000
ArtNet----->DMX2   001
ArtNet----->DMX2   002
ArtNet----->DMX4   003

Network

| IP | ArtNet |

IP: 002.111.056.115
MASK: 255.000.000.000
GATE: 002.000.000.001

Long press ⊃ to switch main interface
Press O to enter menu

Main Interface

ArtNet-DMX-8S

002.177.101.116

⏲ Timer
‹ No Timing: No file ›

Sun   17/04/2016   13.20.23

ArtNet-DMX-8S

002.177.101.116

⊡ Player
‹ RDNAME02.LT ›

Sun   17/04/2016   13.20.23

Boot interface

LTECH

Menu

Menu

▶ Play List   ⏰ Timers   🖧 Network

⚙ Setting   🔧 Tools   📋 Info

Setting

Setting

| Clock | Location |

    Day   Mon   Year
Date: 29   03   2016
    Hour   Min   Sec
Time: 13   25   30

Setting

| Clock | Location |

Time Zone   UTC-07:00
DST Active

Mon/ Day Hour: Min   Mon/day Hour: Min
01/01   00:00   00/00   00: 00

Tools

Tools

| Monitor | Upgrade | Default |

DMX ----->   1

Tools

| Monitor | Upgrade | Default |

System Load Default...
Memory Card Format

Yes   No

Tools

| Monitor | Upgrade | Default |

V1.00.00   May 11.2016   11.05.45

1.ARTNET.BIN

0%

Information

Info

| Version | Help |

Device Type: ArtNet-DMX-8S
Soft Date: May 11 2016 11.06.46
Soft Version: V1.00.00
MAC: 61.72.74.6e:65:74
Memory: 7701940KB/7706624KB

Info

| Version | Help |

how to item navigate
Press 'O' key to open the menus. Item navigate
with the help of the '<' or '>' key, when you are
have selected target menu, press 'O' key to enter
it.

how to edit value
Press 'O' key and hold for 2 second. You can find
the vaule which you want to edit is inverted. Now
you can
change the value, use the '<' or '>' or 'O' keys
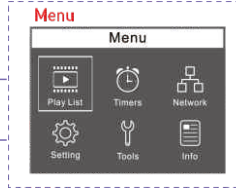for editing and press '⌐' key to quit the menu.
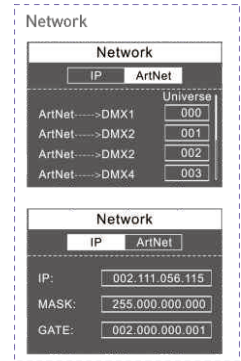
Touch Key

⊃   ‹   ›   O
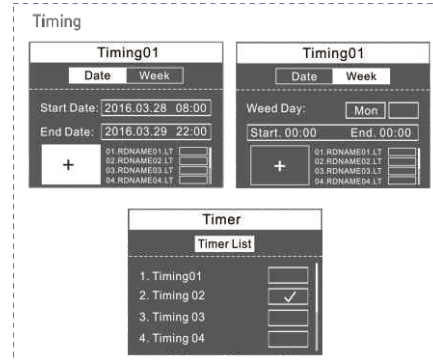
Back key   Setting key
             (long press to enter submenu)

Parameter adjusting key
Entries switching key

Playlist

Menu

Press "<" / ">" keys to switch functions. When [ ] appears in the box, press "O" key to enter submenu of Playlist.

Submenu

List   Recorder

Press "<" / ">" keys to switch tab of "List" and "Recorder".

Long press "O" to set, [01. Play List 01] highlighted, press "<" / ">" keys to switch Playlist01~16.

Long press "O" to program selection; [01.RDNAME01.LT] highlighted, press "<" / ">" keys to switch RDNAME01~16

Short press "O", tick " ✓ " in the box.
(means the program has been selected by the playlist)

List

For example: set Playlist04 include two programs: RDNAME02, RDNAME05.

Long press "O", [01. Play List 01] highlighted, press ">" keys to [04. Play List 04] ; Long press "O", [01.RDNAME01.LT] highlighted, press ">" keys to [02.RDNAME02.LT] , short press "O", tick " ✓ " in its box; Press ">" keys to [05.RDNAME05.LT] short press "O", tick " ✓ " in its box. OK, complete.
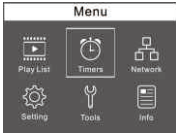
Recording Function

Long press "O" into prerecorded state, short press "O" to switch ▶ ⏸ .(▶ pause, ⏸ record)

Support to record 16 programs. (RDNAME01.LT-RDNAME16.LT)

[114102KB/127732KB] Digital changes indicate the program is recording. Recorded programs will appear in the list.

Recorder

Timers

Menu

Press "<" / ">" keys to switch functions. When [ ] appears in the box, press "O" key to enter submenu of Timers.

Submenu

Long press "O", [1. Timing01] highlighted,

Press "<"/">" keys to switch Timing01 ~06, short press "O"to tick"✓" in its box. (means the timing has been selected).

Long press "O" to the next submenu.

Submenu

Date   Week

When [+] highlighted, long press "O" key into selection of timing programs, then [01.RDNAME01.LT] highlighted, press "<"/">" keys to switch program, short press "O" to tick " ✓ " in the box. (means selected)

For example: set Timing03 as every 19:00-21:00 during December 7th -25th, 2016, to play the programs RDNAME04 and RDNAME07.

Long press "O", [1. Timing01] highlighted, press ">" keys to [3. Timing03] ; short press "O" to tick " ✓ " in its box; Long press "O" into its submenu, press ">" to [Date   W .

Long press "O", the year of Start Date highlighted [Start Date: 2016 03 28] , press ">" keys to adjust to 2016; short press "O" to month [2016 03 28] , press ">" keys to adjust to 12; short press "O" to date [2016.12 28] , press ">" keys to adjust to 7; short press "O" to time [12.07 08 00] , press ">" keys to adjust to 19:00. OK, Start date setup finished. [Start Date: 2016.12.07 19:00]

Short press "O", the year of End Date highlighted [End Date 2016 03 29] , press ">" keys to adjust to 2016; short press "O" to month [2016 03 29] , press ">" keys to adjust to 12; short press "O" to date [2016.12 29] , press ">" keys to adjust to 25. short press "O" to time [12.25 22 00] , press ">" keys to adjust to 21:00. OK, End date setup finished. [End Date: 2016.12.25 21:00]

Short press "O" to [+] , then long press "O", [01.RDNAME01.] highlighted, press ">" keys to [04.RDNAME04.] , short press "O" to tick " ✓ " in its box; press ">" keys to [07.RDNAME07.] , short press "O" to tick " ✓ " in its box.
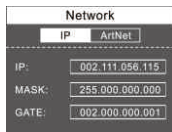
Network

Menu
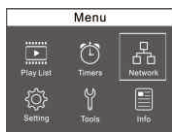
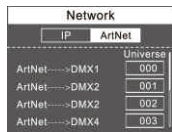Press "<" ">" keys to switch functions. When [icon] appears in the box, press "O" key to enter submenu of Network.
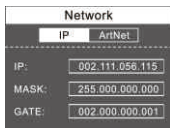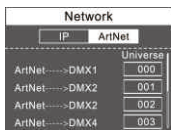
Submenu

IP   Artnet

Press "<" / ">" keys to switch tab of ¨IP¨ and ¨Artnet¨.

IP Setting:

Long press "O", the IP value highlighted [IP: 002] , press ¨<¨/ ¨>¨key to adjust value, short press ¨O¨ to switch to next number.

Please set ArtNet-DMX-8S at same network segment as computer IP, factory default of ArtNet-DMX-8S is 2.X.X.X.

Artnet Setting:

Long press "O", [ArtNet----->DMX1] highlighted, press ¨<¨/ ¨>¨key to adjust value, short press ¨O¨ to switch DMX1~DMX8.

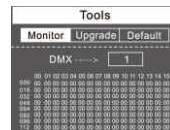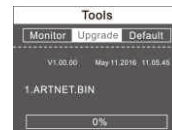Process the setting according to the actual construction channels.

Tools

Menu

Press "<" / ">" keys to switch functions. When [icon] appears in the box, press "O" key to enter submenu of Tools.

Submenu

Monitor   Software Update   Default
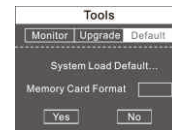
Press "<" / ">" keys to switch tab of ¨ Monitor¨, ¨Update¨ and ¨Default¨.
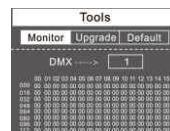
Long press ¨O¨, [DMX -----> 1] highlighted, Press "<"/">" key to view the data output of DMX1~DMX8, short press "O" to flip over.

Monitor

Long press "O" can update ARTNET-DMX-8S with the file in SD card.
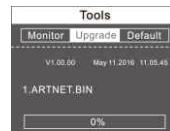
Software Update
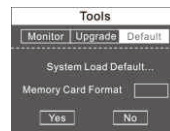
Long press "O", [Yes] highlighted, long press "O" again to back to factory default setting.

Default

Setting

Menu

Press "<" / ">" keys to switch functions. When ⚙ appears in the box, press "O" key to enter submenu of Setting.

Submenu

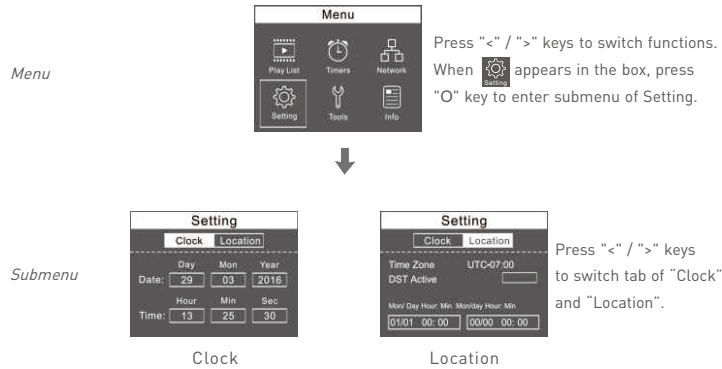Clock

Location

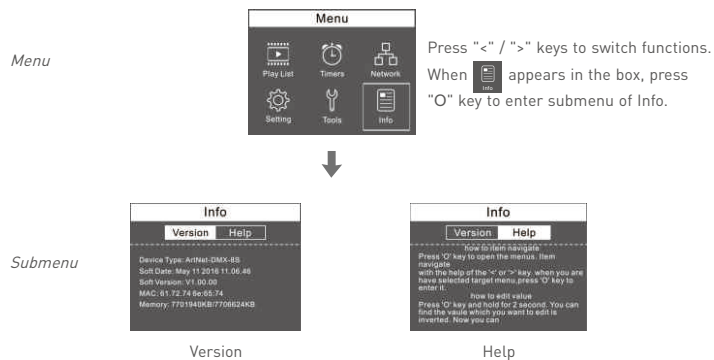Press "<" / ">" keys to switch tab of "Clock" and "Location".

Long press "O", the first value highlighted, press "<"/">" keys to adjust values, short press "O" to switch to next number.

Long press "O", Time Zone highlighted, press "<"/">" keys to adjust values, short press "O" to switch to Daylight saving time, press "<"/">" keys to tick " ✓ " in the back box, long press "O" to set Daylight saving time.

Information

Menu

Press "<" / ">" keys to switch functions. When 🗒 appears in the box, press "O" key to enter submenu of Info.

Submenu

Version

Help

Press "<"/">" to switch the tabs of "version" and "help", to view relevant information, no need to set.

Attention

1. The product shall be installed and serviced by the qualified person.

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.

3. Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.

4. Please check if the output voltage of the LED power supply used comply with the working voltage of the product.

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.

6. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

7. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

Warranty Agreement

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.

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.

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.

4. Any amendment or adjustment to this warranty must be approved in writing by our company only.

★This manual only applies to this model. We reserve the right to make changes without prior notice.