

# **SN510 MANUAL**

Version: 3.0

Model: SN-510-J10

SN-510G-J10

2021-09

# **CONTECT**

| 1. FUNCTION OVERVIEW                           |    |
|--|----|
| 2. TECHNICAL PARAMETERS                        |    |
| 2.1. PRODUCT INFORMATION                       | 1  |
| 2.2. ERROR CODE                                | 2  |
| 3. CONNECTION INSTRUCTION                      | 2  |
| 3.1. INPUT PORT                                | 2  |
| 3.2. GPS CONNECTION AND NOTES                  | 3  |
| 3.3. CASCADE CONNECTION                        | 3  |
| 3.4. DMX CONNECTION                            | 4  |
| 3.5. OPTICAL FIBER COMMUNICATION               | 4  |
| 4. BASIC OPERATION                             | 5  |
| 4.1. INTERFACE INTRODUCTION                    | 5  |
| 4.2. UNLOCK CONTROLLER                         | 5  |
| 4.3. CONTROL SETTING                           | 5  |
| 4.3.1. EFFECT                                  | 5  |
| 4.3.2. SPEED                                   | 5  |
| 4.3.3. LOOP                                    |    |
| 5. MENU SETTING                                | 6  |
| 6. ADDITIONAL FUNCTION                         | 7  |
| 6.1. CASCADE CONTROL                           | 7  |
| 6.2. DMX512 CONTROL                            | 8  |
| 6.3. TIME CONTROL                              | 9  |
| 7. ADDRESSABLE                                 | 10 |
| 7.1. CHIP SUPPORTED                            | 10 |
| 7.2. ADDRESSING SETTINGS                       | 11 |
| 7.3. RE-ADDRESSING                             | 12 |
| 7.4. PARAMETER SETTINGS                        | 12 |
| 7.5. SUCCESSFULLY ADDRESSED AND SET PARAMETERS | 13 |
| 7.6. ADDRESSING IN LED PLAYER                  | 14 |
| 8. ADDRESSING CHECK                            | 15 |
| 9. CONFIGURATE ADDRESS                         | 16 |
| 9.1. LED PALYER SETTINGS AND OUTPUT            | 16 |
| 9.2. CONTROLLER OPERATION                      | 16 |
| 10. IP SETTING IN PC                           |    |
| 11. OUTPUT SD FILE AND COPY                    |    |
| 11.1. OUTPUT SD FILE                           |    |
| 11.2. COPY BY LED PLAYER                       | _  |
| 11.3. SD CARD COPY                             | 18 |
| 12 FITTINGS                                    | 10 |

#### 1. FUNCTION OVERVIEW

- 1. Support both PC control and SD card control. Work with EN controller, can switch freely between PC control and SD card control which is flexible and convenient.
- 2. When SN-510 works as master controller in intelligent control system, the animations of EN controller at the same link can be changed by just changing effect files in the SD card. The SD card file cannot be renamed.
- 3. Each SN-510 can control 300,000 channels or 154pcs controllers when it works as master controller in SD card control.
- 4. Time control, cascade sync, GPS satellite sync and DMX control are optional as additional functions.
- 5. Specialized software of making animation is included, user can make their own effects.
- 6. The load capacity of different lighting fixtures is different. (If frame frequency is not required, load capacity of each channel can be increased independently, and must test it in the factory.)

### 2. TECHNICAL PARAMETERS

#### 2.1. PRODUCT INFORMATION

Cover material: Iron

Input voltage: AC 100V - 240V

Cascade signal: [Cascade of SN] optocoupler

[PC - SN, SN - EN] SW Ethernet Protocol

Loading: 25FPS: 240,000 channels

30FPS: 300,000 channels

Network interface: RJ45 Ethernet interface

Output control: 154pcs controller at most (preferably no more than 80pcs).

Working power: <10W

Working temperature:  $-15^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Relative humidity:  $\leq 50\%$  RH

Transmission distance: Use UTP—unshielded twisted pair cable, distance between the controllers can be 100m.

Please add signal amplifier if the distance of SN cascade is over 100m.

For further distance of SW Ethernet Protocol, optical fiber converter can be used and the

distance can reach 5 km.

IP grade: IP20 (Prevent people from touching the components inside electrical appliance, prevent

object which diameter is more than 12.5mm from getting in, no special protection to water or

moisture.)

Working environment: 1.Please do not install the controller in magnetic, high pressure, high temperature or seriously

wet environment.

2.Please do connect the earth safely in order to reduce risks of fire and damage which cause

by short circuit.

3.Please ensure AC100-240V power supply is used, and same polarity is connected between transformer and controller in order to guarantee the proper supply voltage.

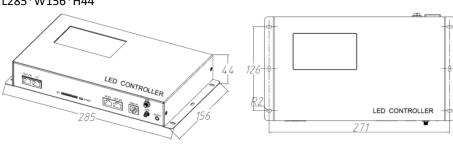
4. No waterproof function in the control system, please pay attention on rainproof and

waterproof during installing.

Net weight: 1.3kgs

Size: L285\*W156\*H44

(Unit mm)

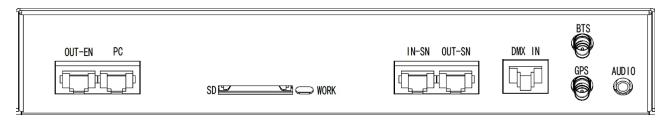


## 2.2. ERROR CODE

| Error | Introduction                                       | Reason  |
|-------|--|---|
| ER01  | No SD card   | Poor seat connection. / No SD card.                       |
| ER02  | SD card no response                                | Card is broken. / Card doesn't support read sequentially. |
| ER03  | Cannot reset SD card                               | Card is broken. / Card doesn't support read sequentially. |
| ER04  | Cannot activate SD card                            | Card is broken. / Card doesn't support read sequentially. |
| ER05  | Cannot read SD card                                | Cannot read part of the card. / Bad connection.           |
| ER06  | Cannot find feature code                           | Card is unformatted. / No file.                           |
| ER07  | SD card file sequence doesn't match the controller | SD card file error. / Unfinished video merging.           |
| ER09  | Control sequence doesn't match file sequence       | Player setting does not match the cover number.           |
| ER10  | Wrong password                                     | Input wrong password.                                     |
| ER11  | UID does not match                                 | Two UID in controller are not matched.                    |
| ER12  | UID error in config file                           | UID in player does not match the one in controller.       |
| ER13  | Controller is not fully unlocked/mismatched UID    | Controller is not fully unlocked.                         |
| ER14  | UID error in SD card                               | UID in SD card does not match the one on controller.      |

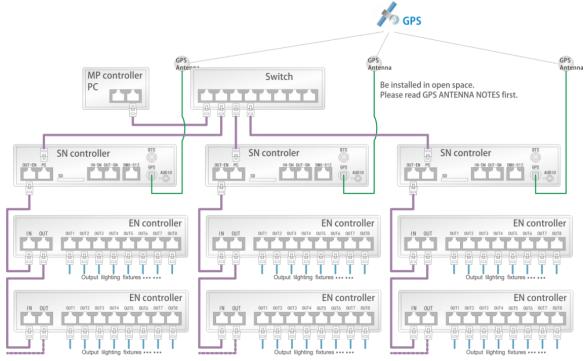
## 3. CONNECTION INSTRUCTION

## 3.1. INPUT PORT



| Interface               | Function          |   |  |  |  |  |  |  |
|-------------------------|-------------------|---|--|--|--|--|--|--|
| RJ45 port (OUT-EN)      | Output to connec  | ct EN controller.   |  |  |  |  |  |  |
|                         | Top left light    | Indicator light, flicker synchronously with system frame rate.  |  |  |  |  |  |  |
|                         | Top right light   | Data light, flicker indicates normal connection and data transmission between master controller and slave controller. |  |  |  |  |  |  |
| RJ45 port (PC)          | While connected   | with PC, it is used as an alternative scheme of the system. And it receive  |  |  |  |  |  |  |
|                         | and send data in  | priority.   |  |  |  |  |  |  |
|                         | Top left light    | Nonuse.   |  |  |  |  |  |  |
|                         | Top right light   | Data light, flicker indicates normal connection and data transmission   |  |  |  |  |  |  |
|                         |                   | between PC and master controller.   |  |  |  |  |  |  |
| SD                      | SD card slot. The | yellow light flickers while the controller reads data properly.   |  |  |  |  |  |  |
| RJ45 port (IN / OUT-SN) | Input / output of | cascade.  |  |  |  |  |  |  |
| DMX-IN                  | Accessing and be  | controlled by DMX512 console.   |  |  |  |  |  |  |
| GPS                     | GPS antenna inte  | rface. (Optional function.)   |  |  |  |  |  |  |
| BTS                     | Reserved interfac | ce.   |  |  |  |  |  |  |
| AUDIO                   | Reserved interfac | Reserved interface.   |  |  |  |  |  |  |

#### 3.2. GPS CONNECTION AND NOTES



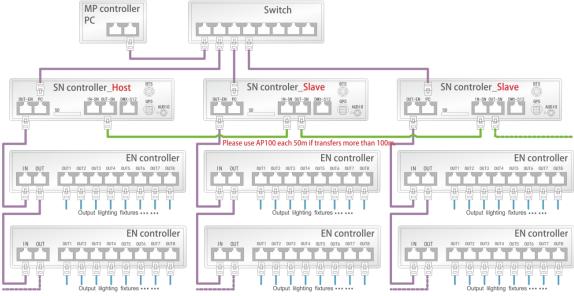
RJ45(T568B) UTP network cable (purple) must less than 100m. It will be 5kms with optical fiber. Output lighting fixtures cable refer to Signal Cables Connection Notes.

2m GPS antenna is provided. User can also purchase GPS marine antenna with standard SMA interface according to on-site engineering requirement. The longer the antenna is, the more difficult to search satellite.

#### Notes:

- a) GPS Antenna should be installed in open space to guarantee view angle within 30 degree, there is no big shades (such as trees, iron towers, buildings etc.). GPS Antenna should be more than 2m away from the metal objects which size is bigger than 20cm.
- b) Due to the satellite appearing on the equator more than other places, it preferably put the GPS antenna in the south of location for the north hemisphere.
- c) Please don't put GPS antenna around other transmitting and receiving equipment to avoid radiation of other transmitting antenna facing to GPS antenna. Please keep them 2m away with each other.

#### 3.3. CASCADE CONNECTION



RJ45(T568B) UTP network cable (purple) must less than 100m. It will be 5kms with optical fiber. Output lighting fixtures cable refer to Signal Cables Connection Notes.

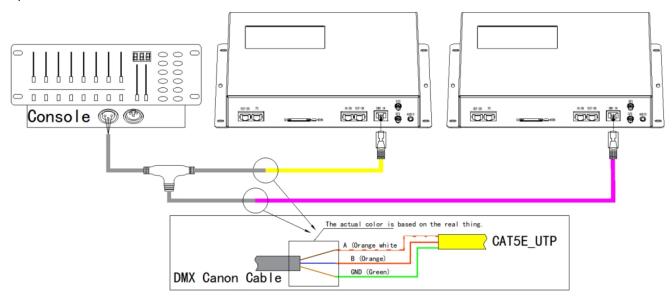
#### 3.4. DMX CONNECTION

User can adjust the effect, speed and brightness by DMX512 console.

Connection:

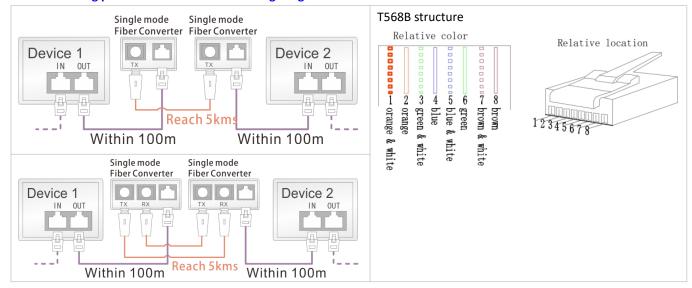
P1 = GND, P2 = D-/B, P3 = D+/A

Operation refers to the "DMX512 DECODING" section.



## 3.5. OPTICAL FIBER COMMUNICATION

Must use single mode transceivers. User can use single fiber or double fiber (alternative) according to on-site condition. The double fiber transceiver must be connected with two optical fibers. It cannot use in EN controller when ID is 00 and the connecting position of EN controller and lighting fixture.



## 4. BASIC OPERATION

## 4.1. INTERFACE INTRODUCTION

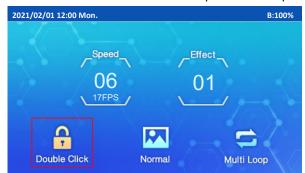


| The icc | n of | unsupported | functions | will | not | display | v. |
|---------|------|-------------|-----------|------|-----|---------|----|
|         |      |             |           |      |     |         |    |

| Display                | Introduction                            |
|------------------------|---|
| Speed                  | Current speed.                          |
| Effect                 | Current effect.                         |
| HOST                   | Function display.                       |
| Setting                | Select and enter the setting menu.      |
| Normal                 | Current control mode.                   |
| Multiple / Single Loop | Current Play mode, press to switch.     |
| 2021/02/01 12:00 MON.  | Current setting date and time.          |
| E05                    | Error prompt for card reading.          |
| List: Null             | Current list of time control.           |
| DMX                    | Controller access DMX512 console.       |
| GPS:01                 | Signal strength of GPS satellite.       |
| B:100%                 | Current brightness of lighting fixture. |

#### 4.2. UNLOCK CONTROLLER

Enter the screen saver state after no operation for a period. Double click the icon "Double Click" to unlock main interface.





### 4.3. CONTROL SETTING

#### 4.3.1.EFFECT

Select the number under "Effect", select ◀ / ▶ to change effect, and it will be changed from multiple loop to single loop.





#### 4.3.2.SPEED

Select the number under "Speed", select ◀ / ▶ to set it. The less the value, the quicker the speed.

| Parameters     |    |    |    |    |    |    |    |     | Speed |     |     |     |     |     |      |      |
|----------------|----|----|----|----|----|----|----|-----|-------|-----|-----|-----|-----|-----|------|------|
| Interface      | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10  | 11    | 12  | 15  | 20  | 30  | 50  | 80   | 99   |
| Frame Rate(ms) | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110   | 120 | 150 | 200 | 300 | 500 | 1000 | 2000 |
| (fps)          | 33 | 25 | 20 | 17 | 14 | 13 | 11 | 10  | 9     | 8   | 7   | 5   | 3   | 2   | 1    | 0.5  |





#### 4.3.3.LOOP

Select "Multi Loop" to switch loop mode. There are Multiple Loop, Single Loop and Random play. Random play is unavailable when the controller supports GPS / BTS functions.





## 5. MENU SETTING

Select the "Settings" of main interface to enter the menu settings. All Settings are valid in real time.





| Selection           | Interface   | Instructions  |
|---------------------|---|---|
| Addressing<br>Check | Addressing Check Increment: 0001 Check Mode: Pile up Current LEDS  ■ 0001 ▶                 | Light up the lighting fixture to verify that its address is correct.  Check Mode: Pile / Point.  Current LEDS: Select ◀ / ▶ to set value.  Or select current LEDS to enter setting interface. |
| Addressable         | Addressable Mode Auto Addressable Again Parameter Setting                                   | Address the lighting fixture.   |
| DMX                 | DMX Setting  A A A  0 0 1  V V  Console reception mode:  DMX Channel Relation:  Many to one | Select ▼ / ▲ to set the address value. (Range: 1 - 504.)  Select Digital Console / Push Rod console to set the controller receiving console mode.   |

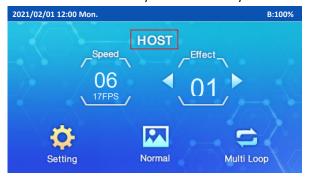
| Selection    | Interface  | Instructions   |
|--------------|--|--|
| Host/Slave   | Host/Slave   | Set the controller to host or slave.                               |
| Time Control | Time Control   | Set the controller to time control.                                |
|              | Close  |  |
|              | SD Card  |  |
| Language     | LANGUAGE   | Set the interface language.  |
|              | 中文   |  |
|              | English  |  |
| Brightness   | Brightness   | Select ◀ / ▶ to set value. (Range is 0%~100%.) 0% is black and     |
|              | Red: <b>◀</b> 100% <b>▶</b> Green: <b>◀</b> 100% <b>▶</b> Blue: <b>◀</b> 100% <b>▶</b> White: <b>◀</b> 100% <b>▶</b> | 100% is the brightest. All channels are valid independently. For   |
|              | All: ◀ 100% ►  | example, "Red/Green/Blue/White/All" are 50/100/100/100             |
|              |  | respectively. In this case, "All" is set to 50 and red becomes 25. |
| Time Zone    | Time Zone  | Select ◀ / ▶ to set value. Range is -11 - +12. Only apply to GPS   |
|              | <b>■</b> UTC+8   | synchronization.   |
| Date/Time    | Date/ Time   | Select the value to enter the setting interface. Select ▼ / ▲ to   |
|              | 2021/01/01<br>12:00  | set value. The data and time are updated bases on GPS when         |
|              | 12:00  | the GPS synchronization is enabled.                                |
| SYNC         | SYNC Setting   | Set the synchronization interval for each controller to be         |
| Settings     | Sec: <b>◀</b> 00 <b>▶</b>  | received so that all effects are synchronized. Select ◀ / ▶ to set |
|              | Msec: ◀ 0000 ►   | value.   |
| Screen       | Screen Locking Time  | Select ◀ / ▶ to set value. (30 seconds, 1 minute, 5 minutes, 30    |
| Locking Time | ◀ 1 mins ►   | minutes and perpetual.)  |
| Configurate  | /  | Select and start addressing the lighting fixtures according to SD  |
| Address      |  | card. Please refer to CONFIGURATE ADDRESS.                         |
| Project bind | /  | Reserved function.   |
| IP Settings  | /  | Reserved function.   |

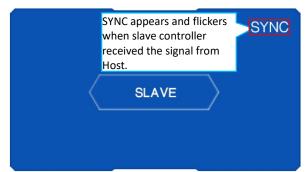
## 6. ADDITIONAL FUNCTION

#### **6.1. CASCADE CONTROL**

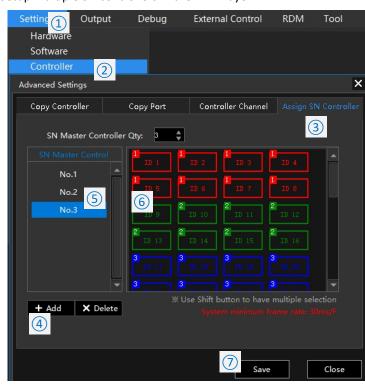
When the project needs to be controlled by multiple cascading controllers, connect the host with slave controllers by cables to make the whole project synchronous.

- 1. Quickly click HOST on the interface 3 times to enter menu setting. Select HOST to become SLAVE.
- $2. \ Connect two controllers by \ UTP \ CAT5E for synchronization. \ Connection \ refers \ to \ the \ CASCADE \ CONNECTION \ section.$





3. Setup multiple SN controllers in the LED Player.



- 1 Click "Setting".
- (2) Click "Controller".
- (3) Click "Assign SN Controller".
- 4 Click "+Add" to increase SN controller.
- (5) Click "No.2".
- (6) Click "ID9, ID10, ID11, ID12, ID13, ID14, ID15,ID16".
- (7) Click "Save" and close the window.
- (8) Output the SD card file and copy it into SD card.

Multiple master controls can be repeated point 5 and 6 operation.

Note, if there is only one SN controller in the project, we can skip this setting and directly output the SD card file and copy.

#### 6.2. DMX512 CONTROL

User can adjust the effect, speed and brightness by DMX512 console.

The same or different addresses can be set in the controller, so that DMX512 console is able to control several controllers with same or different effects. The actual effect is determined by SD card and mode selection of the controller. Connection refers to the DMX CONNECTION section.

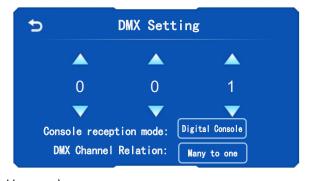
Select ▼ / ▲ to set DMX address value.

Formula of address setting: **(N-1)\* 12 + 1**. N represents the N<sup>th</sup> controller.

Effect 00 is black and Effect 99 is playing in multiple loop. Select Filter / Immediate to set the controller receiving console mode

Push Rod Console: When DMX console stops operating for 0.5 seconds, it responds to the control lighting fixture.

Digital Console: It responds to the control lighting fixture of DMX console parameters.



Range of console values: One to one. (Channel values are incremented by ones.)

| 오        | 01  |     | 02       |       |        | 03      |     | 04      |     | 05      | 06   | 07  |      | 08        |     | 09        |     | 10        |     | 11        |      | 12        |
|----------|-----|-----|----------|-------|--------|---------|-----|---------|-----|---------|------|-----|------|-----------|-----|-----------|-----|-----------|-----|-----------|------|-----------|
| Channe   |     |     | Speed    | (     | Contro | ol Mode |     | Effect  |     | Effect  |      |     | Brig | htOverall | Bri | ightCH.R  | Bri | ghtCH. G  | Bri | ghtCH. B  | Brig | ghtCH. W  |
| <u>e</u> |     | Set | Range    | Se    | et     | Range   | Set | Range   | Set | Range   |      |     | Set  | Range     | Set | Range     | Set | Range     | Set | Range     | Set  | Range     |
|          |     | 99  | 99 ~ 255 |       | >      |         | 90  | 9 ~ 255 | 09  | 9 ~ 255 |      |     | 100  | 100 ~ 255 | 100 | 100 ~ 255 | 100 | 100 ~ 255 | 100 | 100 ~ 255 | 100  | 100 ~ 255 |
|          |     | 80  | 80 ~ 98  |       | udio   | 4 ~ 255 | 80  | 8       | 08  | 8       |      |     | 99   | 99        | 99  | 99        | 99  | 99        | 99  | 99        | 99   | 99        |
|          |     | 50  | 50 ~ 79  | Dy    | 0      |         | 00  | 0       | UO  | 0       |      |     | 98   | 98        | 98  | 98        | 98  | 98        | 98  | 98        | 98   | 98        |
|          |     | 30  | 30 ~ 49  | nan   |        |         | 70  | 7       | 07  | 7       |      |     | 97   | 97        | 97  | 97        | 97  | 97        | 97  | 97        | 97   | 97        |
|          |     | 20  | 20 ~ 29  | amic  | Voice  | 3       | 70  | ,       | 07  |         |      |     | 96   | 96        | 96  | 96        | 96  | 96        | 96  | 96        | 96   | 96        |
| Po       |     | 15  | 15 ~ 19  |       | Ce     | 3       | 60  | 6       | 06  | 6       |      |     | 95   | 95        | 95  | 95        | 95  | 95        | 95  | 95        | 95   | 95        |
| osition  |     | 12  | 12 ~ 14  |       |        |         | 00  | 0       | 00  | 0       |      |     |      |           |     |           |     |           |     |           |      |           |
|          | z   | 11  | 11       |       | Þ      |         | 50  | 5       | 05  | 5       | z    | z   | :    | :         | :   | i i       | :   |           |     | 1         | :    | :         |
| 9        | one | 10  | 10       |       | udio   | 2       | 30  | 3       | US  | 3       | None | one |      |           |     |           |     |           |     |           |      |           |
| Push     | m   | 9   | 9        | Spe   | 0      |         | 40  | 4       | 04  | 4       | m    | m   | 07   | 7 7       | 07  | 7         | 07  | 7         | 07  | 7         | 07   | 7         |
| 고        |     | 8   | 8        | ctrum |        |         | 40  | 4       | 04  | 4       |      |     | 06   | 6 6       | 06  | 6         | 06  | 6         | 06  | 6         | 06   | 6         |
| Rod      |     | 7   | 7        | 풀     | Voice  | 1       | 30  | 3       | 03  | 3       |      |     | 05   | 5 ~ 5     | 05  | 5         | 05  | 5         | 05  | 5         | 05   | 5         |
|          |     | 6   | 6        |       | e      | 1       | 30  | 3       | 03  | 3       |      |     | 04   | 4 4       | 04  | 4         | 04  | 4         | 04  | 4         | 04   | 4         |
|          |     | 5   | 5        |       |        |         | 20  | 2       | 02  | 2       |      |     | 03   | 3 ~ 3     | 03  | 3         | 03  | 3         | 03  | 3         | 03   | 3         |
|          |     | 4   | 4        |       |        |         | 20  | 2       | 02  | 2       |      |     | 02   | 2 ~ 2     | 02  | 2         | 02  | 2         | 02  | 2         | 02   | 2         |
|          |     | _   | n ~ 2    | Nor   | mal    | 0       | 10  | 1       | 01  | 1       |      |     | 01   | 1         | 01  | 1         | 01  | 1         | 01  | 1         | 01   | 1         |
|          |     | 3   | 0 ~ 3    |       |        |         | 00  | 0       | 00  | 0       |      |     | 00   | 0         | 00  | 0         | 00  | 0         | 00  | 0         | 00   | 0         |

Range of console values: Ten to one. (Channel values are incremented by tens.)

| 오        | 01  |     | 02      |     |     |       | 03    |     |     |     | 04   |      |    |     | 05    |     |     | 06   | 07   |      | 08  | 3    |      |     | 0     | 9    |     |     | 10   | )     |    |     | 11   |      |     |     | 12  | )     |
|----------|-----|-----|---------|-----|-----|-------|-------|-----|-----|-----|------|------|----|-----|-------|-----|-----|------|------|------|-----|------|------|-----|-------|------|-----|-----|------|-------|----|-----|------|------|-----|-----|-----|-------|
| Channel  |     |     | Speed   |     | (   | Contr | ol Mo | ode |     |     | Effe | ct   |    |     | Effec | t   |     |      |      | Brig | ht  | Ove  | rall | Bri | ight. | _CH. | .R  | Bri | ght. | CH. G |    | Bri | ght( | CH.  | В   | Bri | ght | CH. W |
| <u>6</u> |     | Set | Range   |     | Se  | ≥t    | R     | ang | e   | Set | R    | ange |    | Set | Ra    | nge | 2   |      |      | Set  | B   | lang | ge   | Set | F     | Rang | e   | Set | R    | ange  |    | Set | Ra   | ange | 2   | Set | R   | ange  |
|          |     | 99  | 240 ~ 2 | 255 |     | Þ     |       |     |     | 90  | 90   | ~ 2  | 55 | 09  | 90    | ~ 2 | 255 |      |      | 100  | 200 | ~    | 255  | 100 | 200   | ~    | 255 | 100 | 200  | ~ 2   | 55 | 100 | 200  | ~ 2  | 255 | 100 | 200 | ~ 255 |
|          |     | 80  | 230 ~ 2 | 239 |     | Audio | 40    | ~   | 255 | 80  | 80   | ~ .  | 9  | 08  | 80    | ~   | 89  |      |      | 99   | 198 | ~    | 199  | 99  | 198   | 3 ~  | 199 | 99  | 198  | ~ 1   | 9  | 99  | 198  | ~ 1  | 199 | 99  | 198 | ~ 199 |
|          |     | 50  | 220 ~ 2 | 229 | P   | 0     |       |     |     | 80  | 80   |      | 9  | 08  | 80    |     | 89  |      |      | 98   | 196 | ~    | 197  | 98  | 196   | ~    | 197 | 98  | 196  | ~ 1   | 97 | 98  | 196  | ~ 1  | 197 | 98  | 196 | ~ 197 |
|          |     | 30  | 210 ~ 2 | 219 | nar |       |       |     |     | 70  | 70   | ~ -  | 9  | 07  | 70    | ~   | 79  |      |      | 97   | 194 | ~    | 195  | 97  | 194   | ~    | 195 | 97  | 194  | ~ 1   | 95 | 97  | 194  | ~ 1  | 195 | 97  | 194 | ~ 195 |
|          |     | 20  | 200 ~ 2 | 209 | n.  | Voice | 30    | ~   | 39  | 70  | 70   |      | 9  | 07  | 70    |     | 19  |      |      | 96   | 192 | ~    | 193  | 96  | 192   | ~    | 193 | 96  | 192  | ~ 1   | 93 | 96  | 192  | ~ 1  | 193 | 96  | 192 | ~ 193 |
| Po       |     | 15  | 150 ~ 1 | 199 |     | Ce    | 30    |     | 39  |     |      | ~ 4  |    | 0.5 |       | ~   | c0  |      |      | 95   | 190 | ~    | 191  | 95  | 190   | ~    | 191 | 95  | 190  | ~ 1   | 91 | 95  | 190  | ~ ;  | 191 | 95  | 190 | ~ 191 |
| osition  |     | 12  | 120 ~ 1 | 149 |     |       |       |     |     | 60  | 60   | . (  | 9  | 06  | 60    |     | 69  |      |      |      |     |      |      |     |       |      |     |     |      |       |    |     |      |      |     |     |     |       |
|          | z   | 11  | 110 ~ 1 | 119 |     | ₽     |       |     |     | 50  | 50   | ~ .  | 9  | 05  | 50    | ~   | 59  | z    | z    |      |     | :    |      | :   |       | :    |     |     |      |       |    | :   |      | :    |     | :   |     | :     |
| 으 드      | one | 10  | 100 ~ 1 | 109 |     | Audio | 20    | ~   | 29  | 30  | 30   |      | 2  | US  | 30    |     |     | Non  | None |      |     |      |      |     |       |      |     |     |      |       |    |     |      |      |     |     |     |       |
| Push Rod | n   | 9   | 90 ~    | 99  | Sp. | 0     |       |     |     | 40  | 40   | ~ ,  | .9 | 04  | 40    | ~   | 49  | ro I | m    | 07   | 14  | ~    | 15   | 07  | 14    | ~    | 15  | 07  | 14   | ~ 1   | 5  | 07  | 14   | ~    | 15  | 07  | 14  | ~ 15  |
| 20       |     | 8   | 80 ~    | 89  | ğ   |       |       |     |     | 40  | 40   | -    | 9  | 04  | 40    |     | 49  |      |      | 06   | 12  | ~    | 13   | 06  | 12    | ~    | 13  | 06  | 12   | ~ 1   | 3  | 06  | 12   | ~    | 13  | 06  | 12  | ~ 13  |
| 8        |     | 7   | 70 ~    | 79  | 盲   | Voice | 10    | ~   | 19  | 30  | 30   | ~ ~  | 9  | 03  | 30    | ~   | 39  |      |      | 05   | 10  | ~    | 11   | 05  | 10    | ~    | 11  | 05  | 10   | ~ 1   | 1  | 05  | 10   | ~    | 11  | 05  | 10  | ~ 11  |
|          |     | 6   | 60 ~    | 69  | _   | ce    | 10    |     | 19  | 30  | 30   |      | 9  | 03  | 30    |     | 39  |      |      | 04   | 8   | ~    | 9    | 04  | 8     | ~    | 9   | 04  | 8    | ~     | 9  | 04  | 8    | ~    | 9   | 04  | 8   | ~ 9   |
|          |     | 5   | 50 ~    | 59  |     |       |       |     |     | 20  | 20   | ~ ~  |    | 02  | 20    | ~   | 20  |      |      | 03   | 6   | ~    | 7    | 03  | 6     | ~    | 7   | 03  | 6    | ~     | 7  | 03  | 6    | ~    | 7   | 03  | 6   | ~ 7   |
|          |     | 4   | 40 ~    | 49  |     |       |       |     |     | 20  | 20   | •    | 19 | 02  | 20    |     | 29  |      |      | 02   | 4   | ~    | 5    | 02  | 4     | ~    | 5   | 02  | 4    | ~     | 5  | 02  | 4    | ~    | 5   | 02  | 4   | ~ 5   |
|          |     | 3   | ۸ ~     | 39  | Nor | mal   | 0     | ~   | 9   | 10  | 10   | ~ 1  | 9  | 01  | 10    | ~   | 19  |      |      | 01   | 2   | ~    | 3    | 01  | 2     | ~    | 3   | 01  | 2    | ~     | 3  | 01  | 2    | ~    | 3   | 01  | 2   | ~ 3   |
|          |     | 3   | U       | 37  |     |       |       |     |     | 00  | 0    | ~    | 9  | 00  | 0     | ~   | 9   |      |      | 00   | 0   | ~    | 1    | 00  | 0     | ~    | 1   | 00  | 0    | ~     | L  | 00  | 0    | ~    | 1   | 00  | 0   | ~ 1   |

Range of console values: Many to one. (Channel values are evenly distributed by level.)

| 오        | 01 |     | 02    |     |              |             | 03    |       |     | 04        |     | 05     |       | 06   | 07   |      | 08  |        |     | 09        |     | 10        |     | 11        |     | 12   |       |
|----------|----|-----|-------|-----|--------------|-------------|-------|-------|-----|-----------|-----|--------|-------|------|------|------|-----|--------|-----|-----------|-----|-----------|-----|-----------|-----|------|-------|
| lann     |    |     | Speed |     | (            | Contr       | ol Mo | de    |     | Effect    |     | Effect |       |      |      | Brig | htO | verall | Br  | ightCH.R  | Bri | ightCH. G | Bri | ghtCH.B   | Bri | ght( | CH. W |
| <u>e</u> |    | Set | Ran   | ge  | Se           | et          | R     | ange  | Set | Range     | Set | Rar    | nge   |      |      | Set  | Ra  | nge    | Set | Range     | Set | Range     | Set | Range     | Set | Ra   | ange  |
|          |    | 99  | 240 ~ | 255 |              | <b>&gt;</b> |       |       | 90  | 225 ~ 25  | 09  | 225 ^  | ° 255 |      |      | 100  | 200 | ~ 255  | 100 | 200 ~ 255 | 100 | 200 ~ 255 | 100 | 200 ~ 255 | 100 | 200  | ~ 255 |
|          |    | 80  | 224 ~ | 239 |              | Audio       | 204   | ~ 255 | 80  | 200 ~ 22  | 08  | 200 ^  | ° 224 |      |      | 99   | 198 | ~ 199  | 99  | 198 ~ 199 | 99  | 198 ~ 199 | 99  | 198 ~ 199 | 99  | 198  | ~ 199 |
|          |    | 50  | 208 ~ | 223 | P            | 0           |       |       | 80  | 200 224   | 08  | 200    | 224   |      |      | 98   | 196 | ~ 197  | 98  | 196 ~ 197 | 98  | 196 ~ 197 | 98  | 196 ~ 197 | 98  | 196  | ~ 197 |
|          |    | 30  | 192 ~ | 207 | nar          |             |       |       | 70  | 175 ~ 10  | 0.7 | 175 0  | v 100 |      |      | 97   | 194 | ~ 195  | 97  | 194 ~ 195 | 97  | 194 ~ 195 | 97  | 194 ~ 195 | 97  | 194  | ~ 195 |
|          |    | 20  | 176 ~ | 191 | n.           | Voice       | 154   | ~ 202 | 70  | 175 ~ 19  | 07  | 175 ′  | 199   |      |      | 96   | 192 | ~ 193  | 96  | 192 ~ 193 | 96  | 192 ~ 193 | 96  | 192 ~ 193 | 96  | 192  | ~ 193 |
| Po       |    | 15  | 160 ~ | 175 |              | Ce          | 154   | ~ 203 |     | 150 N 17  | 0.5 | 150.0  | ° 174 |      |      | 95   | 190 | ~ 191  | 95  | 190 ~ 191 | 95  | 190 ~ 191 | 95  | 190 ~ 191 | 95  | 190  | ~ 191 |
| sition   |    | 12  | 144 ~ | 159 |              |             |       |       | 60  | 150 ~ 17  | 06  | 150 ^  | 174   |      |      |      |     |        |     |           |     |           |     |           |     |      |       |
|          | z  | 11  | 128 ~ | 143 |              | ₽           |       |       | 50  | 125 ~ 14  | 05  | 125 ^  | ° 149 | z    | z    | 1    |     |        | :   | :         | E   | :         | 1   | :         | E   |      | :     |
| of P     | 9  | 10  | 112 ~ | 127 |              | Audi        | 103   | ~ 153 | 30  | 123 14.   | 0.5 | 125    | 143   | None | None |      |     |        |     |           |     |           |     |           |     |      |       |
| ush      | rD | 9   | 96 ~  | 111 | pe S         | 0           |       |       | 40  | 100 ~ 124 | 04  | 100 ^  | ° 124 | ro   | ro   | 07   | 14  | ~ 15   | 07  | 14 ~ 15   | 07  | 14 ~ 15   | 07  | 14 ~ 15   | 07  | 14   | ~ 15  |
| h Ro     |    | 8   | 80 ~  | 95  | <del>2</del> |             |       |       | 40  | 100 124   | 04  | 100    | 124   |      |      | 06   | 12  | ~ 13   | 06  | 12 ~ 13   | 06  | 12 ~ 13   | 06  | 12 ~ 13   | 06  | 12   | ~ 13  |
| 8        |    | 7   | 64 ~  | 79  | <b>5</b>     | Vo.         | 52    | ~ 102 | 30  | 75 ~ 99   | 03  | 75 ^   | · 99  |      |      | 05   | 10  | ~ 11   | 05  | 10 ~ 11   | 05  | 10 ~ 11   | 05  | 10 ~ 11   | 05  | 10   | ~ 11  |
|          |    | 6   | 48 ~  | 63  |              | ce          | 32    | 102   | 30  | 73 33     | US  | 13     | 22    |      |      | 04   | 8   | ~ 9    | 04  | 8 ~ 9     | 04  | 8 ~ 9     | 04  | 8 ~ 9     | 04  | 8    | ~ 9   |
|          |    | 5   | 32 ~  | 47  |              |             |       |       | 20  | 50 ~ 74   | 02  | 50 ^   | ° 74  |      |      | 03   | 6   | ~ 7    | 03  | 6 ~ 7     | 03  | 6 ~ 7     | 03  | 6 ~ 7     | 03  | 6    | ~ 7   |
|          |    | 4   | 16 ~  | 31  |              |             |       |       | 20  | 30 /4     | UZ  | 30     | /4    |      |      | 02   | 4   | ~ 5    | 02  | 4 ~ 5     | 02  | 4 ~ 5     | 02  | 4 ~ 5     | 02  | 4    | ~ 5   |
|          |    | 3   | . ~   | 15  | Nor          | mal         | 0     | ~ 51  | 10  | 25 ~ 49   | 01  | 25 ^   | ° 49  |      |      | 01   | 2   | ~ 3    | 01  | 2 ~ 3     | 01  | 2 ~ 3     | 01  | 2 ~ 3     | 01  | 2    | ~ 3   |
|          |    | 3   | U     | 15  |              |             |       |       | 00  | 0 ~ 24    | 00  | 0 ^    | ° 24  |      |      | 00   | 0   | ~ 1    | 00  | 0 ~ 1     | 00  | 0 ~ 1     | 00  | 0 ~ 1     | 00  | 0    | ~ 1   |

If the channel color sequence of lighting fixtures is not R-G-B-W, the brightness channel shall be switched accordingly.

#### **6.3. TIME CONTROL**

It has time control function. After enabling time control, the specified effect can be triggered in a specified time.

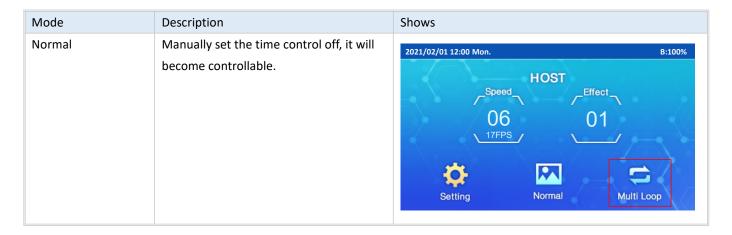
Enter "Parameter Setting" - "Time Control" function to enable.

Maximum time control lists of player can be 100, and maximum 10 effects can be set in each list.

Noted: This function only applies to pattern effects.



| Mode                 | Description   | Shows  |
|----------------------|---|--|
| SD Card Time Control | The light is black while waiting. The controller will switch to corresponding effect mode when it reaches the time set. (The "Normal" and "Effect" buttons are disabled.) | 2021/02/01 12:00 Mon. Lis:01 B:100%  HOST Speed 06 17FPS Normal SD Time Ctrl |



## 7. ADDRESSABLE

## 7.1. CHIP SUPPORTED

|           |            | Custons           |                    |                     | Set param | eters   |       |       |
|-----------|------------|-------------------|--------------------|---------------------|-----------|---------|-------|-------|
| Chip      | Addressing | Custom<br>Channel | No signal<br>State | Power-on<br>Setting | Current   | Forward | Issue | GAMMA |
| UCS512A   | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| UCS512B   | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| UCS512C0  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| UCS512C4  | ٧          | ×                 | ×                  | ٧                   | ×         | ×       | ×     | ×     |
| UCS512CN  | ٧          | ×                 | ٧                  | ٧                   | ×         | ×       | ×     | ×     |
| UCS512D   | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| UCS512E0  | ٧          | ٧                 | ٧                  | ٧                   | ٧         | ٧       | ×     | ×     |
| UCS512G4  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| UCS512G6  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| DMX512AP  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| SM16511   | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| SM16512   | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| SM16520   | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| SM16500   | ٧          | ×                 | ٧                  | ٧                   | ×         | ×       | ×     | ×     |
| SM17500   | ٧          | ٧                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| SM17512   | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| SM17522   | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| SM18522P  | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| SM18522PH | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| SW-D      | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| Hi512A0   | ٧          | ٧                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| Hi512A4   | ٧          | ×                 | ٧                  | ٧                   | ×         | ×       | ×     | ×     |
| Hi512A6   | ٧          | ×                 | ٧                  | ٧                   | ×         | ×       | ×     | ×     |
| Hi512D    | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| TM512AB3  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| TM512AL1  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| TM512ACx  | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| TM512AD   | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| QED512P   | ٧          | ×                 | ٧                  | ٧                   | ٧         | ×       | ×     | ×     |
| GS8511    | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| GS8512    | ٧          | ×                 | ×                  | ×                   | ×         | ×       | ×     | ×     |
| GS8513    | ٧          | ×                 | ×                  | ×                   | ٧         | ×       | ×     | ×     |
| GS8515    | ٧          | ×                 | ×                  | ×                   | ٧         | ×       | ×     | ×     |

## 7.2. ADDRESSING SETTINGS

| Option    |                | Setting  | Instructions  |  |  |
|-----------|----------------|--|---|--|--|
| Chip type | P1 P2 P3 P4 P5 | Chip select  SW-D DMX512AP  UCS512A UCS512B  UCS512CO UCS512C4  UCS512D UCS512E-SELF  SM16500 SM16511  SM16512 SM16520  SM17512 SM17522  SM17500-NOR SM17500-SELF  H1512A0-NOR TM512AB3  H512A0-SELF TM512ACX  H1512A4 TM512AD  H1512A6 TM512AL1  QED512P GS8511  Hi512D GS8512  UCS512CN GS8513  Hi512E GS8515  SM18522PH  UCS512G4  UCS512G6 | Select the chip of lighting fixture.  |  |  |
| Dots      |                | Dots  ◀ 1 ▶  | Set the pixel of a DMX512 chip. Select ◀ ▶ to set value.  |  |  |
| Lamps     |                | According to the lighting Settings, select monochrome, two-color, three-color, four-color options.   |   |  |  |
| Lights    |                | Lights   | Addressing the N <sup>th</sup> lighting fixture.  Select ▼ ▲ to set value.  |  |  |
| Increment |                | /  | It can be calculated automatically according to the number of lighting fixtures, dots and lights. Manual setting is not supported.                            |  |  |
| Start Add |                | Starting address           ♠         ♠         ♠           0         0         0         1           ▼         ▼         ▼         ▼   | It can be calculated automatically according to the number of lighting fixtures, dots and lights. Manual setting is also supported.  Select ▼ ▲ to set value. |  |  |
| Check     |                | 1  | Select and enter the addressing check interface.  |  |  |
| Start     |                | /  | Select to start addressing the lighting fixture.  |  |  |

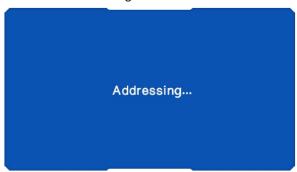
E.g. Addressing the second 8 pixels/meter lighting fixture with 4-channels UCS512C0 chip.



### 7.3. RE-ADDRESSING

Select and addressing the lighting fixture again according to the addressable setting.





### 7.4. PARAMETER SETTINGS





The option is invalid if the chip does not supported.

|      |                 | Interface     |                     |                  | Introduction  |
|------|-----------------|---------------|---------------------|------------------|---|
| Page | Red:            | 255           | Green: 255          | Color RGBV       | V: Select to set RGBW gray.                                 |
| ge 1 | Blue:           | 255           | White: 255          | Byte Selec       | t: Select to set channel of chip.                           |
|      | Byte Select:    | 4             |                     | No signa         | al:   |
|      | No Signal:      | Last Frame    | Write               | Last Fram        | e: The lighting fixture stays the last frame color.         |
|      |                 |               |                     | Power on effec   | t: The lighting fixture stays the color power-on.           |
| Page | Red:            | 15            | Green: 15           | Current RGB\     | V: Select to set the current of RGBW.                       |
| ge 2 | Blue:           | 15            | White: 15           | Gain Mod         | e: Select and select the current gain level. It is only for |
|      | Gain Mode:      | Null          |                     |                  | SM17500.  |
|      | Chip Type:      | Other         | Write               | Chip Typ         | e: Select and select the type of forward chip.              |
| Page | Forward Time    | s:            | Protocol: Zero Code | Forward Time     | es: Select and set forward time.                            |
| ge 3 | Auto addressing | g:            |                     | Protoco          | ol: Select and set forward protocol (zero code / DMX).      |
|      | Step            | o:            | Write               | Auto addressin   | g: Select and set whether to turn on the step setting.      |
|      | S               | elf-Channel S | Setting             | Ste              | p: Select and set the step value. It is only for            |
|      |                 |               |                     |                  | SM17522P.   |
|      |                 |               |                     | Self-Chan Settin | g: Select to enter the Self-Channel setting interface.      |
|      |                 |               |                     | Writ             | e: Select to set parameter into the lighting fixture.       |

Self-Channel Setting: Select and set the parameter in real-time. It may cause the lighting fixture work improperly. Please take caution!

## 7.5. SUCCESSFULLY ADDRESSED AND SET PARAMETERS

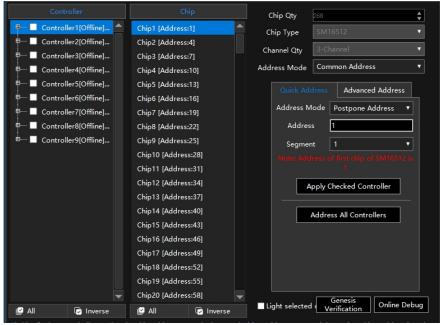
| Chin      | Lighting color | Addressed             |                      | Byte + No signal + No<br>signal |                      | Current parameter |            | Self-Channel Setting |            |
|-----------|----------------|-----------------------|----------------------|---------------------------------|----------------------|-------------------|------------|----------------------|------------|
| Chip      | after power on | First<br>chip         | Other<br>chip        | First<br>chip                   | Other<br>chip        | First<br>chip     | Other chip | First<br>chip        | Other chip |
| UCS512A   | White          | Blue                  | Blue                 | -                               | -                    | -                 | -          | -                    | -          |
| UCS512A1  | White          | Blue                  | Blue                 | -                               | -                    | -                 | -          | -                    | -          |
| UCS512A2  | White          | Blue                  | Blue                 | -                               | -                    | -                 | -          | -                    | -          |
| UCS512B3  | White          | Blue                  | Blue                 | -                               | -                    | -                 | -          | -                    | -          |
| UCS512C   | Custom         | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| UCS512C0  | -              | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| UCS512C3  | Custom         | White                 | White                | Red                             | Red                  | -                 | -          | -                    | -          |
| UCS512C4  | Custom         | White                 | White                | Red                             | Red                  | -                 | -          | -                    | -          |
| UCS512CN  | Custom         | Yellow                | White                | Yellow                          | Power on             | -                 | -          | -                    | -          |
| UCS512D   | Custom         | Yellow                | White                | Yellow                          | Power on             | Yellow            | Red        | -                    | -          |
| UCS512E0  | Custom         | Yellow                | White                | Yellow                          | Power on             | -                 | -          | Yellow               | Green      |
| UCS512EH  | Custom         | Yellow                | White                | Yellow                          | Power on             | Yellow            | Red        | Yellow               | Green      |
| UCS512G4  | Custom         | Yellow                | White                | White<br>(Or custom)            | White (Or custom)    | White             | White      | -                    | -          |
| UCS512G6  | Custom         | Yellow<br>(Or custom) | White<br>(Or custom) | White (Or custom)               | White<br>(Or custom) | White             | White      | -                    | -          |
| DMX512AP  | -              | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| SM16512   | -              | Green                 | Green                | -                               | -                    | -                 | -          | -                    | -          |
| SM16511   | -              | Green                 | Green                | -                               | -                    | -                 | -          | -                    | -          |
| SM16520   | -              | Green                 | Green                | -                               | -                    | -                 | -          | -                    | -          |
| SM16500   | Custom         | Red                   | Green                | Red                             | Power on             | -                 | -          | -                    | -          |
| SM17500   | Custom         | Red                   | Green                | Red                             | Power on             | Red               | Yellow     | Red                  | Purple     |
| SM17512   | Custom         | Red                   | Green                | Blue                            | Blue                 | -                 | -          | -                    | -          |
| SM17522   | -              | Red                   | Green                | Red                             | Blue                 | Red               | Yellow     | -                    | -          |
| SM18522   | Custom         | Red                   | Green                | Blue                            | Blue                 | -                 | -          | -                    | -          |
| SM18522PH | -              | Red                   | Green                | Red                             | Blue                 | Red               | Yellow     | -                    | -          |
| SW-D      | -              | Yellow                | Green                | -                               | -                    | -                 | -          | -                    | -          |
| Hi512A4   | Custom         | Red                   | Green                | Red_                            | Green                | -                 | -          | -                    | -          |
| Hi512A6   | Custom         | Red                   | Green                | Red                             | Green                | -                 | -          | -                    | -          |
| Hi512A0   | -              | White                 | White                | White                           | White                | -                 | -          | -                    | -          |
| Hi512D    | -              | Red                   | Green                | Green                           | Green                | Green             | Green      | -                    | -          |
| Hi512E    | -              | Red                   | Green                | Green                           | Green                | Green             | Green      | -                    | -          |
| TM512AB3  | White          | Blue                  | Blue                 | -                               | -                    | -                 | -          | -                    | -          |
| TM512AL1  | White          | Blue                  | Blue                 | -                               | -                    | -                 | -          | -                    | -          |
| TM512AC0  | -              | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| TM512AC2  | Custom         | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| TM512AC3  | Blue           | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| TM512AC4  | Blue           | White                 | White                | -                               | -                    | -                 | -          | -                    | -          |
| TM512AD   | Blue           | Yellow                | White                | Yellow                          | Power on             | Yellow            | Red        | -                    | -          |
| GS8512    | Custom         | Red                   | Cyan                 | -                               | -                    | -                 | -          | -                    | -          |
| GS8513    | Red+Cyan       | Red                   | Cyan                 | -                               | -                    | -                 | -          | -                    | -          |
| GS8515    | Red+Cyan       | Red                   | Cyan                 | -                               | -                    | -                 | -          | -                    | -          |

#### 7.6. ADDRESSING IN LED PLAYER

Correct access to controllers and open LED Player. Click the "Address" of "Debug", and pop the window.

The SN controller no need to enter the addressing state.

Note: If the controller is offline, there is a probability that the address data cannot be saved successfully.





| Cor            | Controller       | It shows the number of controllers in the project automatically.   |  |  |  |  |  |  |
|----------------|------------------|--|--|--|--|--|--|--|
| Controllers    |                  | [Online] is that the controllers connecting properly.  |  |  |  |  |  |  |
| ller           |                  | [Offline] is that the controllers cannot address the lighting fixture.   |  |  |  |  |  |  |
| 01             |                  | If the chip is not DMX series, the addressing interface becomes unavailable. It can be modified in SETTINGS.   |  |  |  |  |  |  |
|                | The gray chip    | The chip will not be able to set, if its address is outside the actual routing address of the project.   |  |  |  |  |  |  |
|                | Chip             | It shows the number/address of chip.   |  |  |  |  |  |  |
|                | Online Debug     | Click to jump into Online Debugging interface.   |  |  |  |  |  |  |
| Pa             | Chip Qty         | t will be the number of driving pixels set in LED Player "Settings" while first be used.   |  |  |  |  |  |  |
| Parameter      | Chip Type        | It will be the chip type set in LED Player "Settings" while first be used.   |  |  |  |  |  |  |
| eter           | Channel Qty      | Number of chip channels.   |  |  |  |  |  |  |
| •              | Address Option   | Quick Address and Advanced Address.  |  |  |  |  |  |  |
|                | Address Mode     | None, Address extension, Use the same address.  None: It only saves the address of selected chip. And the others will not changed.                                 |  |  |  |  |  |  |
|                |                  | Address Extension: It only saves the address of the selected chip. And the others will be extended.  Use The Same Address: It saves the same address of all chips. |  |  |  |  |  |  |
|                | Address          | set the address of selected chip, and click Save.  |  |  |  |  |  |  |
|                | Segment          | Set the pixel of selected chip,and click Save.   |  |  |  |  |  |  |
| Ac             | Quick Address    | Click and address the all chips.   |  |  |  |  |  |  |
| Address option | Advanced Address | Apply Checked Controller: Click and save the chip date of all checked controllers.   |  |  |  |  |  |  |
| ss o           |                  | Address Current Port: Click and address the chips of selected port.  |  |  |  |  |  |  |
| otio           |                  | Address Current Controller: Click and address the chips of selected controller.  |  |  |  |  |  |  |
| 3              |                  | Address Checked Controller: Click and address the chips of all checked controllers.  |  |  |  |  |  |  |
|                |                  | Address All Controllers: Click and address all chips.  |  |  |  |  |  |  |

| Light-  | Click it and light up the selected chip. Please make sure the address of chips in LED Player are same with the |
|---------|--|
| up      | lighting fixtures'.  |
| A       | LED Player shows the progress bar in the lower right corner.   |
| Address | It shows "Addressing completed!" when the EN controller receives the addressing data.                          |
| SS      | It is not the lighting fixtures addressing correct. The addressing successful is according to the light color. |

## 8. ADDRESSING CHECK

Enter addressing check interface as below.

Step 1: Select Addr. Check of Setting.



Step 2: Select the Check of Addressable.



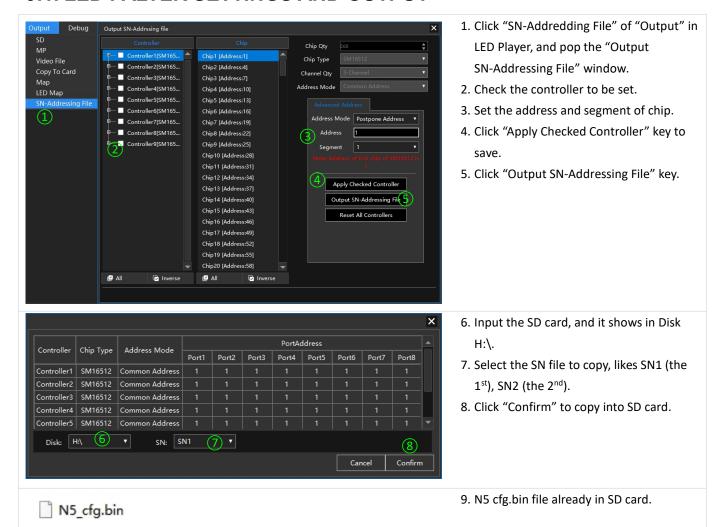
| Option       | Interface 3 |          |          |          | Introduction  |  |  |
|--------------|-------------|----------|----------|----------|---|--|--|
|              |             | Incre    | ement    |          |   |  |  |
|              |             | <b>A</b> | <b>A</b> | <b>A</b> | Set the total number of channels for each DMX512 chip.  |  |  |
| Increment    | 0           | 0        | 0        | 1        | Select ▼ / ▲ to set value.  |  |  |
|              | ▼           | ▼        | ▼        | ▼        |   |  |  |
|              |             | Curre    | nt LEDS  |          |   |  |  |
|              |             | <b>A</b> | <b>A</b> | <b>A</b> |   |  |  |
| Current LEDS | 0           | 0        | 0        | 1        | Select ▼ / ▲ to set the value of lighting fixture.  |  |  |
|              | ▼           | ▼        | ▼        | •        |   |  |  |
| Check Mode / |             |          | /        |          | Point: Turn on designated lighting fixture.  Pile up: Turn on designated lighting fixture and all the ones in front of it |  |  |

E.g. Address the 10th 12 pixels/meter lighting fixture with 3-channels UCS512C0 chip.



### 9. CONFIGURATE ADDRESS

#### 9.1. LED PALYER SETTINGS AND OUTPUT



Note: When each controller drives a variety of chips, it should set the chip in "Hardware Settings".

#### 9.2. CONTROLLER OPERATION

1. Select "Setting" and ▶ enter into the page 2. select "Configurate Address", and start to address the lighting fixtures.





2. After the display shows Successfully select to quit. And the lighting fixtures would play animation with the new address.

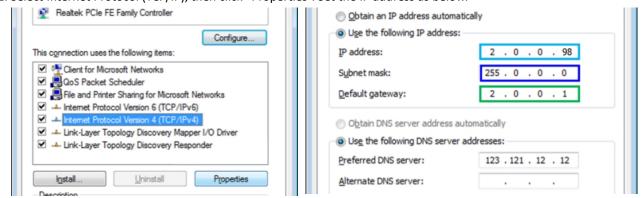


## 10. IP SETTING IN PC

1. Open "Network Connection" on the PC, right click "Local Connection" and select "Properties".



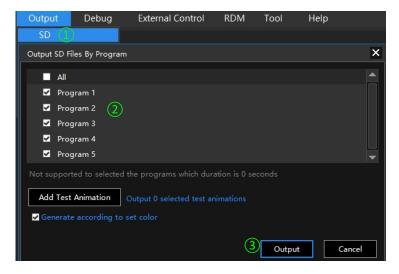
2. Select Internet Protocol (TCP/IP), then click "Properties". Set the IP address as below.



3. Click "OK" after the setting is finished.

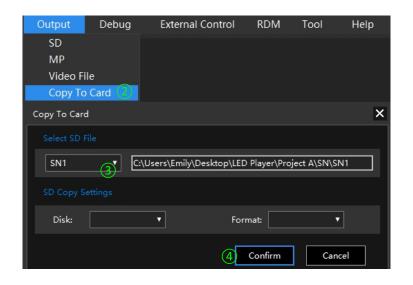
## 11. OUTPUT SD FILE AND COPY

### 11.1. OUTPUT SD FILE



- 1 Click "SD" of "Output" in LED Player.
- 2 Select the program need to output.
- (3) Click "Output".

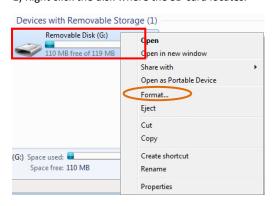
### 11.2. COPY BY LED PLAYER



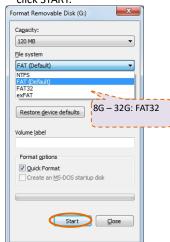
- 1 Input SD card.
- ② Click "Copy To Card" and open window.
- 3 Select the controller number. (Automatic reading of the corresponding file.)
- 4 Click "Confirm".

#### 11.3. SD CARD COPY

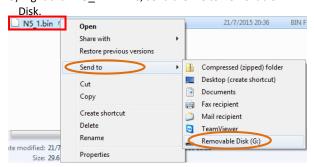
1) Right click the disk where the SD card locates.



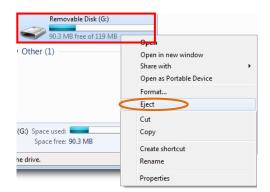
Select –FAT (Can check"Quick Format") and click START.



3) Right click N5\_1.Bin file, send the file to Removable



4) Right click removable disk and select "Eject".



## 12. FITTINGS

| Shows                        | ltem                   | Number | Remark   |
|------------------------------|------------------------|--------|----------|
| SOHC Card  Eff.  ©  San Yink | SD Card                | 1      |          |
|                              | Power line             | 1      |          |
|                              | Cat5E (T568B to T568B) | 1      | Selected |
|                              | GPS Antenna            | 1      | Selected |