Product Specification

CL-804PS controller

深圳市晨亮光电科技有限公司

Shenzhen Clen Optoelectronics Co., Ltd

CE FC RoHS

Product name：8 ports led controller

Product mode：CL-804PS

Overview： Based on the ARTNET protocol Ethernet network driver, the controller can convert the network data packets in the ARTNET protocol into standard DMX512 data or SPI data. The controller has two control modes: ARTNET and SD card, which can perform effect recording and can be used offline; it has 8 output ports, and each port support 680 pixels. This product can be widely used in stage performance lighting control system, stage performance, bar lighting and other occasions, and it is more convenient to use with our lamps.

Product picture：
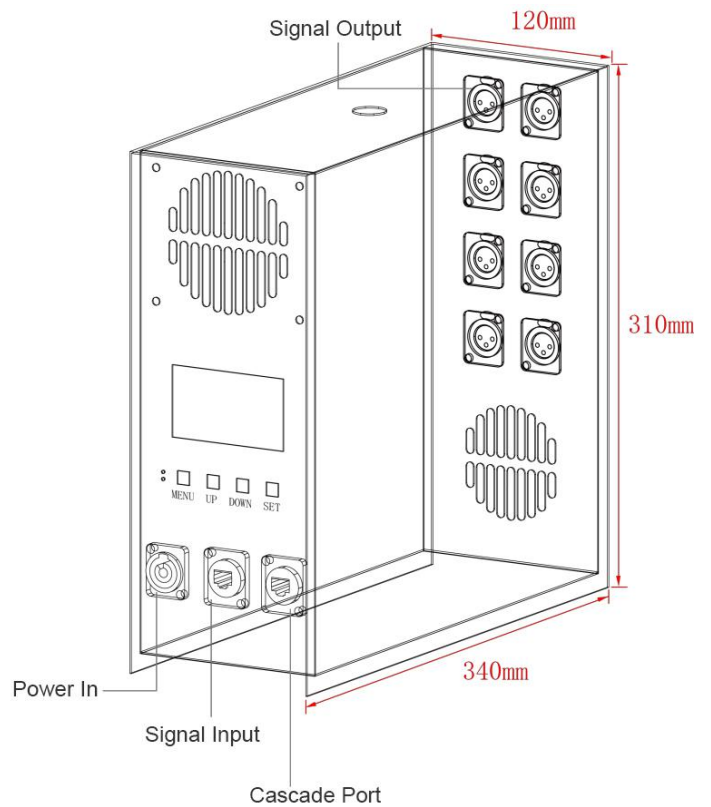
◆ **Product features：**

➢ Input voltage: AC110—220V

➢ 65536 gray scale control;

➢ 8 ports, each port support 680 pixels;

➢ Two signal modes, ARTNET mode and SD card mode;

➢ Support effect recording and offline control, 31 effects can be recorded;

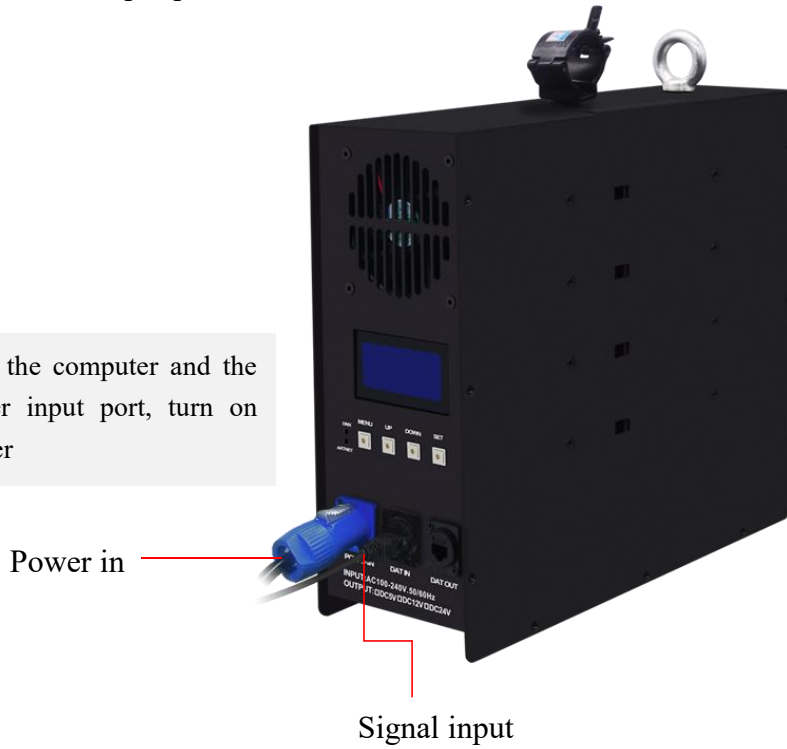➢ Built-in power supply, simple wiring, easy to use;

◆ **Parameter list**

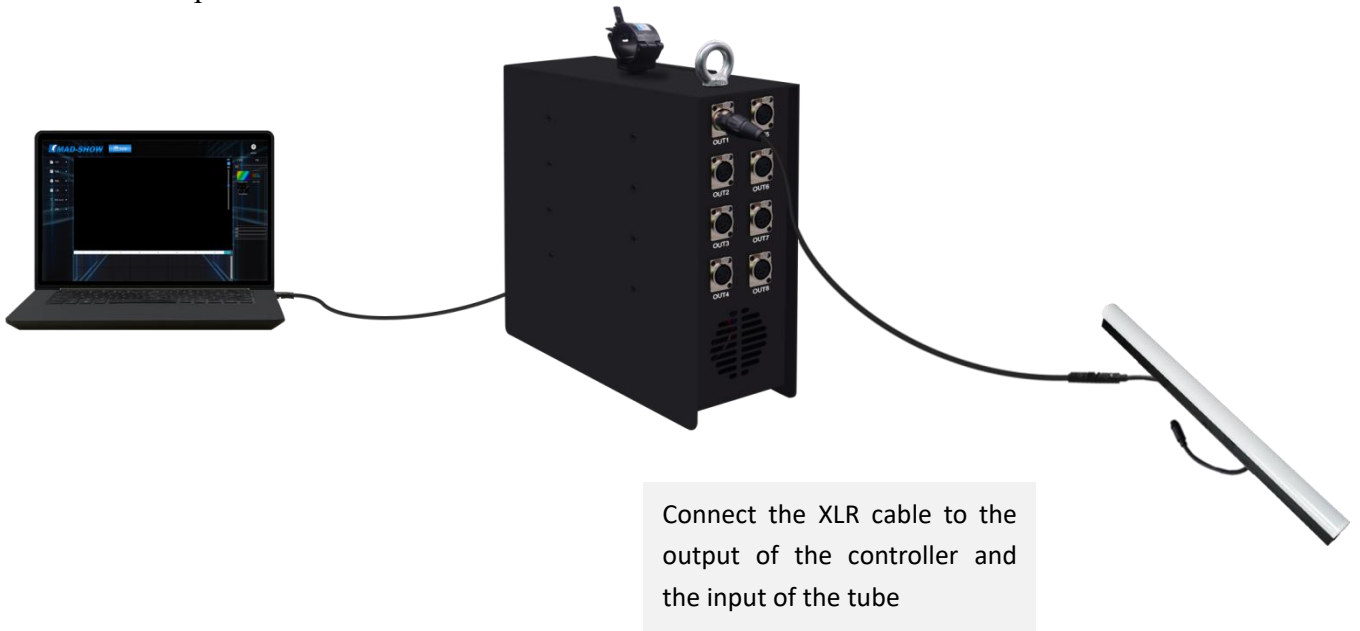| Parameter	Unit	Min	Typical	Max
Working voltage(AC)	V	110	220	220
Power	W	—	1400	—
Output port	PCS	—	8	—
Output voltage（V）	V	—	DC24	—
Port loading points	PIX	8*170	—	8*680
Support IC type	—	—	WS2811/SK6812/UCS1903/UCS8903/UCS9812/DMX512	—
Supporting software	—	—	MAD-SHOW(MADRIX/RESOLUME/MAD-MAPPER)	—
Control mode	—	—	ART-NET/DMX	—
Working mode	—	—	ART-NET/SD card	—
Controller IP address	—	—	2.0.0.X	—
Subnet mask	—	—	255.0.0.0	—
Computer IP address	—	—	2.0.0.2	—
cascaded units	PCS	—	—	32
Product weight	KG	—	6	—
Product size(L*W*H)	MM	—	340*120*310	—
Product color	—	—	Black	—
Product material	—	—	Aluminum	—

◆ Connection

①connect controller input port

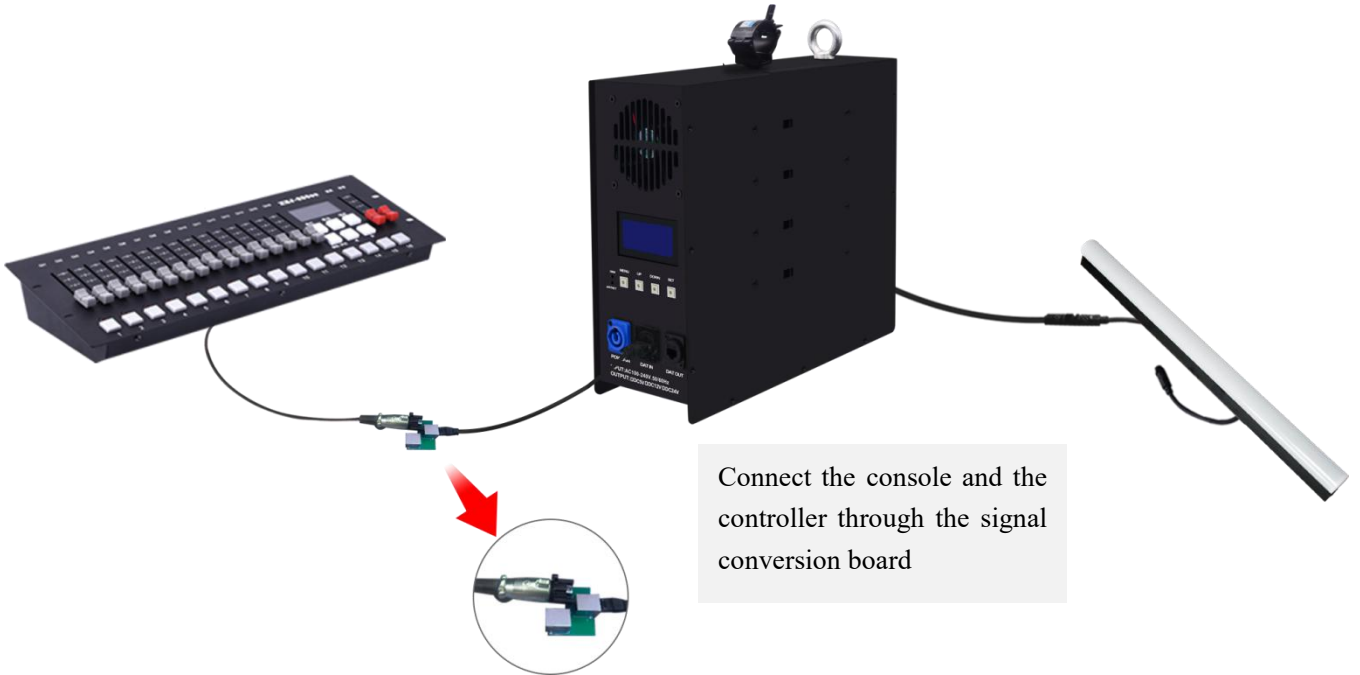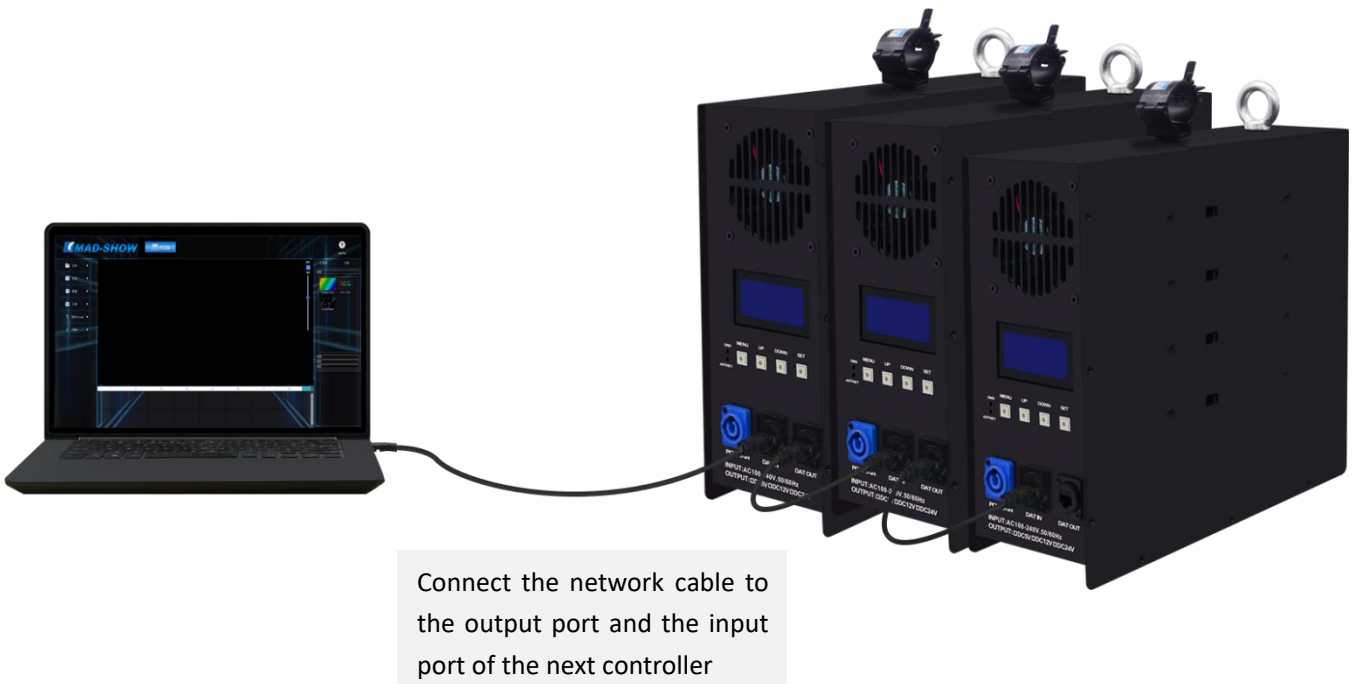Connect the computer and the controller input port, turn on the power

Power in

Signal input

②Connect lamps

Connect the XLR cable to the output of the controller and the input of the tube

③Console connect controller

Connect the console and the controller through the signal conversion board

◆ **Multiple units can be used in cascade**

Connect the network cable to the output port and the input port of the next controller
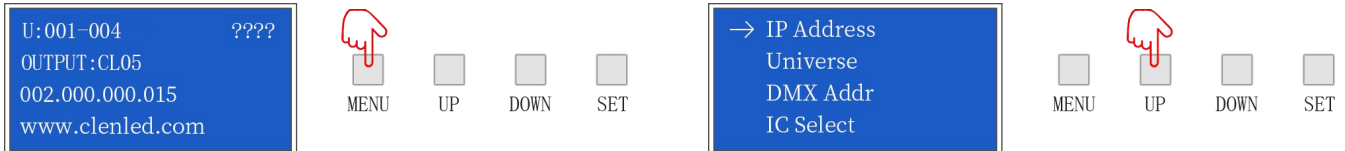
Note: When multiple controllers are cascaded, each controller IP setting cannot be the same!
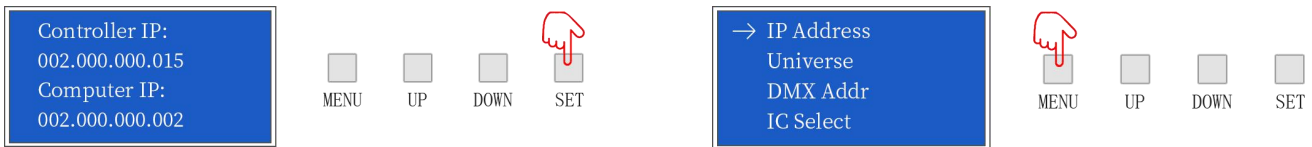
◆ Control mode

ARTNET mode：①After the controller is powered on, it enters the "ART-NET" mode by default,long press "MENU" for 3 seconds to enter the parameter setting, and click "UP" or "DOWN" to select the parameter that needs to be modified；

```
U:001-004          ????
OUTPUT:CL05
002.000.000.015
www.clenled.com
```
MENU   UP   DOWN   SET

```
→ IP Address
  Universe
  DMX Addr
  IC Select
```
MENU   UP   DOWN   SET

②Click "SET" to enter the parameter list to modify the parameters ("UP""DOWN" switch parameter values), click "SET" again to save, and long press "MENU" to return to the initial interface. The controller port output is an independent port output, one port maximum 680 pixels (IC UCS8903 has a maximum of 340 pixels).

```
Controller IP:
002.000.000.015
Computer IP:
002.000.000.002
```
MENU   UP   DOWN   SET

```
→ IP Address
  Universe
  DMX Addr
  IC Select
```
MENU   UP   DOWN   SET

SD card mode：①After the controller is powered on, it enters the "ART-NET" mode by default, and simultaneously presses "UP" and "DOWN" for 3 seconds to enter the SD card mode；

```
U:001-004          ????
OUTPUT:CL05
002.000.000.015
www.clenled.com
```
MENU   UP   DOWN   SET

```
FILE:001         FPS:45
DMX:001-008
OUTPUT:CL05
www.clenled.com
```
MENU   UP   DOWN   SET

②Click "UP" or "DOWN" to switch the built-in effects; click "MENU" or "SET" to switch the effect speed; total 31 built-in effects can be selected; long press "UP" and "DOWN" for 3 seconds to exit the SD card model.

```
FILE:002         FPS:45
DMX:001-008
OUTPUT:CL05
www.clenled.com
```
MENU   UP   DOWN   SET

```
FILE:002         FPS:4
DMX:001-008
OUTPUT:CL05
www.clenled.com
```
MENU   UP   DOWN   SET

◆ **DMX Channel Table Description**

Channel	Name	Figure	Instructions
1	Mode selection	000-247	Call internal 31 effects (one effect for every 8 addresses, and 0-7 for SD card effect 1)
		248-255	Switch to ART_NET mode
2	Speed	000-255	0 is the slowest speed, 255 is the fastest speed, SD card mode is valid
3	Brightness	000-255	0 is the brightness off, 255 is the brightest, SD card mode is valid
4	R- mask	000-255	Subtract red from the effect. 000 is the original effect, and 255 means subtract all red from the effect
5	G-mask	000-255	Subtract green from the effect. 000 is the original effect, and 255 is subtracting all green from the effect
6	B-mask	000-255	Subtract the blue in the effect. 000 is the original effect. 255 means subtract all the blue in the effect
7	invalid	000-007	
	Normally on	008-015	Constant bright white, color selection by mask (brightness, mask channel available)
	stroboscopic	016-255	The higher the value, the faster the strobe (speed, brightness, mask channel is effective)
8	invalid	000-200	
	Record	201-255	When the value of channel 4.5.6 is 255, the recording is valid and the ART_NET effect is recorded to the file specified by channel 1

◆ Application

1. Stage performance;
2. The site of the product/press conference;
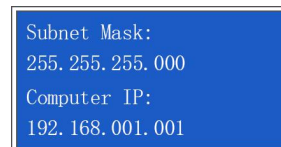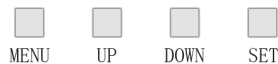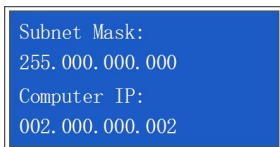3. Concert lighting control;
4. Bar and KTV lighting control

控制器+视频条　　　控制器+彩云管　　　控制器+霓虹灯带　　　控制器+流星管
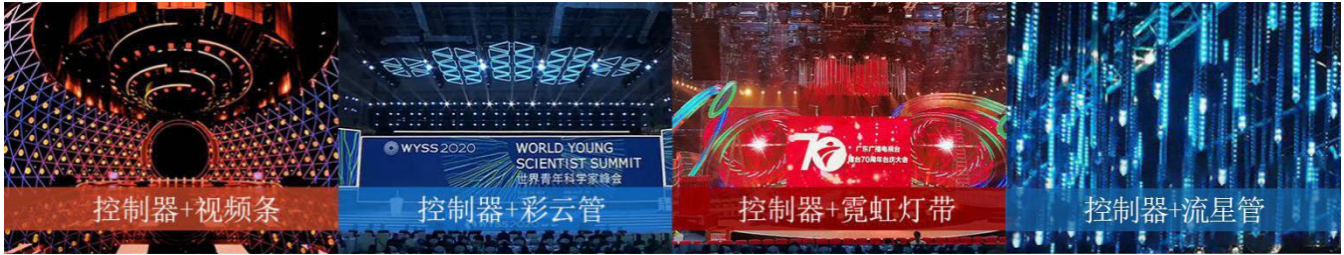
◆ Common problems

(1) **Question：After the wiring is completed, the controller cannot be connected?**

Answer：Check whether the wiring is correct and whether the plug is loose; after confirming that the connection is correct, check whether the controller computer IP (Computer IP) is consistent with the subnet mask. The corresponding computer IP and subnet mask are as follows：
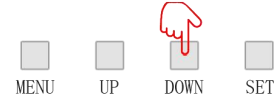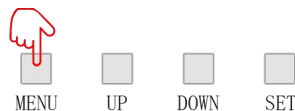
IP:002.000.000.002　　Subnet mask will be 255.000.000.000

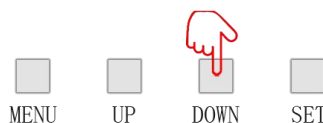IP:192.168.001.001　　Subnet mask will be 255.255.255.000

```
Subnet Mask:
255.000.000.000
Computer IP:
002.000.000.002
```
MENU　UP　DOWN　SET

```
Subnet Mask:
255.255.255.000
Computer IP:
192.168.001.001
```
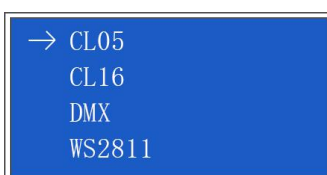MENU　UP　DOWN　SET

(2) **Question:The controller is connected, but only the first lamp lights up? (Controller IC model setting)**

Answer：Check if the controller IC settings are correct.

```
U:001-004        ????
OUTPUT:CL05
002.000.000.015
www.clenled.com
```
MENU　UP　DOWN　SET

```
   IP Address
   Universe
   DMX Addr
→  IC Select
```
MENU　UP　DOWN　SET

①long press"MENU"enter the parameter setting　　②click"UP"or"DOWN"select IC module

```
→  CL05
   CL16
   DMX
   WS2811
```
MENU　UP　DOWN　SET

③Click"SET"enter the parameter setting，press"UP"or"DOWN"choose the same IC with lamps

```
→  IP Address
    Universe
    DMX Addr
    IC Select
```

MENU   UP   DOWN   SET
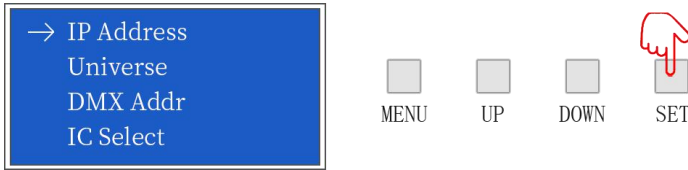
④press"SET"to save the setting,check whether the lamp is work normally, long press "MODE" to return to the initial interface.

(3) **Question：The lighting effect is inconsistent with the playback order?**(Controller channel order setting)

```
U:001-004         ????
OUTPUT:CL05
002.000.000.015
www.clenled.com
```

MENU   UP   DOWN   SET

```
    IC Select
    Pixel
    LED/Pixel
→  Channels
```

MENU   UP   DOWN   SET
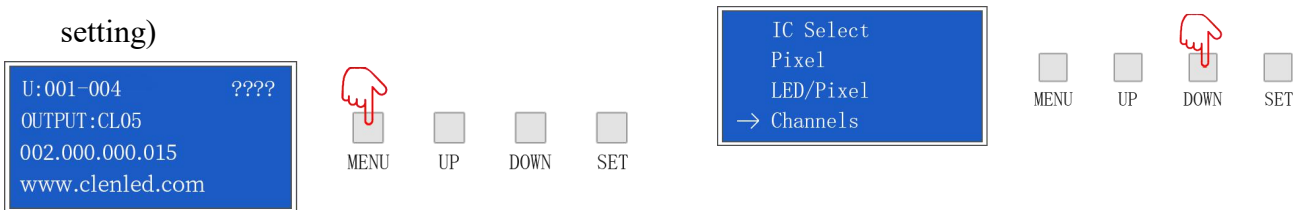
①long press"MENU"enter the parameter setting   ②click"UP"or"DOWN"choose channel order

```
    RGB       BRG
    RBG       BGR
→  GRB       RGBW
    GBR       GRBW
```

MENU   UP   DOWN   SET
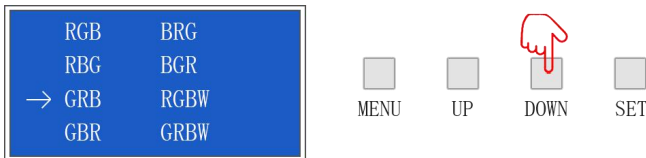
③click"SET"enter the parameter setting,press"UP"or"DOWN"choose the same channel order with

    lamps

```
→  IP Address
    Universe
    DMX Addr
    IC Select
```

MENU   UP   DOWN   SET
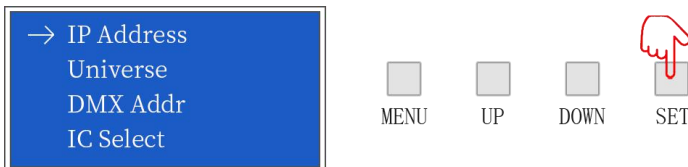
④click"SET"save setting,check whether the lamp is work normally, long press "MENU" to return to the initial interface.

Setting other parameters of the controller, please refer to the above steps

Question：After the controllers are cascaded, some controllers have no signal? (Controller Computer IP, Universe settings)

Answer：Check whether the wiring is correct and whether the plug is loose; check the computer IP (Computer IP) of each controller when the connection is correct. When multiple controllers are cascaded, the computer IP of each controller cannot be the same.

After the controllers are cascaded, the playback effect of each controller is the same?

When multiple controllers are cascaded, each controller space (Universe) should be added, for example, the first one is 1-32, the second one is 33-64, and so on.
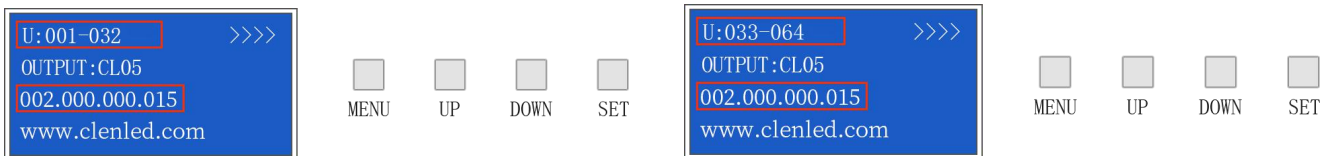
Attention

    1.Pay attention to the use environment and be waterproof and moisture-proof;

    2.There is high voltage inside, non-professionals should not disassemble the machine, otherwise the consequences will be at your own risk;

    3.The company does not guarantee man-made damage and natural damage;

    4.If any abnormality is found during use, please contact us;