



S201 MANUAL

Version: 3.2

2025-12

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1. Function Overview

1. It can control some SPI luminaires.
 - UCS: UCS1903N、UCS1903B、UCS1904、UCS1909B、UCS1912、UCS1912B、UCS2903、UCS2904B、UCS2909、UCS2912、UCS5603A、UCS5603B、UCS8903、UCS8904、UCS9812、UCS2603
 - TM: TM1803、TM1804、TM1809、TM1812、TM1814、TM1824、TM1903、TM1908、TM1913、TM1923、TM1914/TM1914A、TM1934D、TM1814B、TM1912
 - SM: SM15155E、SM16703P、SM16704PB、SM16709P、SM16711、SM16712P、SM16713TH、SM16714P、SM16714PHT、SM16813P、SM16823E、SM16824E、SM16212N、SM16212NH、SM16703PB、SM16704PK、SM16705PD、SM16803PB、SM16804EB
 - GS: GS8205、GS8219、GS8206、GS8208
 - WS: WS2811、WS2812、WS2813、WS2814、WS2815、WS2818
 - LX: LX1003、LX3203
 - P: P9883
 - XT: XT1506S
- Others: GW6312、FL16703A、SK6812、FW1935、MT16703、FW1903、JE2815、LB1934A、HW1002A、RT7908A、KW2303A
2. Supports verification of multiple SPI chip lamps.
3. Built-in 50 test effects.
4. Supports AC synchronization.
5. Supports up to 32G SD card (effect file backup supports up to 128M, No-Flash Version Does Not Support Backup), LED Player software version 3.4.1 or above is required.

2. Technical Specifications

2.1. Product information

- Cover material: Iron
- Input voltage: AC 220V
- Output signal: RS-485×1 ports 、 TTL×8 ports (The data are all the same.)
- Pixel quantity drove: SPI luminaire: 3072 channels
- Output power: <3W
- Effect files: <128M
- Working temperature: -20°C ~ 60°C
- Relative humidity: ≤50 % RH
- Ingress protection: 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

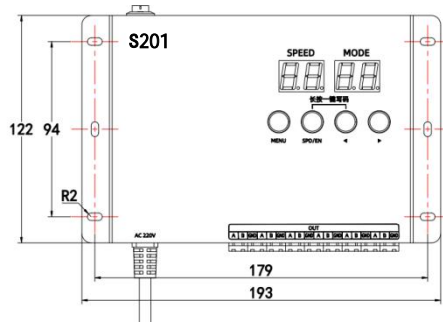
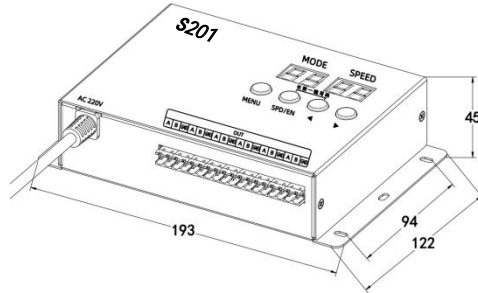
damage which cause by short circuit.

3. Please ensure AC 220V 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.

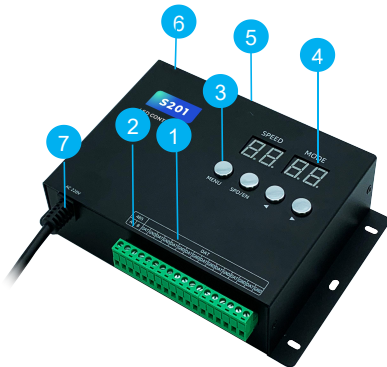
Net weight: 0.83 Kg

Size: L193*W122*H45

(Millimeters (unit))

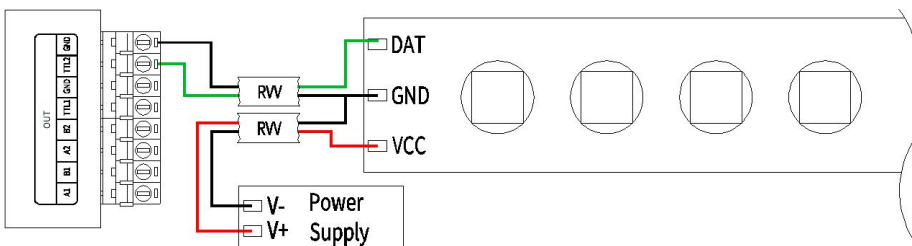


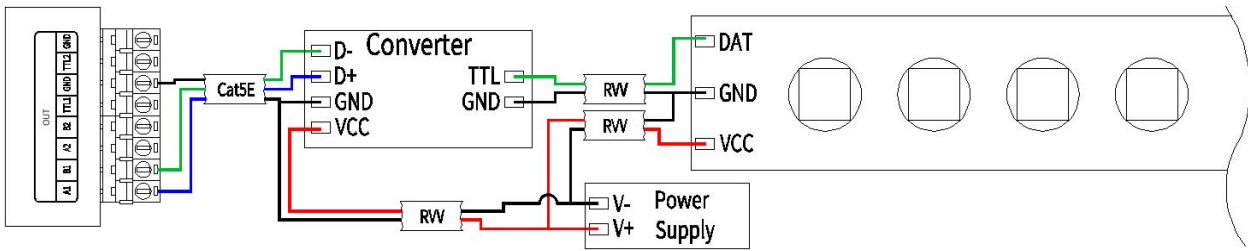
2.2. Component



- ① Output TTL signal to control SPI luminaire
- ② Output RS-485 signal control SPI luminaire
- ③ Control button
- ④ Nixie tube display
- ⑤ SD card port
- ⑥ Power switch
- ⑦ power cord

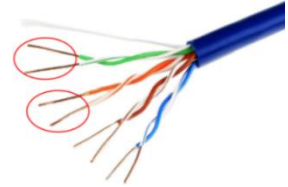
3. CONNECTION MODE





★ Signal cables connection notes:

1. Use UTP—Unshielded Twisted Pair(resistance per 100M<10Ω), low quality Ethernet cables and telephone cable are unavailable.
2. Use one group twisted pair, suggest green + green white or orange + orange white. The quality and color of the cable are very important. Blue and brown wires greatly influence the signal transmission. Please don't use several groups of twisted pairs together.
3. Controller signal output GND must connect directly with input GND of lamp. Cannot connect with lamp through power switch.
4. Switch on the controller after all hardware signal cables and wires are connected. Please don't CONNECT / DISCONNECT the signal cables while the controller is power on; avoid bad output by reverse current and protect the circuit and components.



★ Transmission distance:

Transmission Type	Signals	Media	Distance (M)	Notes
Controller → Repeater	RS-485	UTP - Unshielded Twisted Pair	50-100	
Controller → Single-wire lighting	TTL	UTP - Unshielded Twisted Pair	5-20	
		Two core wire	1-5	
Single-wire lighting → Single-wire lighting	TTL	UTP - Unshielded Twisted Pair	1-2	Meters controlled less if over 1m.
		Two core wire	0.1-1	

4. Basic Operations

4.1. Button Instructions

Button	Operation	Description
MENU	Short-press	"Parameter Setting" interface: Switch parameter items
	Long-press	Enter/Exit secondary menu "Parameter Setting" interface
SPD/EN	Short-press	"Normal Operation" interface: Switch effect speed "Parameter Setting" interface: Confirm
	Long-press	Rapidly increase speed
◀	Short-press	Decrease value
	Long-press	Rapidly decrease value
▶	Short-press	Increase value
	Long-press	Rapidly increase value

Button	Operation	Description
◀ + ▶	Long-press	Enter/Exit "General Addressing"
MENU + ▶	Long-press	Enter/Exit "Address Verification"
SPD/EN + ◀	Long-press	Enter/Exit "One-click Programming"
MENU+SPD/EN	Long-press	"Quick Addressing": Send last addressing parameters

4.2. Speed Adjustment

Press "SPD/EN" button on controller panel to adjust playing speed.

Parameters	Speed																				
	2	2.	3	3.	4	4.	5	5.	6	7	8	9	10	11	12	15	20	30	50	80	99
Interface display	2	2.	3	3.	4	4.	5	5.	6	7	8	9	10	11	12	15	20	30	50	80	99
Frame rate (ms)	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	150	200	300	500	1000	2000
Frames per second (fps)	50	40	33	28	25	22	20	18	17	14	13	11	10	9	8	7	5	3	2	1	0.5

AC Synchronization: All controllers must be set to the same speed and mode, and powered on simultaneously, in order to achieve AC synchronized.

4.3. Parameter Settings

When the controller is powered on, it will display the following version information:

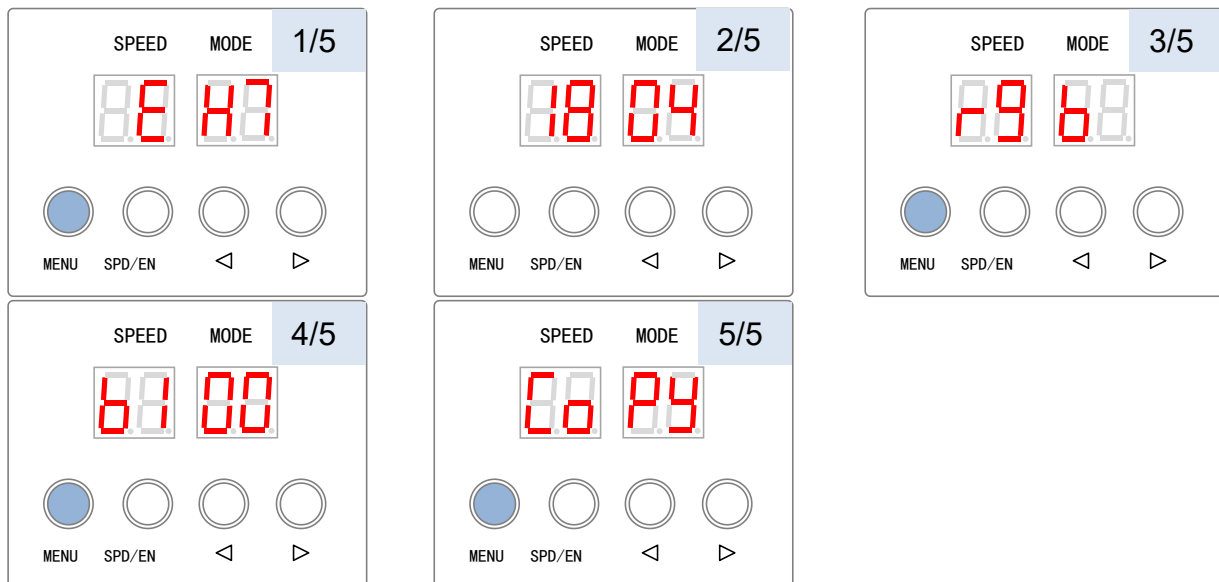
- Boot Version: bXXX(for example: b001)
- Application (App) Version: x.xx(for example: 0.04)

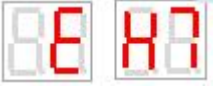

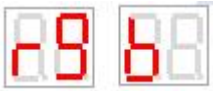
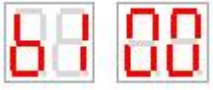
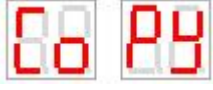
Long-press the controller panel's **【MENU】** button to enter the "Parameter Setting" interface.

Long-press **【MENU】** again to exit the "Parameter Setting" interface.

Short-press **【◀】** and **【▶】** to change the current option parameters.

Short-press **【SPD/EN】** to confirm the changes.



Interface Diagram	Function	Function Description																																																																																																						
	built-in/external Effect Switching	EXT: Output external effect INT: Output built-in effect																																																																																																						
	Output Chip Settings (built-in effect)	<table border="1"> <thead> <tr> <th>Number</th> <th>Display</th> <th>Chip</th> <th>Number</th> <th>Display</th> <th>Chip</th> </tr> </thead> <tbody> <tr><td>1</td><td>1804</td><td>TM1804</td><td>17</td><td>5603</td><td>UCS5603</td></tr> <tr><td>2</td><td>1809</td><td>TM1809</td><td>18</td><td>8903</td><td>UCS8903</td></tr> <tr><td>3</td><td>1812</td><td>TM1812</td><td>19</td><td>8904</td><td>UCS8904</td></tr> <tr><td>4</td><td>1913</td><td>TM1913</td><td>20</td><td>9812</td><td>UCS9812</td></tr> <tr><td>5</td><td>1914</td><td>TM1914</td><td>21</td><td>6703</td><td>SM16703</td></tr> <tr><td>6</td><td>1934</td><td>TM1934</td><td>22</td><td>6704</td><td>SM16704</td></tr> <tr><td>7</td><td>1814</td><td>TM1814</td><td>23</td><td>6813</td><td>SM16813</td></tr> <tr><td>8</td><td>1903</td><td>TM1903</td><td>24</td><td>6714</td><td>SM16714</td></tr> <tr><td>9</td><td>1903</td><td>UCS1903</td><td>25</td><td>2811</td><td>WS2811</td></tr> <tr><td>10</td><td>1904</td><td>UCS1904</td><td>26</td><td>2812</td><td>WS2812</td></tr> <tr><td>11</td><td>1909</td><td>UCS1909</td><td>27</td><td>2818</td><td>WS2818</td></tr> <tr><td>12</td><td>1912</td><td>UCS1912</td><td>28</td><td>2813</td><td>WS2813</td></tr> <tr><td>13</td><td>2903</td><td>UCS2903</td><td>29</td><td>1003</td><td>LX1003</td></tr> <tr><td>14</td><td>2904</td><td>UCS2904</td><td>30</td><td>9883</td><td>P9883</td></tr> <tr><td>15</td><td>2909</td><td>UCS2909</td><td>31</td><td>d250</td><td>DMX250K</td></tr> <tr><td>16</td><td>2912</td><td>UCS2912</td><td>32</td><td>d500</td><td>DMX500K</td></tr> </tbody> </table>	Number	Display	Chip	Number	Display	Chip	1	1804	TM1804	17	5603	UCS5603	2	1809	TM1809	18	8903	UCS8903	3	1812	TM1812	19	8904	UCS8904	4	1913	TM1913	20	9812	UCS9812	5	1914	TM1914	21	6703	SM16703	6	1934	TM1934	22	6704	SM16704	7	1814	TM1814	23	6813	SM16813	8	1903	TM1903	24	6714	SM16714	9	1903	UCS1903	25	2811	WS2811	10	1904	UCS1904	26	2812	WS2812	11	1909	UCS1909	27	2818	WS2818	12	1912	UCS1912	28	2813	WS2813	13	2903	UCS2903	29	1003	LX1003	14	2904	UCS2904	30	9883	P9883	15	2909	UCS2909	31	d250	DMX250K	16	2912	UCS2912	32	d500	DMX500K
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	Brightness setting	b000~b100:100-level brightness adjustment (b000 for full black)																																																																																																						
	Data backup	<ul style="list-style-type: none"> ●Flash:Supports manual backup of effect files from the SD card to the internal Nand Flash ●No Flash:Does not support backup to Nand Flash.Attempting to back up effects will result in a "FAIL" error. 																																																																																																						

5. Built-in Effects

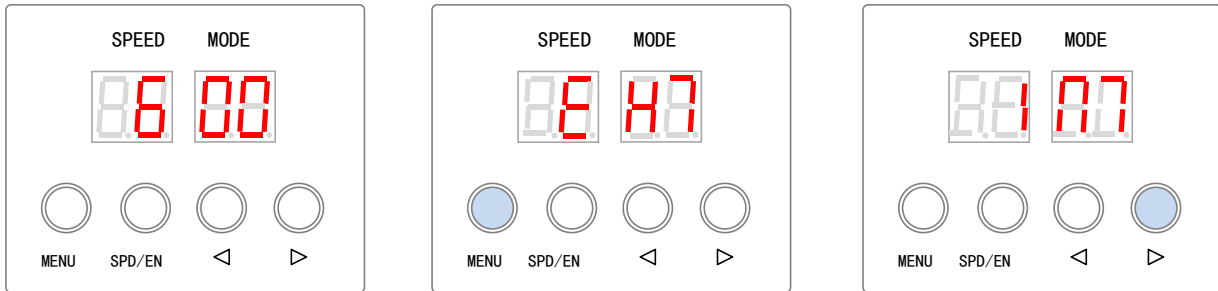
5.1. Enter Built-in Effect Mode

5.1.1. Controller Interface Operation

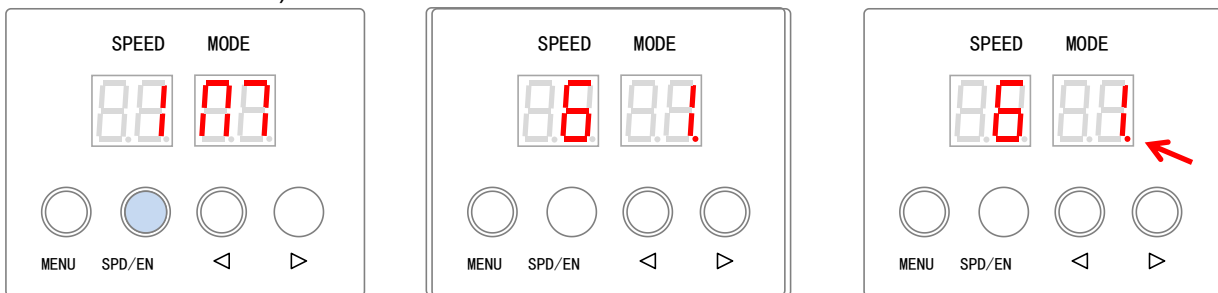
1. Press and hold the [MENU] button on the normal operation interface to enter the parameter setting menu page. The digital tube displays "INT" or "EXT".

("INT": Built-in effect "EXT": External effect)

2. Press the [◀] or [▶] buttons briefly to switch the playback effect status.



3. After selecting "INT", briefly press the [SPD/EN] button. The controller will return to its normal working state, entering the built-in effect mode (the decimal point on the right indicates that it is currently in the built-in effect state).



5.2. Impromptu Effects (Built-in Effects)

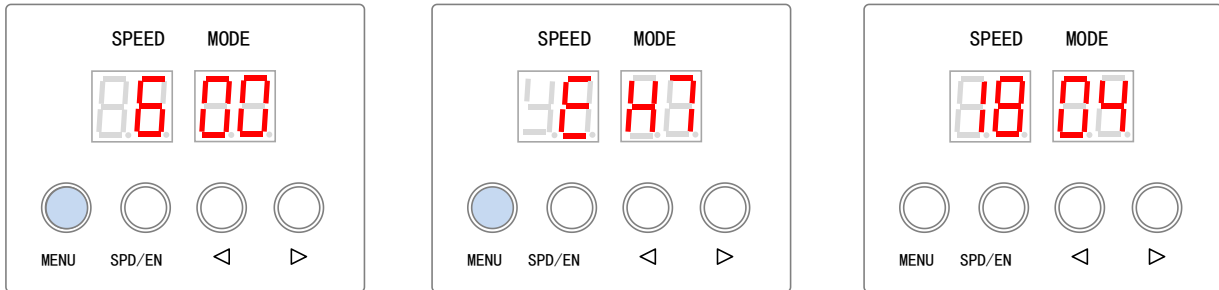
*Built-in Effect Drive Points:3 channels, 1024 points.

Mode	Animation	Preview	Impromptu	Mode	Animation	Preview	Impromptu
00	Mode 1-49 plays in a loop			25.	Roller / wave		Wave
xx	Mode 1-49 plays randomly			26.	Roller / wave		Wave
01.	Always light		Constantly On	27.	Roller / wave		Wave
02.	Always light		Constantly On	28.	Roller / wave		Wave
03.	Always light		Constantly On	29.	Roller / wave		Wave
04.	Always light		Constantly On	30.	Roller / wave		Wave
05.	Always light		Constantly On	31.	Trailing		Tail
06.	Always light		Constantly On	32.	Roller / wave		Wave
07.	Always light		Constantly On	33.	Wave		Flow
08.	Flicker		Gradient	34.	Roller / wave		Flow
09.	Flicker		Gradient	35.	Trailing		Tail
10.	Flicker		Gradient	36.	Roller / wave		Wave
11.	Gradually turn		Gradient	37.	Wave		Flow
12.	Gradually turn		Gradient	38.	Roller / wave		Flow
13.	Gradually turn		Gradient	39.	Breath (black)		With Black
14.	Trailing		Tail	40.	Breath (black)		With Black
15.	Trailing		Tail	41.	Breath (black)		With Black
16.	Trailing		Tail	42.	Breath (black)		With Black
17.	Trailing		Racing Horse	43.	Breath (duskiness)		Without Black
18.	Trailing		Racing Horse	44.	Breath (duskiness)		Without Black
19.	Trailing		Racing Horse	45.	Breath (duskiness)		Without Black
20.	Trailing		Racing Horse	46.	Breath (duskiness)		Without Black
21.	Trailing		Racing Horse	47.	Breath (duskiness)		Without Black
22.	Trailing		Racing Horse	48.	Breath (duskiness)		Without Black
23.	Roller / wave		Wave	49.	Breath (duskiness)		Without Black
24.	Roller / wave		Wave	50.	Black		Constantly On

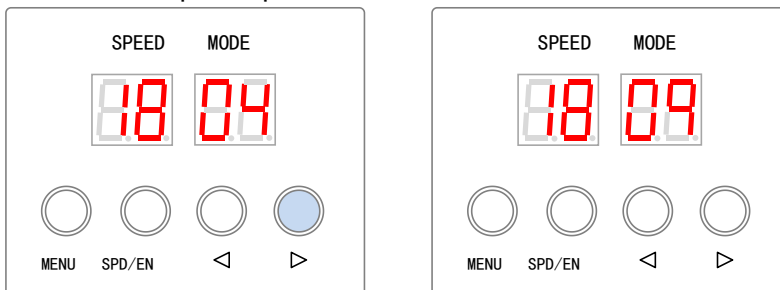
6. Built-in effect output chip settings

- Under normal operation interface Long-press the **【MENU】** key to enter the parameter setting menu page. Short-press the **【MENU】** key to switch to the selection of the built-in effect output chip.

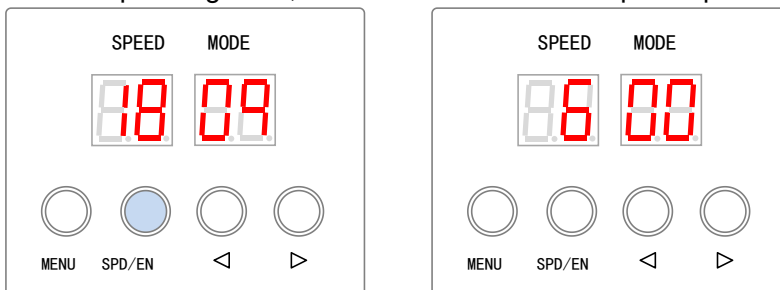
Note: "1804" TM1804



- Short-press [**<**] or [**>**] to switch the baud rate, and long-press [**<**] or [**>**] to quickly change the built-in effect output chip.

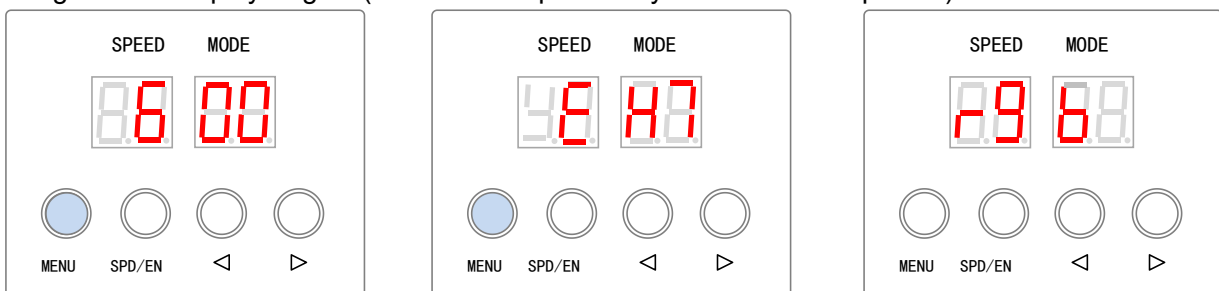


- After selecting the correct baud rate, briefly press the [SPD/EN] button. The controller will return to its normal operating state, and the internal effect output chip settings will be successful.

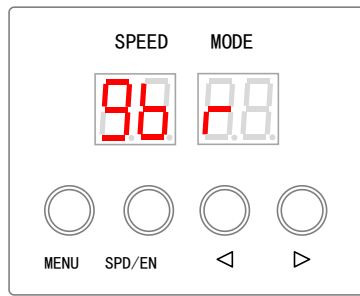
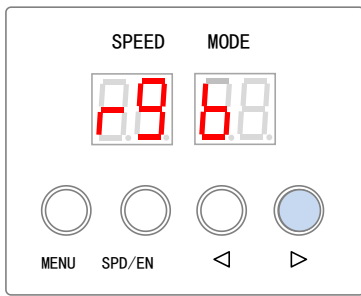


7. Channel Order Settings

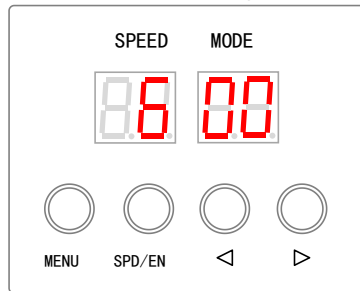
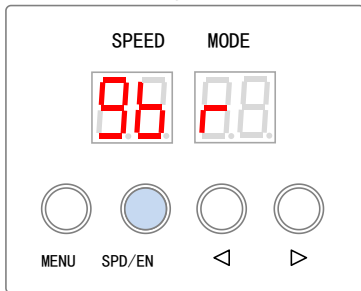
- Under the normal operation interface Long-press the **【MENU】** key to enter the parameter setting menu page. Short-press the **【MENU】** key to switch to the channel sequence setting. The digital tube displays "rgb*" (or shows the previously set channel sequence).



- Short-press [**<**] or [**>**] to switch the channel sequence combination, Long-press [**<**] or [**>**] to quickly switch the channel sequence combination.



3. After selecting the correct baud rate, short-press the [SPD/EN] button. The controller will return to its normal operating state and the channel sequence setting will be successful.



8. Brightness setting

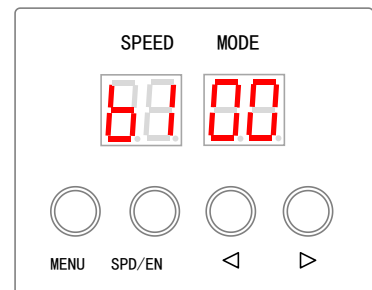
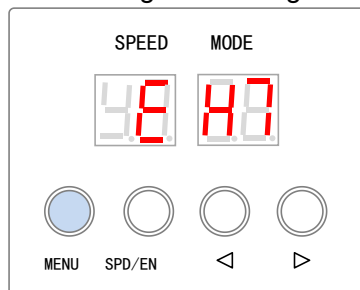
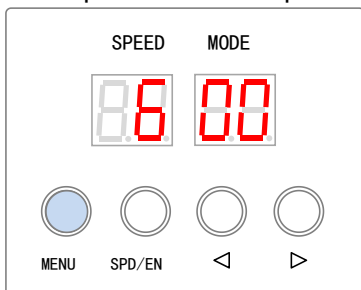
1. Under the normal operation interface

Long-press the **【MENU】** key to enter the parameter setting menu page.

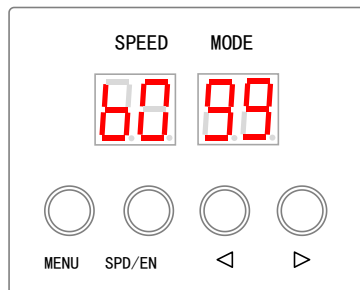
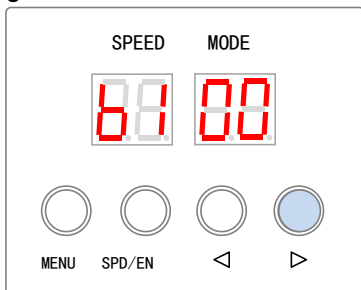
Short-press the **【MENU】** key to switch to the brightness setting.

The digital tube displays "b***".

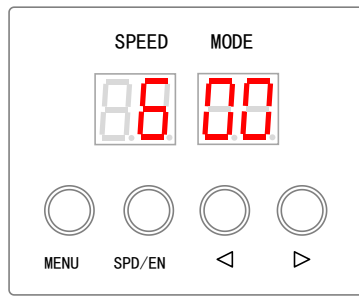
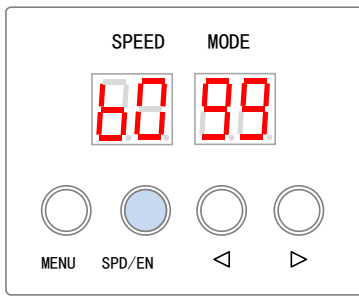
"b***": represents the output brightness. The brightness range is from 0 to 100.



2. Short-press [**◀**] or [**▶**] to adjust the brightness, and long press [**◀**] or [**▶**] to quickly change the brightness.



3. After selecting the correct baud rate, short-press the [SPD/EN] button. The controller will return to its normal operating state and the brightness setting will be successful.



9. Data Backup

The controller can switch to play the backup effect in case of SD card damage, file damage, or no SD card. It is necessary to back up the files in SD card (with a content size limit of 128M) to the controller in advance.

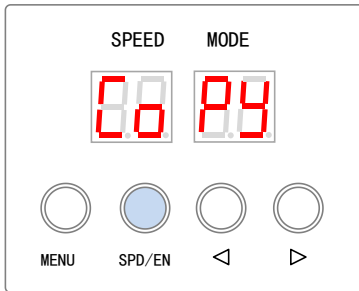
Note: No Flash version: Does not support the data backup function and only plays the content of the SD card directly.

9.1. Pop-up Prompt for Backup

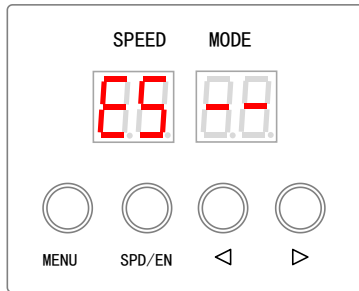
- Each time the controller is powered on, it will automatically read the effect files from the SD card and prompt whether a backup is needed.
- If a backup is required, when the controller displays "Copy", manually press [SPD/EN] to start the backup. The controller will then sequentially display: "ES - -" → "L - -" → "Succ". When "Succ" is displayed, it means the backup was successful.
- If a backup is not needed, simply wait for 3 seconds. The controller will automatically cancel the backup and enter the basic operation interface.

Note: The backup prompt will not appear under the following conditions:

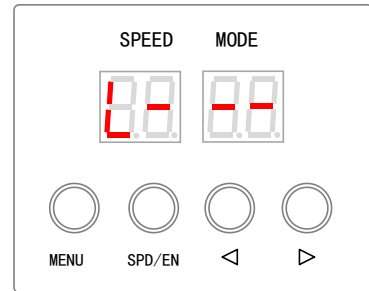
- The file size on the controller's SD card is greater than 128MB.
- The file on the controller is the same as the file on the SD card in terms of size (and content).



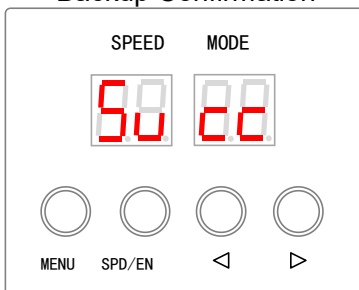
Backup Confirmation



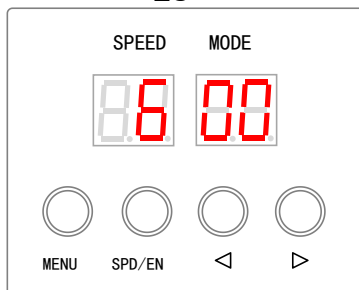
ES - -



L - - -



Succ



Main Interface

9.2. Automatic Backup

During the 30 consecutive power-on operations, if the following 3 conditions are met, a backup will be performed automatically. Wait until the controller displays "ES - -" indicating file deletion and "L - -" indicating file download, and "Succ" indicating successful backup. The startup time upon power-on will

be longer, which is a normal phenomenon. (If the conditions are not met, the process will be repeated for 30 times until the conditions are met before performing the backup.)

Condition 1: The size (content) of the files in the controller does not match that of the files on the SD card;

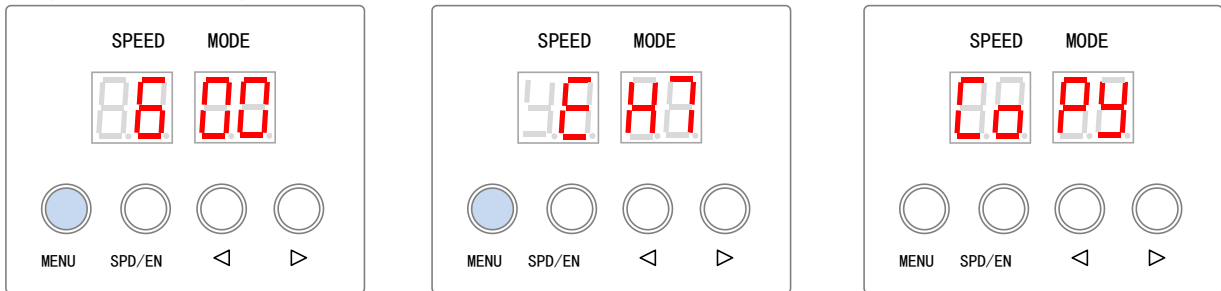
Condition 2: After power-on, the controller is in the external effect mode (EXT);

Condition 3: Throughout the entire process, no error messages have appeared.

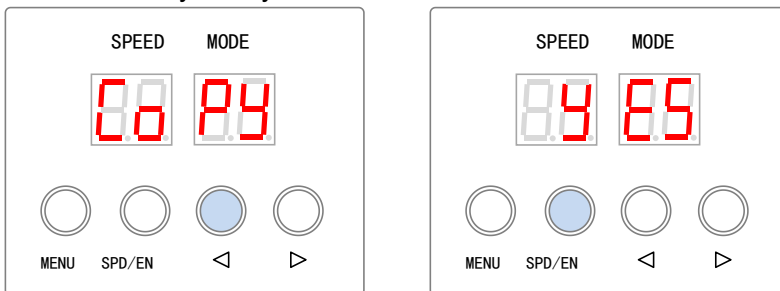
Note: The backup prompt will not appear if the controller does not meet the backup conditions.

9.3. Manual Backup

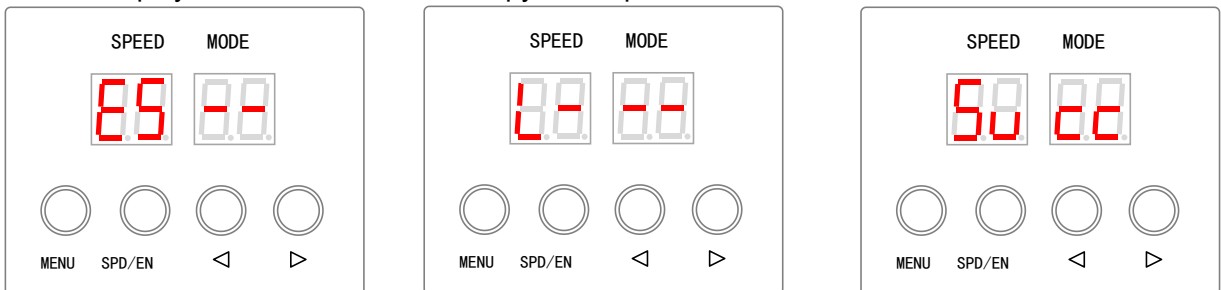
1. In the normal working interface, long-press the **【MENU】** key to enter the parameter setting menu page. Short-press the **【MENU】** key to switch to the option for backing up effect files. The digital tube displays the text "copy".



2. Press the **【◀】** or **【▶】** keys briefly to make the digital display show "YES", then press the **【SPD/EN】** key briefly to confirm.



3. Display the images in sequence: Figure 1 "ES - -" ➔ Figure 2 "L- -" ➔ Figure 3 "Su cc". When "Su cc" is displayed, it indicates that the copy is complete.

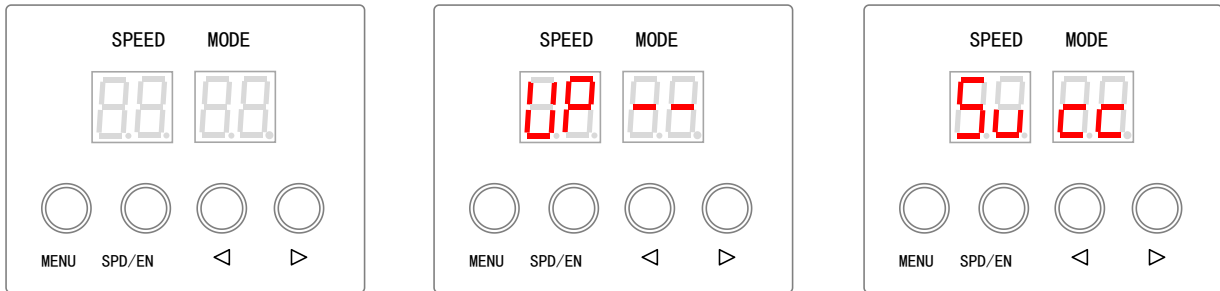


10. Standalone firmware upgrade program

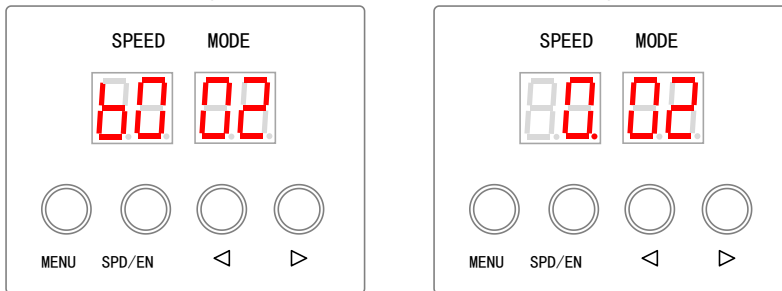
The controller supports reading the SD card parameters file (T311_Nxx.bin) to update its procedure.

Please refer to the follow steps.

- 10.1. Please refer to MANUAL FORMAT AND COPY CARD and copy the T311_Nxx.bin file into the SD card.
- 10.2. Power on the controller after inserting the SD card. The nixie display shows "UP --" and it will start to update.
- 10.3. The nixie display shows "Succ" when finishing update. Power off the controller and insert the SD card with the xx.bin file into. After the controller is powered on, it can continue to work.

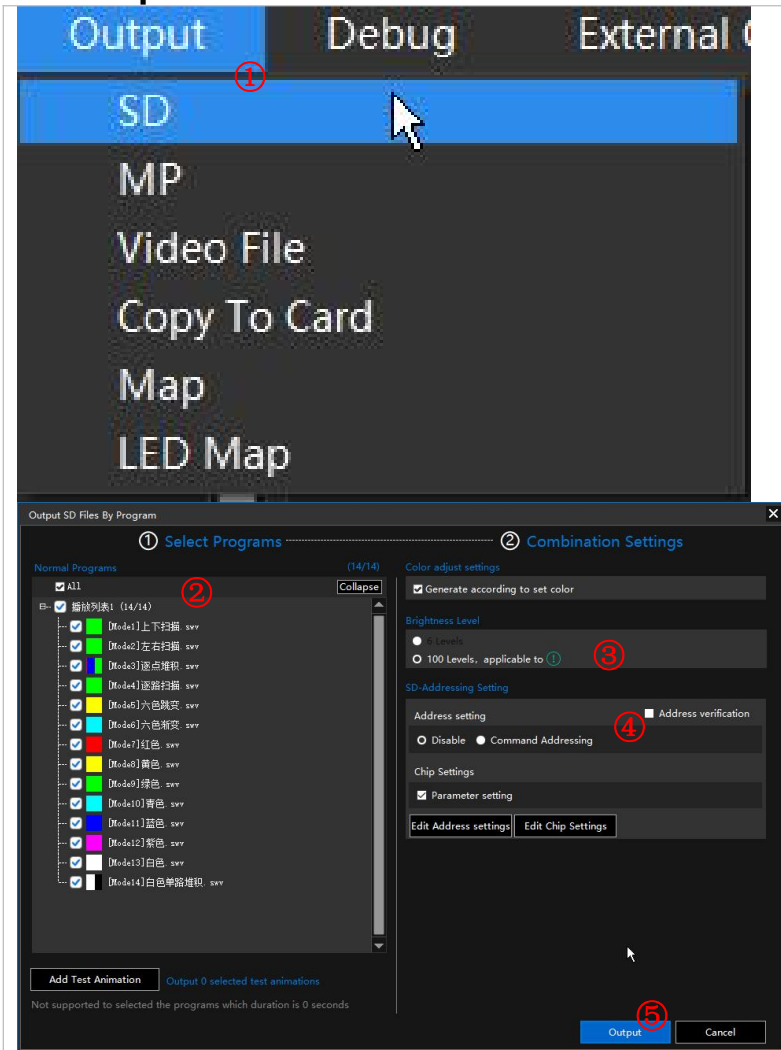


- 10.4. For details on how to check the firmware version, after the controller is powered on or the firmware is upgraded, the nixie display will show the version information. "b002" indicates the boot version and can be ignored; "0.02" represents the regular firmware version.



11. Output SD card files and card copying

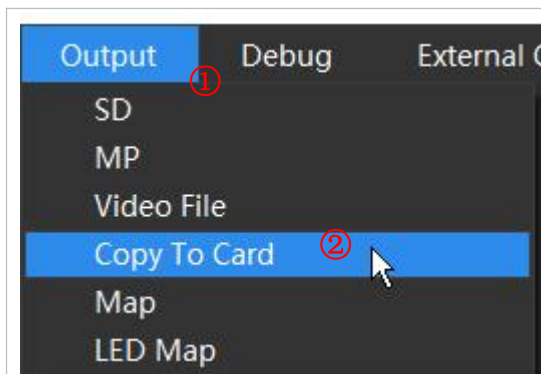
11.1. Output SD file



- ① Click on LED Player 【Output】 - 【SD】 , then open the settings window;
- ② Select the program files to be output;
The total number of selected programs must be less than 96,and the single program frame count should not exceed 65,000 frames;
- ③ Select "Color adjust Settings";
- ④ Select"Brightness Level";
- ⑤ Click on 【Output】 .

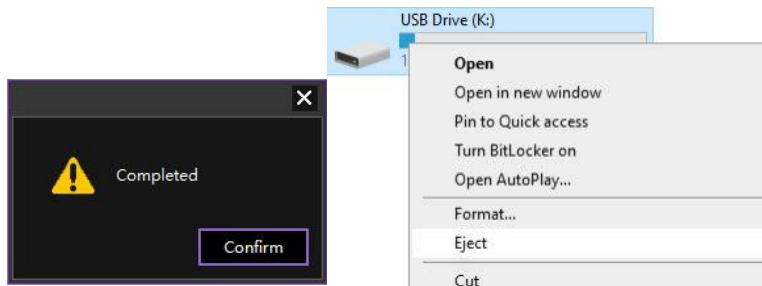
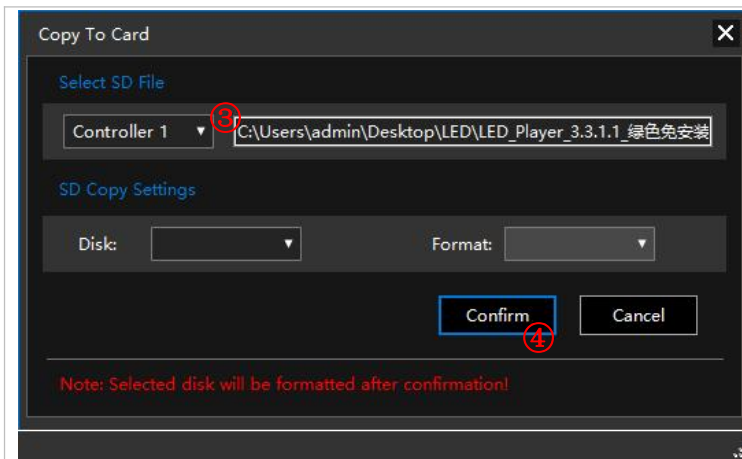
Note: By default, all programs and one-click coding files will be output; when no effect programs are set for the project, output is not supported.

11.2. Software Card Insertion



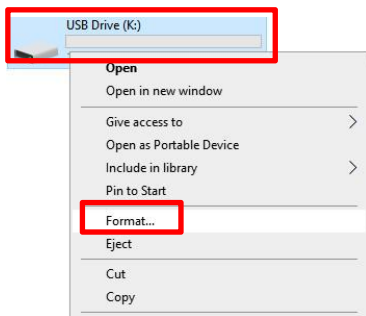
- ① Insert the SD card into the computer;
- ② Click on LED Player [Output] - [Copy To Card], and the card-copying window will open;
- ③ Select the controller number to be output (the corresponding file will be automatically read);
- ④ Click [Confirm].

*After the card is copied, please right-click on the SD card on my computer and select "Safe Eject".

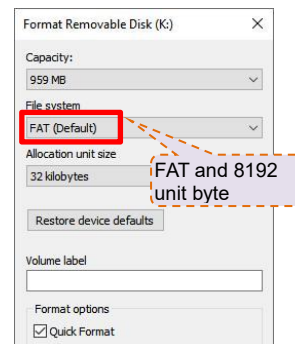


11.3. MANUAL FORMAT AND COPY CARD

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

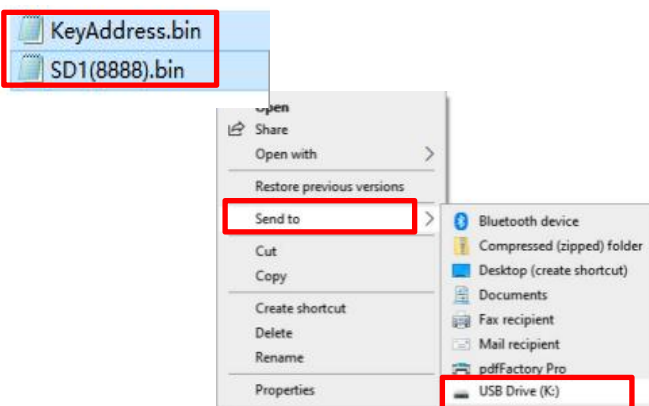


2) Select File system FAT and 8912 (can check "Quick Format") click START.

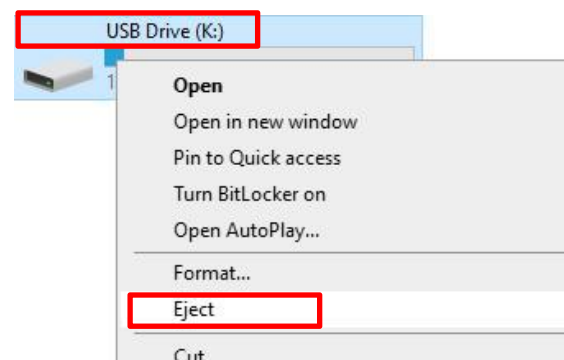


3) Right click SD*(8888).Bin file and KeyAddress.bin file, send the file to removable disk.

(KeyAddress.bin is a one-key write code file, only copy this file when one-key write code is required).







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



12. ERROR CODE AND TROUBLE SHOOTING

Error	Introduction	Reason
E 01	No SD card or SD card port is broken.	<ol style="list-style-type: none"> 1. Insert the SD card. 2. If an error occurs when inserting the SD card, the SD card holder is damaged. Contact us.
E 02	SD card no response or breakdown.	<ol style="list-style-type: none"> 1. Please replace the new SD card. 2. If an error occurs when inserting the SD card, the SD card holder is damaged. Contact us.
E 03	There is no file in the SD card or SD card is breakdown.	Copy SD card file again.
E19	The effect file does not match.	SD card file error. or unfinished video merging. Please open the corresponding code to output the SD card file and copy again.
E21	The updated operation is wrong.	Please update again.
E23	The update file is lost.	Please contact us.
E66	The number of channels set in the controller does not match the number of channels in the effect file.	<ol style="list-style-type: none"> 1. Please set the controller's channel number according to the number of channels in the playback effect file. 2. Please replace the effect file with the same number of channels as the controller.
r03	Backup files exceed nandlash size	1. Use effect files no larger than 128MB

13. FITTINGS

Picture	Name	Quantity	Remarks
	SD 卡	1	
	6P terminal blocks	3	
	Flat-head screwdriver	1	
	Bluetooth remote control N5	Optional	
	SW301 compatible firmware	Optional	For details, please refer to 12.5

Note:
 Right of revising this specification reserved.
 (Please understand there will be no extra notice when change is occurred.)
 The information in the manual is for reference only,
 please don't regard it as guarantee of the product.