User Manual

Name: High-voltage DMX controller with LCD display
Model: DMX300

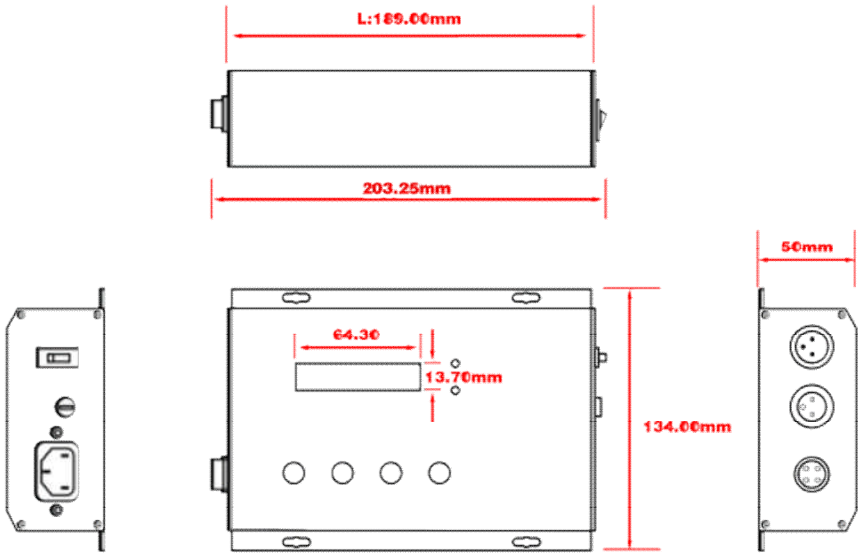
I. Summarization

High-voltage DMX controller with LCD display is a kind of controller with LCD digital display interface and used for controlling the 4-line 3-channel(common anode)RGB color changing LED lamps, up to 34 kinds of changing programs to choose. At the same time it can accept DMX-512 international standard digital control. The controller can be stand-alone operation, automatically online, accepting standard DMX512 console control signal to work. According to the customers' actual demand, it can achieve changing effects such as jumpy changing, gradual changing, stroboscopic changing

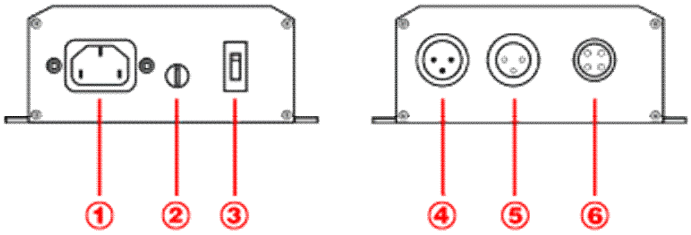
II. Technical Parameters

- Working temperature: -20-60℃
- Input voltage: AC 100～240V 50/60HZ
- Output voltage: DC 100～240V
- Output connect way: common anode 4 lines 3 channels
- External dimension: L203XW134XH50 mm
- Packing size: L310XW170XH60 mm
- Net weight: 0.77kg
- Gross weight: 1.22kgs
- Static power consumption: <3.96W
- Maximum output current: 3*2A
- Dimming frequency: 800Hz
- Maximum output power: 660W(110V), 1320W(220V)

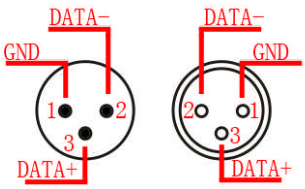
III. External Dimension



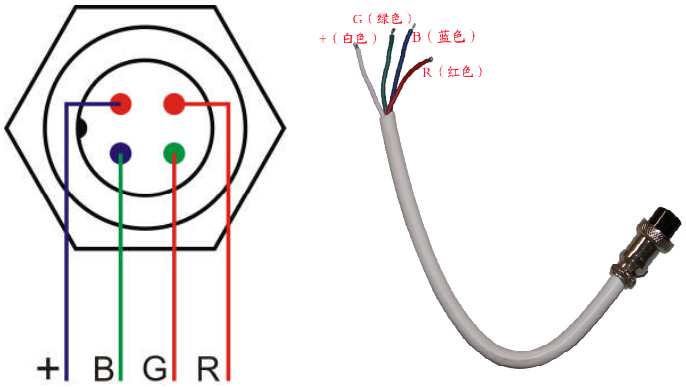
IV. Interface Instruction:



①power supply interface: input AC100～240V
②Insurance block: when short circuit, can protect the whole circuit
③Switch: control whole controller power on/off
④,⑤DMX512 signal input/output interface: interface sequence and detailed see below picture



⑥Load output interface: load output, interface detail instruction as below picture



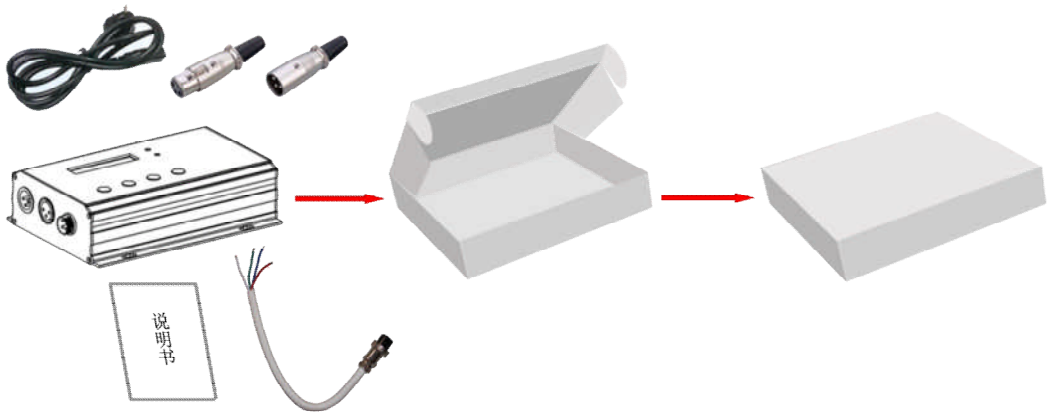
+——Load common positive pole

R——Load red output pole

G——Load green output pole

B——Load blue output pole

V. Product Packing Schematic Diagram



VI. Direction for Use

1. Connect the load wire at first, following by the power wire. Please make sure short circuit will not occur between connecting wires before you turn on the power.
   The controller has 4 function setting keys: MODE, PARA, UP, DOWN

2. MODE key choose in turn or press UP, DOWN key to choose:

No.	Display content	Instruction
1	BLACK	Static black
2	STATIC RED	Static red
3	STATIC GREEN	Static green
4	STATIC BLUE	Static blue
5	STATIC YELLOW	Static yellow
6	STATIC PURPLE	Static purple
7	STATIC CYAN	Static cyan
8	STATIC WHITE	Static white
9	COLOR CHANGE	Seven color jumpy changing
10	COLOR CHANGE2	Jumpy changing (flicker)
11	6 COLOR CHANGE	Six color jumpy changing
12	6 COLOR CHANGE2	Jumpy changing (flicker)
13	RGB CHANGE	Three color jumpy changing
14	RGB CHANGE2	Jumpy changing (flicker)
15	RG CHANGE	RG jumpy changing
16	RB CHANGE	RB jumpy changing
17	GB CHANGE	GB jumpy changing
18	WHITE CHANGE	White stroboflash
19	7 COLOR SMOOTH	Seven color gradual changing
20	4 COLOR SMOOTH	Four color gradual changing
21	RG SMOOTH	RG gradual changing
22	RB SMOOTH	RB gradual changing
23	GB SMOOTH	GB gradual changing

24	COLOR GRADUAL	Seven color fade in and out
25	RGB GRADUAL	Three color fade in and out
26	WHITE GRADUAL	White fade in and out
27	RG GRADUAL	RG fade in and out
28	RB GRADUAL	RB fade in and out
29	GB GRADUAL	GB fade in and out
30	R GRADUAL	R fade in and out
31	G GRADUAL	G fade in and out
32	B GRADUAL	B fade in and out
33	ADJUST MODE	0-255 level adjusted color
34	AUTO PROGRAM COLOR CHANGE2	Auto operation selecting result of changing
35	DMX512 MODE	DMX512 control order
36	DMX512 DECODER	DMX512 decoder

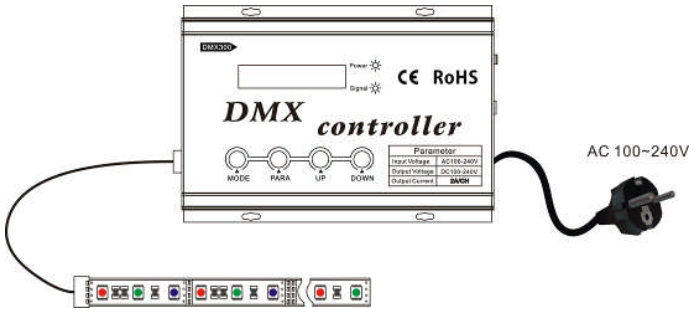
3. Press PARA to adjust in turn: (1－8 is static state, no adjust function)

No.	Parameters display	Instruction	
		Maximum	Minimum
1	RUN SPEED	100	0
2	RUN TIMES	100	0
3	LOAD DEFAULT	Restore the factory parameter	

4. UP: increase parameter key/preset parameter.
5. DOWN: decrease parameter/preset parameter.
6. AUTO PROGRAM mode is repeatedly cycle running part or all of 7-32 patterns run, you can set whether participating in repeated cycle of operation or not in RUN TIMES.
7. RUN TIMES: compiling the run times of the pattern under 34 AUTO PROGRAM, if the run times is 0, you can skip the pattern, that means not running the pattern.
8. Preset parameter: each form has independent factory preset parameter, which is kept in controller separate. LOAD DEFAULT can recover the factory parameter of the form. If under AUTO PROGRAM mode, using LOAD DEFAULT can unified recover the parameter of all forms to factory parameter.
9. 32 ADJUST MODE is manual dimming, it can adjust the brightness of RGB 0-256 level respectively.
10. 34 DMX512 MODE is controlling all patterns (the first address) and speed（the second address).
11. 35 DMX512 DECODER is DMX decoder, completely accepting outside DMX512 signal to work. Taking 4 addresses, R(the first address), G(the second address), B(the third address), reserved channel(the fourth channel), in need of setting address（by pressing PARA).

VII. Typical Applications

Typical application 1---Independent function



Typical application 2---DMX function