Instruction Manual

NAME: LED DMX master controller
MODEL: VS-SZ300

    Before installing this product，Please read this manual carefully. Ensure full understanding of this specification to avoid unnecessary damage and additional costs.

Product Description

    VS-SZ300 adopts the advanced micro control unit, as a DMX512 master controller, It can send the DMX-512 standard digital control signal which is internationally widely used. Connection with DMX decoder, the decoder can be increased to continue to expand output channels, To achieve the effect of multiple point changes. For
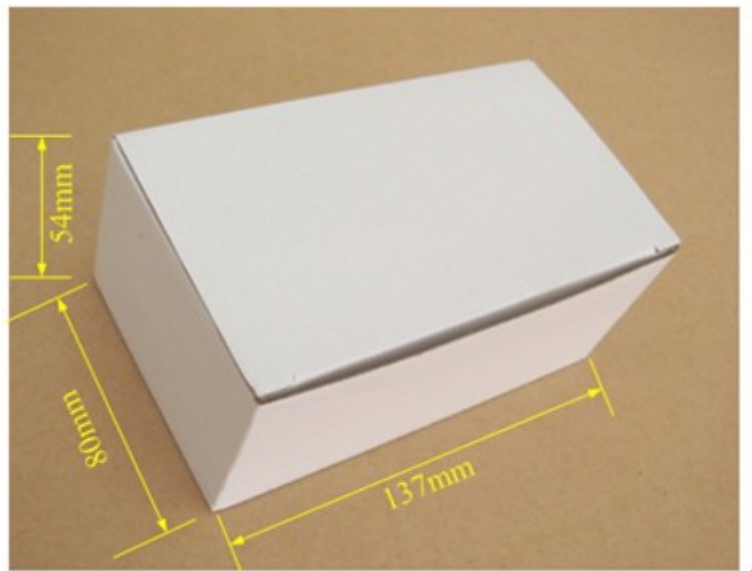
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example: synchronous static,   jumpy changing, gradual changing, stroboflash and other effects of change.

External Dimension

（Controller and Remote control）

（Packing size）

Technical Parameters

Working temperature	-20-60℃
Supply voltage	12V~24V

Output DMX512 signal	1 channel
0utput PWM	3 channels
Output current	<4A(each channel)
Output power	12V:<144W, 24V:<288W
Connecting mode	common anode
External dimension	L130×W70×H24 mm
Packing size	L137×W80×H54 mm
Net weight	260g
Gross weight	280g
Frequency of RF remote control	433.9MHz
Frequency of PWM signal output	120Hz
Slave numbers	**255**

Interface Specifications

DMX input/output interface:

Adopt Standard RJ45 network cable port.

Power interface:

Adopt male and female connector with screw.

Direction for use

1. Control with buttons on the controller

There are 4 buttons on the controller, the functions of every button as bellow:

(1).ON/OFF: ON/OFF button，it can open or close output in any case.

(2). UP: Mode + / Speed + /Brightness +

(3).DOWN: Mode -/ Speed -/Brightness -

(4).Pare:Point adjustment / Mode adjustment / speed adjustment/ dim adjustment function switch (The first LED displays "P" for the point adjustment "H" for model adjustment, shows "S" for the speed adjustment, shows "d" for the brightness adjustment.)

2. Control with remote control

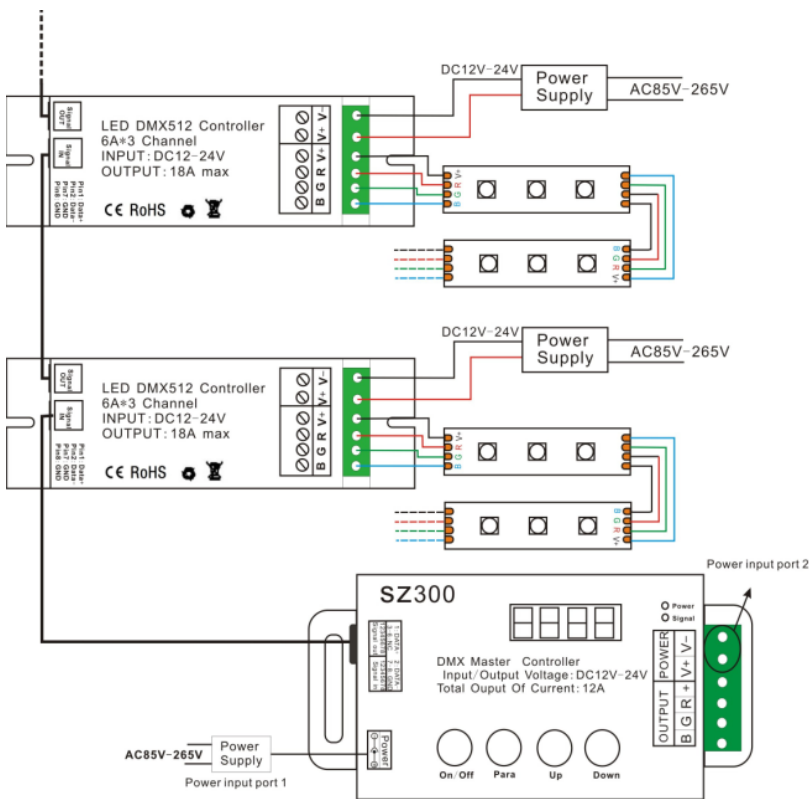It have an remote control with 8 keys. The function of the buttons as bellow:

Button	Description
On/Off	ON/OFF button，it can open or close output in any case.when it is in OFF state,pressing up or down to adjust slave points.the most points are 255
Pause	Play/pause button, pressing this button to pause, you can see the static affection of led.
Speed up	Speed quick button, the least number is 1.
Speed down	Speed slow button, there are 99 step in all, the most number is 99.
Brightness up	Adjusting brightness button, the brightness progression will add one when press the button every time, there are 230 steps, from 25-255.
Brightness down	The brightness progression will subtract one when you press the button every time;
Mode up	Pattern function key, up direction, there are 48 programs in all.
Mode down	Pattern function key, down direction.

Mode changes have been listed as follows:

Items	Patterns	Remarks	Items	Patterns	Remarks
1	Static red		25	White head on collision	Brightness is adjustable, Speed is adjustable.
2	Static green		26	Red breathing lamp to forward direction	
3	Static blue		27	Green breathing lamp to forward direction	
4	Static yellow		28	Blue breathing lamp to forward direction	
5	Static purple	Brightness is adjustable, Speed is unadjustable.	29	Yellow breathing lamp to forward direction	
6	Static cyan		30	Cyan breathing lamp to forward direction	
7	Static white		31	Purple breathing lamp to forward direction	
8	Red stroboflash	Speed and Brightness are adjustable	32	White breathing lamp to forward direction	
9	Green stroboflash		33	Red breathing lamp to backward direction	
10	Blue stroboflash		34	Green breathing lamp to backward direction	
11	Yellow stroboflash		35	Blue breathing lamp to backward direction	
12	Purple stroboflash		36	Yellow breathing lamp to backward direction	
13	Cyan stroboflash		37	Cyan breathing lamp to backward direction	
14	White stroboflash		38	Purple breathing lamp to backward direction	

15	Three-color jumpy changing		39	White breathing lamp to backward direction	
16	Seven-color jumpy changing		40	RGB 3 colors trail to forward direction	Speed is adjustable, Brightness is unadjustable
17	Three-color gradual changing	Brightness is unadjustable, Speed is adjustable.	41	RGB 3 colors trail to backward direction	
18	Seven-color gradual changing		42	Red forward stack	
19	Red horse race lamp forward direction		43	Green forward stack	
20	Green horse race lamp to forward direction		44	Blue forward stack	Speed and Brightness are adjustable
21	Blue horse race lamp forward direction	Speed and Brightness are adjustable	45	Red backward stack	
22	Red horse race lamp backward direction		46	Green backward stack	
23	Green horse race lamp to backward direction		47	Blue backward stack	
24	Blue horse race lamp backward direction		48	Automation	1～47

Typical Applications

⚠ Notes

1. Supply voltage of this product is DC12V~24V, never connect to others or AC220V.
2. Lead wire should be connected correctly according to grade that connecting diagram offers.
3. This product is not to overload;
4. Warranty of this product is one year, but exclude the artificial situation of damaged or overload working.

Common Problems

Problems	Possible cause	Solution
1. Lamp does not light after power	Power cord is not properly connected, or there is not output switching power supply	Connect the power cord properly or replay the power
	Lamp power cord is not connected or short circuit	Connected lighting power cord
2. After connecting some of the load the controller does not work	The connected load is too large，so that it has burned in some of the components of the controller	Replace parts of components or replace the controller