K–SY–408–T

Technical parameters

Product specification: 220L×140W×45H (mm)

The input voltage: AC110-240V【wide voltage power】

Output signals: TTL×8 roads

Output power: <5W

Working temperature: 0℃~60℃

Relative humidity: ≤50% RH

Protection grade: IP0 (not dustproof, waterproof)

Using environment: Please install in dry indoor environment, avoid dust, moisture and rain

Net weight: 1200g

Form a complete set of accessories: SD card by 1 , the power cord by 1 .

Functions overview

1, TTL signal output, control various types of conventional chips.

2, 32-65536 level gray scale control, can real restore image color and details.

3, 512 level of three colors independent brightness control, make accurate to adjust the white balance more simple and effective.

4, attached to the professional production software, users can make any effect in the SD card to use on its own.

5, 8 roads independent signal output, each way can control the largest 1024 points, suitable for large-scale engineering and remote transmission, can be used more combination.

6, adjustable effect, adjustable speed, adjustable the volume and sensitivity(optional).

7, optional audio, voice control, remote control, DMX decoding function.

8, six levels of brightness adjustment function, brightness as the control.

9, shady function.

10, personalized channel setting, more simple convenient operation.

Connection mode

1．The input side description

Interface/ button	Function description
ON/OFF	Power switch
SD	SD card slot
AUDIO	Audio input, connect sound source device through the audio cable (CD/microphone)
IN	Main control input, connect the last controller via net cable
OUT	Main control output, connect the next controller via net cable
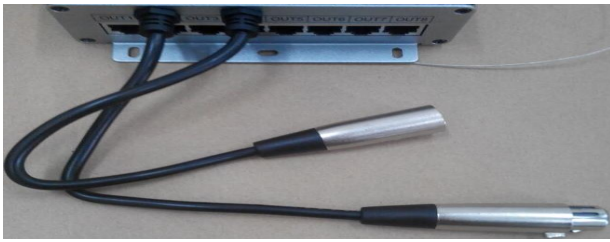
Both XLR for input, DMX512 control computer connection. Line sequence as the international standard.

2. The output side description
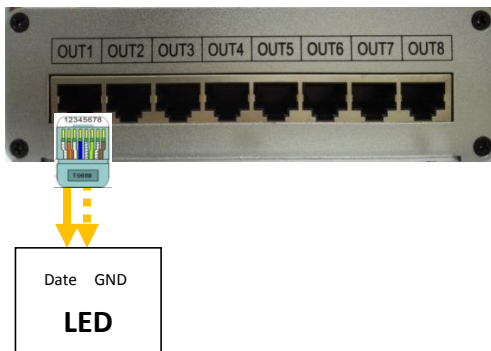
line	1	2	3	4	5	6	7	8	
color	green	blue	Blue white	orange	Orange white	brown	Brown white	Green white	SPEED
signal	DATE	GMD	GMD	GMD	GMD	GMD	GMD	GMD	

Basic Operation

Button	Button description	Function description
MENU	Menu key	Pattern/ sound/ audio mode selection: long press 2 seconds to enter menu setting mode
SPEED/ENTER	Speed key	Normal mode: 1-18 class Exchange mode: 1-9 class
	Enter key	On menu mode, press [enter] to save the current setting, lights will change the effect immediately.
MODE	Mode-key	Mode decrease exchange
MODE	Mode+key	Mode increase exchange

Menu Status		LED display	Operation Instruction
Enter into menu setting			Long press [MENU] 2 seconds, into menu setting mode
Menu setting	Master-slave	Master Slave	1）press【▷】【◁】select master-slave, press【ENTER】in; 2) press【▷】【◁】select; 3) press【ENTER】save settings; 4) press【MENU】out
	DMX address	DMX address**	1）press【▷】【◁】select DMX address, press【ENTER】in; 2) press【▷】【◁】select; 3) press【ENTER】save settings; 4) press【MENU】out
	Time, date	week date time	1）press【▷】【◁】select time and date, press【ENTER】in; 2) press【▷】【◁】select; 3) press【ENTER】save setting; 4) press【MENU】out
	Language	Chinese English	1) press【▷】【◁】select language, press【ENTER】in; 2) press【▷】【◁】select; 3) press【ENTER】save setting; 4) press【MENU】out
	Brightness setting	Brightness **	1) press【▷】【◁】select brightness setting, press【ENTER】in; 2) press【▷】【◁】select; 3) press【ENTER】save setting; 4) press【MENU】out
	Sensitivity setting	Sensitivity **	1）press【▷】【◁】select sensitivity, press【ENTER】in; 2) press【▷】【◁】select; 3) press【ENTER】save setting; 4) press【MENU】out
exit menu setting			Long press【MENU】2 second，exit menu setting mode, back to control mode

Pattern adjustment

Manual press button panel〝MENU〞button, select pattern/ voice control/audio control.

mode	sign	auto mode	Manual mode (default)	note
pattern	—	auto	01-96	sound control and audio control common mode
sound control	◼	auto	01-19	The user can set the number of audio and sound control mode by software
audio control	◼	auto	01-19	

图案模式

Pattern mode

按【MENU】1 次，声控模式（声控功能）

press (menu)1 time,sound control mode(sound function)

声控模式

Sound mode

按【MENU】1 次，音控模式（音控功能）

press (menu)1 time,audio control mode(sound function)

音控模式

Audio mode

图案模式（图案功能）

pattern mode(pattern function)

Note: if the effect of the SD card file without certain mode (such as acoustic control), press MENU will not switch mode.

Speed adjustment

According to the controller panel "SPEED" button to adjust the speed of play, the smaller the value, the faster the speed.

specification	speed																		note
main control speed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Independent speed
	01 AC		02 AC		03 AC		04AC		05 AC		06 AC		07 AC		08 AC		09 AC		synchronization speed
number of frames (ms)	30	40	50	60	70	80	90	100	110	120	150	180	210	250	290	500	1000	2000	
number of frames per second	33	25	20	17	14	13	11	10	9	8	7	6	5	4	3	2	1	0.5	

Independent speed: the speed is based customer load guardrail tube in meters, less than the actual speed is not displayed.

Synchronous speed: all the controllers are set to the same speed and the same pattern, at the same time with electricity, can be synchronized. After manually modified, need to back to electricity at the same time.

Speed =04

Press【SPEED】10times，Speed =14

Speed =04 AC
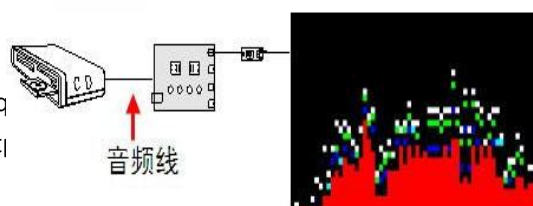

Press【SPEED】 one time，Speed =05 AC

Additional function

Audio function

Using audio line connected to the controller and audio output eq ... e controller will level according to the volume of the input and out ... h

spectrum ribbon length, the volume high spectrum ribbon high jump, the volume is low spectrum ribbon low dance,
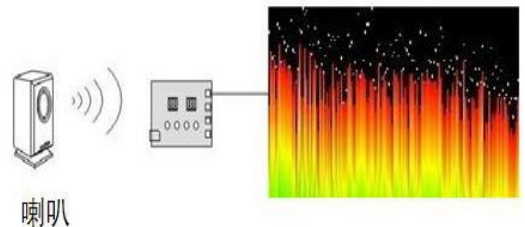
Additional accessories: ×1

Acoustic mode defaults to 1~19, customers can make any number of the acoustic effect.

Sound control function

The controller built-in microphone, put the controller near the sc
Manual adjust to sound mode, the controller depend on the volume
audio band, the volume high spectrum ribbon high jump, the volume

Additional accessories: no

Sound control mode defaults to 1~19, customers are free make any number of the acoustic effect.

Remote control function

Built-in remote control module, sending the wireless signal, remote control
distance up to 10~15 meters.
Available remote control distance change speed and mode.
Each remote control and controller is corresponding. Such as remote control
  and controller in remote control module "MENU SPEED" number are not
  corresponding, can't use the remote control.
Each button function such as right:

MENU — SPEED
MODE ◁ — MODE ▷

Auto Mode set up：

或
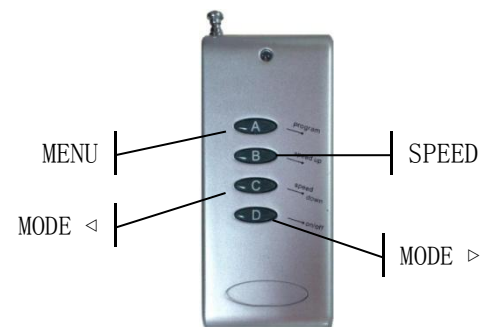
Auto Mode   Press【A（MENU）】one time   Audio control Auto Mode   or sound controlAuto Mode

Speed set up:
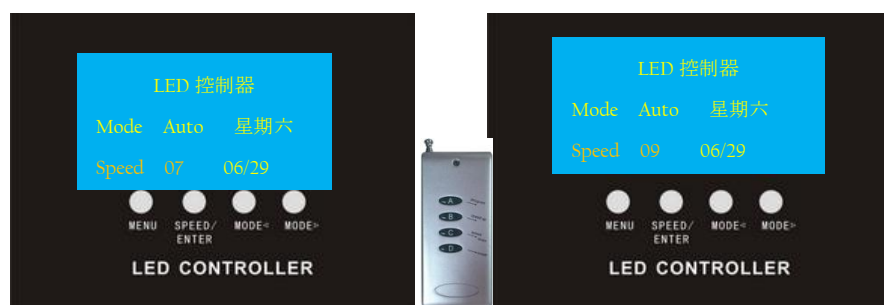
Speed =07   press【B（SPEED）】twice   Speed =09

Normal Mode set up:

Mode , Mode =Auto   press【D（MODE ▷）】one time   Mode =01

Sound control Mode set up:

Sound control Mode，Mode =Auto   press【C（MODE ◁）】one time   Mode =19(the last Mode)

Audio Mode set up:

Audio Mode , Mode =Auto   press【D（MODE ▷）】one time   Mode =19(the last Mode)
※Sound control and audio control is 1-19.

DMX512 decoding function

Customers can through the DMX512 controller adjust sensitivity effect and the speed and volume. Controller can be set by the same or different address, make DMX512 control computer at the same time, many sets of the same or different control effects of the controller, the actual effect is determined by the controller of the SD card and mode choice.

Interface specifications:

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

Male mouth for a receiving end, accept DMX512 control computer and/or a DMX device on the output DMX512 signal, mother mouth is connected side, connect a   DMX512 controller or DMX device.

The controller address setting

1)   Long press "MENU" for 2 second, enter the menu mode,

Press   to choose DMX address, press "ENTER" to enter;

2)

3)   Press   to choose;

4)   Press "ENTER" to save setting;

5)   Press "MENU" to exit.

※If DMX512 decoder controller more than 100 meters distance,
  please add the repeater.
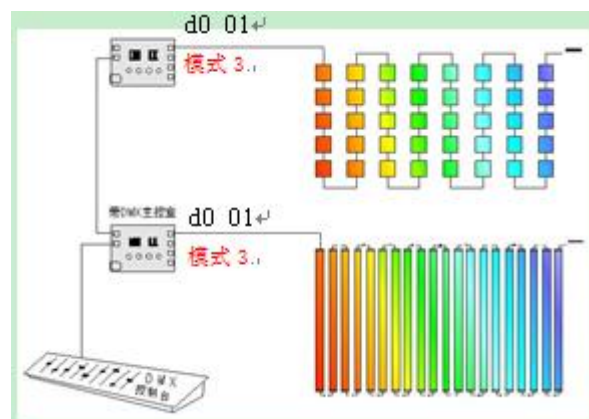
Definition of push rod of DMX console

Channel	Name	Volumn	function	
1	Sensitivity	0-42	Bluntness MAX	
		43-85	2	
		86-128	3	
		129-171	4	
		172-214	5	
		215-255	Sensitivity MAX	
2	Brightness	0-42	100%	
		43-85	50%	
		86-128	25%	
		129-171	12.5%	
		172-214	6.25%	
		215-255	3.125%	
3	Pattern/ sound/audio	0-85	Pattern	
		86-170	Sound	
		171-255	Audio	
4	Speed	0-13	1	1 AC
		14-27	2	
		28-41	3	2 AC
		42-55	4	
		56-69	5	3 AC

		70-83	6	
		84-97	7	4 AC
		98-111	8	
		112-125	9	5 AC
		126-139	10	
		140-153	11	6 AC
		154-167	12	
		168-181	13	7 AC
		182-195	14	
		196-209	15	8 AC
		210-223	16	
		224-237	17	9 AC
		238-255	18	
5	synch state	0-127	DC synch	
		129-255	AC synch	
6	Black screen	0-128	Black screen	
		129-255	General (display effect)	
7	Auto Mode	0-126	No	
		129-255	Auto Mode	
8	Mode 1-19	0-12	No	
		13-24	Mode 1	
		25-36	Mode 2	
		37-48	Mode 3	
		49-60	Mode 4	
		61-72	Mode 5	
		73-84	Mode 6	
		85-96	Mode 7	
		97-108	Mode 8	
		109-120	Mode 9	
		121-132	Mode 10	
		133-144	Mode 11	
		145-156	Mode 12	
		157-168	Mode 13	
		169-180	Mode 14	
		181-192	Mode 15	
		193-204	Mode 16	
		205-216	Mode 17	
		217-228	Mode 18	
		229-255	Mode 19	
9	Mode 20-39	0-12	No	
		13-24	Mode 20	
		25-36	Mode 21	

		37-48	Mode 22
		49-60	Mode 23
		61-72	Mode 24
		73-84	Mode 25
		85-96	Mode 26
		97-108	Mode 27
		109-120	Mode 28
		121-132	Mode 29
		133-144	Mode 30
		145-156	Mode 31
		157-168	Mode 32
		169-180	Mode 33
		181-192	Mode 34
		193-204	Mode 35
		205-216	Mode 36
		217-228	Mode 37
		229-240	Mode 38
		241-255	Mode 39
10	Mode 40-59	0-12	No
		13-24	Mode 40
		25-36	Mode 41
		37-48	Mode 42
		49-60	Mode 43
		61-72	Mode 44
		73-84	Mode 45
		85-96	Mode 46
		97-108	Mode 47
		109-120	Mode 48
		121-132	Mode 49
		133-144	Mode 50
		145-156	Mode 51
		157-168	Mode 52
		169-180	Mode 53
		181-192	Mode 54
		193-204	Mode 55
		205-216	Mode 56
		217-228	Mode 57
		229-240	Mode 58
		241-255	Mode 59
11	Mode 60-79	0-12	No
		13-24	Mode 60
		25-36	Mode 61
		37-48	Mode 62

		49-60	Mode 63
		61-72	Mode 64
		73-84	Mode 65
		85-96	Mode 66
		97-108	Mode 67
		109-120	Mode 68
		121-132	Mode 69
		133-144	Mode 70
		145-156	Mode 71
		157-168	Mode 72
		169-180	Mode 73
		181-192	Mode 74
		193-204	Mode 75
		205-216	Mode 76
		217-228	Mode 77
		229-240	Mode 78
		241-255	Mode 79
12	Mode 80-96	0-14	No
		15-28	Mode 80
		29-42	Mode 81
		43-56	Mode 82
		57-70	Mode 83
		71-84	Mode 84
		85-98	Mode 85
		99-112	Mode 86
		113-126	Mode 87
		127-140	Mode 88
		141-154	Mode 89
		155-168	Mode 90
		169-182	Mode 91
		183-196	Mode 92
		197-110	Mode 93
		111-124	Mode 94
		125-138	Mode 95
		139-255	Mode 96

DMX channel function in detail

Sensitivity: a total of 6 levels, routine table 1 is the most slowest, 6 is the most acute sensitivity (increasing).

Bright degree: a total of 6 levels, routine control table is 100%, in turn, brightness decline of 50%, 25%, 12.5%, 6.25%, 3% (brightness decreasing).

Figure/sound/voice: a total of 3 ways. Control table for conventional figure Mode, followed by sound Mode and voice Mode. The menu function set in function.

Speed: a total of 18 or 9 levels, namely "Speed regulating" function.

Step with: a total of 2 kinds state, that is, choose a non-synchronous Speed (18 gear) or synchronous Speed (9).

Black Screen: a total of 2 kinds state, routine control table for black screen; Push half position for the conventional control, Auto select control table first non-zero gear Mode（from black screen into regular, the effect is to start running, not from midway begin to recover operation）.

Auto Mod: a total of 3 ways, the routine control table is invalid, driving control table half position according to the [channel 3], and run the corresponding Auto Mode (figure Auto, sound Auto, voice Auto).

Mode 1-96: preference on channel running(such as channel 8 and 9 are the certain Mod, but the controller to display only the front channel effect, namely channel 8 corresponding Mode).

Cascade function

If a single controller is not enough to drive the lamps of the whole project, by using a cascade controller to control. Cascade way is through the wiring master controller to control, make the project to achieve complete synchronization state.

From the accused S must be connected to the main control M can work, Cascade controller using high-quality wring, distance of up to 100 meters. A and B signal end only to orange white + orange two twisted pairs, GND signal end only white to brown + brown two twisted pairs (T568B shall be charged on both ends of the cable). Customers can use the Internet to extend, or clamp is made according to the straight line method.

Main control M   **Sub control S**

※1, if the distance between the cascade controller over 100 meters, please add A86 repeater.

2, if you do not take DMX/wifi/ remote control, the main control is from control; if these functions, DMX control much of XLR head, WiFi and a remote antenna, from the machine did not.

Thank you for using!