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SD Card Controller—SY-30-T series

USER MANUAL

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Overview

1. SY-30 controller is applicable to LED Digital Lamp/screen in small and medium size and point light source used in outline of building.

Solution: Single wire --TM1803/TM1809/TM1804/TM1812, etc

UCS1903/UCS1909/UCS1912/UCS2903/2909/2912, etc;

WS2811, BS0825/BS0901/BS0902 etc;

Seekway 2-wire singlechip (J69/J08/F16/J12/J68/F01, etc)

Seekway 3-wire singlechip (D63/D06/D08/D16/D12/D01, etc)

DMX512 high-power module (P14/P15, etc)

2. Equipped with Seekway LED Player software. Users can freely create effects and put it in the SD card.
※ User can reset the software and program effect according to the practical project.
3. Several TTL signal output channel (Data independence)
4. Auto or manual selection, speed adjustment is available. Sound volume and alternating current synchronous are optional.
5. Audio active, music active, encryption and DMX decoders are the additional function for optional.

Installation Environment

Use in door, keep away from moist.

Parameter of hardware

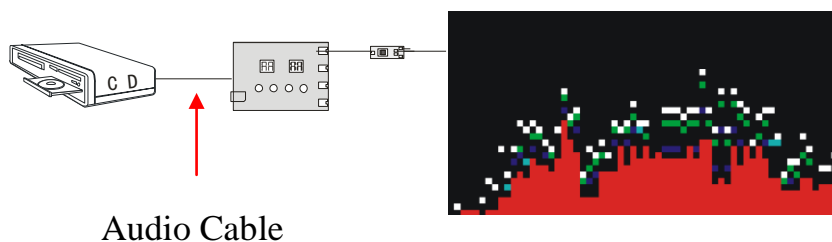
1. Size: 192L×122W×45H (mm)
2. Power: less than 3W
3. Input voltage: AC220V
4. Working Environment: -20℃ ~ 70℃
5. Signal Output port: 4 route/8 route
6. Signal output: TTL signal
7. Accessory: [SD card] 1 pcs,
[Terminal blocks] 1pcs/route.

Connection of SY-30 T series

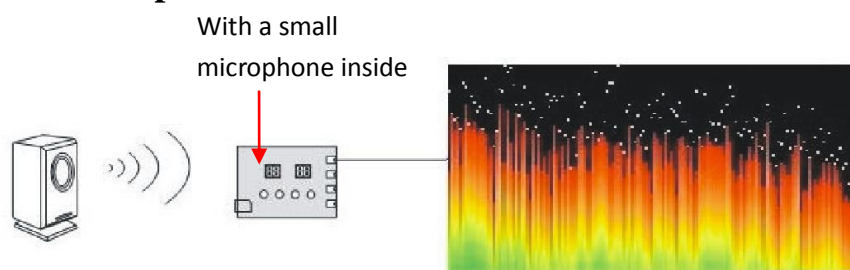
The circuits are different in different applications. We have made the appropriate settings according to the practical requirements, so please do not change them arbitrarily.

A. SY-304-T

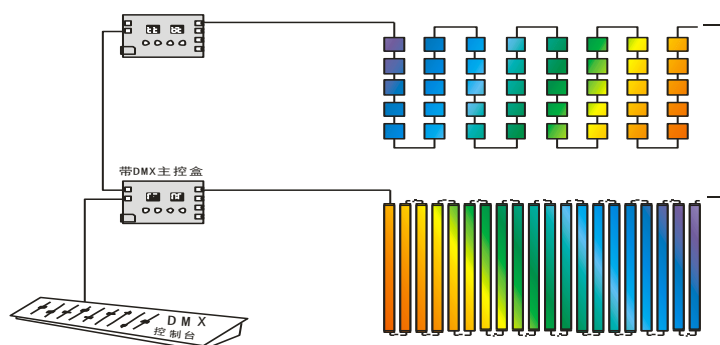
Audio Respond Option



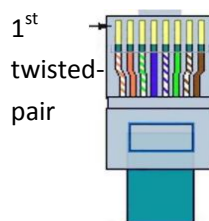
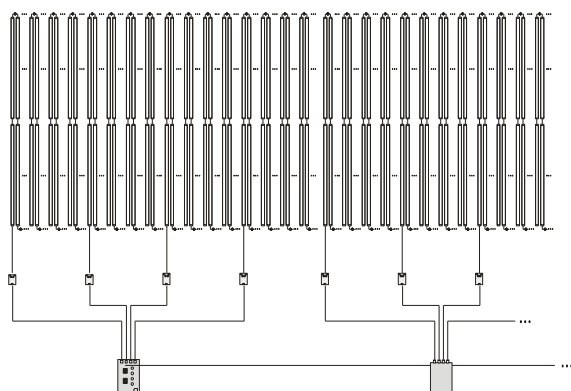
Music Active Option



DMX control



Cascade Solution



Signal cable connection:

Follow the standard "T568B" to connect the signal cable:

Use the 1st and 2nd twisted-pair (orange and white-orange) to make the A and B signal.

Use the 7th and 8th twisted-pair (white-brown and brown) to make the GND signal.

※ Customer can extend the network cable which offer by Seekway.

Speed

From 1 to 12 to adjust the display speed from fast to slow by pressing button [Speed].

	display value of Speed											
Common Mode	1	2	3	4	5	6	7	8	9	10	11	12
Synchronic Mode	22		24		26		28		30		32	

※ The speed is set according to the quantity of the Digital Tube. If the display value is less than the actual speed, then the speed value will not be displayed.

※ If the display value is larger than 26, the state will enter to the alternating current synchronous mode automatically.

Mode

Select the sound option or pattern mode by the button of MODE+ or MODE-.

Sequence of mode	Auto-display Pattern Mode	Manual Display Pattern Mode
Display value of mode	0	1~99

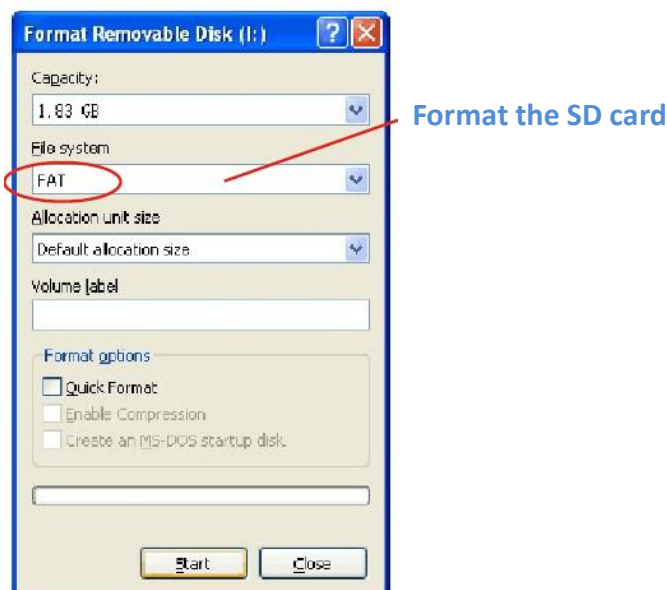
※ Press [Auto/Speed], the system will turn to Auto-display pattern mode. (The entire pattern is displayed circularly.)

SD Card Usage and Recording

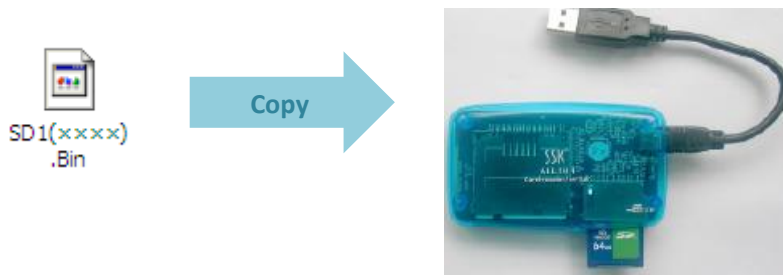
Don't insert or pull out the SD card when power on, otherwise the SD card maybe damaged.

Please refer to the Operating Instruction of the SD Card Recording.

1) Format the SD card



2) Copy the “SD1(****).bin” to SD card. (Only one bin file could exist in SD card)



Error Explanation of SD Controller

Code	Error explanation	Reason
E01	Lack of SD card	Contact loose in card slot or do not have SD card
E02	No respond from SD Card	Malfunction or the unsupported continuously read of the SD Card
E03	Unable to reset SD card	Malfunction or the unsupported continuously read of the SD Card
E04	Unable to activate SD card	Malfunction or the unsupported continuously read of the SD Card
E05	Unable to read from SD card	malfunction or loose contact of the SD card.
E06	Unable to search any code	Combine unfinished/card unformatted / without files
E07	The S/N of the SD card and SD card controller are not match	Error file of SD Card
E09	The S/N of the controller and software are not match	S/N of player and the controller are not match.

