



<http://www.seekway.com.cn/e/>

<http://www.3dled.net/e/>



SD Card Controller—SW-301

USER MANUAL

Jiangmen Seekway Technology LTD

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Overview

1. SW-301 controller is applicable to different types of LED Digital Lamp and various point source used in outline of building.
Solution: 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 (P12/P14/P15/P16/P17, etc)
2. Equipped with Seekway LED Player software. Users can freely create effects and put it in the SD card.
3. Auto or manual selection, speed adjustment is available. Sound volume and alternating current synchronous are optional.
4. All type of sub-controller and DMX512 module are compatible with SW-301 solution.

Parameter of hardware

1. Size: 192L×122W×45H (mm)
2. Power: less than 3W
3. Input voltage: AC220V
4. Working Environment: -20℃ ~ 70℃
5. Installation environment: Use in door, keep away from moist.
6. Signal Output: 2 route RS-485 signal & 8 route TTL signal
※ the same data in each route
7. Capacity: Single wire lighting: 1280 pixel
Seekway 2-wire lighting: 120m (For J69 tube, capacity is 240m)
Seekway 3-wire lighting: 960 pixel
DMX 512 module: 170 pixel (recommend)/ 340 pixel (need decoder chip)
8. Accessory: [SD card] 1 pcs
[Terminal blocks] 1pcs/route.

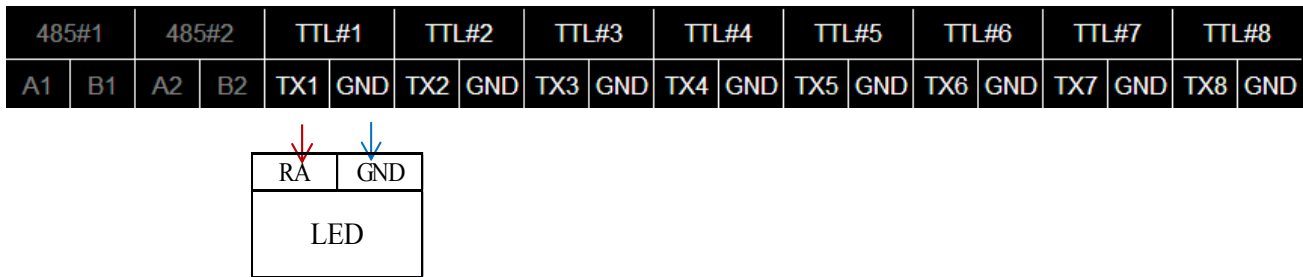
Connection of SW-301

Transmission distance: If use the high-quality network cable, distance between main-controller digital tube can be 20m to 50m.

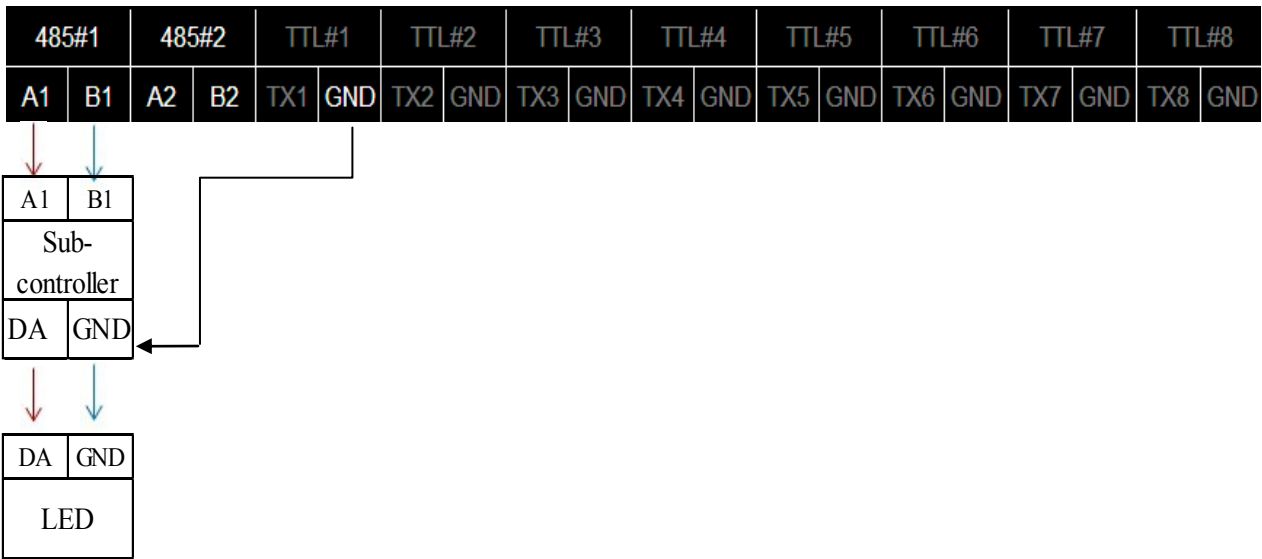
The circuits are different in different applications. We have made the appropriate settings according to the practical requirements, so please do not change them arbitrarily.

Color grey indicates the port is unused.

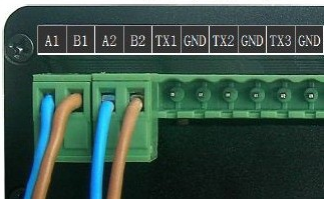
A. Controller with TTLsignal can be connected to Digital Tube directly.



B. Controller with RS-485 signal control the Digital Tube through signal converter.



Connection of the signal terminal (RS-485signal)



Speed

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

	display value of Speed											
General 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

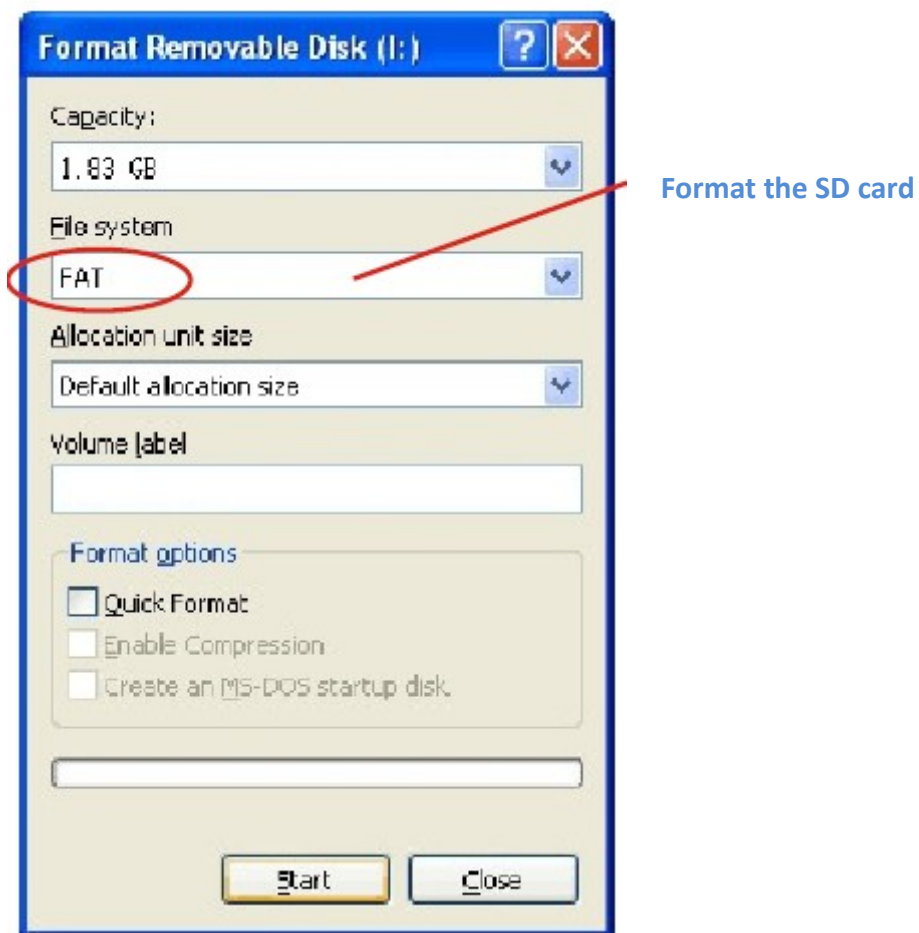
※ Press [Auto/Speed], the system will turn to Auto-display pattern mode. (The entire pattern is displayed circularly.)

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

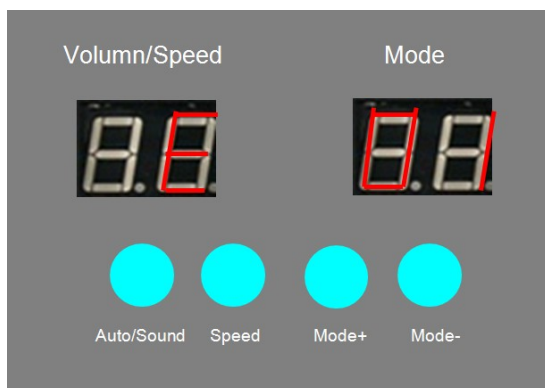


2) Copy the “SD1(****).bin” to SD card. (Only one bin file could exist in SD card)



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.



Red (Power supply)	When power on, the indicator light will in red.
Green (Signal)	When power on, the indicator light will blackout. When under operation, the light will flicker rapidly. (The flicker frequency is accordance with the speed of current effect.