XB-C100 Code Editor

一、Product features:

1.XB-C100code editor：Large display panel, convenient touch screen operation and rich display.

2.XB-C100 supports operating system upgrade.

3.XB-C100 adopts built-in battery, support continuous work for 10 hours.

4.XB-C100 supports mainstream model DMX512 chip, can write code and write parameters to DMX512IC.

5.XB-C100 can perform DMX512IC lamp channel address test and test results.

6.XB-C100 port outputs enhanced TTL and 485 differential (DMX) signals, which can load TTL/DMX512 lamps.

7.XB-C100 can support maximum 512/2048 pixels (DMX lamps with a maximum of 512 pixels, for example with three channels).

8.XB-C100 22 built-in test effects (optional three-channel / four-channel built-in effects).

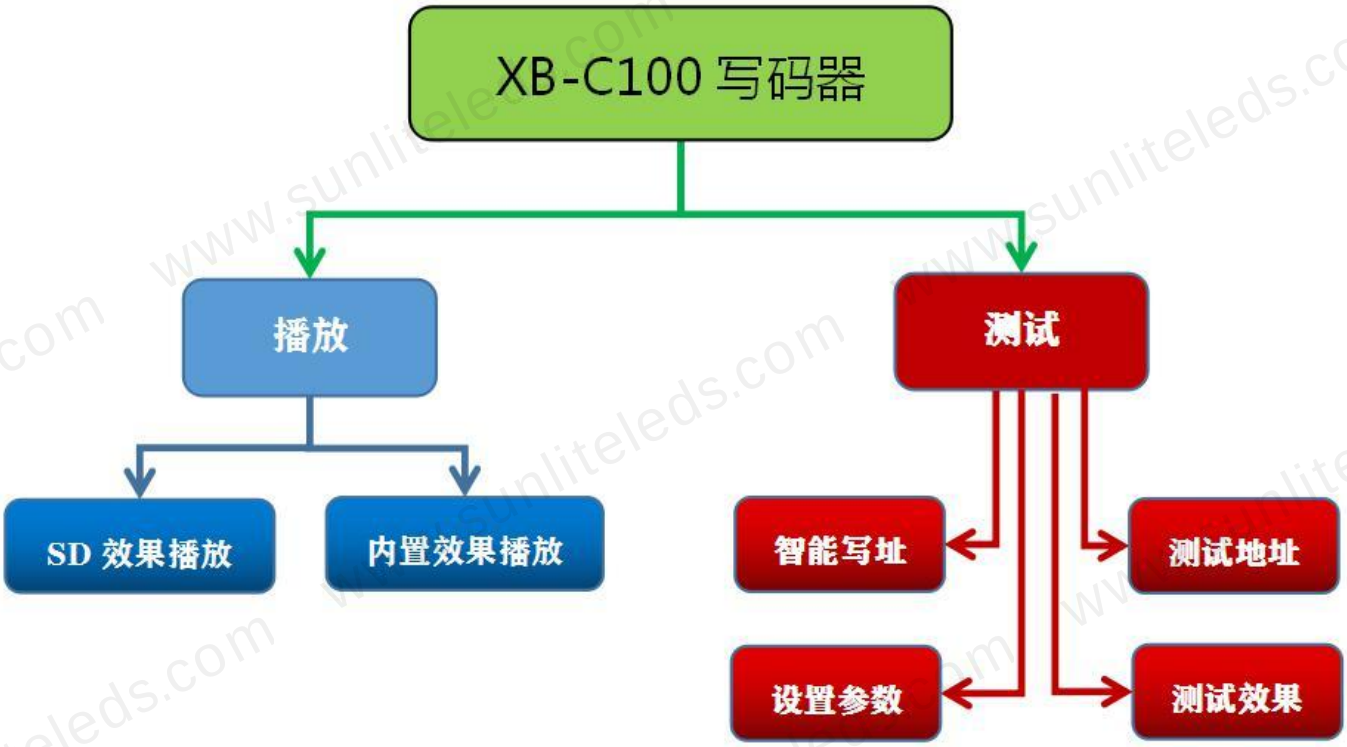
9.XB-C100 can insert SD card to play effects (software effect output selection K-1000), using the same as the K-1000C controller.

二、Code editor interface definition:

Code editor interface and indicator definition			
No.	**Name**	**Port silkscreen**	**Definition**
1	Charging port	VCC/GND/VCC	DC12-24V power supply socket
2	Power Indicator	POWER	Power indicator (normally on when power on)
3	Status Indicator	Status	Status Indicator
4	SD card slot	SD	SD card slot (play program)
5	Signal output port	GND/A/B/ADDR	Single wire DMX512 connection port
6	USB charging port	DC5V	USB DC 5V power supply port
7	Switch	SWITCH	Code editor switch

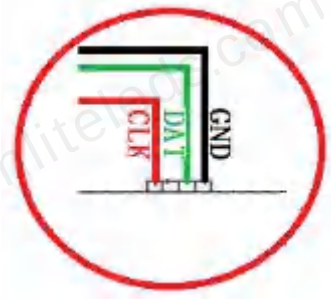
8	Touch screen	----	Code writer operation panel (touch screen)

三、Function definition

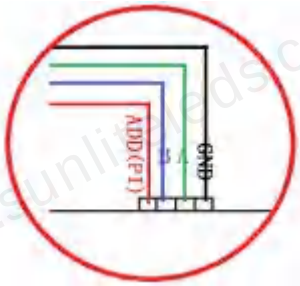


四、Output port wiring mode：

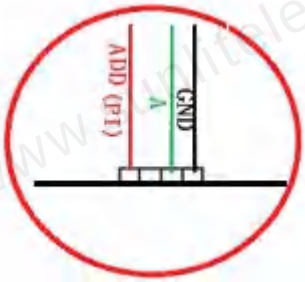
①. Conventional lighting wiring diagram



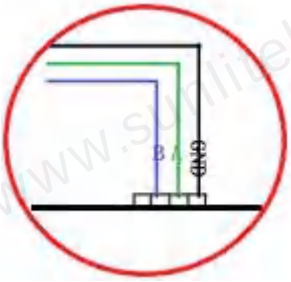
②. DMX512 differential signal line wiring diagram



③. DMX512 single wire signal line wiring diagram



④. DMX512 differential signal line wiring diagram (AB line address)



五、Test function

After the code writer is turned on, select "Test" in the start interface to enter the test interface;

The test is divided into four major functions

①Smart address writing ②Test address ③Set parameter ④ Test effects

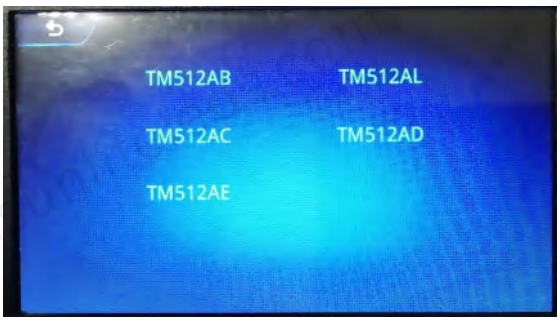
1. Smart address writing

1.1 Click "Smart Address" to enter the chip classification interface 1, as shown below;

1.2 Click to select chip series to enter the next page;

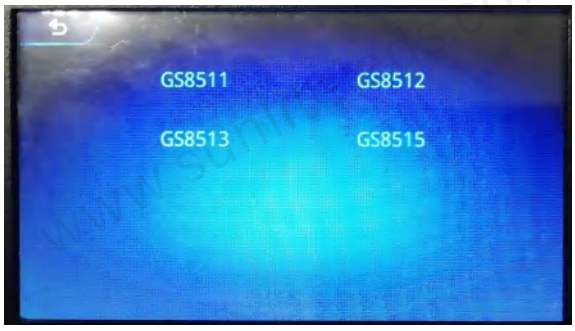
Chip series	Chip model		Remarks
UCS series	UCS512-A	UCS512-B	Refer to picture a
	UCS512-C4	UCS512-CN	
	UCS512-D	UCS512-E *Note 1	
	UCS512-F	UCS512-G6	
SM series	SM1651X-3CH	SM1651X-4CH	Refer to picture b
	SM17512	SM1752X	
	SM17500	SM17500 Self-channel setting	
	SM1852X		
TM series	TM512AB	TM512AL	Refer to picture c
	TM512AC	TM512AD	
	TM512AE		
HI series	Hi512A0	Hi512A4	Refer to picture d
	Hi512A6	Hi512D	
GS series	GS8511	GS8512	Refer to picture e
	GS8513	GS8515	
Others	QED512P		Refer to picture f

Picture a



picture b

picture c



Picture d

picture e

picture f

NOTE 1：UCS512E address write, Need to confirm that the fixture's own channel has been written.

1.3 Click to select the chip to be coded and enter the code-writing interface (for example, UCS512C4)

Start channel: start address of the first fixture, +/- button or click number to change (usually 1)

Interval channel: the channel address interval of the lamp IC, +/- button or click the number to change (this value needs to be confirmed by the actual lamp)

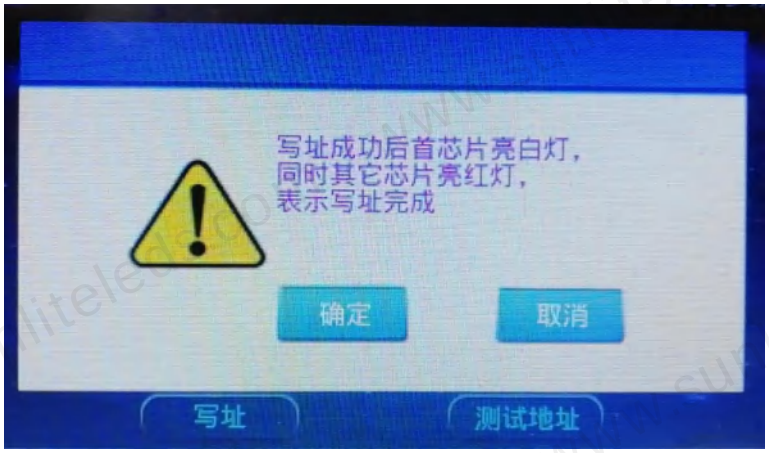
Write address: Click this button, and the code writer will send a code write instruction;

Test address: After writing the address, click to test the address (the page will turn to the "test address" page);

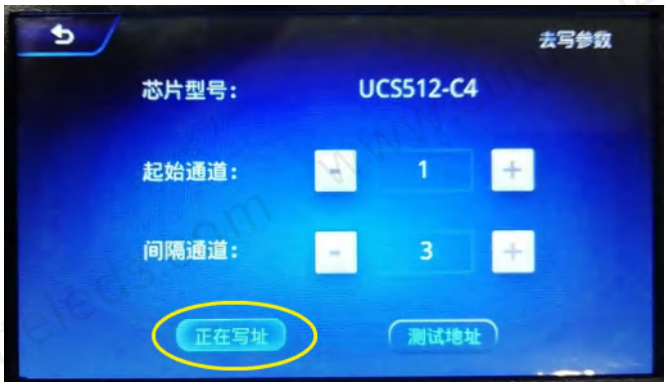
Go to write parameters: After clicking, the code writer will write the parameters (the page turns to the "parameter setting" page).

1.4 After filling in the reated address data, click the "Address" button;

1.5 Click "Address", the code writer will pop up a pop-up window, confirm the prompt or wait a few seconds, the pop-up window will close. (The content of the prompt pop-up window is mostly the response of the lamp lighting during the setting operation; it can be used as a test for the success of the operation), click "write address" again to start writing the address;



1.6 When addressing is in progress, the page displays: "Addressing now"; after finishing addressing, the page displays: "Addressing".



1.7 After complete the address edition, can click “test the address” to test.

2. Test the address

Interval channel: channel interval between light points (maximum 255);

Compensation mode: Check to block some of the lamp IC functions during the test (automatically light up when there is no signal) to ensure no interference in the test.

Manual test: manually click +/_ to test; or click the middle number*Note 2, and enter the value test in the middle (maximum 1536).

Automatic test: Automatic pixel test.

Note 2: Click the number on part of the page of the code writer, and a small keyboard will appear for easy input of numbers. As shown below:

3. Setting parameters（setting parameters needs professional person to operate）

Setting parameters: the parameters can be set again some DMX512 chips's function and status.

3.1 Click" setting parameters", enter the chip classification interface 1, as show below:

3.2 Click select chip series, enter the below page:

CHIP series	Chip model		Remarks
UCS series	UCS512-A	UCS512-B	Refer to diagram a
	UCS512-C4	UCS512-CN	
	UCS512-D	UCS512-E	
	UCS512-F	UCS512-G6	

SM series	SM1651X-3CH	SM1651X-4CH	Refer to diagram b
	SM17512	SM1752X	
	SM17500	SM17500 Self-channel setting	
	SM1852X		
TM series	TM512AB	TM512AL	Refer to diagram c
	TM512AC	TM512AD	
	TM512AE		
HI series	Hi512A0	Hi512A4	Refer to diagram d
	Hi512A6	Hi512D	
GS series	GS8511	GS8512	Refer to diagram e
	GS8513	GS8515	
Others	QED512P		Refer to diagram f

NOTE: The chip model from the above form in red color has no parameters setting.

diagram a

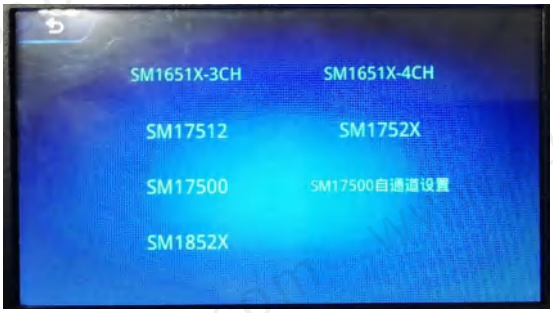


Diagram b

Diagram c

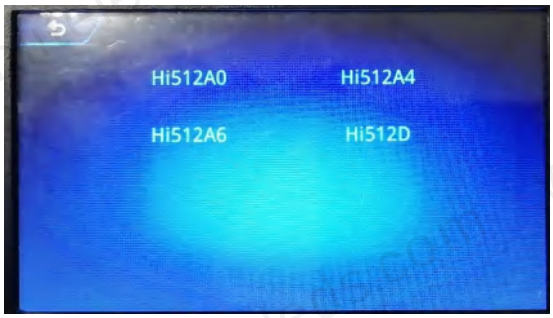
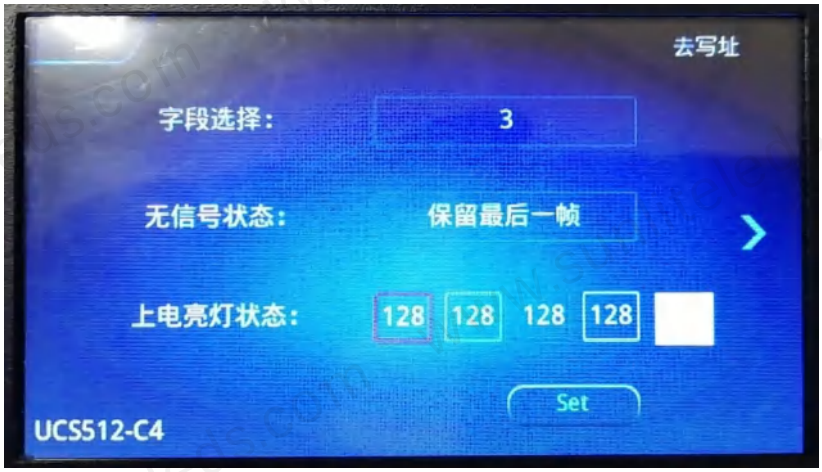


Diagram d

Diagram e

Diagram f

3.3 Click to select the chip to be set and enter the setting interface (such as UCS512C4)



UCS512C4 parameter interface;

Parameters content: ①Field selection; ② No signal status; ③Power-on brightness status;

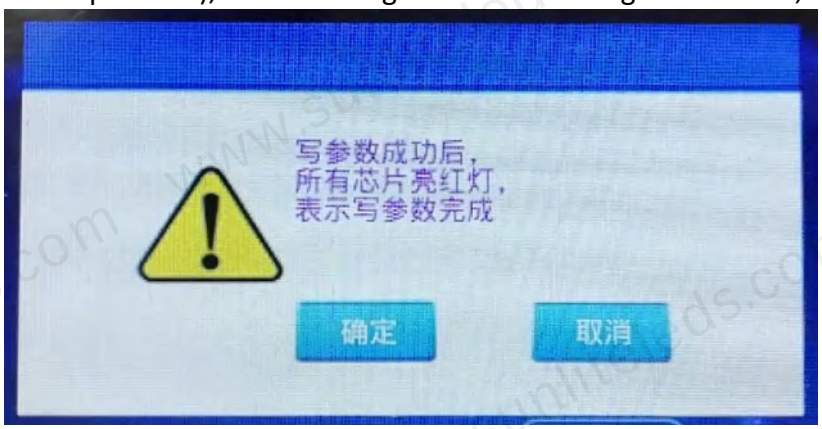
SET: SET button

Go to address: After clicking, the code writer will write the address **(**the page will turn to the corresponding chip address page of "Smart Address"**)**

Arrow: Scroll left and right (some chip parameter items are divided into multiple pages);

3.4 Select the chip parameter items to be set, and change the parameter settings.

3.5 Click "SET", the code writer will pop up a pop-up window, confirm the prompt or wait a few seconds, the pop-up window will close. (The content of the prompt pop-up window is mostly the response of the lamp lighting during the setting operation; it can be used as a test for the success of the operation), click "SET" again to start writing the address;



3.6 When the setting is in progress, the page displays: "Setting" is being set; after finishing the setting, the page displays: "Set".

3.7 After completing the settings, if you have changed the address channel settings for some settings, you need to rewrite the address of the lamp; click "Go to address".

4. Test effects

Test effect: After completing the smart address writing or setting the parameters, you can click the test effect to test; verify whether the operation meets the requirements.

4.1 Click "Test Effect" on the test page to enter the page, as shown below

① Number of channels: number of pixel points of lamps and lanterns (1-6 channels)

② Effect: channel test effect (see effect list)

③ Brightness: Brightness setting during effect test

④ Stepless dimming: Dimming separately for channels

4.2 Select and fill in the relevant parameters, click on the effect, brightness, and stepless dimming to test.

4.3 Effects list

Effect No.	Name	Content	Remarks
1	Channel one	The first channel lights up	1-6 effects are related to the setting of the number of channels; if 4 channels are set, the single channel effect will only have 1-4 effects
2	Channel two	The second channel lights up	
3	Channel three	The third channel lights up	
4	Channel four	The fourth channel lights up	
5	Channel five	The fifth channel lights up	
6	Channel six	The sixth channel lights up	
7	All bright	All channels bright	
8	All off	All channels off	
9	All on and off alternately jump	All channels on and off	

10	Alternate hopping of all channels	All channels turn on and off alternately	
11	Single point scan	Pixels scan	

4.4 Stepless dimming

Stepless dimming: Customize the brightness setting (maximum 255), the lamp will display the set color.

六、Play function（use same as the K-1000C）

The code writer has specially added a playback function to facilitate lamp testing.

1. After the code writer is turned on, select "Play" on the start interface to enter the playback interface;

2. Play page

2.1 Code editor play status

①Preset effects: built-in effects playback (chip optional, 22 programs)

② SD effect: SD card effect playback (chip lock)

Note: In SD effect playback, you can click "Effect Switch" ---- to switch between preset effects and SD effects.

2.2 Preset effect mode（Built-in effect playback）

Chip: optional (see chip list)

Mode: optional (22 built-in effects)

速度：可选（1-16 速度，附速度与播放帧列表）

循环：可选（点击按钮可切换循环或者不循环播放）

内置效果通道选择：内置效果播放支持三通道/四通道播放（按钮切换）

进入测试： 点击后，写码器进入**测试**功能

2.2.1 Chip list

No.	Name	Remarks
1	UCS1903	Return to 0 code protocol output
2	DMX 250K	DMX512 250k rate output
3	DMX 500K	DMX512 500k rate output
4	GS851X	GS series IC output

2.3 SD effects mode(The software effect is output according to K-1000C**)**

Chip: Locked

Mode: Optional (SD card program)

Speed: Optional (1-16 speed, with a list of speed and playback frame)

Loop: Optional (click the button to switch to loop or not to loop)

Effect switching: switch to built-in effect playback (button switching)
Enter test: After clicking, the code writer enters the test function

2.4 Speed and playback frame

Speed	Frame/s	speed	Frame/s	Speed	Frame/s	Speed	Frame/s
1	4 frame	**5**	8 frame	**9**	14 frame	**13**	23 frame
2	5 frame	**6**	9 frame	**10**	16 frame	**14**	25 frame
3	6 frame	**7**	10 frame	**11**	18 frame	**15**	27 frame
4	7 frame	**8**	12 frame	**12**	frame	**16**	30 frame

七、Time setting

The current time will be displayed in the "Start Page" and "Play Page" as shown below

7.1 Time setting

7.1.1 In the position where the screen time is displayed, long press for 3-5 seconds, and a time pop-up window will pop up, as shown in the figure below:

7.1.2 You can modify the current time (year month/day/hour/minute/second)；

7.1.3 Confirm key to save changes.

八、Battery settings

The code writer has a built-in rechargeable battery, and the current battery level is displayed on the screen; please charge it in time according to the situation.

Charging can use the charging port to connect to DC12-24V or the USB charging port DC5V.

Note: It is necessary when charging, and pay attention to power off immediately after full charge to prevent overcharge from damaging battery life!

九、Specific parameters:

Physical parameters:

Working temperature: -20℃—85℃

Working power：DC 5V -24V INPUT（Built-in battery）

Battery capacity: 4000mAh

Power consumption: 4W

Data transmission port: 4pin terminal block

Weight: 1.7Kg

Dimension: L140mm * W100mm * H40mm

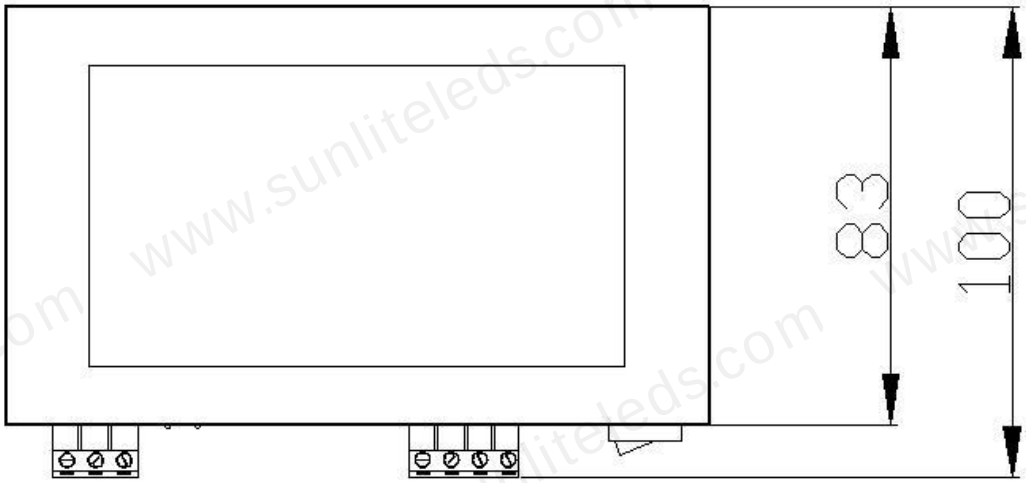
Storage card:

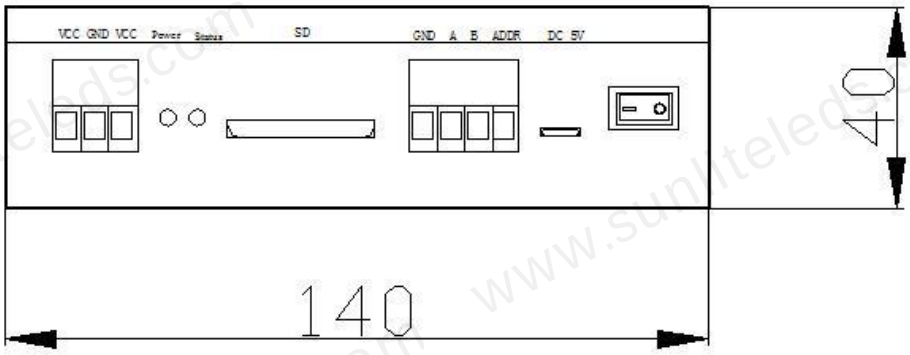
Type: SD card

Capacity: 128MB—32GB

Format: FAT or FAT32

Storage file: *.led





十、SD card format

1、Before copying files to the SD card, the SD card must be formatted (note that it must be formatted before each copy).

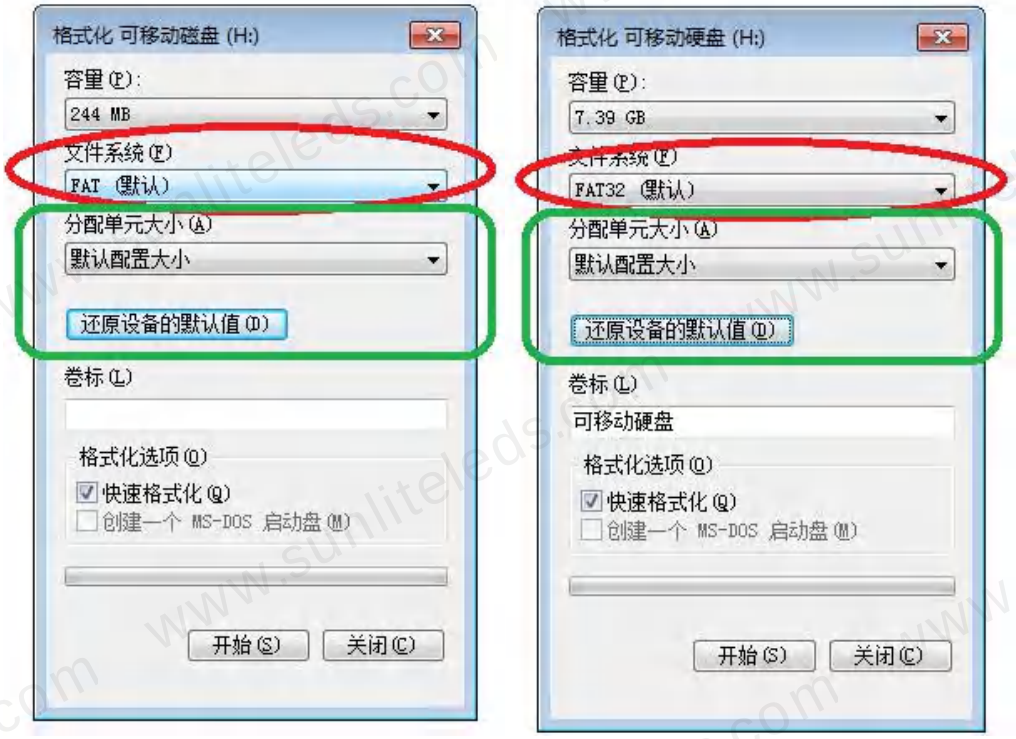
2、Formatter

①SD card settings—"File system", "FAT" format (SD card capacity ≤ 2G) or "FAT32" format (SD card capacity ≧ 4G).

②SD card settings—"allocation unit size", click the drop-down button to select "default configuration size" or click the "restore device defaults" button.

③Start formatting.

Show as below:



3、The SD card cannot be hot-swapped, that is, every time the SD card is inserted or removed, the power to the controller must be disconnected.