



Mini Lighting Controller

Version: V2.0

1.Overview

The hand-held encoder is designed for the decoding chip of our company and the common DMX512 decoding chip. It can cascade and encode the driver modules in a convenient and simple way. Its features are as follows:

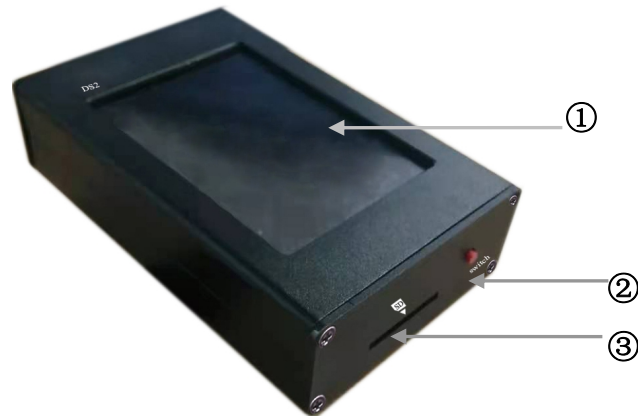
2.Characteristics

- Input Voltage:DC5V;
- Built-in battery to display percentage of power;
- Support IC type: UCS512AB、YM-HDH、UCS512C、SM16512、UCS512D、SM1751X、UCS512E、SM1752X、UCS512F、SM17500;
- Can address writed by pixels or channels;
- Address write,SD card program playing, Built-in testing program,program setting
- LCD touch screen;
- EMC design with good interference resistance.

3.Specification

Appearance

Front:



Back:



- ①: LCD display ②: Switch ③: SD Card
 ④: Signal output ⑤: USB power in

Details

Dimension	115*72*32mm	Signal	DMX512
Weight	200g	Memoration	SD card
Color	Black	Grey levels	RGB 256levels
Voltage	DC5V	Temperature	-20~65℃
Power	Max.1W	Control pixel	512pixels
Output	1 port	Support IC	Most of DMX IC

4.Product function

Press the switch button for 3 seconds to start the controller. After a moment, the phone is powered on ...(as shown in Figure 1) and then the main screen is displayed (as shown in Figure 2). After the phone is powered off, press the switch button for 3 seconds.;

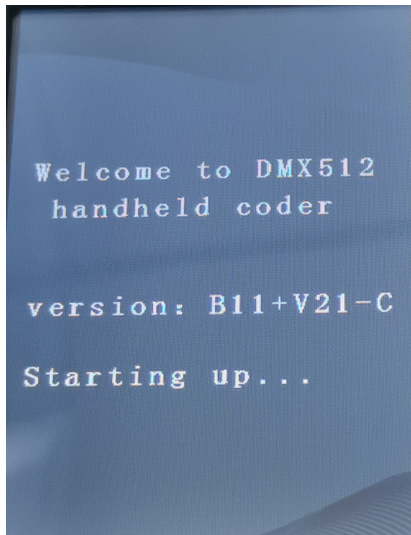


Figure-1

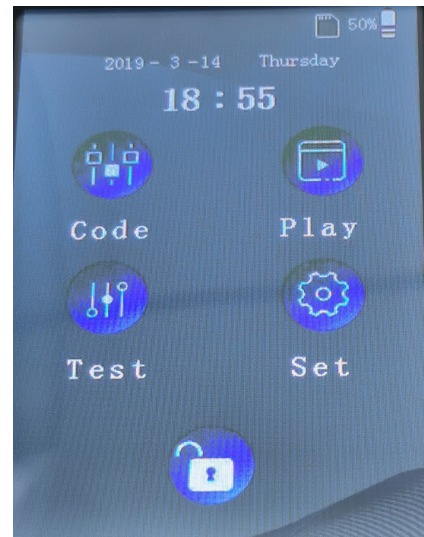


Figure-2

4.1 “” Tools

Click “” to lock,click again to unlock

4.2 Coding tool

Before performing address writing, select the IC type and channels in the Write Address menu; Click the "Code" button in the main interface to do address writing (see Figure 3 below).

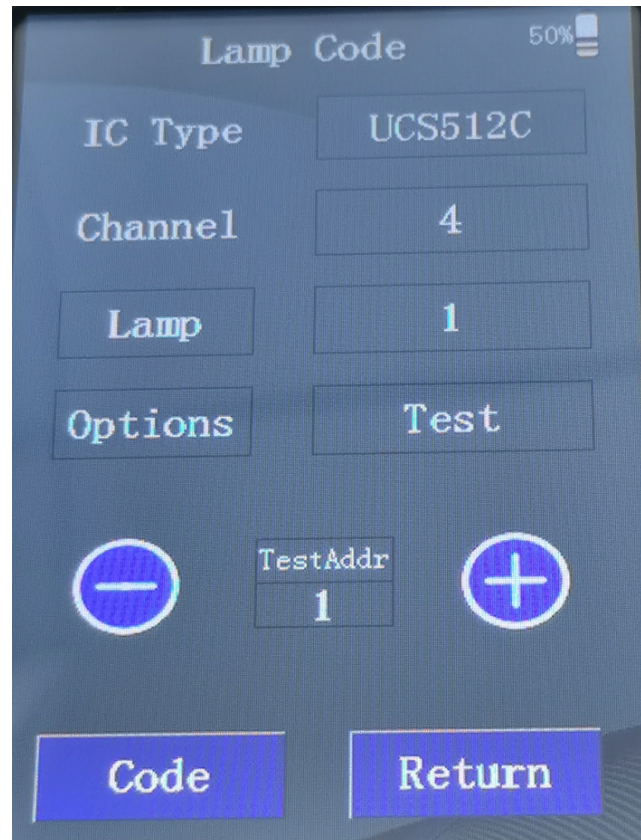





Figure-3

- 1) Select IC type: It include (UCS512AB、UCS512C、UCS512D、 UCS512E、 UCS512F、 SM16512、 SM1751X、 SM1752X、 SM17500、 UCS512F、 GS851X、 TM512AB、 TM512ACX、 HI512AX、 HI512DX) ;
- 2) Channel: from 1 to xx, it depend on fixtures ;
- 3) Lamp / Addr: the number is start address, normally it is from number 1, if display “ Addr ” mean address writing by channel; if display “Lamp” mean address writing by Pixels;
- 4) TestAddr: click  and  to light on the channel or pixels.
- 5) Click the " " button in the main interface to do address writing, it will display progress bar during address writing.

Note: Don't press any other button, otherwise it may cause unsuccessful coding

6) Option: it based on different IC type ,press **Options** go to the figure-4 interface.

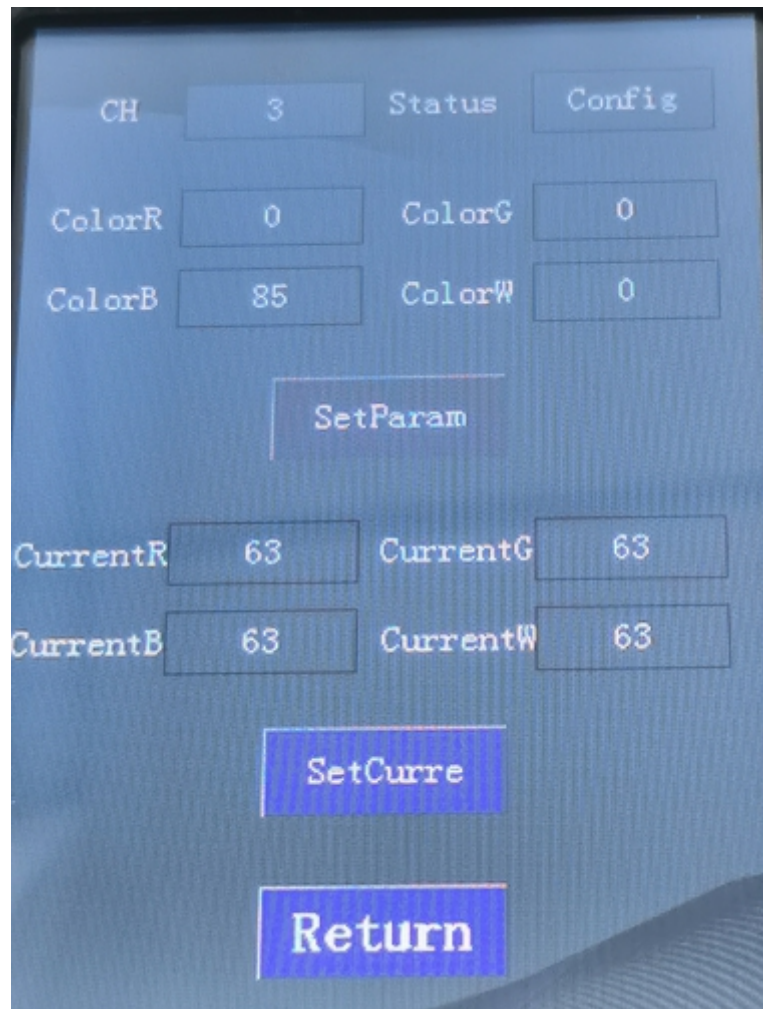


Figure 4

Write RGB parameters settings: You can set the combination of output grayscale of any of the three RGB ports after power-on. This greatly enhances engineering flexibility. You can set a unique gray scale combination of power-on lights. If no parameter is written, the factory default power-on startup + colorful gradient.

CH: Defaults is 3.

Status: "config" means when not signal control, the lamp will be light the setting color, "Last" means when not signal control, the lamp will keep the last frame color.

Color setting: Color R/G/B/W value is from 0~255, after input setting , click"SetParam" to save setting to lamp;

Current setting: Current R/G/B/W value is from 0~63, after input setting , click"SetCurre" to save setting to lamp;

4.3 Program tool “”

1) Click"Play" button to go to the program playing interface,show as figure-5.

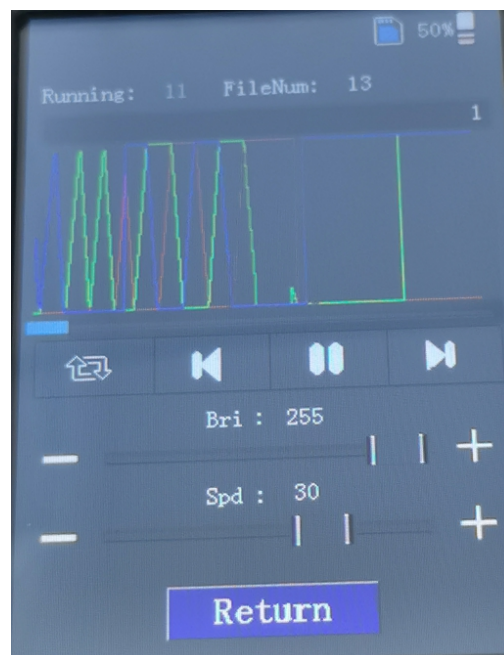




Figure-5




: If no card or wrong card it will not display the icon;

Runing:11 , mean it playing program-11 now.


FileNum: 13, mean it have 13programs in SD card.

 :cycle playing mode,click one time it change to this icon “  ”

single playing mode ;

 : playing the last program;

 : playing buton;

 : play next program;

Bri: playing brightness , value from 0~255.

Spd: playing speed, value from 0~40;

 : turn back main interface;

4.4 Test Tool “ ”

Built-in Testing program, show as figure-6.

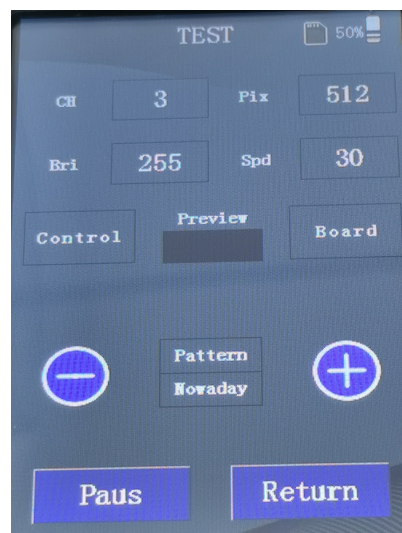


Figure -6

CH: Default is 3;

Bri: the brightness of playing;

Pix: the quantity of pixels can be controlled;

Spd: the speed of playing;

Control: it can light on single channel with same color;

Star/Paus: click one time to exchange start and pause ;

Board: click go to select what color need to be display;

Preview: display what color u select;

Patten: Transfer; tail; monochrome; gradient, click one of the effects to play;

Return: go back to the main interface.

4.5 Setting tool “”

Click “Set” button, and then it will display setting interface. Figure-7

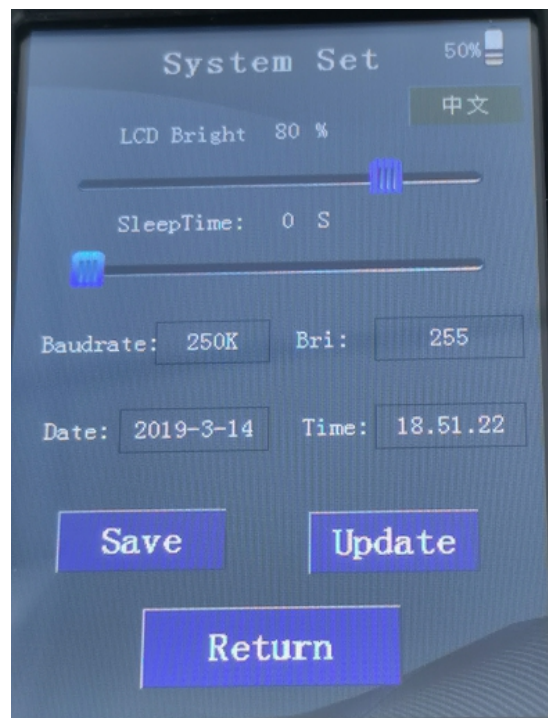


Figure-7

English/Chinese: Switch Chinese and English;

LCD bright: value from 3%~100%;

SleepTime : the time can set from 0~120 second.0 mean never sleep;press switch button can awaking sleep;

Baudrate : Play rate of program ,normally is 250K, it can be 250K/500k/750k/1.5M/2.0M/3.0M) ;

Date: display the date (Editable,YY-MM-DD) ;

Time: display the time (Editable,HH.MM.SS) ;

Save: save the setting;

Update: Update program function

Return: go back to the main interface.

5. Port definition

Signal output port: show as figure-8

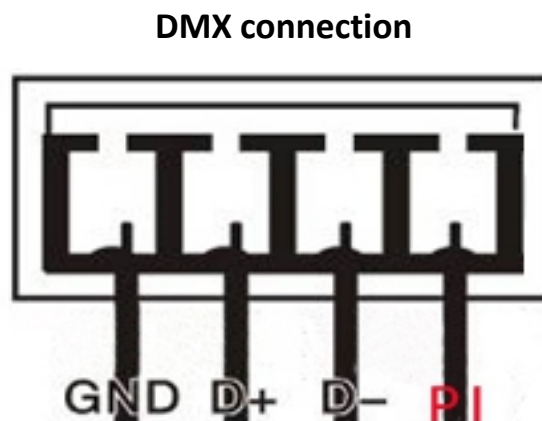


Figure -8

6. Precautions

To reduce the risk of fire, electric shock, or personal injury, read and follow the following warnings and precautions to prevent the occurrence of such events.

6.1 V1.7 version Add Chinese and English switching;

6.2 Non-professionals Do not disassemble the housing;

6.3 Do not install this controller in a magnetic and high pressure environment;

6.4 Make sure the controller is good in a total wind and a proper temperature environment;

6.5 Do not repair itself when there is any abnormality, so as not to be impacted.