HC202S Controller Specification

I.General Description:

1、 HC202S Controller can work with mini SD card.

2、 Power on the controller without SD card,after 20 seconds it will boot automatically call the built-in 100 kinds of patterns, can be sent to DMX512 and TTL signal.

3、 With SD card state,you can use the standard DMX512 to choose the built-in patterns and speed.

4、 Controllers can work as synchronization, synchronization signal should not exceed 50 meters, measured 100 meters.

5、 Controller can drive 2048pixels maximum. The refresh frequency is 30 maximum frame rate (<512 pixel).

6、 The maximum distance between the controller and lighting :for TTL signal is <15 meters; for 485 signal <30 meters. For TTL signal,you can make 10strings in parallel connection;

Work Voltage(V)	DC12-24V
Dimension(mm)	L122 *W 73* H25
Weight(kg)	0.2kg
Power consumption(W)	3W

II、Support IC：

Support IC	Detail Models
TM	TM1809，TM1812 ，TM1914
UCS	UCS2903,UCS2909,UCS2912 UCS1903,UCS1909,UCS1912
WS	WS2801,WS2812 WS2811
INK1003	INK1003
LPD	LDP6803,LDP8806,LDP1109
D705	D705
SM	SM16716,SM16715
DMX512	DMX512
For other ICs,please contact our company for consulting.	

III、Controller reads SD card first, if no SD card it will run the built-in pattern.

Under SD card state,you can choose the patterns and speed according to the buttons,but the
[on/off] key will be invalid. Other operations is the same with no SD card state,details are described in followings.

IV、Connection Ways

TTL：Single line and double line signal interface

DAT:Data **CLK**：Clock **GND**：Signal ground

DMX512： When choosing DMX512 Models will send DMX512 signal,choosing other models will send difference signal; with 485 receiving plate can make the signal transmission further.

D+：DMX512 signal A ,**D-**：DMX512signal B ,**GND**：Normally,no need the wires.

V、Operate Notice

- **Choose IC model：**

  First press the[ON/Off] key,then screen will show OFF and enter the edit program state.

  Then press the [Mode/Speed],after choosing the models,press the[On/off] key to exit.

- **Control Pixels Setting:**

  First press the[ON/Off] key,then screen will show OFF and enter the edit program state.

  [UP] and [DOWN] to set the pixels,press the[On/off] key to exit.

- **Set the patterns,speed and DMX address**

In the normal state, namely not in the OFF state. Press the [mode/off] key,you can see the digital begin with P S A show as cycle.

P stands for patterns,S stands for speed,A stands for DMX512 address,please be attention to this:DMX address only work in the DMX512 decoding and using standard DMX512 console which is used for controlling built-in patterns;Use the UP and DOWN buttons to increase and decrease.

Notice：

1.During installation,please pay attention to the rain, the normal working voltage is DC12-24V.

2.Network line one one corresponding as followings:

