HX-SZ600-TOUCH

LED RGB Controller with full touch remote control

    Controller adopts the advanced micro control unit, it is used for controlling a variety of LED lamps. For instance, point source of light, flexible light strip and so on; it has many advantages such as touch remote control, easy connection and simply to use. Meanwhile, you can adjust brightness, static color choices and various dynamic changes in lighting effects through wireless touch remote control. And according to the actual need of customers, it can carry out jumpy changing, gradual changing, stroboflash and other effects of change.

    Especially, it designed with Synchronization function. It is convenient to use RJ45 connector to connect the multiple controllers together, and achieve the synchronization function of thousands meters led strips.

Product Feature

● Controller is constant voltage, suit for all kinds of the constant voltage LED RGB lamps.

● There is a RF remote touch control 5 functions, 1 color ring and 1 color sense lamp in the center, all buttons are in the touch form, the color ring have 128 levels in different colors.

● There are 10 modes in total, including 1 white static colors and 9 dynamic modes. The brightness of all static color and the speed of the dynamic modes are adjustable.

● Memory function, each time power-on reserve the mode which stop in the last power-down.

● The brightness of static color is adjustable, 256 levels in total; the speed of dynamic changes is adjustable, 100 levels in total.

● Long-press the brightness and speed key can get the fast adjustment, convenient for operation.

● Multiple controllers can work synchronically when connected by network cable through the RJ45 connector, the network cable between 2 ports up to 100 meters.

● Warranty of this product is 3 years, exclude the artificial situation of damaged or overload working.

Technical Parameters

Controller

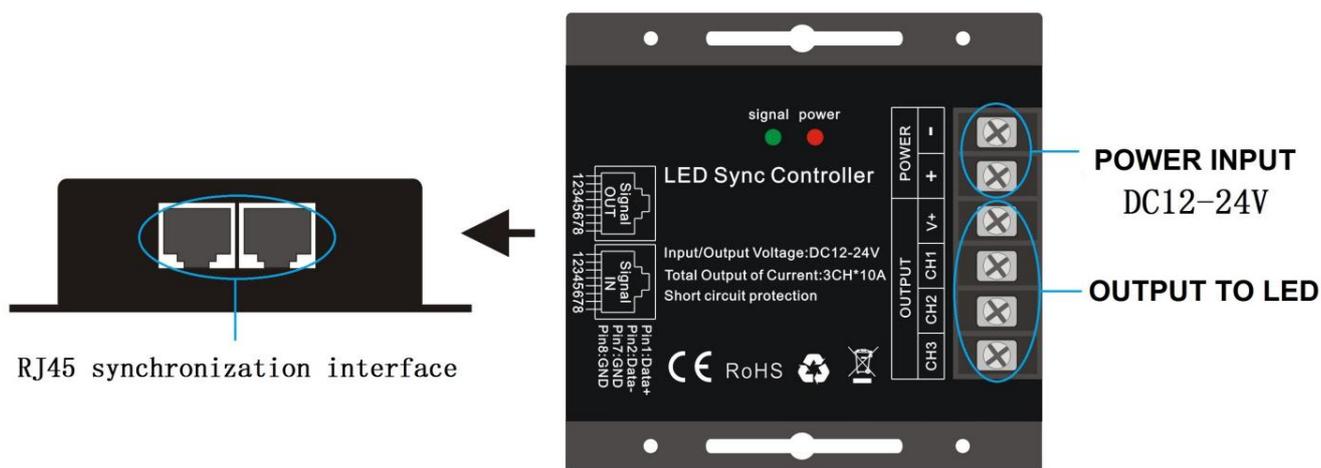| Working temperature	-20-60℃	Supply voltage	DC12V-24V
Static power consumption	<1W	Connecting mode	common anode
Grayscale	256 levels（RGB each）	Speed stage	100 grade
External dimension	L91*W88*H24 mm	Packing size	L108*W108*H50 mm
Net weight	290g	Gross weight	320g
Mode	10	Remote distance	Up to 20M
RF frequency	433.92Mhz	Memory function	support
Output	3 channels	Output current	≤10A(each channel)
PWM frequency	1.95KHz	Max. Output power	12V:<360W, 24V:<720W
Short circuit protection	Yes		

Remote control

Working temperature	-20℃~60℃	Supply voltage	DC4.5V（AAA*3pcs）
Standby current	<8uA	Working current	<30mA
Standby power	<36uW	Working power	135mW
Net weight	90g	RF frequency	433.92MHz
External dimension	L113*W55*H22 mm	RF distance	≤20m

External Dimension

Controller

Interface Specifications

RJ45 synchronization interface

RGB Connection：V+→COM、CH1→R、CH2→G、CH3→B

Direction for use

This product use RF touch control, with one color ring and 5 function buttons.

Tips: Without any operation more than 20 seconds, the touch remote will enter the sleep state, please   SHAKE the remote to wake up it before the next using.

The function of each button as below:

Name of key	Instruction	Remarks
ON/OFF	ON or OFF in any time	
Pause	Pause or Continue	
Mode	The mode will go to next, when you touch the key each time	10 modes in total.
Speed/Brightness +	The Speed/Brightness will add, when you touch the key each time	Speed for dynamic modes, Brightness for static modes.
Speed/Brightness -	The Speed/Brightness will subtract, when you touch the key each time	Speed for dynamic modes, Brightness for static modes.
Color Ring	Touch any color which you want	

10   modes in total as below:

No	Patterns	Remarks
1	Static white	Brightness is adjustable
2	White flash	Speed is adjustable, brightness is unadjustable
3	White breath	
4	Three-color jump changing	
5	Seven-color jump changing	
6	Three-color gradient changing	
7	Seven-color gradient changing	
8	R/G cross fade	
9	R/B cross fade	
10	G/B cross fade	

RF CODE

Tips: Receiver can be controlled by any one the same remote as factory default; full touch remote control delivered with unique RF code as factory default; if unique-control is needed, please matching the code before installation and using.

Matching code operation

If unique-control or new-coded-remote is needed, pairing the remote and the receiver as below operation instruction before using:

1. **Step 1**: Pressing key "**Mode**" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
2. **Step 2**: Continuously to press the key **"Pause "** for 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10%-flashes 3 times and return to the initial state.
3. Code learning successfully, the LEDs will be back to the status before the power off, and the receiver only can be control by the remote.
4. If not, please re-operate from step 1 to 2.

Clear code operation

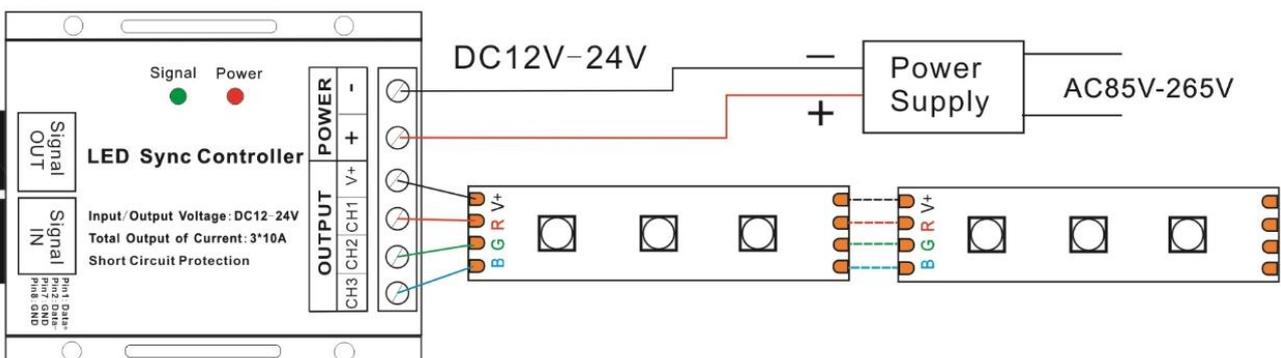Back to factory default, wall-panel can be controlled by any one the same remote control.

1. **Step 1**: Pressing key "**Mode**" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
2. **Step 2**: Continuously to press **"Speed/Brightness -"** 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10% -flashes 3 times and return to the initial state.
3. Code clearing successfully, the LEDs will be back to the status before the power off, and the receiver can be controlled by any remote control(any one the same remote control can be used to clear the code).
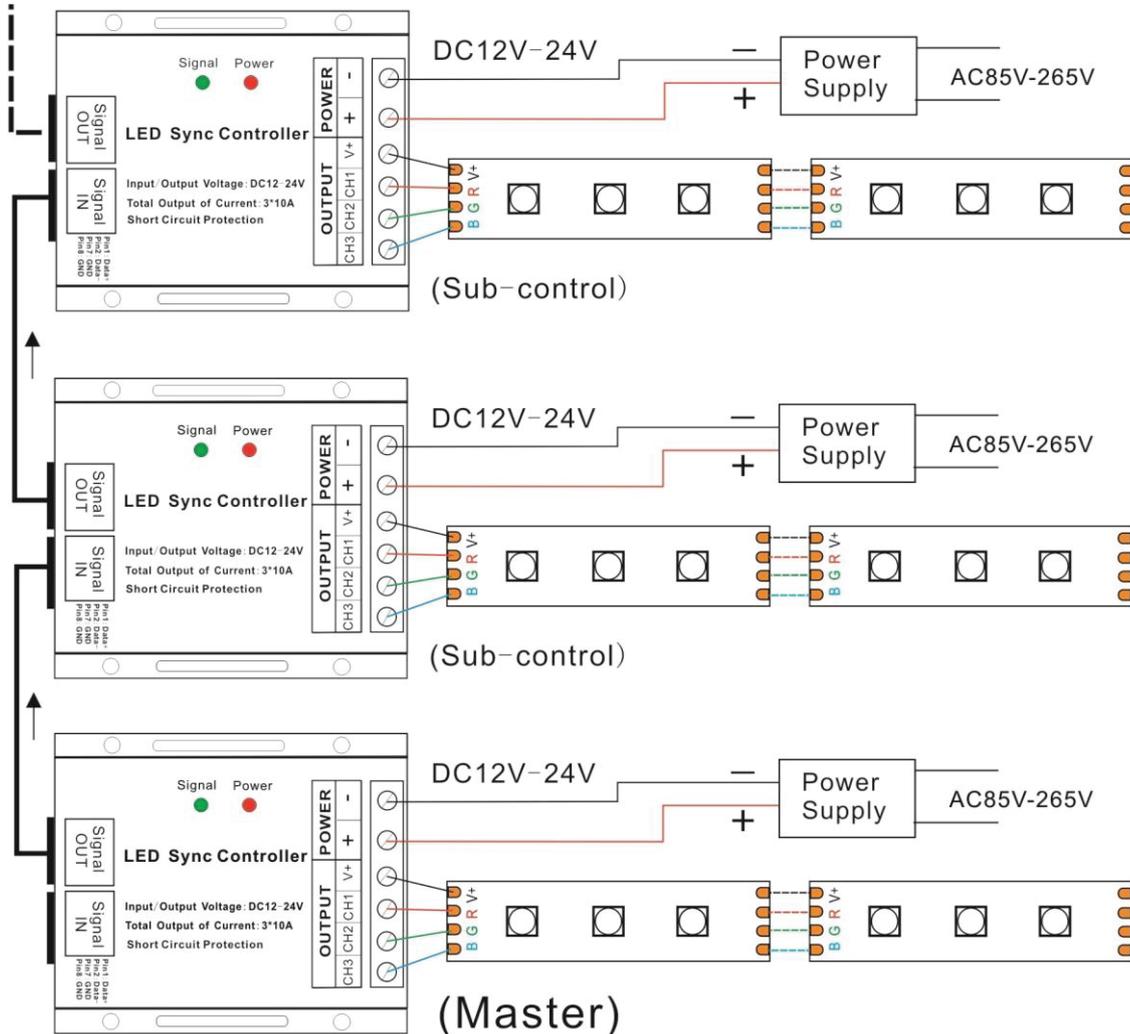4. If not, please re-operate from step 1 to 2.

Notice：

1）Each controller can save 3 different RF codes (it means each driver can be controlled by 4 different-code remote in the Max).If there is confusion,, more remote control all can control, you need to clear the code and then use the specified remote control re-code with the controller.

2）Anyone the same model remote control or the remote control not the same model but compatible with each other can be used to clear code.

Typical Applications

Application Circuit 1: (V+→COM、CH1→R、CH2→G、CH3→B.)

Application Circuit 2:(*Synchronization function with network Line 》*)

(Sub-control)

(Sub-control)

(Master)

Tips: The green signal indicator light will uniform flash with proper communication, and will off with any incorrect signal connection (like: poor contact, confused input and output, wrong wire order).

Warning

 1. Supply voltage of this product is DC12-24V, never connect to other voltage.
 2. Before power on, please make sure the wires are connected correctly according to connecting diagram. Or (like: short-circuit connection, positive-negative reverse) will damage the device.
 3. Warranty of this product is one year, but exclude the artificial situation of damaged or overload working.