

## HX-RFBT002-CCT

### RF BT remote controller-CCT

Controller adopts the most advanced PWM (Pulse Width Modulation) digital control technology, it is used for controlling constant voltage LED CW+WW lamps. For instance, point source of light, flexible light strip, led modules, led strings and so on; It belongs to low-voltage DC power input and output with four interfaces, including two identical V+ for positive interfaces, the other two for the CW and WW control interface. Meanwhile, you could adjust brightness, color temperatures and various dynamic changes in lighting effects through RF 14keys remote control. In addition, It is convenient to use RJ45 connector to connect the multiple controllers together, and achieve the synchronization function of thousands meters led strips. In theory, they can be connected numerous.



### Product Features

- Designed for CW+WW constant voltage LED lights, Working voltage DC12-24V.
- Two channels output, Max. load current: 2CH\*10A; Max. load power: 240W/12V; 480W/24V.
- Adopts RF 14keys remote control with fashion appearance, no need line-of-sight. Control range up to 20 meters.
- Memory function, each time power-on reserve the mode which stop in the last power-down.
- 11 modes in total, including 3 static colors and 8 dynamic changes.
- 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°C	Supply voltage	DC12V-24V
Static power consumption	<1W	Connecting mode	common anode
Grayscale	256 levels	Speed stage	100 grade
External dimension	L91*W88*H24 mm	Packing size	L150*W92*H64mm
Net weight	250g	Gross weight	290g
Mode	11	Remote distance	Up to 20M
RF frequency	433.92Mhz	Memory function	support
Output	2 channels	Output current	≤10A(each channel)
PWM frequency	1.95KHz	Max. Output power	12V240W, 24V480W

### Remote control

Working temperature	-20°C~60°C	Supply voltage	DC3V ( AAA*2 )
Standby current	<18uA	Working current	<25mA
Standby power	54uW	Working power	75mW
Net weight	65g	RF frequency	433.92MHz
External dimension	L150*W40*H20 mm	RF distance	≤20m

## Interface Specifications



Connection : V+→COM、CH1→CW、CH2→WW、CH3→NC (no connect) ;

### Direction for use

- Connect the load wire at first, followed by the power wire; Please ensure short circuit can not occur between wires before turning on the power ;
- Adopts RF remote technology, 14 buttons in total;

- The signal light flash-- represents the signal has been received well;  
The function of buttons are shown as below:



Name	Description
Set button	For setting the night light and matching code with receiver. Under night light mode, press “Set button” and hold on for 10 seconds will go into the night light setting. Press the set button again to save the setting and quit out.
ON	Turn on
OFF	Turn off
Brightness +	The brightness will add 1 level after each time press. Long-press can get fast adjusting.
Brightness -	The brightness will reduce 1 level after each time press. Long-press can get fast adjusting.
CW balance key	Balance to cool white. Long-press can get fast adjusting.
WW balance key	Balance to warm white. Long-press can get fast adjusting.
Mode	Hot key for 3 CCT full-light: 100% CW, 100% WW, 100%CW+100%WW, and 8 dynamic modes: CW and WW flash alternately, CW and WW fade alternately, CW and WW flash, CW and WW fade, WW flash, WW fade, CW flash , CW fade.
Night light	Press the button go to night light mode ( night light <b>Setting</b> : Under night light mode, press “Set button” and hold on for 10 seconds will go into the night light setting, press the left button to down the brightness, press the right button to up the brightness. Adjustable range: 1%-10%. )
Speed +	Add the speed of dynamic mode. Long-press can get fast adjusting.
Speed -	Reduce the speed of dynamic mode. Long-press can get fast adjusting.
Delay button	The light will be delay off in 30 seconds.

## RF CODE

**Tips:** Receiver can be controlled by any one the same remote as factory default; RF BT 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 “set” 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 “**Mode key**“ 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.

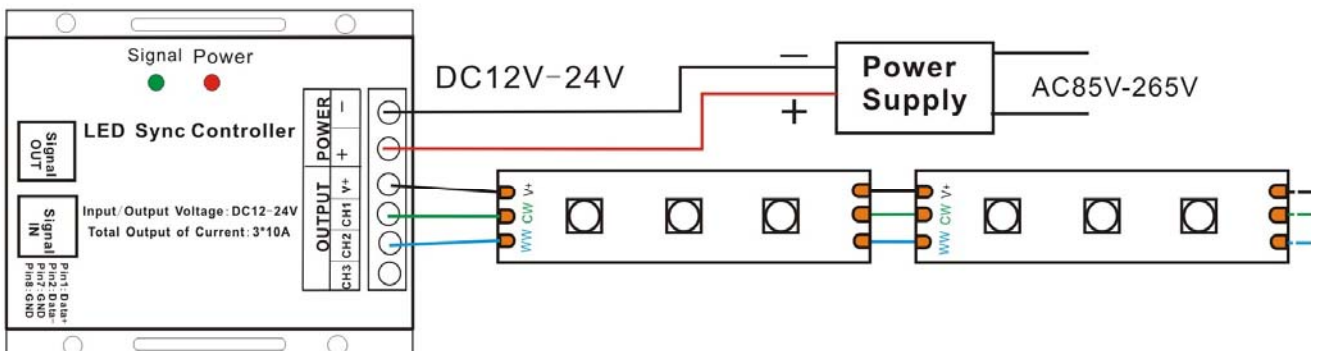
### Clear code operation

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

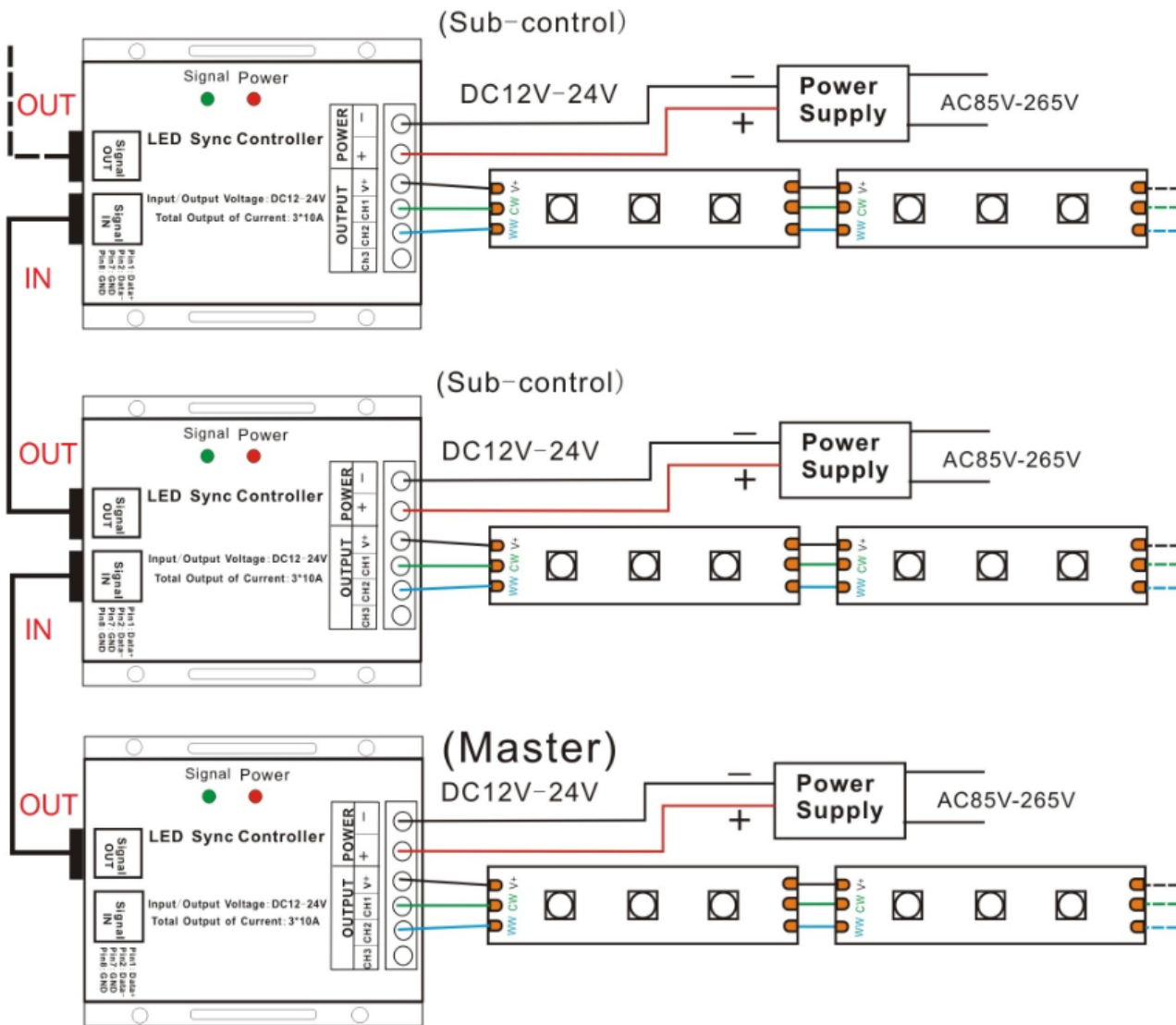
1. **Step 1:** Pressing key “set” and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
2. **Step 2:** Continuously to press “**Delay button**“ 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10% -flashes 3 times and return 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.

## Typical Applications

Application Circuit 1:(Tips:CH1→CW,CH2→WW)



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



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 two years, but exclude the artificial situation of damaged or overload working.