

HX-LWP86-RFBT-RGB

LWP86 series Led wall panel RGB controller with RF BT remote

It adopts the most advanced PWM (Pulse Width Modulation) digital control technology, It is constant voltage led full-touch wall panel RGB controller with RF button remote, specially designed for RGB Led lighting. For instance, Led module, flexible Led strip, etc. To select the desired light colors or modes, not only by the wall panel controller, but also by the wireless remote. It has many advantages such as beautiful appearance , easily to install, and simply to use. The dimension and structure of the wall panel are in line with the 86-type European standard.



Features:

- Designed for RGB constant voltage LED lights, Working voltage DC12-24V.
- Two channels output, Max. load current: 3CH*4A; Max. load power: 144W/12V; 288W/24V.
- The wall panel adopts the capacitive touch-sensitive design, unique appearance and easy-operation.
- Adopts RF 14keys remote control with fashion appearance, no need line-of-sight.
- RF frequency:2.4GHz, distance up to 20 meters.
- Memory function, each time power-on reserve the mode which stop in the last power-down.
- Amplifier is available to achieve more LEDs sync-control.
- Structure/dimension/installation of the wall panel according to the 86-type European standards.
- 3-year warranty.

Technical Parameters:

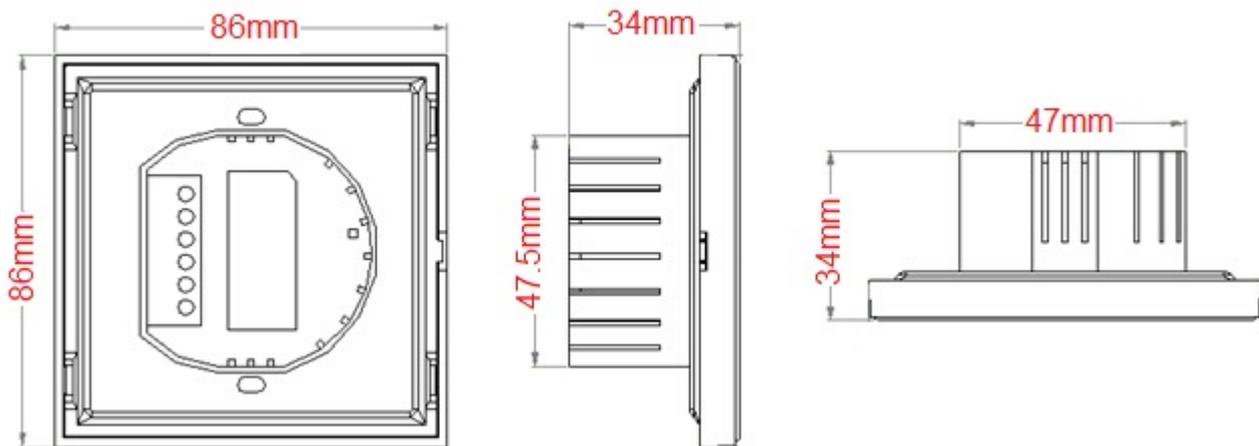
The wall panel controller:

Working temperature	-20-60℃	Working voltage	DC 12~24V
Static power consumption	<1W	Connecting mode	Common anode
Gray scale	256 levels	RF frequency	2.4GHz
N.W	140g	G.W	160g
External dimension	L86*W86*H34mm	Packing dimension	L150*W90*H60mm
Output	3 channels	Max. Output current	4A*3CH
PWM frequency	1.8KHz	Max. Output power	12V:144W, 24V:288W

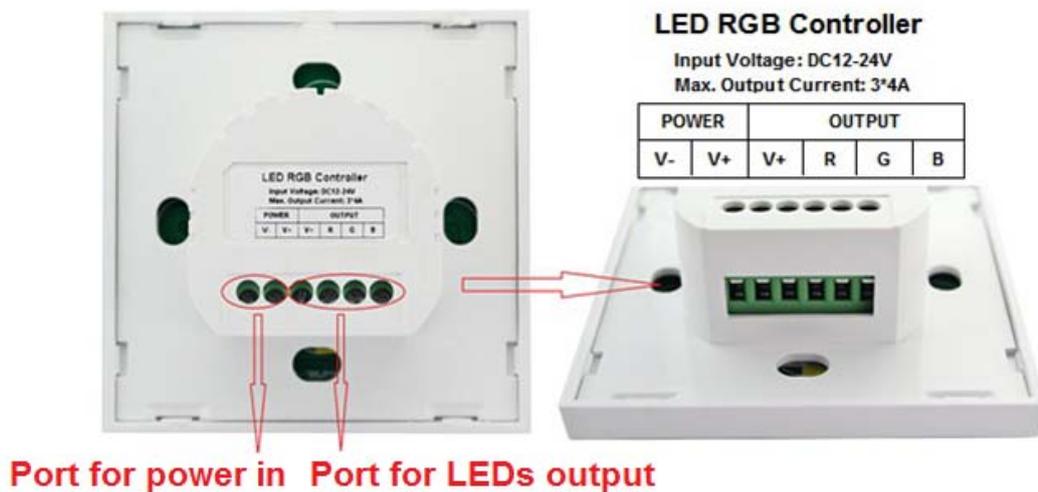
RF remote:

Working temperature	-20-60℃	Supply voltage	3V (AAA battery*2)
Standby current	18uA	Transmitter current	25mA
Static consumption	54uW	Launch consumption	75mW
N.W	65g	External dimension	L150*W40*H20mm
RF remote range	Up to 20m	RF frequency	2.4GHz

Dimension:



Interface Specification



Wall-panel Installation instruction

Step 1: Fixing the bottom cover into the wall;



Step 2: Fixing the metal frame into the bottom cover with screws (projecting part upward)



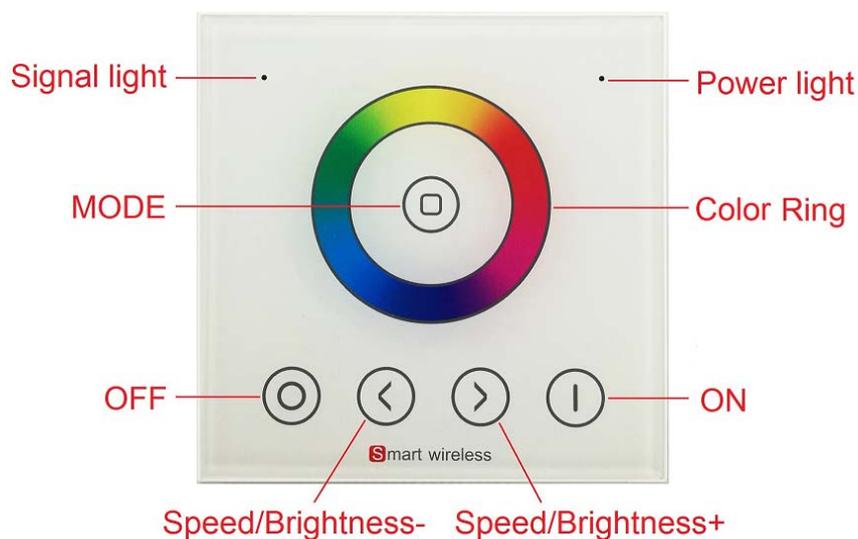
Step 3: Pressing the wall-panel into the metal frame, after connecting well the input and output wires.



Direction of use

- Connecting the load wire at first, followed by the power wire;
- Please ensure short circuit can not occur between wires before you turn on the power;

Buttons of wall-panel:



The function of each button as below:

Name of key	Instruction	Remarks
ON/OFF	ON or OFF in any time	
Mode	The mode will move to next, when touch the key each time	10 modes in total.
Speed/Brightness +	The Speed/Brightness will +1, when touch the key each time	Speed for dynamic modes, Brightness for static modes. Long-press can get fast adjusting.
Speed/Brightness -	The Speed/Brightness will -1, when touch the key each time	Speed for dynamic modes, Brightness for static modes. Long-press can get fast adjusting.
Color Ring	Touch any color which is wanted	

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 BT remote control:



Name	Description
Set button	For matching code with receiver.
ON	Turn on
OFF	Turn off
Static color +	1024 colors in total,Long-press for fast adjusting.
Static color -	1024 colors in total,Long-press for fast adjusting.
Dynamic mode +	Goes to next dynamic mode with each touch, 9 modes in total.
Dynamic mode -	Back to last dynamic mode with each touch, 9 modes in total.
Hot key for white color	Hot key for static white color.
Hot key for 100% brightness	Hot key to get 100% brightness in any static color.
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.
Speed +	The speed will add 1 level after each time press. 10 levels in total.
Speed -	The speed will reduce 1 level after each time press. 10 levels in total.
Dynamic auto-cycle	Auto-cycle run the all 9 dynamic modes

9 modes in total as below :

NO.	Patterns	Note
1	White breath	Speed is adjustable, brightness is unadjustable
2	White flash	
3	Three color jumping change	
4	Seven color jumping change	
5	Three color fading	
6	Seven color fading	
7	R&G cross fade	
8	R&B cross fade	
9	G&B cross fade	

Wireless remote control code value setting method

(1) Code pairing operation: means that the receiver will only be controlled by the value code remote controller.

Step	Operation	Instructions
1	Connecting the load to the receiver and power on it.	1.It is necessary to clear the code first, if the receiver was coded before. 2.Batch operation can be performed within the remote control range.
2	Press and hold "ON" on the remote control for 5 seconds, the indicator of the remote control will flash quickly, means it enters the pairing code transmission status.	Will automatically exit code transmission status after 60 seconds, or pressing any key to exit.
3	See the load light flashes 3 times and return to the initial state	Pairing coding is finished successfully

(2) Code clearing operation: means that the original code value of the receiver will be cleared and returned to the factory state. Then it can be controlled by any compatible remote controller, and can learn to a new code.

Step	Operation	Instructions
1	Connecting the load to the receiver and power on it.	1. The clearing operation should be finished within 1 minutes after the receiver is powered on. If exceeds the time, can be powered on again. 2. Batch operation can be performed within the remote control range.
2	Press and hold the remote control "Off" for 5 seconds. The indicator of the remote control flashes quickly, means it enters the clearing code transmission status.	1. Will automatically exit code transmission status after 60 seconds, or pressing any key to exit. 2. If the original remote controller is lost, the new remote controller can be used for clearing operations.
3	See the load light flashes 3 times and return to the initial state	Clearing coding is finished successfully

(3) Code learning operation between remote controls: Used to unify system code values or copy a new remote controls.

Since each remote controller has its own unique code at the time of delivery, when there are multiple remote controllers in one system, one of them (for example, remote controller A) must be selected as the system code value, and the code value of the rest remote controllers (for example, remote controller B) should be copied to the same one.

Step	Operation	Instructions
1	A remote control: Press and hold "ON" on the remote control for 5 seconds, the indicator of the remote control will flash quickly, means it enters the pairing code transmission status.	Will automatically exit code transmission status after 60 seconds, or pressing any key to exit.
2	B remote control: long press "mode key" for 5 seconds, the remote indicator light changes from 100% light to 5% light and flash, means entering the code value receiving state	Will automatically exit the code value receiving state after 30 seconds, or exit after learning the code value successfully.
3	see the B remote control indicator light flash 3 times	Code copying is finished and exit code value receiving status.

(4) The remote controller restores the factory setting: it means that the remote controller will be restored to the factory's unique code value.

Step	Operation	Instructions
1	Long press "mode " for 20 seconds	The remote indicator light dim down and flashes continuously until the 20th second and then back to 100% light. Means this step is finished.
2	Press the "OFF" to confirm, the remote indicator light flashes 3 times	Restore factory settings successfully.

Typical Applications

Application circuit:

