



RGB led wall panel Dimming controller with RF remote

It adopts the most advanced PWM (Pulse Width Modulation) digital control technology, It is constant voltage led full-touch wall panel dimming controller with RF button remote, specially designed for single color Led lighting. For instance, Led module, flexible Led strip, etc. To select the desired light levels, 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 120-type US standard.



Features:

- Designed for single color constant voltage LED lights, Working voltage DC12-24V.
- Three 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.

Technical Parameters:

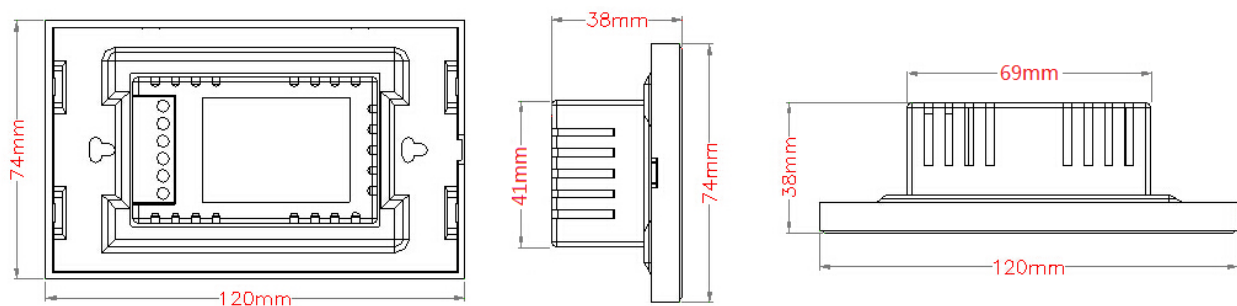
The wall panel controller:

Working temperature	-20-60 °C	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	L120*W74*H38mm	Packing dimension	L150*W90*H60mm
Output	3 channels	Max. Output current	4A*3CH
PWM frequency	700Hz	Max. Output power	12V:144W, 24V:288W

RF remote:

Working temperature	-20-60 °C	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:



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:



Name	Description	Note
ON/OFF	Turn on/off the light.	This button is designed with backlight, convenient for users locate it in dark environment
Brightness up	Brightness add key, each touch add 1 level, 256 levels in total.	Long- press for fast adjusting
Brightness down	Brightness reduce key, each touch reduce 1 level .	Long-press for fast adjusting
Delay off	Delay off the lights in 30 seconds	
Night light	Night light hot key, the Brightness is settable from 1%-10%.	The brightness of night light ONLY can be set through the RF remote control.

RF BT remote control:



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.
Hot brightness key +	4 levels brightness (10%、30%、70%、100%) hot selection key, lights will go to next one after each pressing.
Hot brightness key -	4 levels brightness (10%、30%、70%、100%) hot selection key, lights will go to last one after each pressing.
Mode key	3 modes in total: 100% static, flash, breathe
Night light	Press the button go to night light mode (night light Setting : 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.

Tips: Wall-panel 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% as responding.
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% as responding.
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:

