

# USER MANUAL

## 20Key Infrared Music LED Controller (Ver2.0)

### Summarization

20Key infrared Music LED controller adopts the advanced micro control unit. It is used for controlling a variety of LED lamp. For instance, point-source light, flexible strip light, wall washer light, glass curtain wall light and so on; it has many advantages such as low cost, convenient connection and ease of use. Meanwhile you could adjust brightness, static colors and color changing effects via infrared remote control. When it is in sound-control mode, the colors will change with the music rhythm.








### Technical Parameters

- Working temperature: -20°C ~60°C
- Input voltage: DC12-24V
- Output: 3 channels
- Connecting mode: Common anode
- External dimension: L163.5\*W82.5\*H25 mm
- Packing size: L210\*W165\*H55 mm
- Net weight: 500g
- Gross weight: 600g
- Static power consumption: <1 W
- Output current: <6 A (each channel)
- Output power: <216W

## Remote control functions



| Button  | Function   |
|---|--|
|    | <p>When in static mode(default): to adjust the brightness(32 grades)</p> <p>When in jump3,jump7,fade3,fade7 mode: to adjust the light flashing rate(8 grades)</p> <p>When in Music mode: to adjust the sensitivity(8 grades)</p> |
| ON/OFF  | Turn on/off the controller   |
| RED/GREEN/ BLUE/<br>WHITE/ORANGE/YELLOW/<br>CYAN/PURPLE                             | To select corresponding static color   |
| JUMP3   | 3 colors jump changing   |
| JUMP7   | 7 colors jump changing   |
| FADE3   | 3 colors gradual changing  |
| FADE7   | 7 colors gradual changing  |
|  | Sound-control mode_I (general music), all colors will gradual or jump change following the music/sound rhythm. If no music/sound input or sensed, all colors will gradual change   |
|  | Sound-control mode_II (tenderness music), all colors will slow breathing or jump change following the music/sound rhythm. If no music/sound input or sensed, all colors will slow breathing change                               |
|  | Sound-control mode_III(active music), all colors will jump change following the music/sound rhythm. If no music/sound input or sensed, current colors keep lighting  |
|  | Sound-control mode_IV(DJ music), all colors will change following the music/sound rhythm. If no music/sound input or sensed, all colors are off  |

## Panel buttons function



| Button         | Function  |
|----------------|---|
| ON/OFF         | Turn on/off the controller  |
| M+/M-          | Mode select switch: allowing user to select the expected mode, for example red, green, blue, white, orange, yellow, cyan, purple or jump3,jump7,fade3,fade7 or sound-control mode I , II, III, IV.                |
| S+/B+<br>S-/B- | When in static mode(default): to adjust the brightness(32 grades)<br>When in jump3,jump7,fade3,fade7 mode: to adjust the light flashing rate(8 grades)<br>When in Music mode: to adjust the sensitivity(8 grades) |
| RESET          | System reset button   |

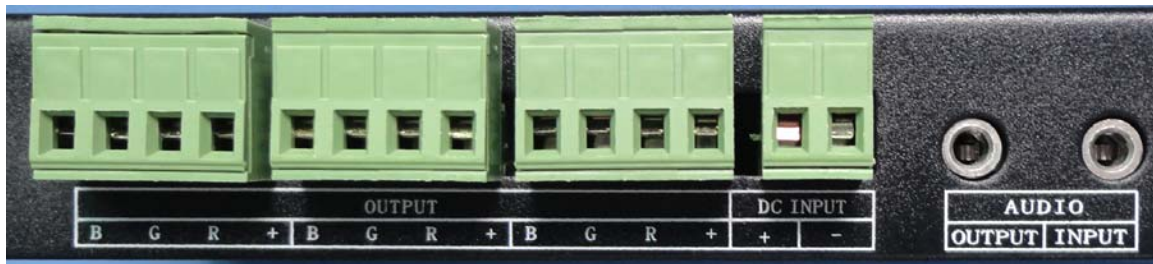
## Panel pilot light

| Name    | Function   |
|---------|--|
| RUN     | When the remote control signal is received or panel button operating,this LED on<br>When there is no remote control signals or no panel button operation, this LED off |
| B. S. S | Brightness ,rate and sensitivity status pilot light<br>Different brightness, speed, sensitivity corresponding to a different pilot light brightness level              |
| RGB     | The output status of the controller  |

## Signal input window

| Name | Function                     |
|------|------------------------------|
| MIC  | Music sensor receiver window |
| IR   | IR receiver window           |

## Input & Output connector



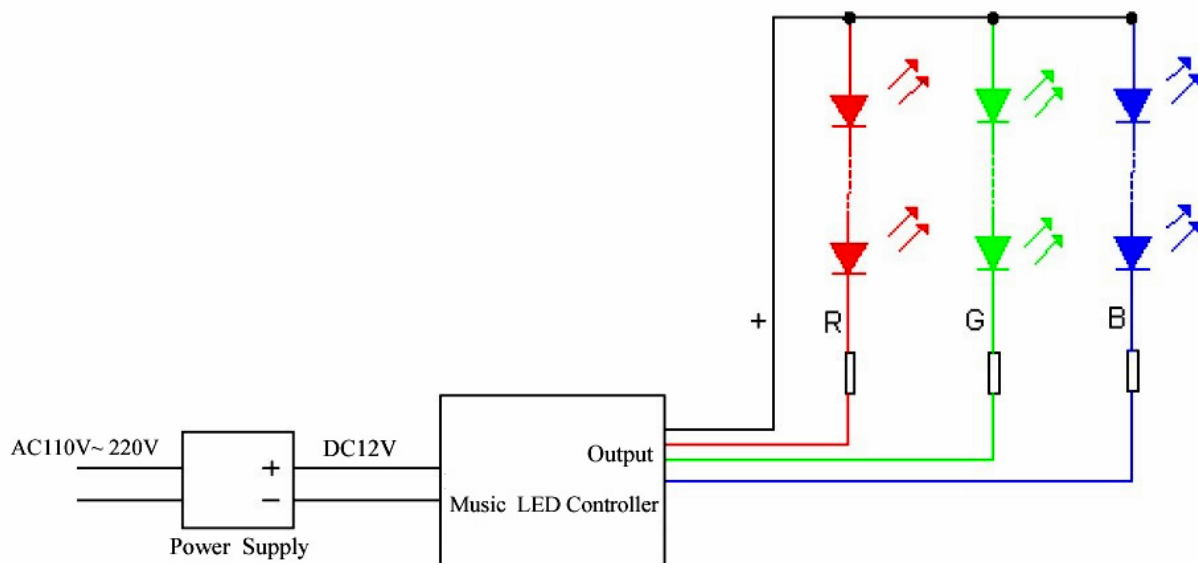
**AUDIO INPUT** for audio signal input

**AUDIO OUTPUT** for audio signal output

**DC INPUT** for power supply DC12V

**OUTPUT** for RGB LED Strip or RGB LED Spotlight

## Typical Applications



**Note: Output short circuit protection!**

**Installation diagram**



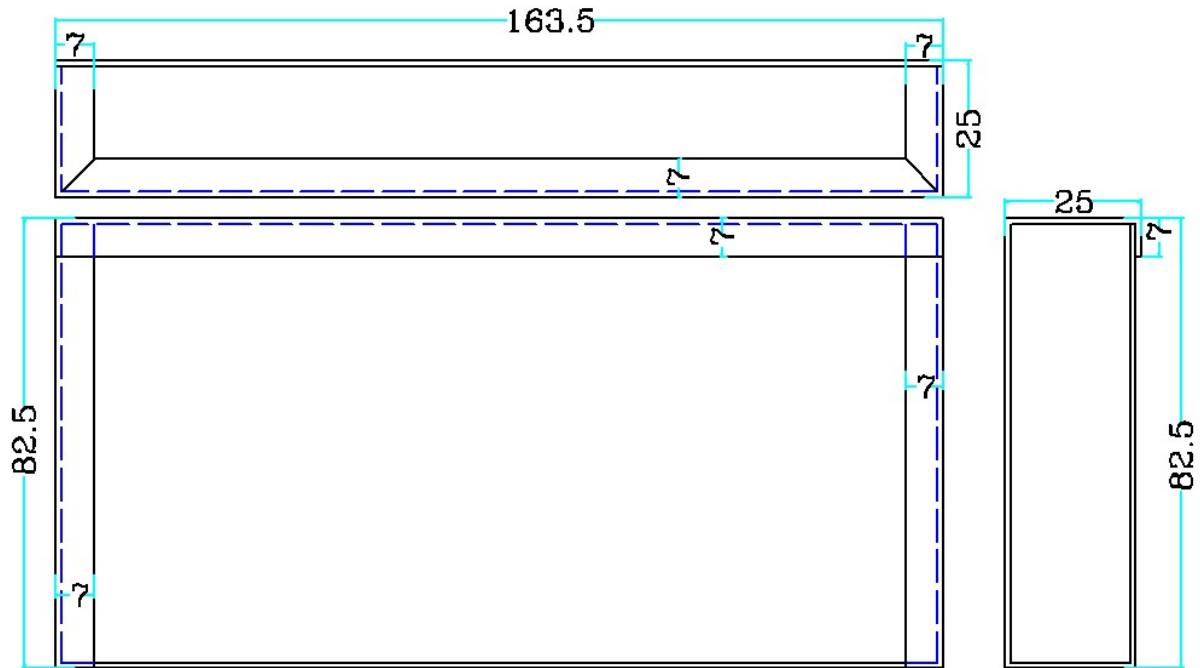
**Installation diagram-A**



**Installation diagram-B**

**The red mark is screws hole for installation**

## External Dimension



## Direction for use

1. Connect the load lines and power lines, make sure all connection correct before power switched on.
2. Insure there is no obstacle between the IR controller and the receiver when operating.
3. This product should not be used in outdoor and any other humid environment. Not allowed to touch water or any liquid. No impacting and knocking. Should not be used in high temperature and high pressure environment to avoid the product damage, and cause short-circuit, fire disaster and electric shock etc.
4. The manufacturers will not be responsible for the product damage, property damage, personal injury, and any other losses which are caused by improper use.

