

# Product specification

**Name: Infrared 12-Key Triac Dimmer**  
**Model: HVDM1802**



## Summarize

This dimmer is a self-developed triac dimmer with infrared wireless remote control and knob dimming. It maintains the advantages of precise dimming of low-voltage dimmers, using infrared remote control, increase control flexibility, enabling delay turn off the lights, scene control and other functions, it provides intelligent lighting control effects that are more comfortable, safer and more convenient than traditional lighting controllers, and optimizes the lighting control experience, thus bringing users a new and comfortable lighting environment.

## Technical parameters

Working temperature: - 20-60°C

Supply voltage: AC100-240V

Output: 1 channel

Dimmer size: W87 x L87 x H42mm

IR remote control size: L86 x W33 x H7mm

Packing size: L100 x W100 x H65mm

Net weight: 107.8g

Gross weight: 193.4g

Static power consumption: <1W

Output current: < 1A

Maximum output power: 220V: 220W

## External Dimension



## Interface specification



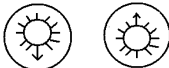

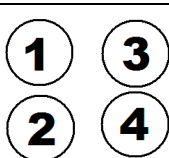


- (1) Signal output interface.
- (2) Power input interface.

## Using instruction

1. Connect the load wire before power wire; Please ensure short circuit can not occur between connecting wire before you turn on the power;
2. Set the minimum brightness and factory reset function, adjust the brightness of the light to any value when the light is turned on, long press the “DELAY OFF” button to save the brightness value as the minimum brightness (and the load flashes 3 times), long press the “ON/OFF” key to restore the factory default (0, and the load flashes 3 times);
3. When doing the operation, the remote controller should be faced the infrared receiving head, and ensure that there is no barriers between controller and receiving head. When the dimmer receives infrared remote control signal effectively, the green light on the upper luminous light flickers; and there are two kinds of dimming mode:

(1) Infrared remote control mode; function of each key is showed in the following table (according to the position of the button):

Symbol	Key name	Instruction
	<b>ON/OFF</b>	The on/off key for output. long press to restore the default minimum brightness (default minimum brightness is 0)
	<b>DELAY OFF</b>	The delay off button. The output will be off automatically in 30 seconds by pressing the button. Long press to save the brightness value as the minimum brightness
	<b>BRIGHTNESS-BRIGHTNESS +</b>	The gray level will be increased two levels by each pressing, and there are 255 gray levels to be adjusted.
	<b>HOTKEY</b>	Brightness shortcut key: press the four buttons, and choose the corresponding percentage brightness showed on the button.
	<b>SCENE</b>	DIY scene mode button: A total of 4 buttons, hold down a button for 3 seconds, the dimmer indicator flashes, indicating that the dimmer has automatically saved the current brightness on the button, and the other buttons are also set. Usually press to enter the brightness previously stored.

(2) Potentiometer control mode:

Turning the knob clockwise will increase the brightness; turning the knob counterclockwise will decrease the brightness.

### Typical application

