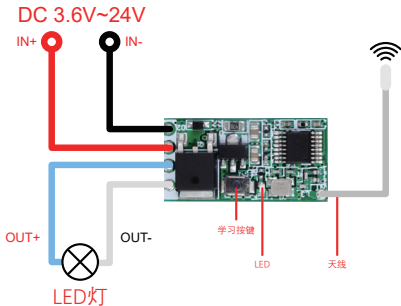


# QA-R-011灯控模块 操作说明书

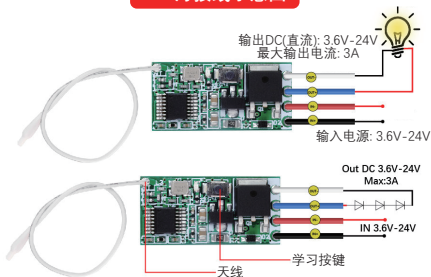
适用型号：QA-R-011



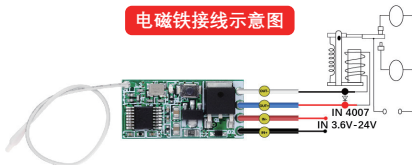
- 无线控制LED灯串，圣诞树灯串，光控制开关。
- 长距离工作电压。
- 超低功耗，高敏感响应。

# 产品接线说明

## LED灯接线示意图



## 电磁铁接线示意图



**\*请勿带电操作**

## 功能说明与设置方法

**\*请注意：**

以下所有工作模式都需要同为QIACHIP品牌的遥控器（发射器）和控制器（接收器/无线遥控开关）进行实现。不能保证其他品牌的遥控器也能与本产品正常进行配对工作。

本产品最多可以配对存储5个遥控器，如果配对超过5个遥控器，则从第一个配对记忆的遥控器开始覆盖。

### **复位功能：**

清除所有匹配过的遥控器。当接收器中的数据被清除，所有遥控器（发射机）都无法让接收器工作。

### **设置复位：**

按下接收器的学习按钮8次后，接收器清除其存储器中的所有遥控器数据。当接收器的LED闪烁结束后，表示复位已完成。

## **无线遥控开关的工作模式的说明：**

### **瞬间模式（点动）：**

该模式配对成功后，按住遥控器按钮（例如A），接收器上对应的继电器开启；释放遥控器按钮（例如A），接收器上对应的继电器关闭；

### **切换模式（自锁）：**

该模式配对成功后，按下遥控器按钮（例如A），接收器上对应的继电器开启；再次按遥控器按钮（例如A），接收器上对应的继电器关闭；

### **锁定模式（互锁）：**

该模式配对成功后，按下遥控器按钮（例如A），接收器继电器打开；按下遥控器按钮（例如B），接收器上的继电器关闭。

### **延时模式（延时5秒，10秒，15秒，20秒关闭）：**

该模式配对成功后，按下遥控器按钮（例如A），接收器上对应的继电器开启；延时到相应的时间后断开。（按下接收器按钮4次进行配对，延迟5S关闭相应继电器；按下接收器按钮5次进行配对，延迟10S关闭相应继电器；按下接收器按钮6次进行配对，延迟15S关闭相应继电器；按下接收器按钮7次进行配对，延迟20S关闭相应继电器；继电器未关闭时再次按下遥控器，则重新开始延迟计时）。

### **通电自启模式**

设置该模式后，接收器断电后再恢复供电时继电器将会自动打开。

## 设置无线遥控开关的工作模式

请仔细观察指示灯状态，如设置错误将导致接收器不能正常工作。

### 设置瞬间模式（点动）：

第1步）按下接收器的学习按钮1次。

等待接收器上的LED亮起，进入设置状态。

第2步）按下遥控器上的按钮（例如按钮A）1次。接收器上的LED指示灯将闪烁，然后熄灭，点动模式设置成功。

### 设置切换模式（自锁）：

第1步）按下接收器上的学习按钮2次。

等待接收器上的LED亮起，进入设置状态。

第2步）按下遥控器上的按钮（例如按钮A）1次。接收器上的LED指示灯将闪烁，然后熄灭，自锁模式设置成功。

### 设置锁定模式（互锁）：

**\*请注意：**

当您选择锁存模式时，为了了解更多遥控器，您需要学习两个不同的按钮，第一次学习是为了“开”，第二次学习“关”。

例如：按钮A = ON，按钮B = OFF，按下接收器上的学习键三次，它将进入锁存模式学习。

第1步）按下接收器上的学习按钮3次。

等待接收器上的LED亮起，进入设置状态。

第2步）按下遥控器上的按钮（例如A按钮）1次。接收器上的LED指示灯将闪烁，然后常亮；此时按下遥控器上的另一个按钮（例如B按钮）1次，接收器上的LED指示灯将闪烁，然后熄灭，互锁模式设置成功。

### 延时模式（定时）：

第1步）根据需求按下接收器上的学习按钮，

（延时关闭时间为：按下接收器上的学习按钮4次，则延时5秒关闭，5次10秒，6次15秒，7次20秒）。

等待接收器上的LED亮起，进入设置状态。

第2步）按下遥控器上的按钮（例如A按钮）1次。接收器上的LED指示灯将闪烁，然后熄灭，延时模式设置成功。

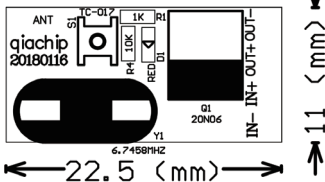
### 通电自启设置方法（适用于搭配手动开关控制灯）：

出厂默认上电断电。长按5秒。接收器上的学习按键，指示灯闪烁3次。

上电通电设置成功。

## 产品参数

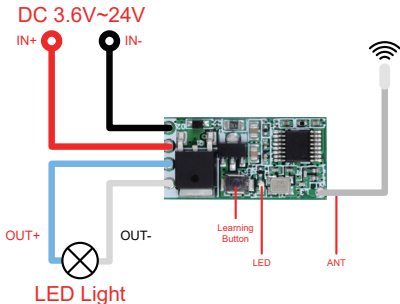
thickness=1.0mm



|         |                                       |
|---------|---------------------------------------|
| 工作电压    | DC 3.6V~24V 输入电压=输入电压<br>(通过MOS管控制负极) |
| 最大负载    | 2A (最大负载功率40W)                        |
| 静态电流    | 3.6mA ~ 5.5mA(6.08mA)                 |
| 工作频率    | 433MHz                                |
| 接收灵敏度   | $\geq -107\text{dBm}$                 |
| 调制模式    | ASK (超外差)                             |
| 外观尺寸    | 22.5mmx 11mm x 8mm<br>(长×宽×高) 迷你尺寸    |
| 支持编码格式  | 1527学习码                               |
| 学习方式    | 按键学习                                  |
| 工作模式    | 点动, 自锁, 互锁, 延时, 通电自启动                 |
| 存储遥控器数量 | 以功能模式为存储单位, 一个模块最多只能存储5个按键功能.         |
| 工作温度    | -20~80度                               |

# Light control module specification

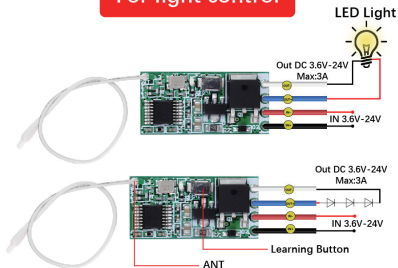
Module : QA-R-011



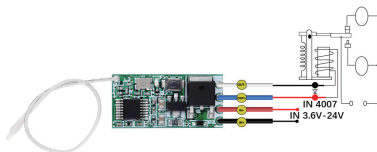
- Wireless control LED lamp string, Christmas tree light string, light control switch.
- Long range working voltage.
- Ultra low power, High sensitive response.

# WIRING DIAGRAM

For light control



Reference diagram electromagnet



\*请勿带电操作

## ABOUT WORKING MODE

Note:

1. We would suggest you to purchase our remote control for the better 1. working performance.
  2. The system can store for 5 pcs of remotes, if the remote get more than 5 pcs, the initial remote control will be lost.
  3. The receiver and transmitter can work together, their frequency, IC chip and Shock resistance must be taken in to consideration.
- If you need it to work with your own receiver, you must make sure 100% that your receiver is 433mhz Frequency, does your receiver have a learning button to learn the transmitter code? and does your receiver can be compatible with 1527 IC chip transmitter.

### Clearing the code :

After push the receiver's learning button 8 times , the receiver Clear all the remote control data in its memory.

When the LED flashes for 5 few times, it indicates that the clear function is completed.

(After cleared the code in the receiver,all the remote control must study from receiver once again to restart).

### Momentary

Push the remote button, the relay connects, release the remote button, the relay dis-connects.

### Toggle

Push once the remote button, the relay connects , push twice the remote button, the relay dis-connects.

### Latching

Push the remote button A, the relay connects, push the remote button B, the relay dis-connect.

### Time delay mode

Push the remote control button, the relay connects, from when release the remote button, after 5s or 10s or 15s or 20s, the relay disconnect automatically.

### Automatic energize when power on mode

When power supply, the relay connects.



# RECEIVER OPERATING MODE SETTINGS

## Learning the code : ( Momentary )

Push the learning key on the receiver once time, it comes into momentary setting mode.

Wait for a moment, the LED will be on, it comes into learning state.

Push the remote button,

LED indicator on the receiver board will flash 3 times and then come off, learning successfully.

## Learning the code : ( Toggle )

Push the learning key on the receiver twice time, it comes into toggle setting mode. Wait for a moment, the LED will be on, it comes into learning state.

Push the remote button, LED indicator on the receiver board will flash 3 times and then come off, learning successfully.

## Learning the code : ( Latching )

**Note:** When you choose for latching mode, in order to learn more remote control, you need to learn two different button, the first time learning is for "ON", the second time learning for "OFF".

For example : button A = ON , button B = OFF, Push the learning key on the receiver triple time, it comes into latching mode. Wait for a moment, the LED indicator on the receiver board will be on.

Push the remote button A, LED flash for 3 times.

Push the remote button B. LED indicator flash for 3 times and then come off, learning successfully.

## Learning the code : ( Time delay mode )

Push the learning key on the receiver forth time, the time delay for 5 seconds.

Push the learning key on the receiver fifth time, the time delay for 10 seconds.

Push the learning key on the receiver sixth time, the time delay for 15 seconds.

Push the learning key on the receiver seven time, the time delay for 20 seconds.

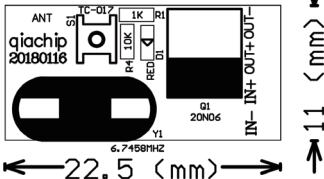
The LED indicator will be off .Push the remote button, LED flashes and off, learning successfully.

## Learning the code : ( Automatic energize when power )

Press and hold the remote control for 5 seconds, the receiver indicator flashes 3 times, the setting is complete.

## PRODUCT PARAMETERS

**thickness=1.0mm**



|                                  |  |
|----------------------------------|--|
| Working voltage                  | DC 3.6V~24V  |
| Maximum load                     | 2A   |
| Static current                   | <5 mA  |
| Working frequency                | 433.92MHz  |
| Reception sensitivity            | <-108dBm   |
| Size                             | 25.5 mm x 13mm x 5mm<br>(length × width × high) Mini size! |
| .Encoding                        | support coding format 1527<br>learning code                |
| Modulation mode                  | ASK (superheterodyne)                                      |
| Number of stored remote controls | ≤ 5  |
| Working mode                     | Momentary,Toggle,Latching,Time delay                       |
| Learning style                   | Learning Button  |
| Working temperature              | -20 degrees 80 degrees.                                    |