Technical Support and E-Warranty Certificate www.perfect-autolight.com

# WHIP LIGHTS

**MODEL:** WM-3190RGB-XC-CR-1

We continue to be committed to provide you tools with competitive price.
"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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**MODEL:** WM-3190RGB-XC-CR-1

<Picture Only For Reference >

## NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. Guangzhou Perfect reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

# IMPORTANT SAFEGUARDS

**WARNING:** Read and understand this entire manual before

operating or servicing this product. Failure to follow these warnings and instructions can cause personal injury or damage to valuable property.

- Avoid children using whip light. And this product is not a toy. Do not allow children to play with.
- Keep away from sharp points,blades and other items.

1.Assemble only according to these instructions. Improper assembly can create hazards.

2.Keep assembly area clean and well-lit.

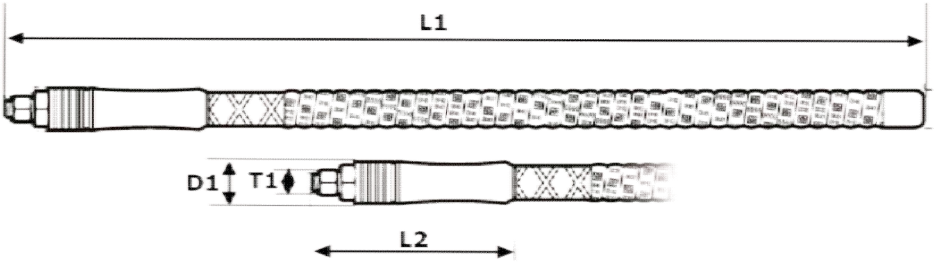
3.Do not assemble when tired or when under the influence of alcohol, drugs or medication.

4.Product capabilities apply to properly and completely assembled product only.

5. For additional information regarding the parts listed in the following pages, please refer to the Assembly Diagram of this manual. Unwrap and separate all parts in a clean work area. Please keep small spare parts out of children's reach.

# SAVE THESE INSTRUCTIONS

## PRODUCT SPECIFICATIONS



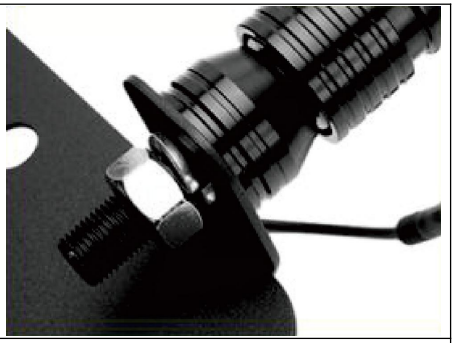

| Model | L1 (mm) | D1 (mm) | L2 (mm) | T1 (mm) |
|---|---|---|---|---|
| WM-3190RGB-XC-CR-1 | 920 | 31 | 70 | M12*30 |

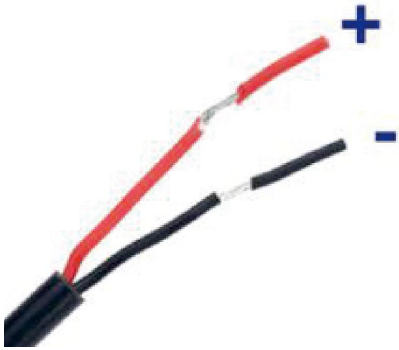
## PACKAGE INCLUDE

| No | DESC | PIC | Model / QTY |
|---|---|---|---|
| | | | WM-3190RGB-XC-CR-1 |
| 1 | whip lights | | 1 |
| 2 | flag | | 2 |
| 3 | screw | | 2 |

| | | | |
|---|---|---|---|
| 4 | nut | | 2 |
| 5 | shim | | 2 |
| 6 | dust cap | | 1 |
| 7 | Big hook | | 2 |
| 8 | small hook | | 2 |
| 9 | ⌀ 22 hoop | | 1 |
| 10 | ⌀ 20 hoop | | 1 |
| 11 | remote control | | 1 |
| 12 | manual | | 1 |
| 13 | Spring base | | — |

## INSTALLATION INSTRUCTIONS

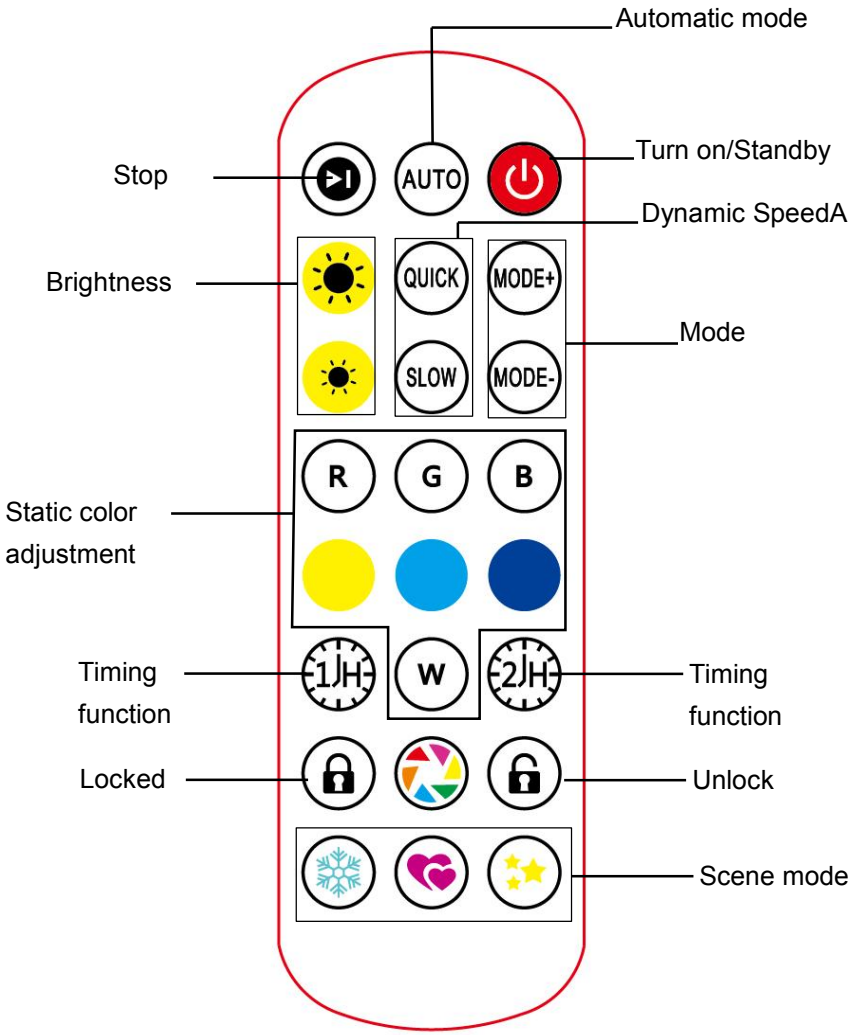
| | |
|---|---|
| |  |
| **Step 1:** Lift the ring. | **Step2:** Tighten the base on your bracket on the vehicle. |

| | |
|---|---|
| |  |
| **Step 3:** Connect all wires to corresponding positions.<br>**Note:** Please note that the directions of the arrows on both sides of the wiring must correspond. | **Step 4:** Connect to the battery wire,connect the red wire to the positive pole and the black wire to the negative pole. |
| | **Step 5:** Installation is complete. Please test if the light is working normally. |

## OPERATING INSTRUCTIONS

There are two operating methods: one is through a remote controller, and the other is through Magic Lantern App. The specific operating ways for both methods are explained below.

### Remote Control Description:




**Operation manual of remote controller：**

1. Using Remote Controller;

Please pull out the battery insulate tape before using. The 2.4G remote signal can pass through barrier，so it's not,necessary to aim at the main unit when operate.

2. Pairing New RemoteThe remote and main unit is 1 to 1 paired as default Further more, main unit can bepaired to 3 remote controllers and each remote

controller can be paired to any main unit.

3. Free Remote Pairing Mode;

In some specific cases,the main unit may need to be paired to any remote controllers. Please do following steps for free remote pairing mode:Plug off the power of main unit and plug in after seconds.

4. Switch Output Color Sequence;

The controller's default output signal sequence 1sCommon-Green-Red-Blue.If the LED application is in different cable sequence, the direct color keys will not match the LED color. In this case, user can adjust the output signal sequence.

**Note:** The peak output current is 4 amperes and maximum constant current is 2 amperes per channel. Please reduce load if main unit is overheating.CAUMIONI Do not short circuit or overload the LED outputs,this may lead to permanent damage!

| | |
|---|---|
| | Press on or enter the standby state |
| | Pause |
| AUTO | Automatic mode (21 default dynamic mode cycles) |
| QUICK SLOW | Speed / sensitivity increases / decreases |
| MODE+ MODE- | Mode switching |
| | Brightness increases / decreases |
| R G B W | Switch the light color to: red/green/blue/yellow/cyan/purple/white |
| 1JH 2JH | Turn off the lights regularly for 1 hour/2 hour |
| | Locked/Unlock |
| | According to the program set color flow display |

| | |
|---|---|
| | Switch respectively is: the snowflake/romantic/starry sky model |

Note:Adjust the brightness, when the speed is large, the light flashes to indicate that it has been adjusted to the maximum or minimum state.

## Operation manual of Magic Lantern APP:

### 1.1 Overview

The Magic Lantern is a mobile app that controls the LED lamp belt through apple or Android mobile phone.

The traditional control ways like infrared, 433MHz, 2.4GHz and others old wired ways will be replaced by mobile phone control way with convenient, powerful and scalable features.

Through the mobile app, you can easily and quickly control the color, brightness and color temperature of the LED light belt. You can also set various flashing modes, and make the LED light belt move with the music rhythm. Just keep the LED light band powered on, turn on the mobile phone Magic Lotus lamp app intelligent control software, connect one or more LED light band controllers through Bluetooth, so as to realize various settings and control of multiple LED light bands. Operation is very simple, easy to learn and use.

### 1.2 Features

- Adjust color LED strips with 60,000 colors to change color and brightness and adjust monochrome LED stips to change brightness and color temperature
- Play mobile music or turn on a sound playback device, you can let the light change the color and brightness with the rhythm of music, the music rhythm beautiful
- Inside multiple setting mode for color change and control LED strips without mobile
- Long distance control with omni-directional antenna, and many-to-many group control mode
- Quick and easy automatic connection

### 1.3 Performance

Magic Lantern APP has good ease of use and compatibility. The actual testing and verification of hundreds of mobile phones is compatible with the current market.

Most smartphones. APP is small and convenient, it consumes less system resources, so the requirements of the mobile configuration are low. Control delay is small, the operation feel good, light control is smooth with people's visual sense.

## 2. Operating Environment

This APP program requires phones of system above Andriod 4.3 and iOS 8.0 Mobile phone configuration is not limited.

## 3. Instructions

Note: Android version and iOS version download and use the same method, here in the Android version as an example.

### 3.1 APP Download

**Scan the QR code**

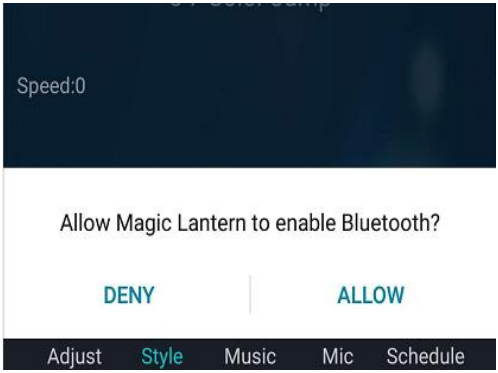
iOS and Android systems can download the " Magic Lantern " APP by scanning the QR code. Open the browser or other tools with "Scan QR code" function, scan the " Magic Lantern " QR code as below:

After the software is installed and downloaded successfully,click apk to install.After the installation is complete,the following style of program icon will appear on the desktop.

### 3.2 App Operation

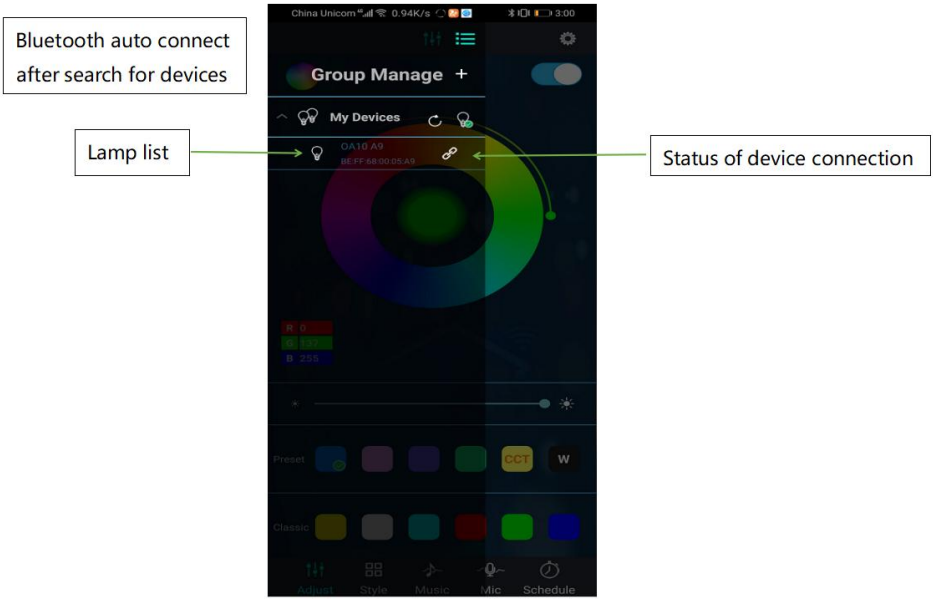
（1） Click on the Magic Lantern APP icon, enter the APP page:

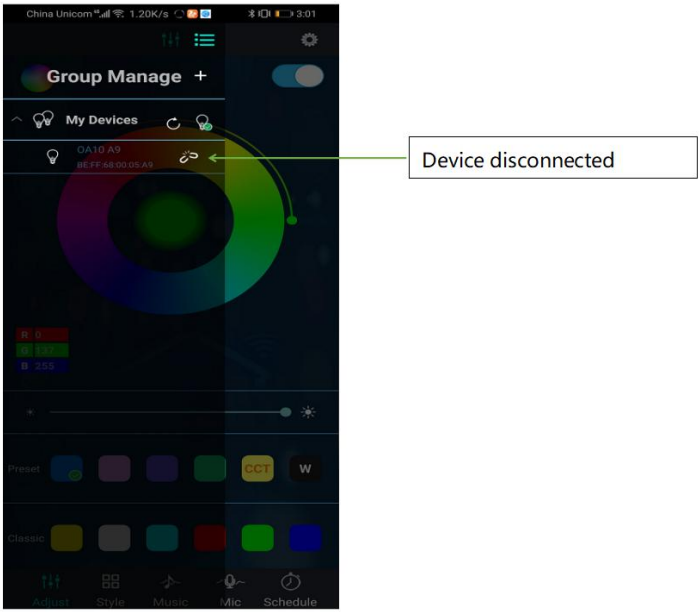
（2） After entering the APP interface, if Bluetooth is not enabled, "Allow Magic Lantem to Bluetooth ?" Click [Allow]




（3） switch to color and brightness interface:

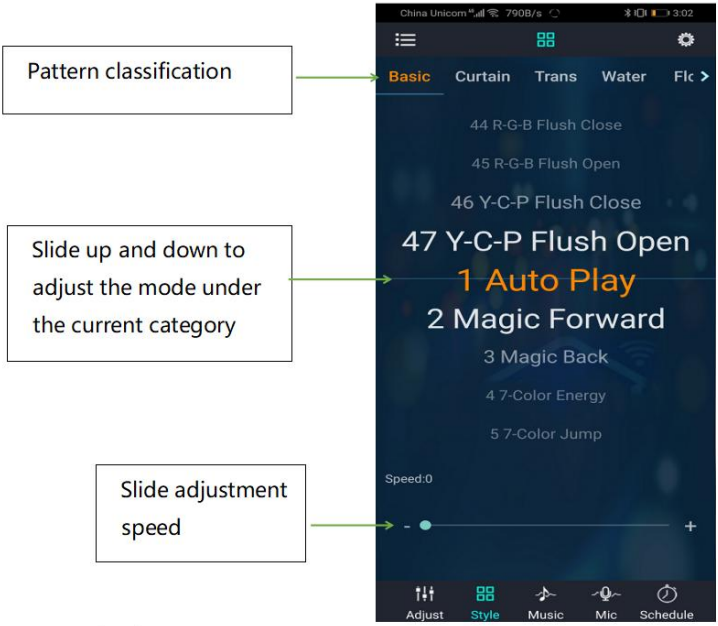
（4） click to show the lamp list, view lamp list:



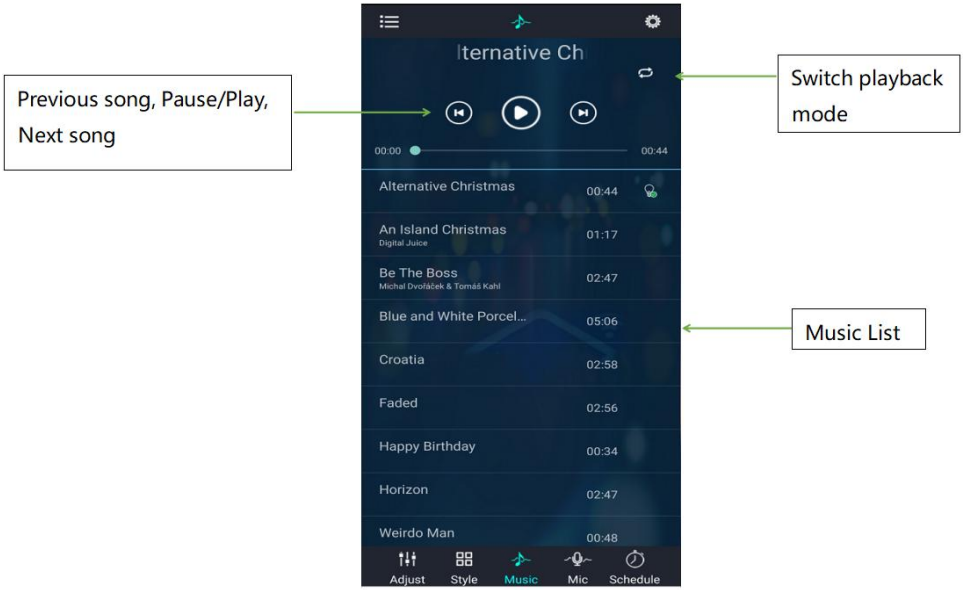



（5） Click to RGB manual adjustment view:

（6） switch to the mode interface:

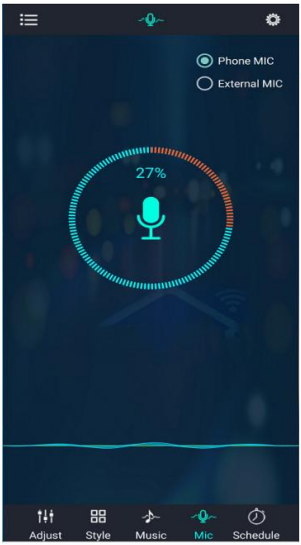



（7） switch to the music rhythm interface:



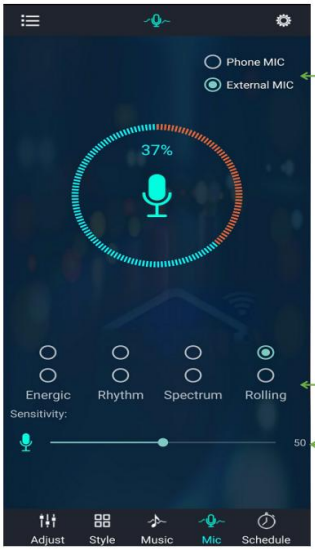

（8） Switch to the microphone rhythm interface:

Music rhythm through cell phone microphone




Switch phone microphone and external microphone

Music rhythm through the microphone on the product



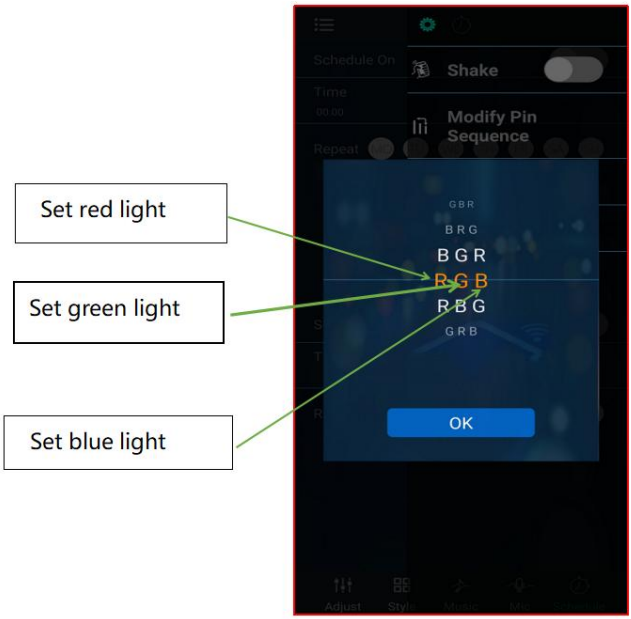

Switch phone microphone and external microphone

Set different rhythm

Change the sensitivity of MIC to match the sound

（9） Switch to the timing interface:

（10） Switch to the modify pin sequence interface:



**FCC Information**

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This product may cause harmful interference.

2)This product must accept any interference received, including interference that may cause undesired operation.

**Note:** This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules, These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception,which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

· Reorient or relocate the receiving antenna.

· Increase the distance between the product and receiver.

· Connect the product to an outlet on a circuit different from that to which the receiver is connected.

· Consult the dealer or an experienced radio/TV technician for assistance.

**CORRECT DISPOSAL**

This product is subject to the provision of european Directive 2012/19/EU. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the

European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to acollection point for recycling electrical and electronic devices.

**Address:**NO.17, Shiliu Road , Industrial Area  Changyaoling , Zhon gluotan Town , Baiyun district , Guangzhou ,China

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