# 140x100mm

## User Manual

### LED Decorative String Light

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## Overview:

This product is widely applied in the indoor decorations with music such as homes, hotels, KTV evening parties and gatherings. The environment can be made to be more active instantly and you can be introduced into a passionate moment with the dazzling environment. It adopts infrared controller and advanced computer control chip which can be used to control all kinds of lights and strip lights modules with low voltage DC5V LED multicolor RGB as the light source. What's more, it has the advantages of convenient wiring and simple operation. The 2.4G RF wireless 23-button remote control can adjust its brightness, color and various dynamic lighting effects and music atmosphere effects.

In addition, the automatic gain and sensitivity can be increased through the sound sensor controller. The external sound can be sensed through the audio controller. After connecting to the light bar, the light rhythm and dynamic mode of the light bar can be automatically adjusted according to the music sound in the environment, the corresponding rhythm and effects change in synchronization with the music, The remote control can work from long distance, the operation becomes convenient and simple with the dual control mode.

### Package List

· string light x 1　　　　　· LED Controller x1
· remote control x 1　　　　· User Manual x 1

### Specifications

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| Product Name: LED Decorative String Light | |
| Model: HL-011A | |
| Color: Full Color | |
| Waterproof Level: IP67 | |
| Adapter Voltage: 5 V | |
| Maximum Power Consumption: 15 W | |

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## Instructions of the remote control

- Off light
- ON light
- Automatic loop
- Pattern + pattern-
- Brightness+ Turn to the limit and flash white light prompt
- Speed+ Turn to the limit and flash white light prompt
- Speed+ Speed- Brightness- Turn to the limit and flash white light prompt
- Static single color, shortcut button Press to display the corresponding color
- R G B
- Timed 1 hours off lights
- White
- Timed 3 hours off lights
- Timed 2 hours off lights
- Timed 4 hours off lights
- Rhythm 1-2
- 16 colors switch
- Lock the remote
- Rhythm 3-4
- COLOR
- W

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**:Press to turn off and turn on the controller.**

AUTO : When the power is on, press to cycle all the pattern effects automatically

MODE←→MODE : When the power is on, press to switch the dynamic mode, increase ordecrease the 121 variable effects and adjust the 20 kinds of static colors.

SPEED : In dynamic mode, press it to increase or decrease the speed of 10 poles intotal. In music rhythm mode, press it to adjust the sensitivity of the rhythm.

: When the power is on, press to increase or decrease the brightness of 10 degrees.

: Static singlecolor, shortcut button Press to display the corresponding color.

W : When the power is on, press this button and it will be static white.

COLOR : When the power is on, press to switch light color , up to 16 colors.

: When the power is on, press this button can keep it on for fixed 1,2,3 and 4 hours.

: Single click to switch to 1-2 rhythm modeClick to cycle through the 3-4 rhythm mode

: After pressing, the remote control is locked, pressing the switchis available, other keys are invalid,After pressing once, the unlock button can be usedAfter the remote control is locked, press the switch to unlock the remote control.

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## 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 slips 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.

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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 Lantern to Bluetooth ?" Click (Allow)

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(3) switch to color and brightness interface:

- Click to show the lamp list
- Switch the color wheel
- Click to display setting view
- Lamp switch button
- Adjust the color
- Display the RGB value Click to manual adjustment view
- Click square icon to adjust the color
- Click to shift the interface

(4) Click to RGB manual adjustment view:

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

- Bluetooth auto connect after search for devices
- Lamp list
- Status of device connection
- Device disconnected

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(6) switch to the mode interface:

- Pattern classification
- Slide up and down toadjust the mode underthe current category
- Slide adjustment speed

47 Y C P Flush Open
1 Auto Play
2 Magic Forward

(7) switch to the music rhythm interface:

- Previous song, Pause/Play Next song
- Music List
- Switch playback mode

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(8) Switch to the microphone rhythm interface:

Music rhythm through cell phone 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

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(9) Switch to the timing interface:

- Set the time of Light-On
- Timing Light-on button
- Set the lighting cycle
- Set the time of Light-Off
- Timing Light-off button
- Set the light-off cycle

(10) Switch to the modify pin sequence interface:

- Set red light
- Set green light
- Set blue light

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## LED Decorative String Light

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
FCC Radiation Exposure statement
The device has been evaluatec to meel general RF exposure requirement. The device can be used in portable exposure condition without restriction.