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3.2 App Operation



LotusLantern APP Manual

1. Software Overview

1.1 Overview

LotusLantern is a mobile APP to control LED strip by both Apple and Android phones.

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 stable features.

Through this mobile APP, you can not only control the color, brightness and color temperature of the LED strips but also set up all kinds of busy flash mode. Also this APP can change the light of the LED strip according to the rhythm of the music. This APP can set and control several LED strips through Bluetooth and the operation is very simple, easy to learn and easy to use.

1.2 Features

- Adjust color LED strips with 16,000 colors to change color and brightness and adjust monochrome LED strips to change brightness and color temperature.
- Play 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.
- Include multiple setting mode for color change and control LED strips without remote.
- Long distance control with ultra-directional antenna, and many-to-many group control mode.
- Once the connection is successful, connect automatically next time.

1.3 Performance

LotusLantern APP is easy for use as well as great compatible for all kinds of smart phones. After the actual test of hundreds of mobile phones in the market, 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 Android 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 is the Android version as an example.

3.1 APP Download

- Scan the QR code.

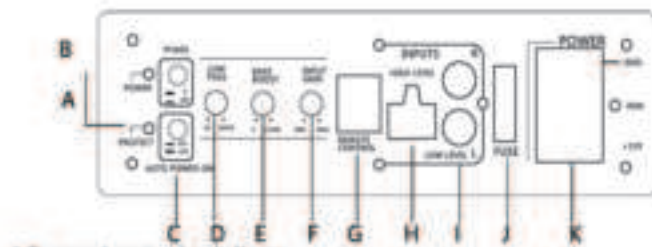
iOS and Android systems can download the "LotusLantern" APP by scanning the QR code. Open the browser or other tools with "Scan QR code" function, scan the "LotusLantern" QR code as below:



(1) Click on the LotusLantern APP icon, enter the APP page.



(2) After entering the APP interface, if Bluetooth is not enabled, "an application wants to enable the Bluetooth function of this device." Click [Allow].



A. Power and protection indicator
B. Phase transfer switch
C. When the high level (H) is input, when the RS is not connected (only test), it acts as the power control switch ON/OFF to activate the indicator.
D. Bass filter potentiometer
Note: The actual frequency of the low-pass filter may be higher or lower than the set value, with an error of 20% to 30%.

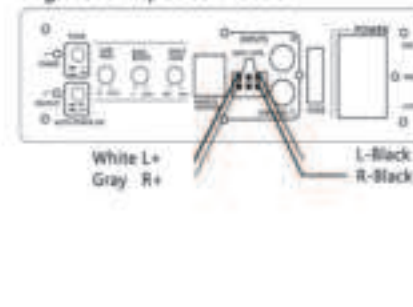
E. Bass potentiometer
F. Volume potentiometer
G. Remote Bass volume control part
H. High level input port
I. Low level input port
J. Power socket
K. Power Input Terminal

Low level input connection



Note: Do not input high and low levels at the same time

High level input connection



Power input connection

Way One:



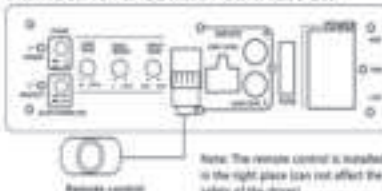
Note: The "AUDIO POWER ON" switch is in the "ON" position. Connecting "REMOTE".

Way Two:



Note: The "AUDIO POWER ON" switch is in the "ON" position.

Remote level control connection



Note: The remote control is installed in the right place (can not affect the safety of the driver).

Product model	AL09 / AL09
Rated Power	100W / 100W
TBD Total harmonic distortion	<0.05
SNR Signal to Noise Ratio	>90dB
Frequency response	20Hz-18kHz
High frequency input sensitivity	0.5W
LF Low input sensitivity	300mV
Bass Boost	0dB-100dB
BT High Power Filter	0 to 12dB
Load	300Ω
Power Rating	10-20A
Active Area	8" 18" 6x9" inch
Dimensions (long and width)	8" : 21.542947.2in / 10" : 25.542947.2in / 12" : 30.482947.2in

NO	Troubleshooting	Fault cause
1	The amplifier cannot be started.	1. Check whether the ground wire of the power amplifier is well connected. 2. Check if the positive voltage of the battery is on the positive terminal of the power amplifier. 3. Check BATT voltage not lower than 12V. 4. Check that the positive voltage of the power terminal is not lower than +12V. 5. Check for damaged fuse. 6. Confirm the protection indicator, if the indicator is on, restart the amplifier.
2	The protection indicator light goes off after the amplifier starts.	1. Check the speaker terminals for a short circuit. 2. Turn down the volume potentiometer for overload protection. 3. Remove the item connecting line and restart the amplifier.
3	No output	1. Check for damaged fuse. 2. Check that the amplifier is properly grounded. 3. Amplifier startup voltage should not be lower than 12V. 4. Check if the RCA audio cable or high frequency input cable is properly connected to the amplifier. 5. Check if the speaker cable is well connected.
4	Low power output	1. Turn the volume potentiometer. 2. Check that the filter potentiometer is in the correct position.
5	Low power output	1. Disconnect the signal input line of the power amplifier, if it disappears, there is a problem with the signal source. At this point, it is necessary to confirm whether the signal line is well connected, whether the quality of the signal line is faulty, otherwise the best way to solve the problem. 2. Turn the volume potentiometer of the power amplifier as low as possible, and turn up the volume of the host as much as possible (do not distort).
6	There are distortions	1. Check if the RCA ground wire is connected.
7	Distortion	1. Check whether the size of the power amplifier volume potentiometer is appropriate. 2. Check the size of the filter potentiometer.
8	Power amplifier is over-heating	1. Check if the speaker impedance is lower than the indicated impedance of the amplifier. 2. Check that the installation location of the amplifier is well ventilated.
9	Speaker sound	1. The main reason is that the quality of the RCA signal line is too poor. It is necessary to replace the signal line with good quality and keep it away from the power line.
10	Speaker noise	1. Check RCA signal line is not connected to the chassis. 2. Check that the host is properly grounded.

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.