



Thank you for your purchase of **THE BOOGHEYBOX portable LED light system by BOOGHEY LIGHTS®**.

The BoogeyBox Portable LED Light System includes the following items:

- This box comes preconfigured with the number of LED Light Stick water-proof connectors to attach to the LED Light Sticks you ordered. Inside the box you'll find the Boogey Lights Heavy Duty LED controller with both RF and Bluetooth control capabilities. You'll notice the LED controller is protected by a replaceable 10amp blade fuse in a fuse holder.
- Standard M7 RF remote control with 3vdc battery
- Long Range M7 RF remote control with 12vdc battery
- 10amp, 120vac to 12vdc power supply with 10' power cord
- Internal "stubby" antenna already installed.
- External magnetic whip antenna with 15' cable.
- The number of LED Light Sticks you ordered each with a power lead cable and quick-disconnect screw on connector.

## SETUP

Setup is quick and easy. Four easy steps.

First, connect the LED Light Sticks to each of the quick-disconnect connectors coming out of the BoogeyBox. Each LED Light Stick has a male quick-disconnect connector. They plug into the female quick-disconnect connector coming out of the BoogeyBox. Notice that each of these connectors can only be connected one way so it's impossible to connect them incorrectly; just don't force them.

Second, connect the water-proof 12vdc power supply into the 12vdc power connector coming out off the BoogeyBox. Notice that this connector can only be connected one way so it's impossible to connect them incorrectly; just don't force them.

Third, plug the 120vac 3 prong plug into your 120vac power source. As soon as you do this, your BoogeyBox will power up. A green light will light both on the external power supply as well as the LED controller inside the BoogeyBox.

Fourth, lay out your LED Light Sticks as you want. Care should be taken to make sure they won't be stepped on or that the power leads won't be pinched, crushed or crimped. We also recommend that you place both the LED Light Sticks and the power cables in a dry location.

## **OPERATION**

Using your BoogeyBox couldn't be easier. Once you have it setup and powered up, you can control your LED Light Sticks by using either of the two RF remote controls. Or, you can also use your Bluetooth enabled smartphone. Just download the free Boogey Lights APP (Android or IOS), connect to the controller (no pairing). Once connected, you can then operate your BoogeyBox with your smartphone.

## **EXPANSION**

The BoogeyBox was built with expansion in mind. If you want to add additional LED Light Sticks, you can connect them to your existing BoogeyBox by pushing the connector through the rubber grommet already existing in your BoogeyBox and connect them to the LED Terminal Block inside the box. There are four posts, each of which represent a color: Black (Ground), Red, Green and Blue. The Red, Green and Blue wires provide 12vdc power to each of the three DIODES contained in each RGB LED which are imbedded in each LED LIGHT STICK. The ground completes the circuit. See photo diagram at the end of this document.

You'll notice that both the LED TERMINAL BLOCK and the HEAVY-DUTY LED CONTROLLER can be easily removed from the box as they are affixed using 3M heavy duty dual lock strips.

## **INTERNAL & EXTERNAL ANTENNA**

Your BoogeyBox comes pre-configured with a fixed "stubby" antenna already installed. You'll notice this stubby antenna fits into the rubber grommet hole in the back side of the box. For most situations this stubby antenna will provide adequate RF reception (100-200' control using either of the included RF remotes). If, however you are using your BoogeyBox in a situation where it is surrounded by a lot of metal, you have the option of removing the stubby antenna and using the included magnetic whip antenna with the 15' cable. To switch out to this external antenna, gently remove the LED controller from the box (pull away from the side and then out of the box), unscrew the stubby antenna, feed the antenna cable attached to the external whip antenna through the rubber grommet where the stubby antenna was and screw that cable to the LED controller where the stubby antenna used to be. Place the LED controller back in the box and press lightly to make sure the 3M heavy duty dual lock strips lock in place. You can now position your external whip antenna to get the best reception for your operating environment.

Note: The stubby and external antennas are only used for RF transmission. They do not affect Bluetooth reception. Bluetooth is not designed for longer distance communication. It's short range – 10' to 25'; 50' if you're lucky. The strength of a Bluetooth signal is largely dependent on the battery power of the mobile device along with interference from other radio signals or physical objects in the environment. Don't expect your mobile phone to operate the BoogeyBox from long distances.

## THINGS TO KEEP IN MIND WHEN USING YOUR BOOGEYBOX

- While The BoogeyBox is designed for outdoor use, it should not be submerged in water – this includes the LED Light Sticks. More importantly, do not allow water inside The BoogeyBox itself. For this reason, we recommend placing The BoogeyBox in a location that is dry when in use. If water does get inside the box, immediately unplug from the power source and allow the water to dry thoroughly before using again. You might also need to check the blade fuse to make sure it didn't blow. Damage done to any of the components inside the box by water intrusion is not covered under warranty.
- Care should be taken when handling the LED Light Sticks so as to not bend, flex or twist the LED Light Sticks themselves. Doing so could stress the LED light strip inside the LED Light Stick to the point at which some LEDs on the strip may no longer light. Also, when handling the power leads, make sure you are not stressing or putting tension on either the connectors or the point at which the power lead enters the LED Light Stick. Damage done to the LED Light Sticks in this way is not covered under warranty.
- The LED controller inside The BoogeyBox is heat sensitive. If it gets too hot, it will shut itself down. The more LED Light Sticks you add to the box, the more heat will build up. Also, which colors you're displaying (and their brightness setting) will impact the amount of amperage required to power the BoogeyBox (more amperage = more heat buildup). If for example you're running all LED Light Sticks on full brightness white, the power consumption will be at peak and thus more heat buildup inside the box. Reducing brightness or changing the color from something other than white will reduce power consumption and heat buildup. While The BoogeyBox is designed to operate at full capacity without over-heating, the operating environment too can impact the functionality. If you find that your BoogeyBox is over-heating, there are two things you can do. First, you can open the top of the box which should solve the problem quickly. Of course, opening the top of the box will expose the LED controller and LED Terminal Block to the outside elements so this should only be done when you're using your BoogeyBox under dry conditions. Second, you can remove the rubber grommet in the unused expansion hole to allow air flow into the box. Doing this may or may not solve the problem depending upon how hot the operating environment is.

