

**WIRELESS**

**DMX512**

# **STREET LIGHT KIT**

**STAGE  
TECH  
TINKER<sup>EX</sup>**

# **WIRELESS DMX STREET LIGHT KIT 2.1**

10.1.23

## **FEATURES**

Wireless 4.2 GHz DMX512 with adjustable address (transmitter required).

Operates on 8-AA batteries or optional rechargeable battery.

Uses one DMX address.

Operates with 12 volt light bulbs.

## **Size**

279 x 229 x 102 mm

11 x 9 x 4 in

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**This unit requires a DMX transmitter.** Always power up the DMX transmitter before the unit.

**This unit does not use dimmers.** It uses a relay switch that can only turn on (100%) or off (0%). DMX data 0-127 is off (0%). DMX data 128-255 is on (100%).

**Use only 12 volt light bulbs, 10 watts or less.**

Intended for indoor use at room temperature only. Keep away from water.

This unit is not designed to left on for long periods. It is designed for short term use on stage.

Use only high quality AA batteries or a 12 volt rechargeable battery.

Do not use charging port with non-rechargeable batteries.

This unit is equipped with an 1A fuse. A spare fuse is included.

This unit uses one DMX address, the address that you set with the dip switches.

This unit has 7 4.2 GHz wireless DMX groups to choose from. The transmitter group and the unit group must match. They are identified by the color of the power LED when first turned on.

- 1: RED
- 2: GREEN
- 3: RED+GREEN = YELLOW
- 4: BLUE
- 5: RED+BLUE = PURPLE
- 6: GREEN+BLUE = CYAN
- 7: RED+GREEN+BLUE = WHITE

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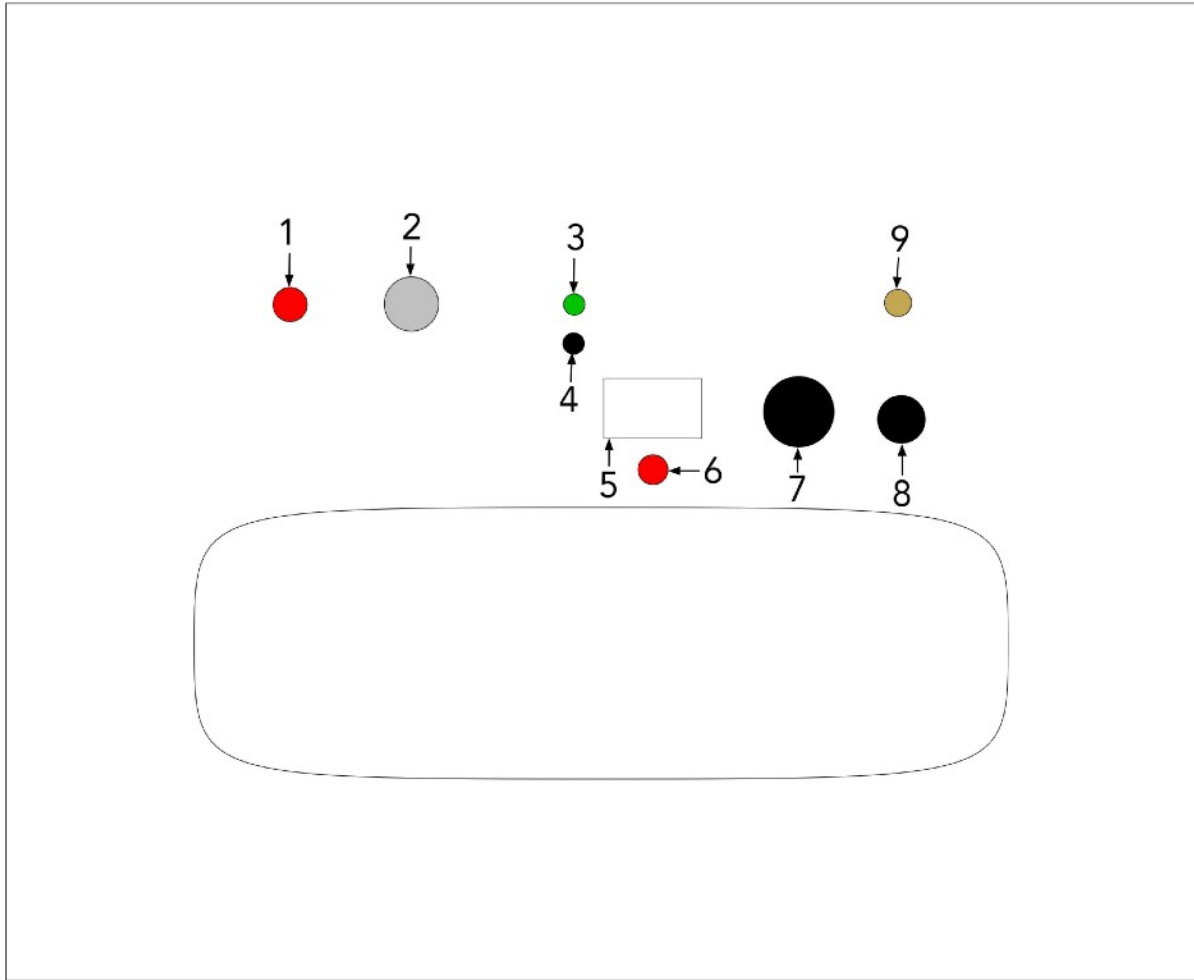
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## **YOU WILL NEED**

a DMX lighting console  
wireless DMX transmitter  
street light  
a (plywood) base with a 11" x 9" flat area on the back  
12 volt light bulb  
8 quality AA batteries  
Phillips screwdriver  
wire cutters  
wire strippers  
drill  
jigsaw  
screws and/or glue  
paint  
3A rechargeable 12V battery (optional)

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1. Test mode red LED.
2. Three way switch. Test mode, off, DMX mode..
3. Power LED.
4. Adjustment button.
5. Voltmeter.
6. Momentary push button for voltmeter.
7. Fuse holder.
8. Charging port.
9. Antenna mount.

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I have video demonstrations of all instructions. Please check my website and youtube channel for more information and demonstrations.

## **Set DMX Address**

1. Remove screws from front cover.
2. Use dip switches to set DMX address. The dip switches are mounted on a red piece of plastic. There are apps to help with setting dip switches.
3. Replace cover.

## **Change Batteries**

1. Remove screws from the cover.
2. Replace batteries.
3. Confirm battery switch is in the "ON" position.
4. Replace cover.

## **Set Wireless DMX Group**

1. Flip the power switch to the right for DMX mode.
2. Press the adjustment button once to identify group color.
3. Press the adjustment button again to change group color. The group color of the transmitter and the device must match.

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## **Installation**

1. Cut a 6" x 8" hole in the back of the base.
2. Feed the cable from the street light through the hole in the base.
3. Attach the street light to the base.
5. Replace the "REPLACE ME WITH NEGATIVE" wire from the lever connector with the negative wire from the lamp.
6. Replace the "REPLACE ME WITH POSITIVE" wire from the lever connector with the positive wire from the lamp.
7. Attach the street light kit in the hole in the base using screws and/or glue.
8. Install a 12 volt light bulb into the street light.
8. Paint and finish to match if desired. The street light kit is primed and ready for paint.
9. Attach antenna.

## **DMX Use**

1. Set DMX address.
2. Replace batteries if necessary.
3. Turn on lighting console and power up a DMX transmitter. The transmitter will blink red when transmitting a DMX signal.
4. Patch the unit as a dimmer into a lighting console.
5. On the unit, turn on the three-way switch to DMX mode. The power led will blink green when receiving a DMX signal.
6. You should be able to turn on the unit by bringing the address level over 50%.

## **Test Mode**

1. Flip the three-way switch to test mode. The corresponding red LED as well as the street light bulb will light up when the unit is in test mode.

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## **Check Voltage of Batteries**

1. Push and hold the momentary push button.
2. The voltmeter will light up with a read out.
3. It does not matter if the unit is powered on.
4. The voltage will be lower if in use at the time.

## **Change Fuse**

1. Remove fuse cover.
2. Replace 1A fuse.
3. Replace cover.

## **Install Rechargeable 12V Battery**

1. Remove screws from front cover.
2. Remove AA battery case and detach DC plug.
3. The rechargeable battery came with a splitter cable. Attach the cable to the battery and install the battery using velcro.
4. Connect the splitter cable to the incoming power cable.
5. Find the charging port. Connect the other end from the splitter cable to the charging port cable.
6. Replace cover.
7. Replace the 1A fuse with a 2A fuse.
8. Charge using the power supply included with the rechargeable battery.

## **Long Term Storage**

1. Remove AA batteries and discard or remove rechargeable batteries for long term maintenance per manufacture's instructions.
2. Remove antenna.



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## **TROUBLE SHOOTING**

### **NO POWER**

Confirm the switch on the battery is in the "ON" position.

Replace/charge batteries.

Check and replace the fuse.

### **WIRELESS DMX ISN'T WORKING**

Confirm the transmitter is blinking a red LED at a fairly rapid pace. If the pace is slow, restart.

Confirm the unit's power LED is blinking a green LED at a fairly rapid pace. If the pace is slow, restart the transmitter and the unit.

Confirm the transmitter and device are on the same DMX group by pushing the adjustment button once and checking the group colors. Adjust DMX group to be the same color using instructions above.

Confirm the DMX address by removing the bottom cover and checking the DMX dip switches.

### **LIGHT BULB BLOWS OUT**

Confirm the bulb is 12 volts rather than the standard 120 volt bulbs.

Check the positive and negative wires were mixed up during installation. Remove cover. Switch the positive and negative wires from the lamp. Replace cover. Replace bulb. Try again.

**Feel free to contact me at [stagetechtinkerer@gmail.com](mailto:stagetechtinkerer@gmail.com)  
with any problems.**

**Please check my website and youtube channel for more  
information and demonstrations.**