**30 Color RGB LED Controller With RF Wireless Touchpad**

**Model #: RGBK300**

**Precision dimming and control for RGB color-changing LED lighting.**

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**Low voltage safety**

Low-voltage safety is not a concern since the color controller receiver is direct wired into your low voltage power supply. Just be sure to have correct polarity on all wire connections (V+, red to red, green to green, blue to blue) when joining your LED tape light system.

**Retainer**

The color controller has a built-in built-in rear rubber grommet to protect your color controller receiver from an accidental drop or a few inches of water. The color controller receiver can be used with most standard drywall screws.

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**Common Code Pairing Unique Code Pairing**

1. Shut off power to the receiver unit by unplugging it from the power supply. Conﬁrm you have maintained correct polarity on all wire connections (V+, red to red, green to green, blue to blue) when joining your LED tape light system.

2. Press the reset key on the wireless touchpad to create a new unique code.

3. Press the common code button to begin common code pairing.

4. The unit will remember the settings for brightness and speed for each color and group. The unit will remain in that status even after the touchpad is removed.

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**Strobe Effects**

Strobe effects are not adjustable in any color. Do not connect multiple receivers to one power supply. If your LED tape light strip does not light, ﬂickers, or there is limited or no light, check to ensure that the color controller receiver is functioning properly, and you know your transmitter touchpad is in range of the color controller receiver.

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**Compliance**

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

For help with larger LED lighting installations, email support@armacostlighting.com.
30 Color RGB LED Controller With RF Wireless Touchpad

Model #: RGB8KEY-RF

Precision dimming and color control for RGB color-changing LED lighting.

Always remember polarity

Low-voltage wiring from the power supply must connect to the left or right side of the receiver. Wire color must be consistent throughout your installation. The left and right sides will always be the same in a unit, unless otherwise mentioned. The left side is used for V+ (positive) and the right side is used for V- (negative). Each receiver is equipped with a power on indicator light that illuminates green when the controller is receiving a RF signal.

The RC8 RECEIVER Unit

The RC8 receiver unit consists of an RGB color controller receiver and an AZ8 transceiver. The AZ8 transceiver is a wireless touchpad that is used to control the color and brightness of the receiver. The AZ8 transceiver is preprogrammed with a full spectrum of 30 designer colors and 8 effects.

The AZ8 Wireless Touchpad

The AZ8 wireless touchpad is preprogrammed with 8 static color options and 8 effects. You can mix and match colors to create your own unique color scheme. The AZ8 touchpad is also equipped with a power on indicator light that illuminates red when the controller is not receiving a RF signal.

Radio Frequency (RF) Technology

Our AZ8 transceiver uses radio frequency (RF) technology, which means it communicates wirelessly. RF technology is an excellent choice for outdoor applications because it is not affected by electrical noise or line drop. RF technology also allows for greater range and flexibility in your installation.

Wireless Receiver Compatibility

The AZ8 transceiver is compatible with Armacost’s Wireless RF Basic Color Controller Receivers. If you are using a Basic Color Controller Receiver, you will need to purchase a AZ8 Transmitter to control the color and brightness of the receiver.

Power to the Receiver

For an online voltage drop calculator, visit armacostlighting.com/installation. Voltage drop is the gradual decrease in voltage that occurs from your power supply to your LED lights. Voltage drop can cause inconsistent colors, especially when used in cove lighting, keep the LED tape snug, but do not over-tighten. For better color consistency, keep RGB LED tape oriented in the same direction. Always maintain polarity when connecting the LED lights. Soldering is the surest method for making extra reliable electrical connections (V+, red to red, green to green, blue to blue) when joining LED lights. Make sure the power supply and RGB color controller are turned on and consistent. Inconsistent colors can result from improper installation, improper connections, or the use of low-quality components.

Dishwasher & Near-By Wire Obstructions

The AZ8 transceiver is not affected by kitchen appliances, motors, dishwashers, vacuums, etc. However, the wireless touchpad may be affected by metal or objects near the controller. This can cause the wireless touchpad to lose its signal and/or affect the brightness and color of the receiver.

Troubleshooting

LED tape thin strip does not light, flickers, or turns is limited or inconsistent? Make sure the power supply and RGB color controller are turned on and consistent. Inconsistent colors can result from improper installation, improper connections, or the use of low-quality components.

Functional Effectiveness

The AZ8 transceiver is designed to work with any standard RGB LED lighting system. The AZ8 transceiver can work with any standard RGB LED lighting system. The AZ8 transceiver is also compatible with Armacost’s Wireless RF Basic Color Controller Receivers. If you are using a Basic Color Controller Receiver, you will need to purchase a AZ8 Transmitter to control the color and brightness of the receiver.
**30 Color RGB LED Controller With RF Wireless Touchpad**

**Model #: RFW30EB**

Precision dimming and color control for RGB color-changing LED lighting.

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**Low-voltage controller**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard</th>
<th>Options</th>
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</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>12V-24V DC</td>
<td>–</td>
</tr>
<tr>
<td>Max load with 12V DC lighting</td>
<td>288 watts</td>
<td>–</td>
</tr>
<tr>
<td>Max load with 24V DC lighting</td>
<td>288 watts</td>
<td>–</td>
</tr>
</tbody>
</table>

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**Operation**

After selecting your power supply, check that the green power LED (light) is glowing. Press the Magic Wheel. When the light is green, you can set the color controller to any color. To select the color, turn the Magic Wheel. The touchpad transmitter controls the color and fades in the color selected. To change the color, use the Magic Wheel. The controller is powered on or off by pressing the On/Off button. Always turn the controller off when not in use. Please follow the instructions under Color and Multi-Color Zone Lighting sections for using the controller for color and multi-color zone lighting.

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**Color and Multi-Color Zone Lighting**

This color controller feature RGB technology for compatibility with all RGB LED lighting. When in the color controller’s setup menu, you can select any color out of the 16 million colors possible. The color controller is also compatible with multi-color zone lighting. The controller is set up for use with multi-color zone lighting. The controller allows you to set up different colors for each zone. Please follow the instructions under Color and Multi-Color Zone Lighting sections for using the controller for color and multi-color zone lighting.

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**Power Off Memory**

If the power goes out, or power is turned off to your power supply, when the power is restored, it will go to the last color or effect setting.

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**Troubleshooting**

LED tape light strips does not light, flickers, or there is limited or incorrect lighting output.

- Make sure the power supply and RGB LED controller are turned on and an output power source is present. Check that the controller is being powered off and on.
- If the controller is not lighting your LED tape lighting systems, please ensure that all receiver/transmitter units are in working order. Contact a qualified technician to assist with troubleshooting.

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**Specifications**

- **Input voltage**: 12V-24V DC
- **Max load with 12V DC lighting**: 288 watts
- **Max load with 24V DC lighting**: 288 watts
- **Transistor efficiency**: 100% (100% efficient)
- **Power consumption**: 2 watts
- **Power supply**: 12V or 24V DC 3A

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**Important Notes**

- **Avoid exposure to moisture**. As such, the controller is not intended for outdoor use or situations with moisture or water exposure. If the controller gets wet, please allow it to dry out before attempting to use.
- **Do not use this product** in hazardous locations. This product is designed for use in non-hazardous locations.
- **Do not install** in locations where the controller may be exposed to extreme temperatures, humidity, or excessive dust.
- **Do not install** in locations where the controller may be exposed to direct sunlight or reflective surfaces.
- **Do not install** in locations where the controller may be exposed to high electromagnetic interference or high levels of noise.
- **Do not install** in locations where the controller may be exposed to extreme vibrations or shock.
- **Do not install** in locations where the controller may be exposed to extreme pressure or physical abuse.
- **Do not install** in locations where the controller may be exposed to extreme chemicals or solvents.
- **Do not install** in locations where the controller may be exposed to extreme electrical hazards.
- **Do not install** in locations where the controller may be exposed to extreme safety hazards.
- **Do not use** in locations where the controller may be exposed to extreme weather conditions.
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