



User Manual
InfiColors M12r

1. Specifications & Parameters

Material: Silicone

LED model: SMD RGB 5050

Input Voltage: DC 12V (Workable between 10-15V)

Wattage: Maximum 50 w

Service Life: 50,000 Hours

Control: Method: RF remote, effective within 30 ft

- ✓ Standard Wattage per LED: 0.2 w
- ✓ Maximum current: This value is dynamic, depending on the colors, modes, and brightness that you've set.
 - Solid white color: 0.5 – 2.0 A
 - Other solid colors: 0.3 – 0.9 A
 - Flash, Strobe, Fade & Smooth: 1.0 – 2.0 A

Always use the kill switch to turn off the LED kit when you don't ride your bike, especially for days and weeks. This helps you prevent battery drain.

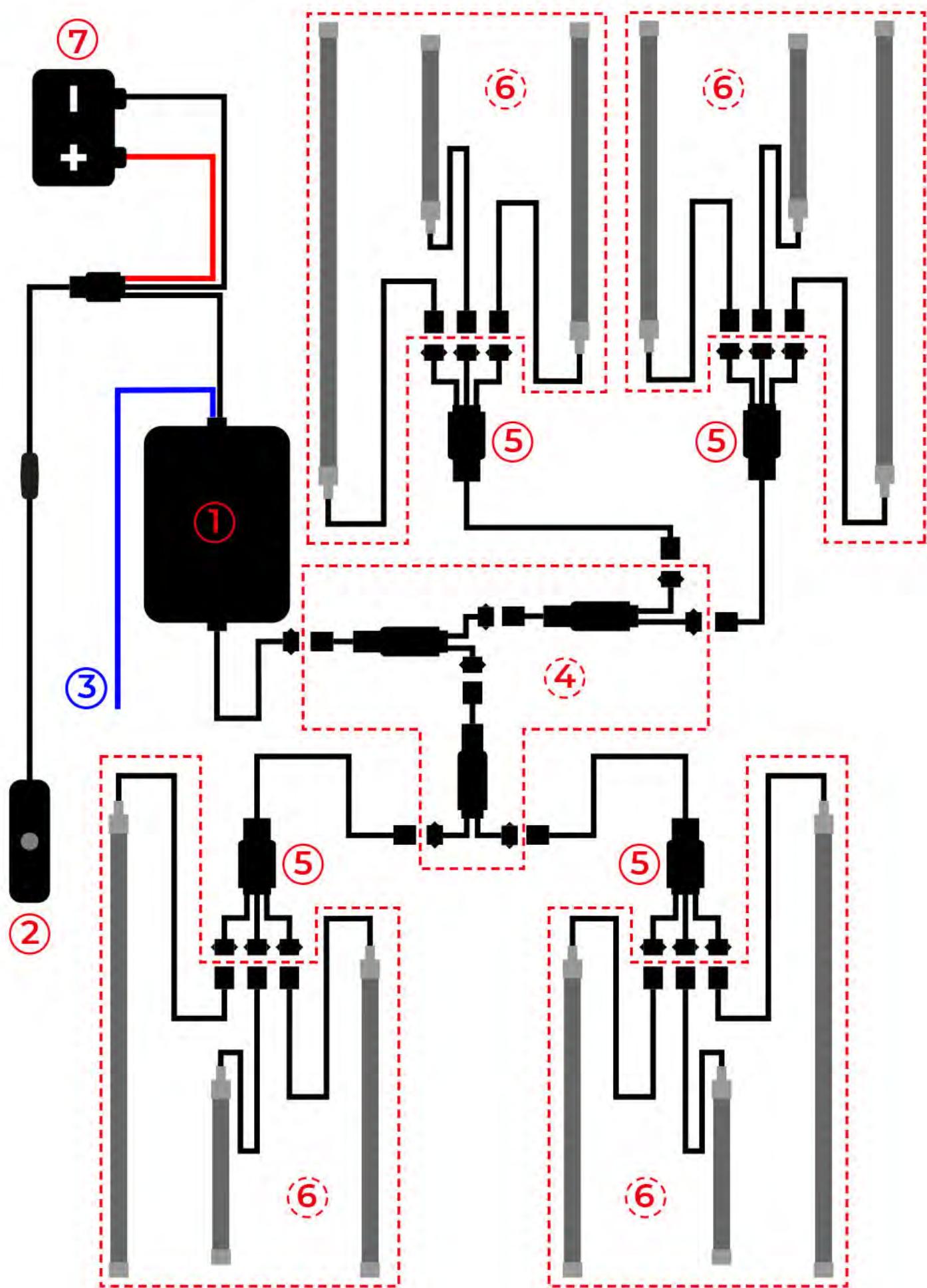


2. Test before Installation

First of all, do a lighting test before installation to make sure everything is fine.

- a. Find a power source with DC 12V (typically the battery of your bike has this voltage)
- b. Connect the red wire to the positive and the black wire to the negative
- c. LED strips will go on after you turn it on by pressing the push button on the kill switch for the 1st time
- d. Keep the red wire, and black wire connected, use the blue wire to touch the positive,
- e. Check whether LED strips go red, and this is for the brake light feature
- f. After you confirm everything works correctly, simulate installation to see whether the wires fit all your target spots
- g. If you see a problem, turn to the back cover of this manual, pick a way to contact DITRIO team, and we answer the same day

3. Conceptual Wiring Diagram



Primarily, the conceptual wiring diagram demonstrates the position and relation among different parts. It helps you understand how to connect parts correctly.

Below is a list of components indicated with numbers on the wiring diagram.

- ① Control box with attached copper wires
- ② Kill switch with a push button
- ③ Signal wire for brake light feature
- ④ 1-2 way splitters x 3
- ⑤ 1-3 way splitters x 4
- ⑥ LED strips x 12, 3 sizes
- ⑦ Battery for power supply

You don't have to install LED strips exactly the same as this layout.

Adjust the positions/connection of LED strips to fit your bike, if you have a different installation concept. You can add additional items to this system too.

- ✓ It'd be good to map your layout and check wires' length before installation.
- ✓ Make sure you have all the necessary items in your hand.



- ① Brightness up
- ② Brightness down
- ③ Music mode
- ④ On / Off
- ⑤ Solid colors
- ⑥ Lighting effects

A useful tip for increasing batteries' service hours:

- ✓ Press remotes' buttons quickly for adjustment
- ✓ Do NOT press and hold any button
- ✓ Short presses use battery dramatically less than long presses



If you need a replacement remote, please scan this QR code. You can pair it to your old control box. Don't need to replace other things.



A: Solid colors

- a). Short press:
 - 1st to 18th for a solid color
 - 19th to 20th for colors to beat & fade
- b). Long press:
 - Change brightness

B: Lighting effects

- 1st press for flashing light
 - 2nd press for fading light
- p.s. When colors beat & fade, press B to change speeds

C: Music Mode

D: ON / OFF

- Press it to turn LED strips on/off
- p.s. The control box will keep working

Key A:

- ✓ This keychain fob has 18 solid colors, which are available by the 1st – 18th presses on key A:
 - Red, Dark Blue, Purple, Green, Yellow, Ice Blue, Orange, Purple, Light Green, White, Cyan, Light Purple, Blue, Ice White, Warm White, White, Ice Green and Yellow Green
- ✓ You can put the lights into flashing and fading modes by pressing key A for the 19th and 20th time.

Key B:

- ✓ The key B is mostly for changing lighting effects.
- ✓ It means after you select a color by key A, then you can use key B to make the light flash or fade.

Procedures to resync the 24-key remote:

- a. Switch on / give electricity to the LED light strips (use the kill switch, not either remote)
 - b. You will notice, the LED strips flash, and then they goes off automatically
 - c. Next, they come on again by themselves, and this this is the time for synchronizing
 - d. First, press button Brightness Up, and then button Brightness Down one by one within 3 seconds
 - e. Notice that LED strips flash for 2 times if correctly resynced
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- ✓ Take the same procedures to resync the 4-key remote
 - ✓ Just replace the 2 brightness keys by the A & B keys
 - If you miss the 3 seconds for resyncing, don't press the buttons repeatedly, but power the system off and try again from the beginning

- ✓ If you have an old RF remote from another brand, you may not be able to sync it to our control box
- ✓ It's the same logic for ours, and very likely don't work with a control box from another brand
- ✓ To make RF remotes work, you will need the right programs and circuits inside control boxes. Otherwise, they won't sync to each other.

FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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