

RGB Led set – User Manual

DRAGILLA
ELECTRONICS FOR SPORTS

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1. History of changes in the document

The table below presents a list of changes done to this document.

Version no	Date	Change
1.0	28.10.2023	First version in English is released

2. Short description of the product

RGB Led set is a 5-meter led strip, bundled with a power supply and a Bluetooth driver, that can be remotely controlled by HRM Fan or HRM Led. Additional five meters of leds can be purchased separately in our online shop (<https://dragilla.com/shop>).

In the box there is also a remote control paired with the led driver that can be used to control the leds using Infrared (IR) when they are not in use by HRM Fan or HRM Led.

Information about wirelessly connecting the led driver to HRM Fan or HRM Led can be found in the user manuals dedicated to each of those devices, which can be downloaded at: <https://dragilla.com/support> .

The product box looks as presented in the photo below.



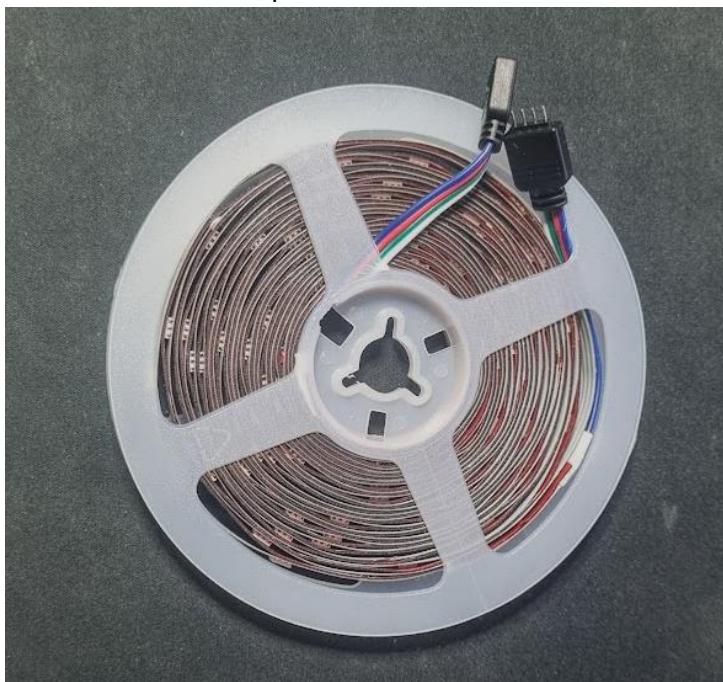
3. Contents of the box

The box includes the following elements:

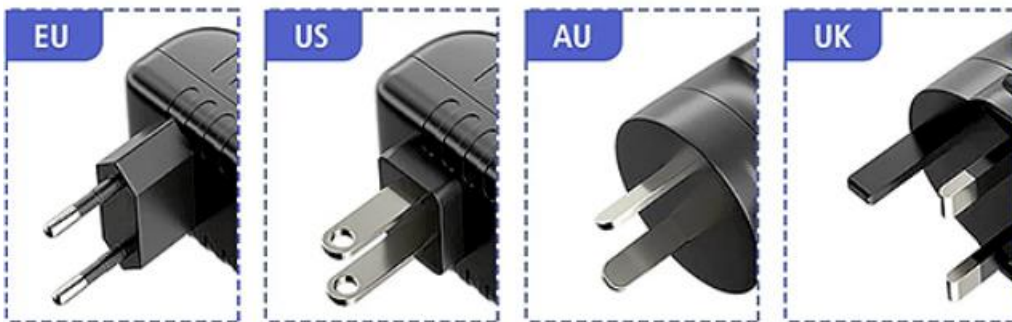
1. Bluetooth Led Driver



2. 5-meter RGB led Strip



3. Power supply. Power supply is available in four variants presented below.



4. Remote control



5. Additional adhesive strip holders and splitter. This small plastic bag contains adapters that allow to elongate the LED strip or bend it 90 degrees. It also contains adhesive holders.

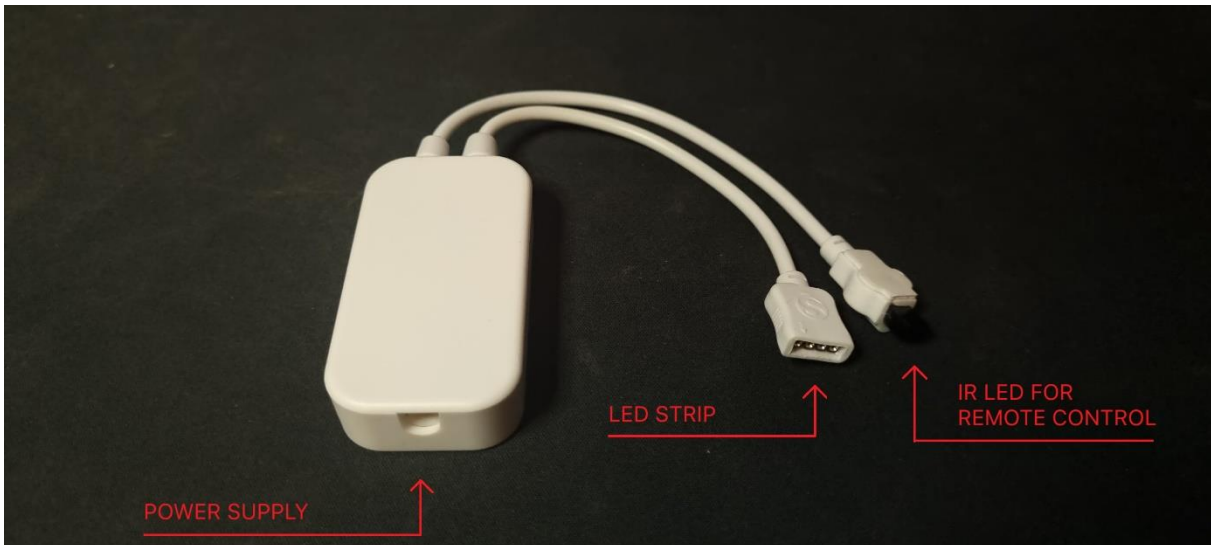
NOTE: All elements of this bad are optional, as the strip is adhesive itself and if don't need to cut the led strip you don't need the contents of this bag.



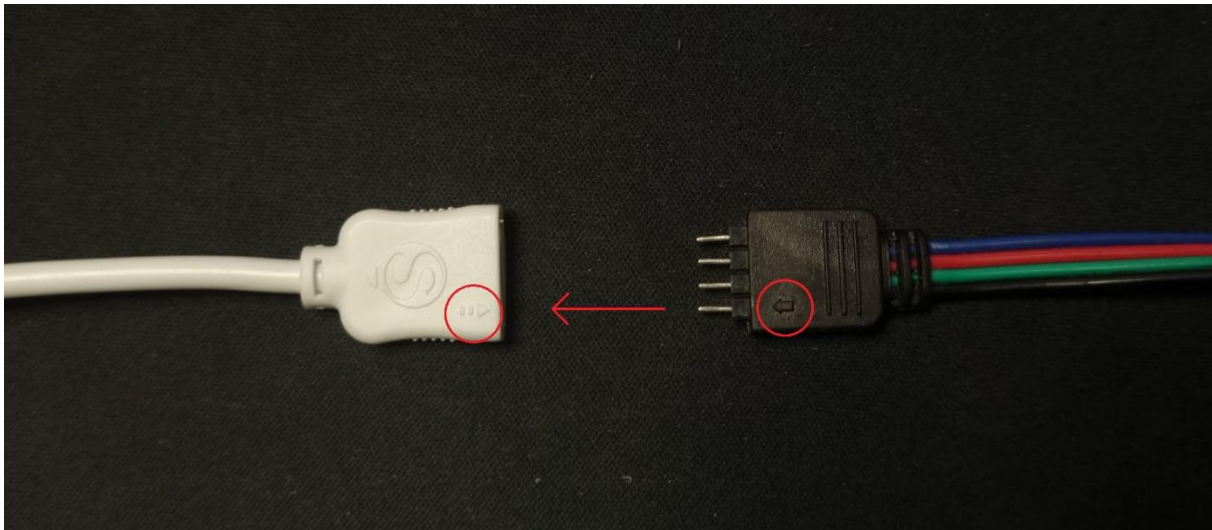
4. Installing / connecting elements

Elements of the RGB Led set should be connected as follows:

1. The RGB Led strip should be connected to the controller - pay attention to the correct orientation of the plug and socket (see photo below),
2. The led driver should be connected to the power supply,
3. Connect the power adapter to the mains (**NOT to the HRM Fan**).



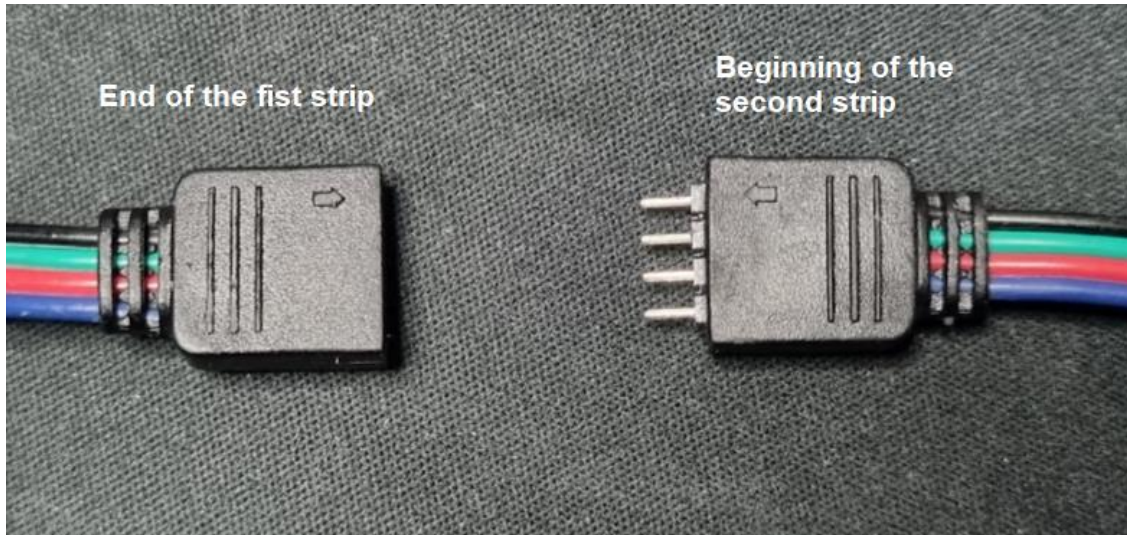
The photo above shows the led driver



The above photo shows how to connect the RGB led strip with the controller.

If you want to connect additional 5m of led strip, the second led strip should be connected in series: the end of the first strip should connect to the beginning of the second strip.

NOTE: Connecting the leds in the opposite direction will most likely cause damage to the led strip and would void the Warranty.



The photo above shows how to connect two RGB led strips together.

NOTE: The components of the RGB led kit do not require physical connection with the HRM Fan or HRM Led device. HRM Fan / HRM Led connects to the RGB led driver wirelessly.

5. Using the RGB Led set

After connecting all the elements, as described in Part 4 of this manual, the set is ready to use. There are three ways in which the color of the leds can be changed. Each way has been described in a dedicated chapter below.

5.1. Automatic control by HRM Fan / HRM Led

The default way in which the leds can be controlled is by the HRM Fan or HRM Led device. HRM Fan / HRM Led can be configured to search for a compatible led driver and to connect to it. In the mobile application designated for HRM Fan / HRM Led configuration (called HRM Fan&Led) the user can set different colors for different parameters (for example heart rate ranges, bicycle power zones, speed ranges). Using this configuration, the HRM Fan / HRM Led device can then automatically control leds, changing their colors based on the input from sensors. The process of configuring all the parameters and sensors is described in the manual for the selected product (HRM Fan / HRM Led). The manual can be found on the manufacturer's support page: <https://dragilla.com/support>.

5.2. Control by supplied remote control

The other method of controlling the leds is by the supplied remote control. Make sure to remove the plastic strip separating the battery from the remote before first use. The remote operates in Infra-red (IR) and to guarantee proper functioning, the the IR receiver diode on the led driver and the IR transmitter diode in the remote must be in line of sight.

The functions on the remote are quite straightforward and are not described in this manual.

5.3. Control by “duoCo Strip” mobile app

Lastly, it is possible to control the leds using a mobile app called “duoCo Strip” available for both Android and iOS.

NOTE: Dragilla (the producer of HRM Fan and HRM Led) is not responsible for the operation of the “duoCo Strip” mobile app. This app is developed by a third party, which is not connected to Dragilla in any way.

NOTE: Please make sure you have disconnected this app from the led driver prior to using the leds with HRM Fan or HRM Led. Due to the technology used in the led driver (Bluetooth) it is possible for the driver only to be connected to one device or application at a time.

6. Safety Notes

Do not add or exchange elements of this set with other, incompatible / unsupported parts (that are not sold in our shop) - this can damage the led driver or other components of the set. If in doubt – ask us – we will gladly help.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

7. Trouble shooting

The table below lists known problems and suggests solutions. If you have any other problem with our device or the suggested solution does not solve your problem, please contact us for support. We are happy to help.

Problem	Solution
The RGB led operation is interrupted during training. The leds stop changing colors and restart after a few seconds even though my heart rate / speed / power was within the configured range.	This is usually due to one of two things: <ol style="list-style-type: none">1. Low battery in your sensor, or2. Obstacles between sensor and HRM Led. Make sure the sensor and HRM Led remain within range (maximum 3 meters) throughout training and that there are no physical obstructions that could block the transmission. Otherwise, replace the battery in your sensor.
After the heart rate monitor connects to HRM Led, I can no longer see my heart rate on my watch / cycle computer / in Zwift.	When using a Bluetooth LE heart rate sensor, remember that due to the technology used, such a sensor can only connect to one data recipient. We recommend using ANT+ technology to connect the heart rate sensor to HRM Led. More info can be found in the "Supported devices" chapter and in chapter about the mobile application.
The RGB leds won't connect to my device even though they are powered on and in range of my HRM Led device.	Please make sure that the led driver is not connected to another device / application. If you have controlled the leds for example using the duoCo Strip mobile app, please make sure you have disconnected this app prior to using the leds with HRM Led. Due to the technology used in the led driver (Bluetooth) it is possible for the driver only to connect to one device or application at a time.

8. Contact information

The seller of the device is:

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05-120 Legionowo

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Email: hrmfan@dragilla.com

Website: <https://hrmfan.dragilla.com>