

# RGB+W WIFI sequencer

Ref: 41.084

**Features:**

- Timing.
- Group / Scene
- It can be controlled via the smartphone App.
- With advanced Bluetooth mesh technology, the controllers can work in sync with a robust connection.
- Protection function: incorrect wiring / overload / short circuit / overheating.



**Technical characteristics**

Datos técnicos

Technical data	84W (6V) / 168W (12V) / 386W (24V)
Voltage	6V / 12V / 24V
Degree of protection	IP68
Rated output current	3x3+5A
Function	4-in-1 CV regulator
Wireless connection	Umi protocol based on SIG BLE Mesh
Control method	Smartphone App
Wireless transmission power	<7dBm
PWM output rating	4000 levels
PWM frequency	498Hz-15.7KHz optional, 1KHz default
Control	Wifi

Temperatures and operating conditions

Working temperature	-20°C / 55°C
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Services

Colour regulation	Yes
Feed type	Via jack
Apt for	Indoor / Outdoor
Signal detection distance	>20 meters at open area

Power and led connector

Power supply connector	Cable 16AWG
Conector led	Cable 20AWG

Functions

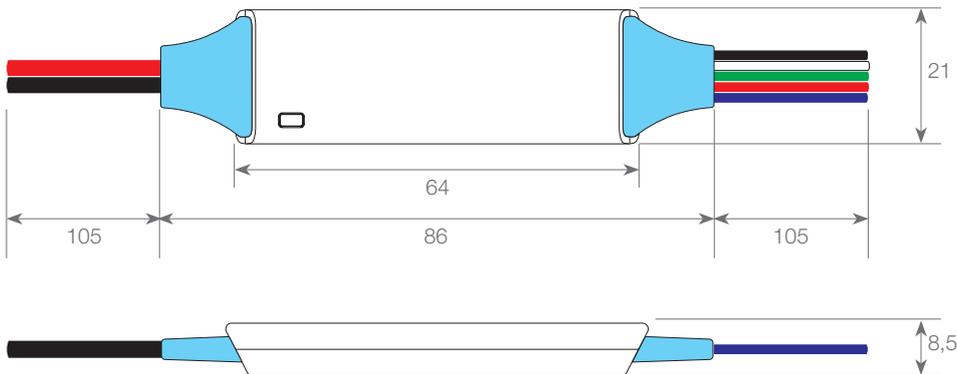
Dynamic mode	Yes
Function group / scene	Yes
Synchronisation between controllers	Yes
Power-on status	Adjustable from the application, last state or presetting
Gradient velocity	Adjustable from the App, 6 levels



**Product characteristics**



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## Dimensions and weight

Length	86mm	Height	8,5mm
Width	21mm	Weight	26g

## QR code



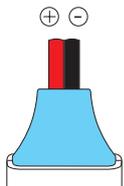
1. Scan the QR code.
2. You will get a link, copy the text.
3. Go to your Smartphone browser and paste the copied text.
4. Select the application you need to install on your Smartphone.
5. Install the application.

## Power supply input

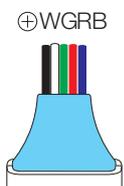
The red power cable should be connected to the positive and the black one to the negative. The output voltage of the led is at the same level as the supply voltage, please make sure that the supply voltage is correct and the power rating is capable for the load.

## Led output

- Connect constant voltage led loads to these cables.
- Please make sure the led rated voltage is the same as the power supply and each channel's maximum load current is in range of the controller rated current.
- Please refer to following output wiring diagram for different models:
  - Single colour: red cable to led (+) and black to (-).



- RGB and RGBW: black cable to led, R, G, B and W cable to the relevant colour.



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The 1-4 channel function is mapped in the following table:

Application	CH1 (white cable)	CH2 (green cable)	CH3 (red cable)	CH4 (blue cable)
RGBW	white	green	red	blue

## Work status indicator

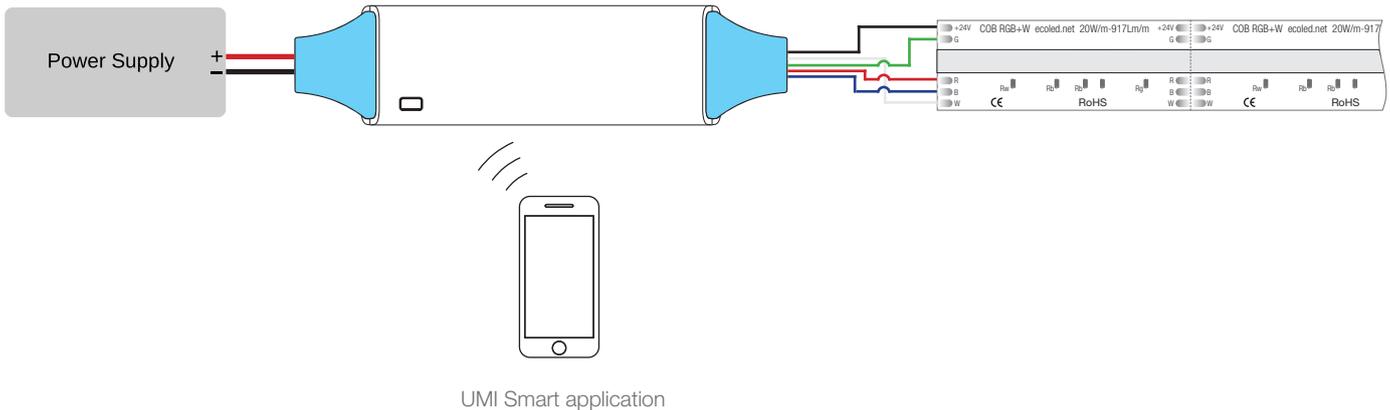
This indicator shows all working status of the controller.

It displays different events as following:

- Steady blue: normal working.
- Short white blink: command received.
- White blink for 3 times: identification or confirmation.
- Single yellow flash: edge of the content.
- Red flash: overload protection.
- Yellow flash: overheat protection.
- Green blink: timing play activated.

## Wiring

Please connect the controller output to led loads and power supply to the controller power input. The power supply voltage must be same as the led load's rated voltage. Check all cables to be well connected and insulated before power on.



## Control by smartphone

The user can operate the sequencer remotely with the Umi Smart App. The status and group/scene functions will be synchronised with the app. Search and download the "Umi Smart" app from Apple App Store or Google Play Market to set it up. There will also be a QR code on the controller for the app download link.

## Advanced features

To change the model function, please use the Umi Smart app and detect factory default devices in 'Discover nearby' function and then tap the item icon and select 'change function' menu to proceed.

## Waterproof

IP68 waterproof function with glue injection finish. For overall waterproof performance, cables must be waterproofed separately.

- Wireless signal degrades: the wireless communication ability could degrade when using at wet environment, please be aware that the wireless control distance will be shortened in such case.

## Force turning on

The controller will restore to the last on/off status on each power on. To force turn on the controller at OFF status, user need to connect and disconnect the power of the controller for 3 times in a short time. After this operation, the controller will be rest to ON status.

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## Change PWM frequency to avoid noise and flicker

In some led application, noise or flicker issue may occur at the default or low PWM frequency. The controller's PWM frequency can be changed via the Umi Smart app. The frequency must be tuned with led type and installation. To maintain more stable working and less power loss, please do not set to high frequency if no noise or flicker issues occurred.

To change the PWM frequency, please use the Umi Smart app and detect factory default devices in 'Discover nearby' function and then tap the item icon and select 'change setting' menu to proceed.

CAUTION: the controller's efficiency will drop versus increased frequency and the output current

## Protection function

- The controller has full protection function against wrong wiring, load short circuit, overload and overheat.
- The controller will stop working and the indicator will flash with red / yellow color to indicate the malfunction.
- The controller will try to recover from protection status in a short time when the working condition is good.
- For protection issues, please check the situation with different indicator information:
  - Red flash: check the output cables and load, make sure no short circuit and the load current is in rated range. Also the load must be constant voltage type.
  - Yellow flash: check the installation environment, make sure that it is in a rated temperature range and with good ventilation or heat dissipation condition.