

CONTROLLER AND DMX DECODER



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WP-4RGBWN and DIM-DMX1CH(N) 4 zones RF controller with DMX decoder for RGB/W LED strip

Product Description

The WP-4RGBWN wall panel enables control of 1 to 4 zones of RGB/W LED strip. Featuring a simple to use back lit touch control slider for easy colour adjustment .

Features

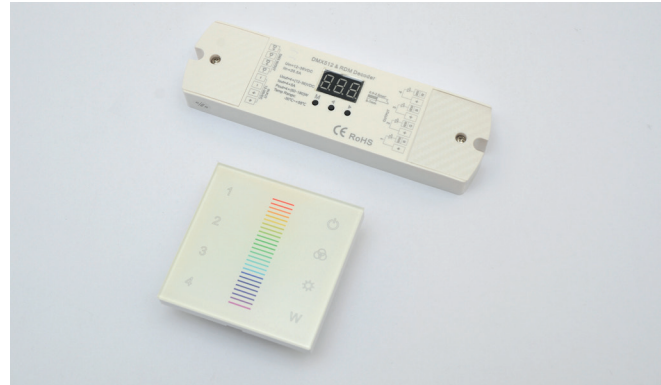
- Enables control via DMX (when used with DIM-DMX-1CH(N)) or wirelessly via RF with a Teucer RF receiver.
- Supports single zone independent control or multiple zone synchronous control.
- Ultra-sensitive backlit high strength glass touch panel.
- Smooth and accurate colour adjustment via a touch colour slider.
- Independent brightness adjustment of each RGB channel to achieve vast pallet of colours.
- Built in 30 optional change modes with adjustable speed and brightness.

Technical Specification

Controller	
Order Code	WP-4RGBWN
Type	RF and DMX wall panel
Input Voltage	AC85-265V
Operation Frequency	2.4GHz
Dimension	86x86x36.5mm (WxLxH)

Receiver	
Order Code	DIM-DMX1CH(N)
Type	DMX decoder
Input Voltage	12-24VDC
Current	4x5A
Output	4x(60-120)W
Note	Constant voltage
Dimension	50x170x23mm (WxLxH)

Product Image



Recommendation

DMX is a standard protocol for digital communication which allows control of DMX devices / lighting from a compatible DMX controller.

We recommend using the WP-4RGBWN controller when controlling all lighting as a single zone.

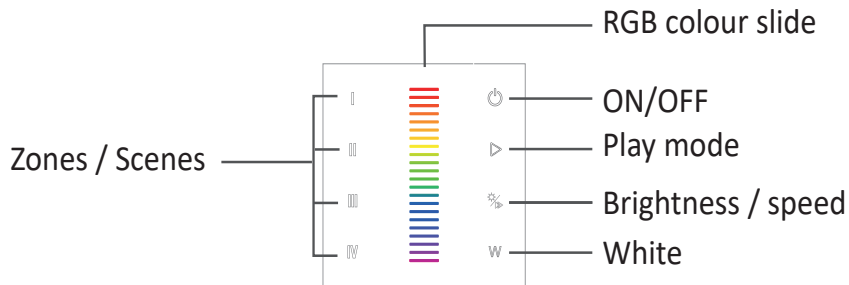
Please note that with the DIMDMX1CH(N) one can use the manual button to switch ON the connected LED strips and check the operation by cycling through the various modes.

- When expanding your lighting always try and use a signal repeater (PR-RGB) where possible.
- If using DMX over 55mtrs it is recommended to use a DIM-DMXAMP (amplifier) for longer distances.
- Can be used with DMX control systems

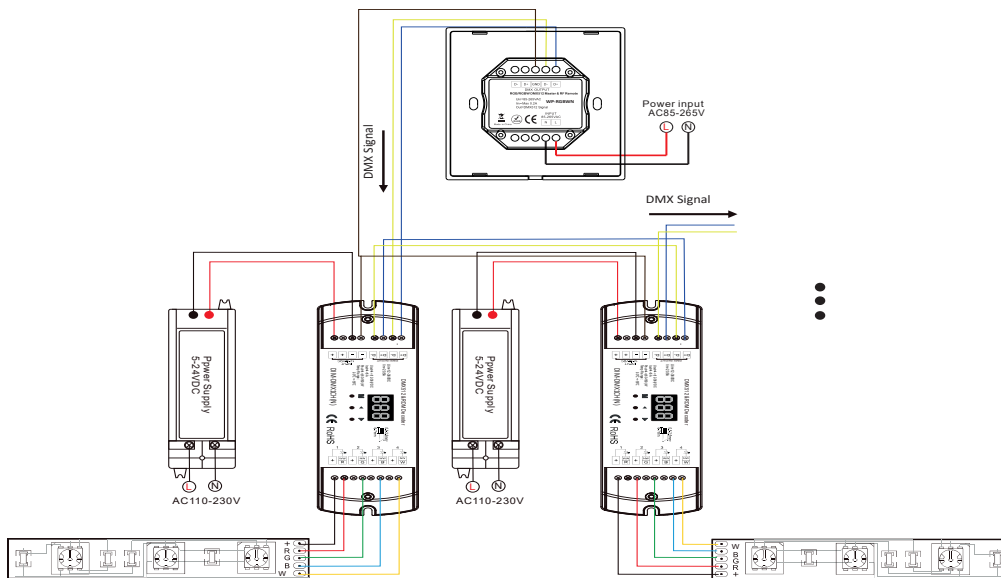
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Controller layout



Decoder wiring diagram



When wiring the decoders, it is important to make sure the total wattage of the LED strips does not exceed the maximum rated wattage per channel of the decoder. Each channel is rated at 5A, so the maximum wattage per channel is $24 \times 5A = 120W$. The power supply has to match the rated voltage and be superior to the total LED strip wattage by a recommended 10%.

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Example Address Setting

Addresses for the RGB / RGBW mode when using a single decoder:

MODE	Starting Address/ 1st Channel	2nd Channel	3rd Channel	4th Channel
RGB/RGBW Zone 1	001	002	003	004
RGB/RGBW Zone 2	005	006	007	008
RGB/RGBW Zone 3	009	010	011	012
RGB/RGBW Zone 4	013	014	015	016

Each RGB/RGBW Zone will use 4 channels.

Addresses for the RGB / RGBW mode when using multiple decoders

R	G	B	W	DECODER NUMBER
001	002	003	004	DECODER 1
005	006	007	008	DECODER 2
009	010	011	012	DECODER 3
013	014	015	016	DECODER 4

Troubleshoot

Problem	Cause	Corrective
No light	<ul style="list-style-type: none">No power.Wrong connection or unsecure connection.	<ul style="list-style-type: none">Check the power.Check the connection.
Wrong Colour	<ul style="list-style-type: none">Wrong connection of RGB/W wires.	<ul style="list-style-type: none">Retrace and reconnect RG-B/W wires.
Uneven intensity between front and rear of the strip, with voltage drop	<ul style="list-style-type: none">Output cable is too long.Cable diameter is too small.Overload beyond driver capability.Overload beyond receiver capability.	<ul style="list-style-type: none">Reduce cable or loop supply.Change to a thicker cable.Replace with a suitable higher power driver.Add a power repeater.

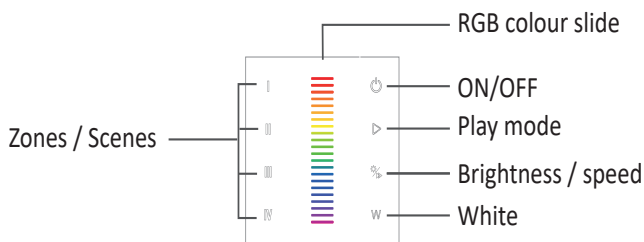
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Controlling your LED strip



- To adjust the colour, touch the RGB colour slider.
- To change the brightness, press the brightness button.
- On/Off: For single zone: Turn ON/OFF strips.
- For 4 Zone: Short press turn ON/OFF current zone light, long press 2s turn OFF all zones strips.
- Mode: Short press to run next mode, long press 2s runs mode-cycle.
- W: Short press to turn ON/OFF W channel,
- Long press 1-5s for continuous 256 levels adjustment of the white channel brightness.
- Zone: Choose the zone you wish to control.
- Zone / Scene: When used as 4 scene: Short press-to run the scene, long press 2s to save.

- There are 30 dynamic modes, press the play mode button to browse through modes. To choose the mode, press and hold play mode for 2 seconds.
- There are 10 speeds for the play modes. Press the speed button to browse through the speed levels.
- Press and hold the speed button to go to the highest speed level.
- To save your favourite setup, press and hold scene buttons.
- To recall saved setup, press scene button.
- You can save up to 4 scenes.

Safety

- Products must be installed and serviced by qualified electrician.
- Please ensure the receiver is mounted in a water proof enclosure if installed in an outdoor environment, avoiding metallic enclosures.
- Always ensure products are mounted in areas with adequate ventilation to avoid overheating.
- Please ensure outputs of any power suppliers used in conjunction with this product comply with its working voltage.
- Never install product whilst connected to power and double check connections before switching on to avoid short circuits.

Warranty

Should this product fail during the 3 year warranty period it will be replaced free of charge, subject to the correct installation of the original product in accordance with applicable and appropriate electrical codes and instructions provided by Teucer, as well as subsequent return of the faulty unit. Teucer does not accept responsibility for any installation costs associated with the replacement of this product and Teucer reserves the right to alter specifications without prior notice. Teucer can offer 5 year warranty upon request. For further information, please see our Terms and Conditions. www.teucerled.co.uk/terms-and-conditions/

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