

# 4 Channel Controller RGBW, RGB, Tuneable White, Dimmer

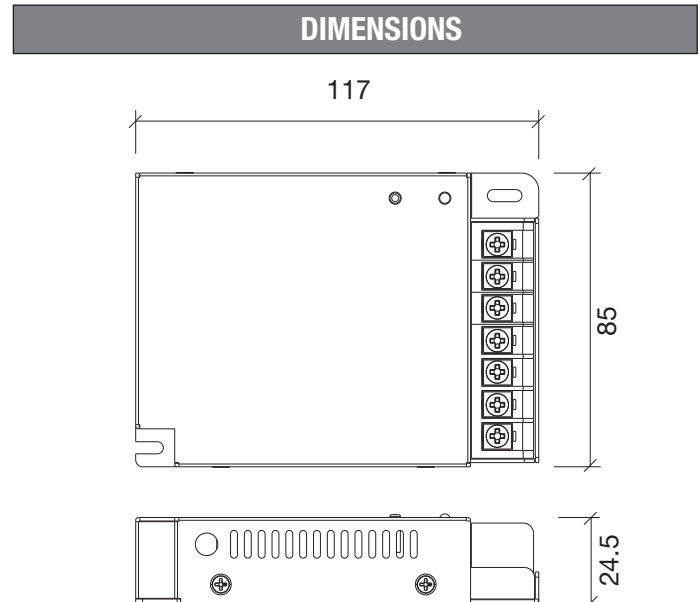
**Controller**  
**LCRWBWS-V4-S**

Works with a wide range  
of RF remotes



RGBW	960W
RGB	12-48V
CCT	IP20
DIM	4 CHANNEL

SPECIFICATION	
CODE	LCRWBWS-V4X
INPUT VOLTAGE	12-48VDC
OUTPUT MODE	12-48VDC (PWM)
OUTPUT CURRENT	4 x 8A @ 12 & 24VDC, 4 x 5A @ 36 & 48VDC
MODES	10 (RGB & RGBW modes only)
FREQUENCY	2.4Ghz
WORKING TEMP	-30 to 55degC
IP RATING	IP20
CONNECTIONS	Screw Connector (common return +ve)
EMC	EMC compliant
RF RANGE	15m if unobstructed

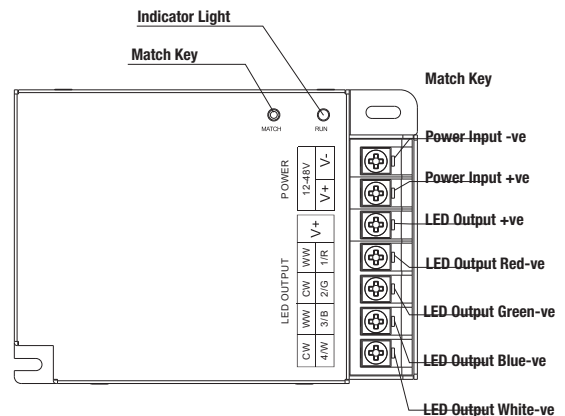


**FEATURES:**

- # Controller can wirelessly relay commands allowing for unlimited colour syncing from one remote.
- # PWM (pulse width modulation) output (default 500Hz).
- # 5 Year warranty.

**APPLICATIONS:**

- # Controlling RGBW, RGB, Dual white & dimming single colour strips.
- # Lounges, kitchens, bedroom, bathrooms, bars, restaurants etc

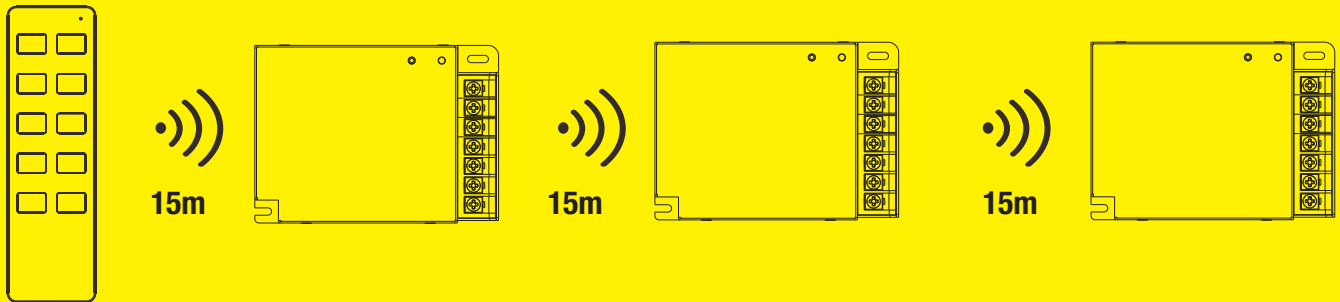


**NOTE:**

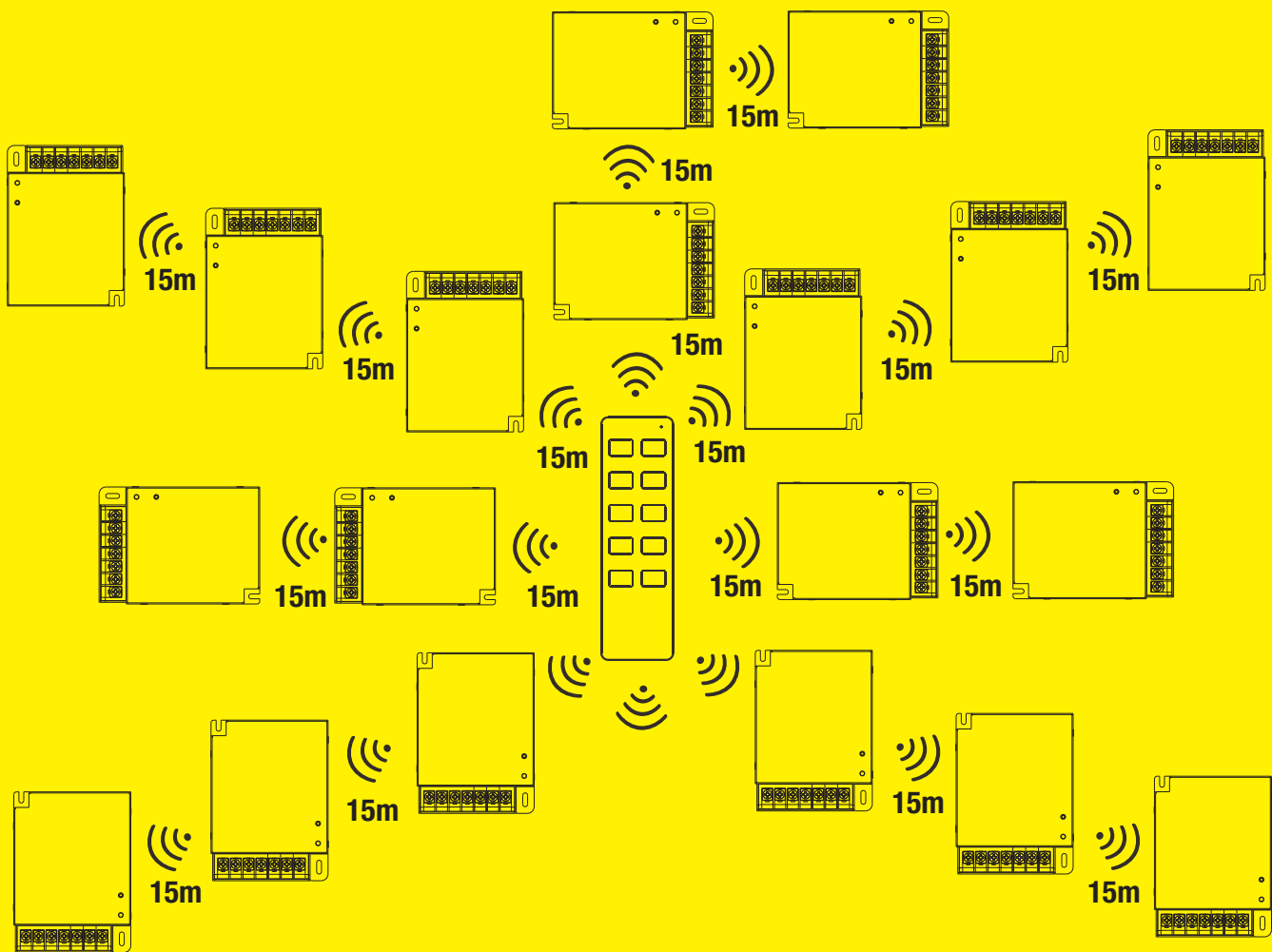
- # See website for range of remote options.
- # Remote batteries (not supplied).
- # Remotes need to be synced to the controller.
- # Controllers and remotes sold separately.

While every effort has been made to ensure the accuracy of all information provided Task Lighting can not be held responsible for any errors. Task Lighting also reserves the right to modify/delete product details without notice.

## Wireless Relaying - Single Zone



## Wireless Relaying - Multiple Zones



### NOTE:

# The 15m max wireless transmission distance is with unobstructed line of sight.

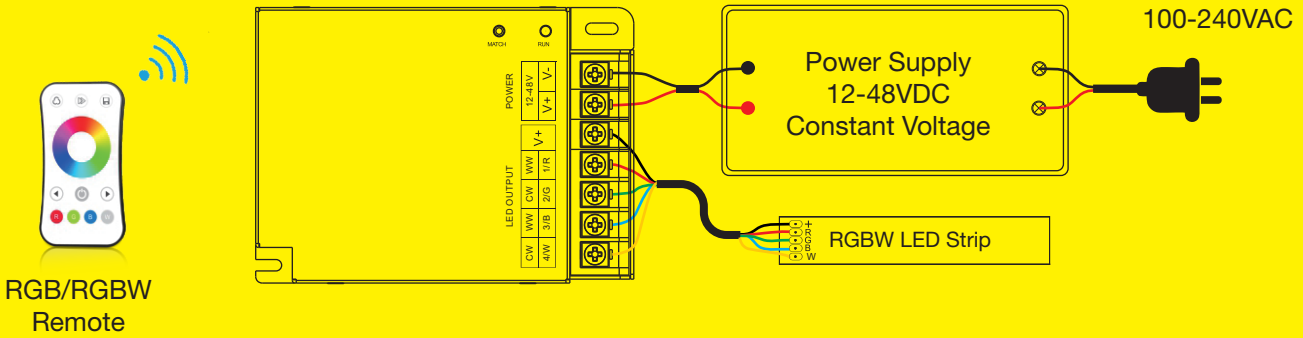
Transmission distances may be significantly less with walls, metal, concrete etc in the way.

Other transmission sources such as WiFi & microwaves etc may also reduce the transmission range.

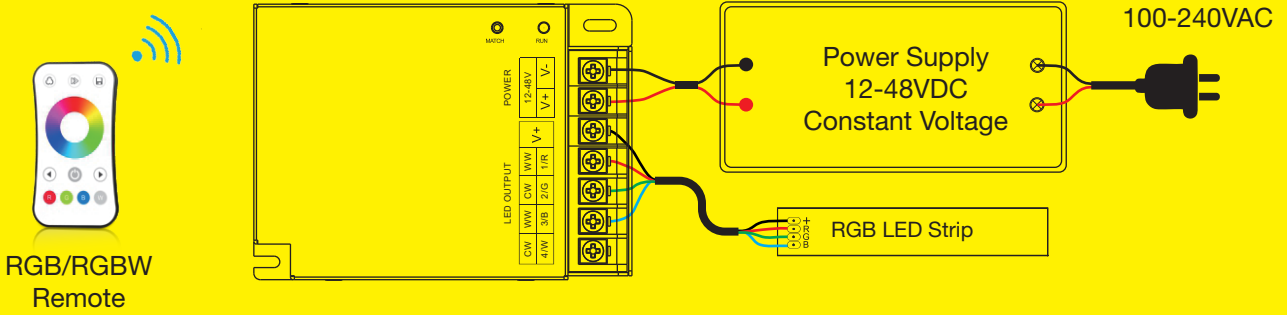
Where obstructions and interference sources exist it is recommended that testing the transmission range before finalising the project and module placement may need to be altered to achieve the desired result.

Intermedately placed modules with now load can be used as a relay where transmission distances are shortened.

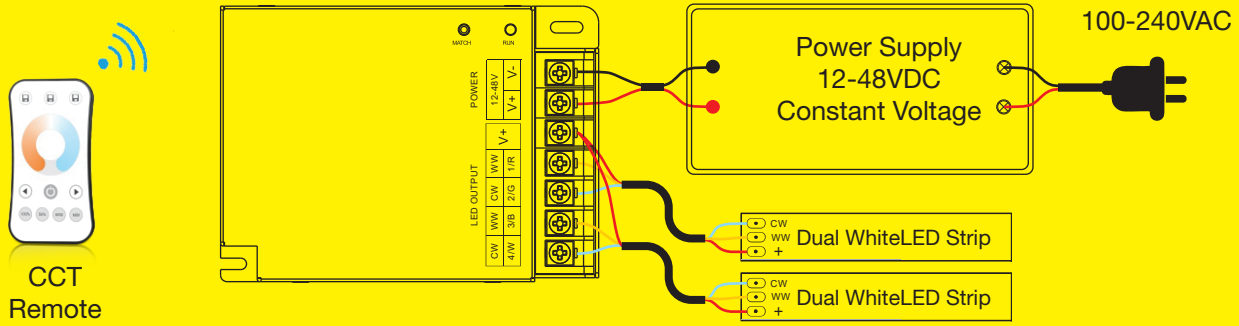
## RGBW Wiring Example



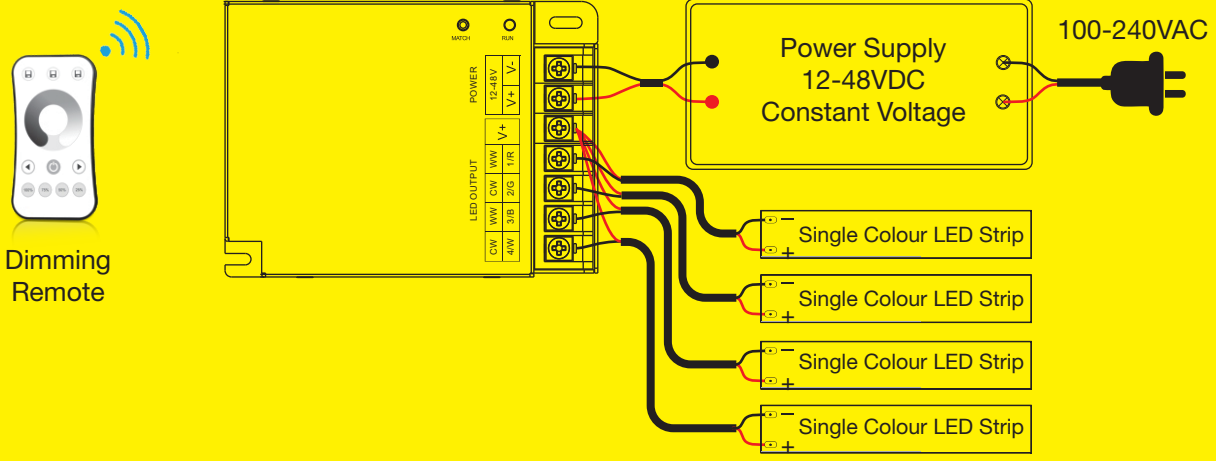
## RGB Wiring Example



## CCT Wiring Example



## Dim Single Colour Wiring Example



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## RGBW & RGB Dynamic Modes

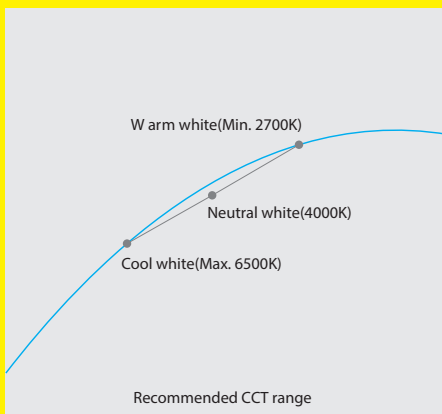
No.	Mode Description	No.	Mode Description
1	RGB Jump	6	RGB fade in/out
2	RGB smooth rotation	7	Red fade in/out
3	6 Clour jump	8	Green fade in/out
4	6 Colour smooth rotation	9	Blue fade in/out
5	Yellow, cyan, purple smooth rotation	10	White fade in/out

## Tuneable White Control

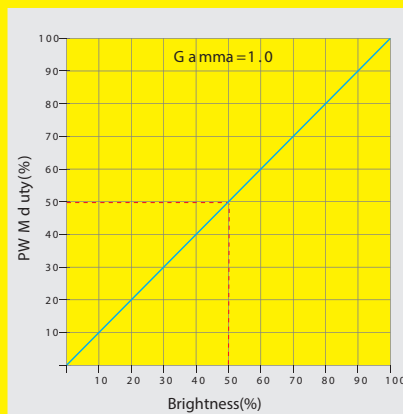
	Cool white	Neutral white	Warm white
Power distribution	CH1=0W, CH2=192W CH3=0W, CH4=192W	CH1=96W, CH2=96W CH3=96W, CH4=96W	CH1=192W, CH2=0W CH3=192W, CH4=0W

## Dual White Mode Dim Curves

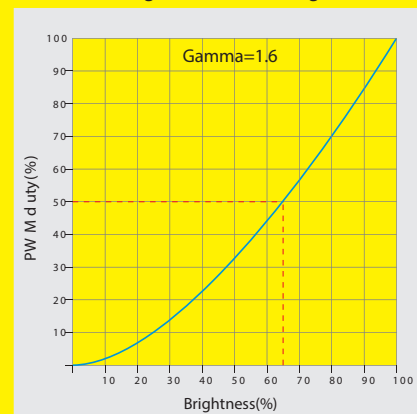
Linear dual white tuning



Dimming curve for CCT



Dimming curve for RGB, RGBW, single colour dimming



## Trouble Shooting Faults

Fault	Possible Cause	Possible Solution
No light	<ol style="list-style-type: none"> <li>No power</li> <li>Wrong polarity or poor connections</li> </ol>	<ol style="list-style-type: none"> <li>Check power</li> <li>Check connections &amp; polarity</li> </ol>
Wrong colour	<ol style="list-style-type: none"> <li>Wrong connection of RGB or RGBW wires</li> </ol>	<ol style="list-style-type: none"> <li>Re connect of RGB or RGBW wires</li> </ol>
Uneven intensity between start & end with voltage drop	<ol style="list-style-type: none"> <li>Reduce length or feed both ends</li> <li>Increase supply cable dia</li> </ol>	<ol style="list-style-type: none"> <li>Reduce length or feed both ends</li> <li>Increase supply cable dia</li> </ol>
No response from the remote	<ol style="list-style-type: none"> <li>Battery is old</li> <li>Beyond max control range</li> <li>Controller did not match with remote</li> </ol>	<ol style="list-style-type: none"> <li>Replace battery</li> <li>Reduce remote distance</li> <li>Rematch remote to controller</li> </ol>

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## Synchronising Remotes & RGBW Modules

### Auto Transmition & Auto Synchronisation

As shown in the diagrams on page 2, one receiving controller can auto transmit commands from the remote to many other down stream controllers.

This provides the ability for one remote to control almost limitless distances all in sync.

For auto transmission & syncing to work each receiving controller needs to be successfully matched to the remote (1 zone remote) and to each zone key (multi zone remotes).

## Matching Remotes To Controllers

### Using The Match Key

#### **Match:**

Short press on the match key  
Immediately press on/off key  
(single zone remote) or  
press zone key (multi zone remote)

#### **Delete Match:**

Press and the match key for 5 seconds  
to delete all match

The LED indicator light blibks 5 times  
to show deletion is complete

### Using Power Restart

#### **Match:**

Switch power off then switch power on again  
Immediately short press on/off key 3 times  
(single zone remote) or  
press zone key (multi zone remote) 3 times  
The LED indicator light blinks 3 times to show  
match is complete

#### **Delete Match:**

Switch power off then switch power on again  
Immediately short press on/off key 5 times  
(single zone remote) or  
press zone key (multi zone remote) 5 times  
The LED indicator light blinks 5 times to show  
deletion is complete

### **NOTE:**

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in the way.

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