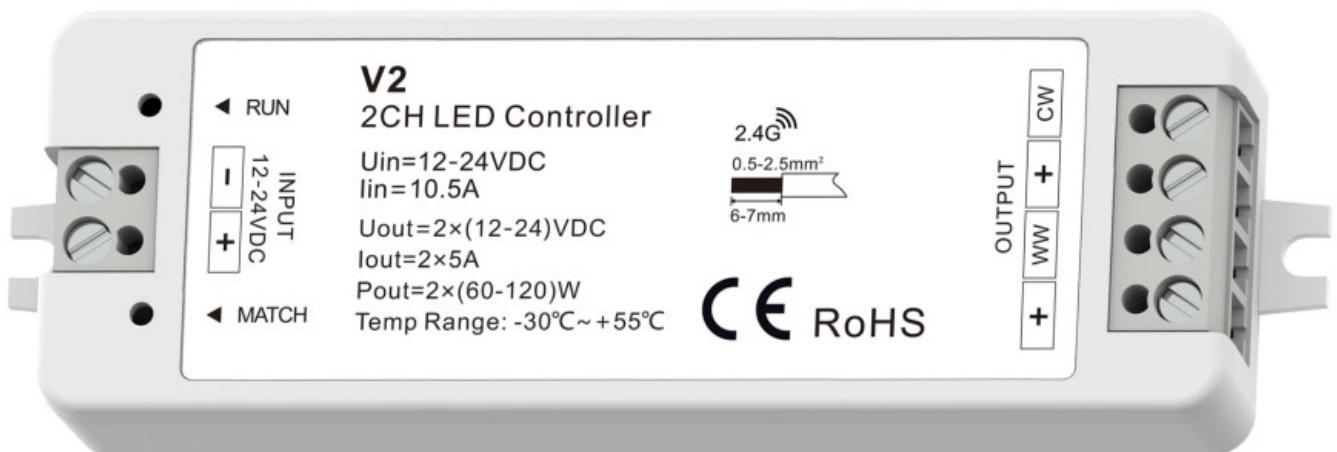


LEDLyskilder V2 Dual Color LED Controller User Manual

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V2 Dual Color LED Controller User Manual



 **CE RoHS**  **LVD RED**

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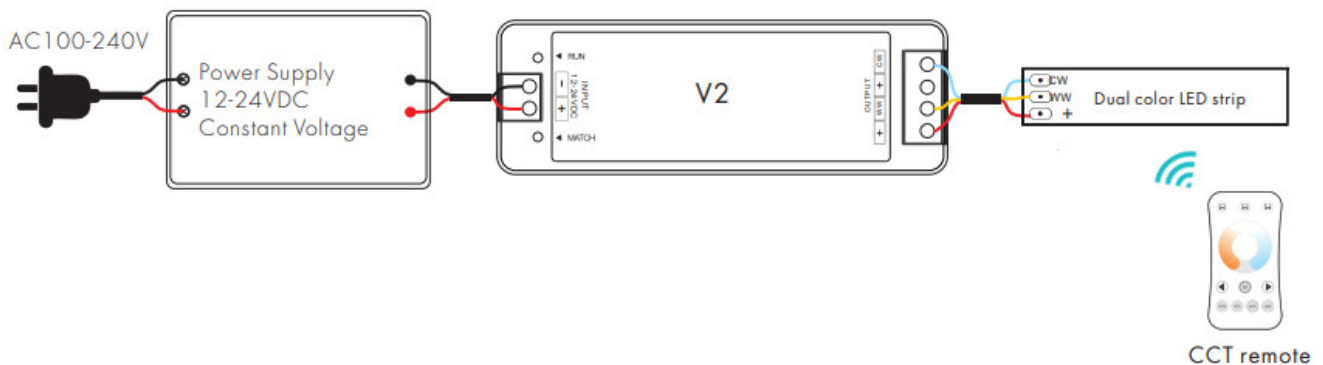
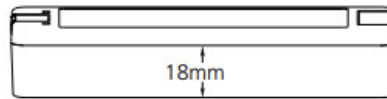
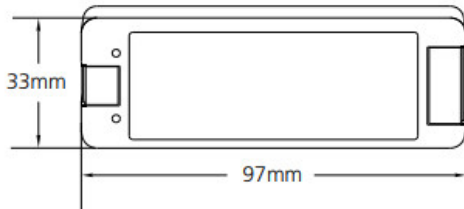
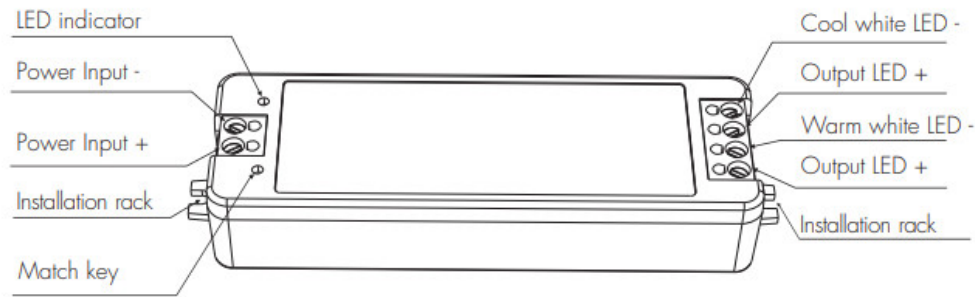
Feature

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with RF 2.4G single zone or multiple zone dual color or single color remote control.
- One RF controller accepts up to 10 remote control.
- Auto-transmitting function: Controller automatically transmits a signal to another controller with a 30m control distance.
- Synchronize on multiple controllers.
- Fade in and out effect selectable.
- 3 levels of color temperature (WW, NW, and CW) are selectable by continuous power off and on the operation.

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Input current	10.5A
Output voltage	2x(12-24)VDC
Output current	2CH,5A/CH
Output power	2x(60-120)W
Output type	Constant voltage
Environment	
Operation temperature	Ta: -30 °C ~ +55 °C
Case temperature (Max.)	T c: +85 °C
IP rating	IP20
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Short circuit
Dimming data	
Input signal	RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming grayscale	4096 (2 ¹²) levels
Dimming range	0 -100%
Dimming curve	Linear
PWM Frequency	2KHz (default)
Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED
Weight	
Gross weight	0.038kg
Net weight	0.049kg

Mechanical Structures and Installations



Note: Continuously switch off and on the power supply two times rapidly, It will change 3 levels of color temperature (WW, NW, and CW) in sequence.

Match Remote Control (two match ways)

End users can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

Match:

Short press the match key, and immediately press the on/off key (single zone remote) or zone key (multiple zones remote) of the remote.

The LED indicator fast flash a few times means the match is successful.

Delete:

Press and hold the match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:

Switch off the power of the receiver, then switch on the power.

Repeat again.

An immediately short press on/off key (single zone remote)

or zone key (multiple zones remote) 3 times on the remote.

The light blinks 3 times means the match is successful.

Delete:

Switch off the power of the receiver, then switch on the power.

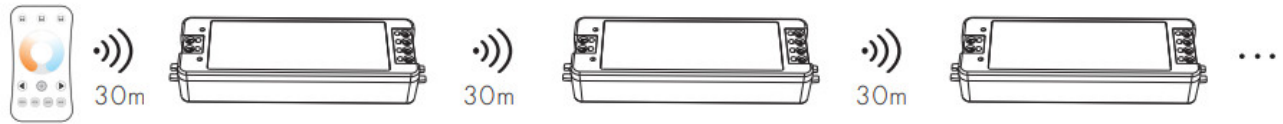
Repeat again.

An immediately short press on/off key (single zone remote) or zone key (multiple zones remote) 5 times on the remote.

The light blinks 5 times means all matched remotes were deleted.

Application notes

1. All the receivers in the same zone.



Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be extended.

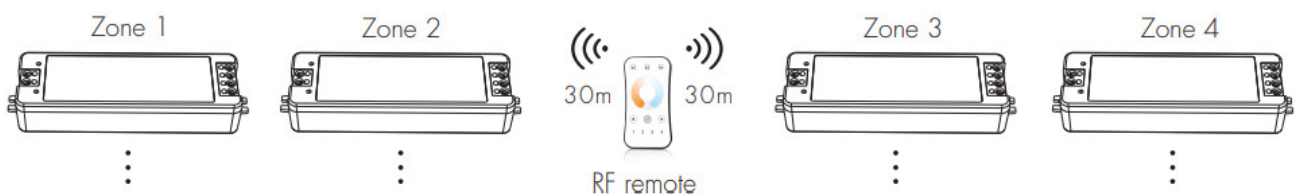
Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range.

Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

2. Each receiver(one or more) in a different zone, like zone 1, 2, 3 or 4.



Dual color control

WW=Warm white LED

CW=Cool white LED

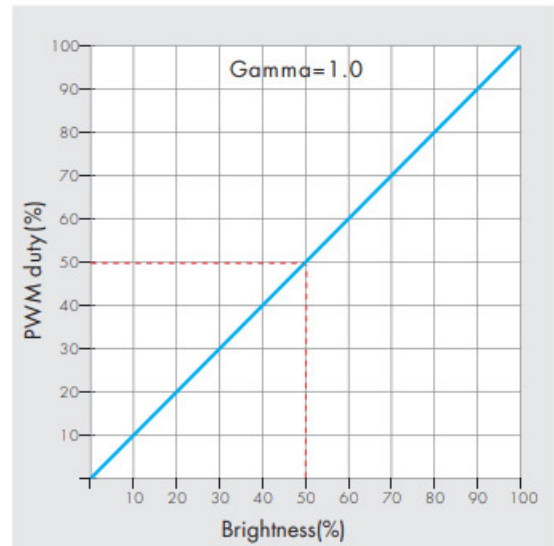
Each channel can supply up to 120W(@24V) and the white balance can be controlled as such:

Color temperature	Cool white	Neutral while	Worm white
Power distribution	VVVV=OW, CW=I 20W	VVVV=60W, CW=60W	WW=120W,CW=OW

Linear dual color tuning



Dimming curve



Fade in and Fade out Setting

Long press match key 5s, then short press match key 3 times,

The lighting effect will be set to fade in and fade out in 3s, and the indicator light of the LED controller blinks 3 times.

Long press match key 10s, restore factory default parameter, and the light on/off time restores to 0.5s.

Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> 1. No power. 2. Wrong connection or insecurity. 	<ol style="list-style-type: none"> 1. Check the power. 2. Check the connection.
The uneven intensity bet ween front and rear, with voltage drop	<ol style="list-style-type: none"> 1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability. 	<ol style="list-style-type: none"> 1. Reduce cable or loop supply. 2. Change the wider wire. 3. Replace the higher power supply. 4. Add power repeater.
No response from the re mote	<ol style="list-style-type: none"> 1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote. 	<ol style="list-style-type: none"> 1. Replace the battery. 2. Reduce remote distance. 3. Re-match the remote.

Documents / Resources

	LEDLyskilder V2 Dual Color LED Controller [pdf] User Manual V2 Dual Color LED Controller, V2, Dual Color LED Controller, LED Controller
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