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Manuals+

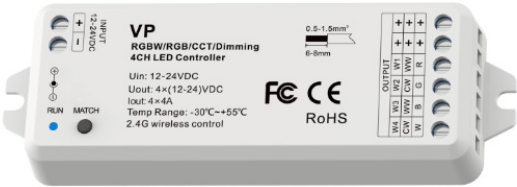
User Manuals Simplified.

LEDLyskilder VP LED RF Controller Instruction Manual

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VP RGBW/RGB/CCT/Dimming 4 Channel LED RF Controller
Instruction Manual



FC CE RoHS emc LVD RED

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Features

- DC power socket input and 4 channel constant voltage output.
- Match with RF 2.4G single zone or multiple zone single color, dual color, and RGB/RGBW remote control.
- One RF controller accepts up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- When using with RGB/RGBW light, built-in 10 dynamic modes, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmits a signal to another controller with a 30m control distance.
- Synchronize on multiple controllers.
- Light on/off fade time 3s selectable.

Technical Parameters

Input and Output

Input voltage	12-24VDC
Input current	15.5A
Output voltage	4 x (12-24)VDC
Output current	4CH,4A/CH,Max 6A
Output power	4 x (48-96)W
Output type	Constant voltage

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	Logarithmic
PWM Frequency	1000Hz (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

Environment

Operation temperature	Ta: -30 ° C ~ +55 ° C
Case temperature (Max.)	T c: +85 °C
IP rating	IP20

Warranty and Protection

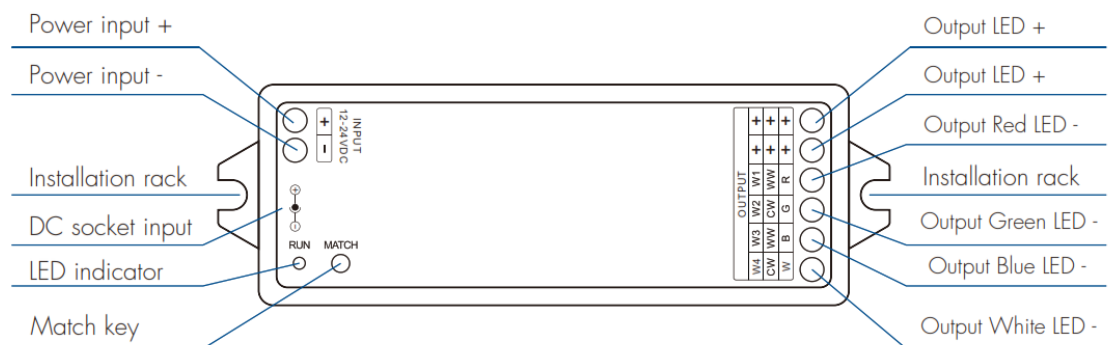
Warranty

5 years

Protection

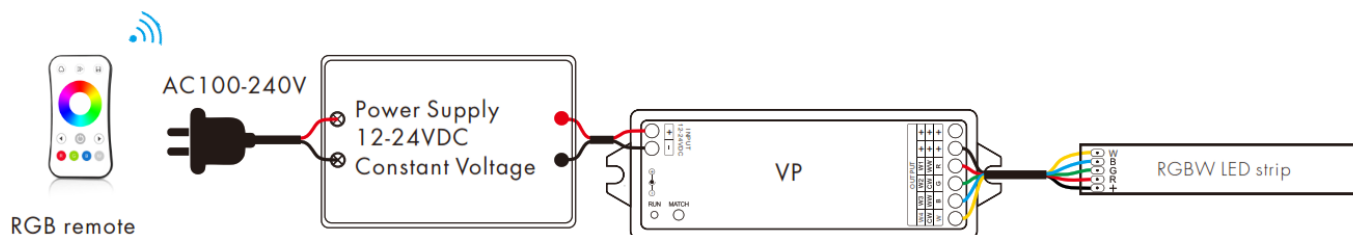
Reverse polarity
Short circuit

Mechanical Structures and Installations

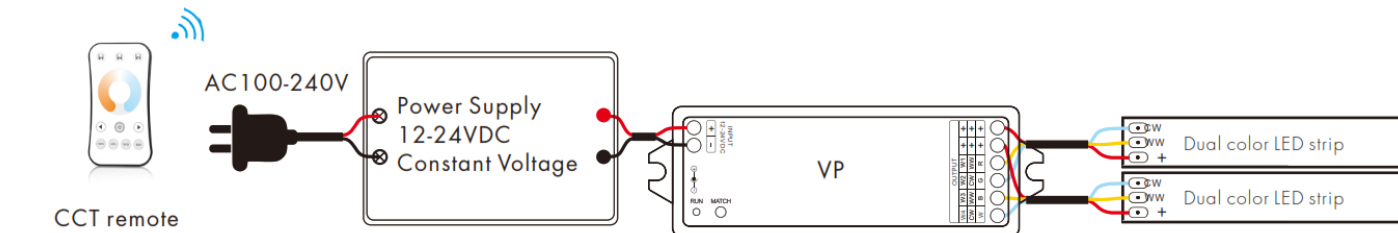


Wiring Diagram

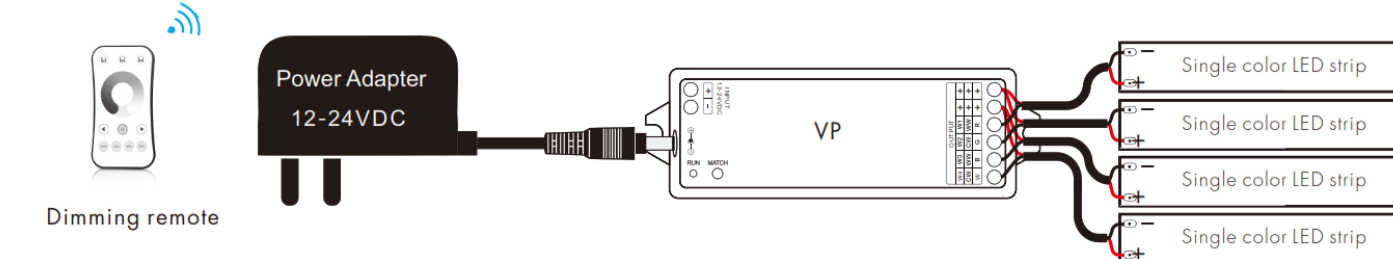
- VP for RGB/RGBW



- VP for dual color



- VP for single color



Note: User can connect constant voltage power supply or power adapter as power input.

Match Remote Control (two match ways)

The end user 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) on the remote. The LED indicator fast flash a few times means the match is successful.

Delete:

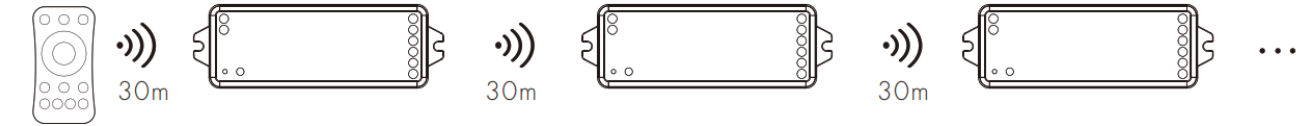
Press and hold the match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

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.

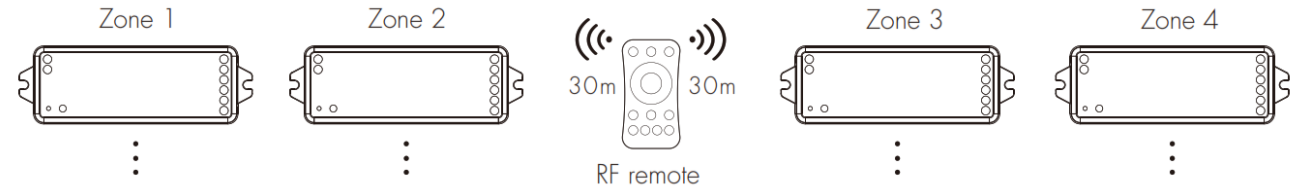
Application notes

- 1. All the receivers are in the same zone.



RF remote

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 a 30m distance can work synchronously when they are controlled by the same remote, under the same dynamic mode, and with the same speed.
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) is in a different zone, like zone 1, 2, 3, or 4.



Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times.
Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

RGB/RGBW dynamic mode list

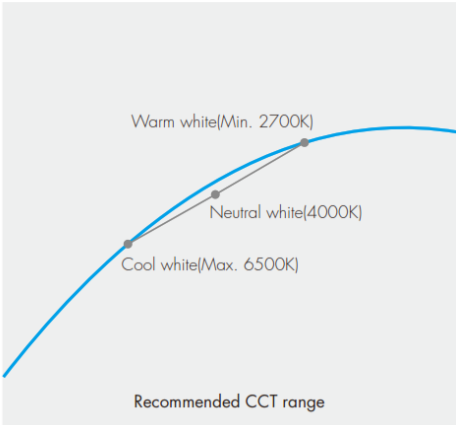
No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Dual color control

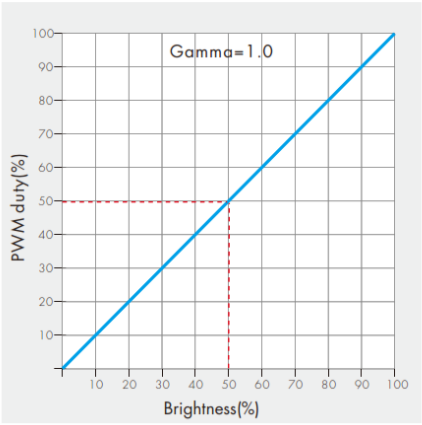
CH1, CH3=Warm white LED
CH2, CH4=Cool white LED
Each channel can supply up to 96W(@24V) and the white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=96W CH3=0W,CH4=96W	CH1=48W,CH2=48W CH3=48W,CH4=48W	CH1=96W,CH2=0W CH3=96W,CH4=0W

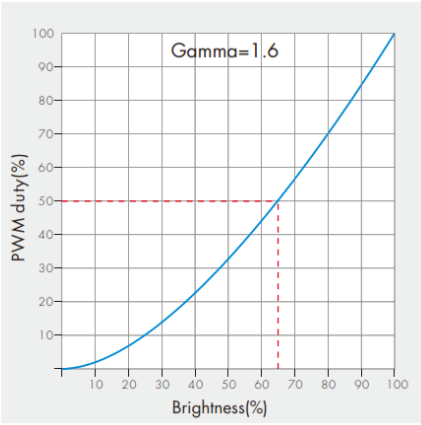
Linear dual color tuning



Dimming curve for CCT



Dimming curve for RGBW/RGB/DIM



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.
Wrong color	<ol style="list-style-type: none"> 1 . Wrong connection of R/G/B/W wires. 	<ol style="list-style-type: none"> 1. Reconnect R/G/B/W wires.
The uneven intensity between 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 wider wire. 3. Replace the higher power supply. 4. Add power repeater.
No response from the remote	<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



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