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T-LED PR 4K8A Dimming 4 Channel LED RF Controller

T-LED PR 4K8A Dimming 4 Channel LED RF Controller Owner's Manual

Contents

T-LED PR 4K8A Dimming 4-Channel LED RF Controller

Product Information

Specifications

- Model No.: PR 4K8A
- Channels: 4
- Output: 4 channel PWM constant voltage output, Max 8A per channel
- Dimming: Step-less dimming with 4096 levels, 0-100%
- Control: RF 2.4GHz wireless remote control
- Protection: Over-load / Short circuit protection
- Input Voltage: 12-48VDC
- Output Voltage: 4 x (12-48)VDC
- Output Current: 4x8A@12/24V, 4x5A@36/48V
- Output Power: 4x96W@12V, 4x192W@24V, 4x180W@36V, 4x240W@48V
- Dimming Data: 4096 levels, PWM Frequency: 1000Hz
- Dimensions: L120 x W90 x H30mm
- Weight: 0.304kg

Product Usage Instructions

Installation

1. Connect the power input and LED output according to the installation rack diagram.
2. Ensure proper connection of power input and LED output wires.

Match Remote Control

Match

- Option 1: Short press match key, then immediately press on/off key on the remote.
- Option 2: Switch off and on the power, then press on/off key on the remote 3 times.
- The LED indicator will blink to indicate successful matching.

Delete

- To delete all matches, press and hold the match key for 5 seconds.
- The LED indicator will flash to confirm deletion.

Light On/Off Fade Time Setting
To set the light on/off fade time:

- Long press match key for 5 seconds, then short press match key 3 times to set the time.
- To restore factory default parameters and fade time, long press match key for 10 seconds.

Features

- 4 channel PWM constant voltage output, Max 8A per channel.
- Match with RF 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- When using with RGB/RGBW light, built in 10 dynamic mode, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 15m control distance.
- Synchronize on multiple number of controllers.
- Fade in and out effect selectable.
- Over-load / Short circuit protection, recover automatically.

Technical Parameters

Input and Output	
Input voltage	12-48VDC
Input current	32.5A@12/24V 20.5A@36/48V
Output voltage	4 x (12-48)VDC
Output current	4x8A@12/24V 4x5A@36/48V
Output power	4x96W@12V 4x192W@24V 4x180W@36V 4x240W@48V
Output type	Constant voltage

Dimming data

Input signal	RF 2.4GHz
Control distance	15m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0 -100%
Dimming curve	Logarithmic
PWM Frequency	1000Hz (default)
Package	
Size	L120x W90 x H30mm
Gross weight	0.304kg

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
Certiication	CE,EMC,LVD,RED
Warranty	2 years
Environment	
Operation temperature	Ta: -30 OC ~ +55 OC
Case temperature (Max.)	Tc: +85 OC

Mechanical Structures and Installations
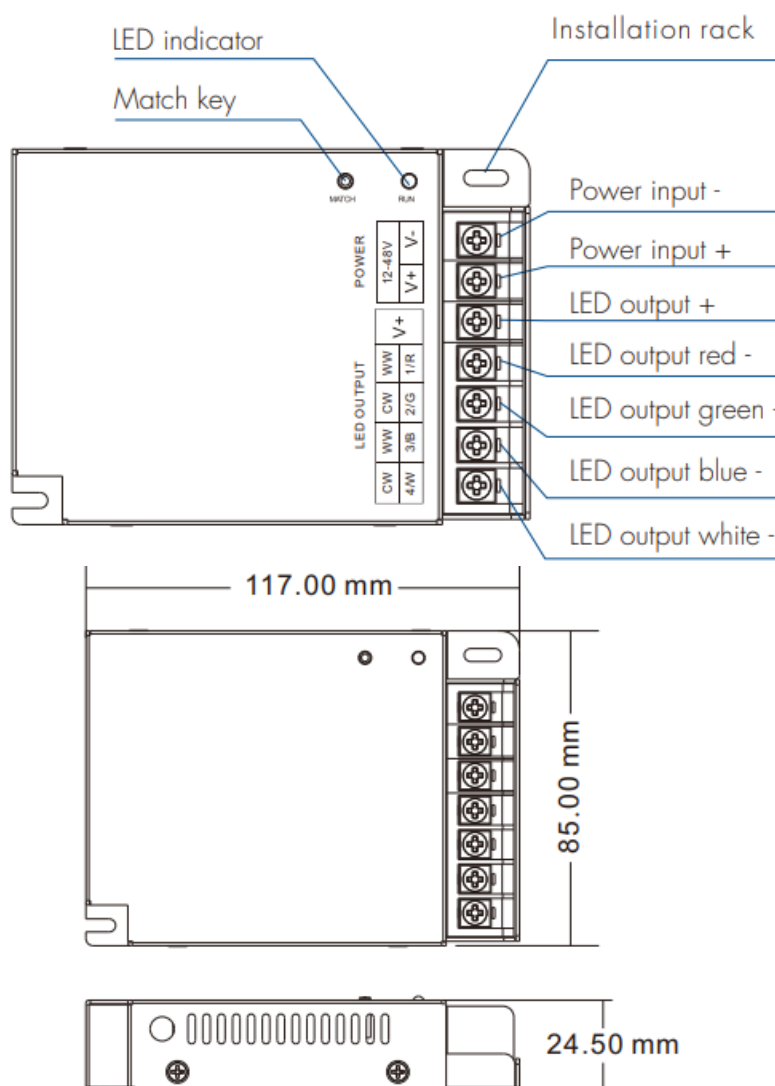
Match Remote Control (two match ways)
End user can choose the suitable match/delete ways.

Two options are offered for selection:

Use the controller's Match key

- **Match**: Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The LED indicator fast flash a few times means match is successful.
- **Delete:** Press and hold 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, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.
- **Delete**: Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

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.
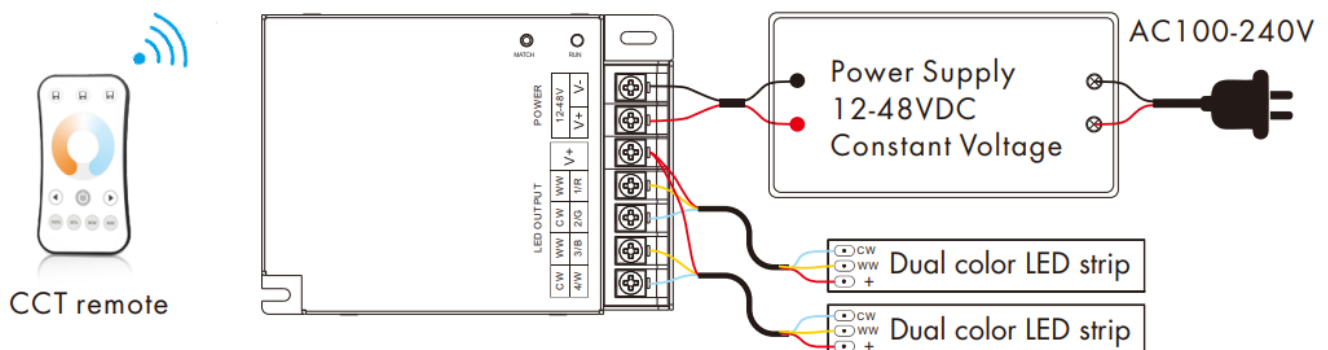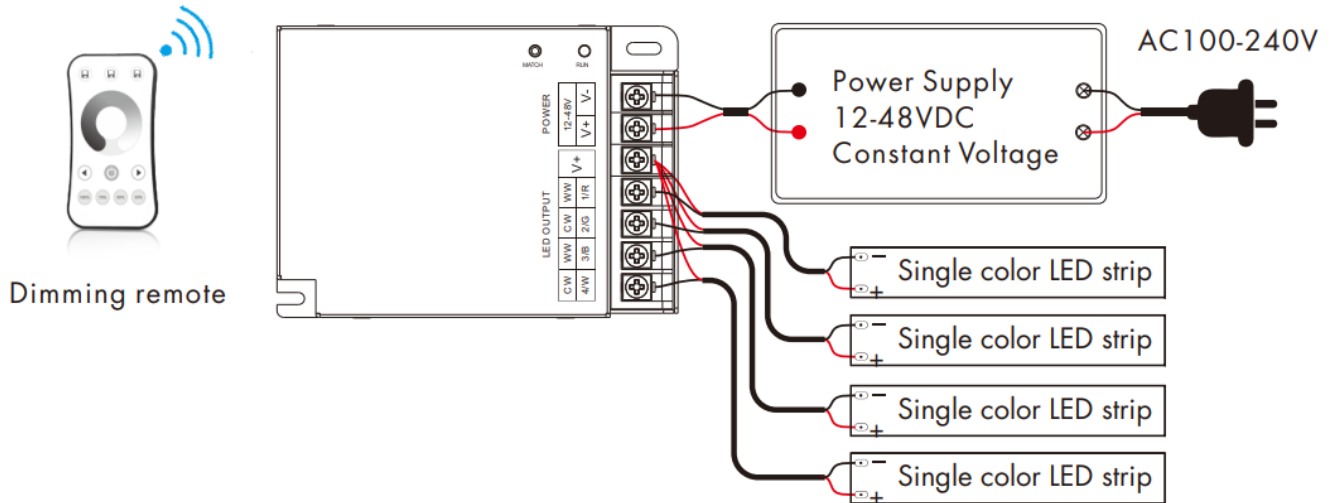
Wiring Diagram

for RGB/RGBW
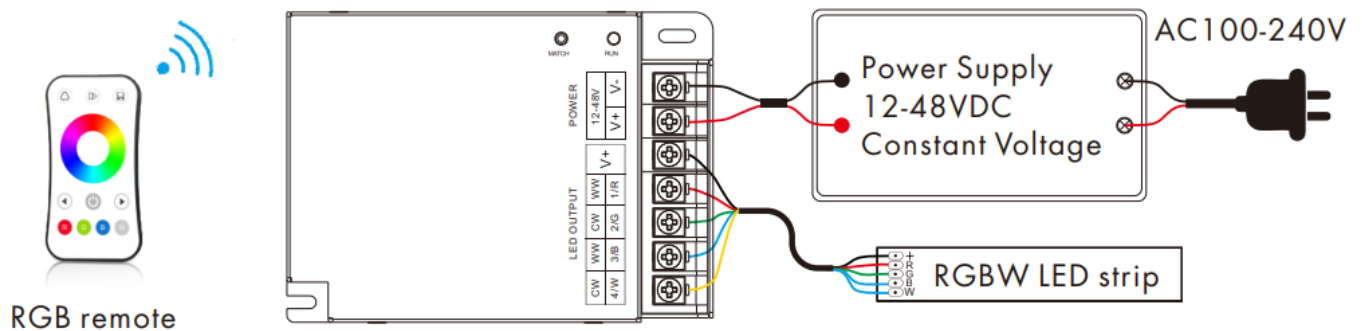
Note: If connect with RGB LED strip, please long press match key for 15s, the controller will become RGB type.

For dual color

For single color

Dimming remote

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 192W(@24V) and white balance can be controlled as such:

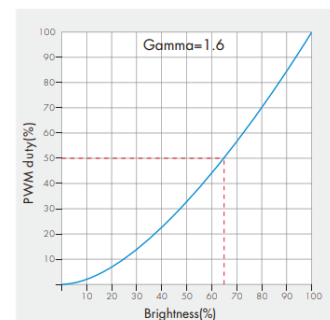| Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=192W CH3=0W,CH4=192W	CH1=96W,CH2=96W CH3=96W,CH4=96W	CH1=192W,CH2=0W CH3=192W,CH4=0W

Linear dual color tuning

Dimming curve for CCT
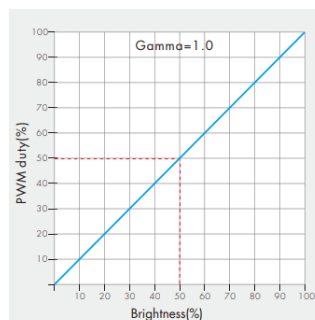
Dimming curve for RGBW/RGB/DIM
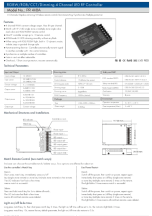
Frequently Asked Questions

Q: How many remote controls can be paired with the RF controller?
A: The RF controller can accept up to 10 remote controls.

Q: What is the control distance of the RF controller?
A: The control distance is up to 15m in a barrier-free space.

Documents / Resources

T-LED PR 4K8A Dimming 4 Channel LED RF Controller [pdf] Owner's Manual
PR 4K8A RGBW, PR 4K8A RGB, PR 4K8A CCT, PR 4K8A Dimming, PR 4K8A Dimming 4 Channel LED RF Controller, PR 4K8A Dimming, Dimming, 4 Channel LED RF Controller, RF Controller, Controller

References

- **User Manual**