



LEDYi Lighting V4-D LED RF Controller User Manual

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RGBW/RGB/CCT/Dimming 4 Channel LED RF Controller
Model No.: V4-D
User Manual Ver 1.1.0

4 Channels/Four PWM frequency/Linear or logarithmic dimming/Numeric display/Din Rail/Multiple protection



FC  CE RoHS  LVD RED

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Features

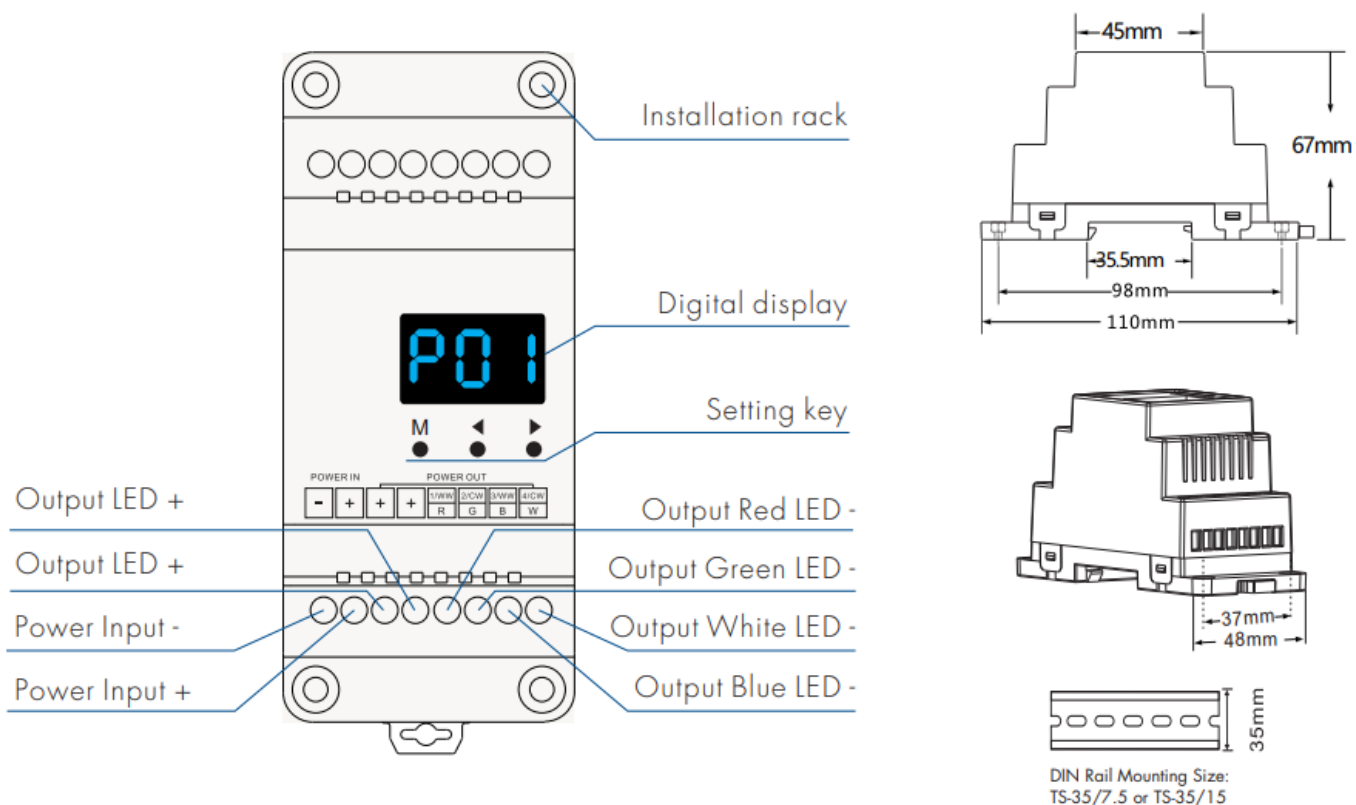
- Digital numeric display and easy key operation.
- Can set as 1 channel dimmer, 4 channel dimmer, dual color, RGB or RGBW controller.
- Match with RF 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.

- When using with RGB/RGBW light , built in 10 dynamic mode, include jump or gradual change style.
- PWM frequency 1000/2000/4000/8000Hz selectable.
- Logarithmic or linear dimming curve selectable.
- Light on/off fade time 0 – 20s selectable.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Over heat / Over load /Short circuit protection recover automatically.
- Available in white or black.

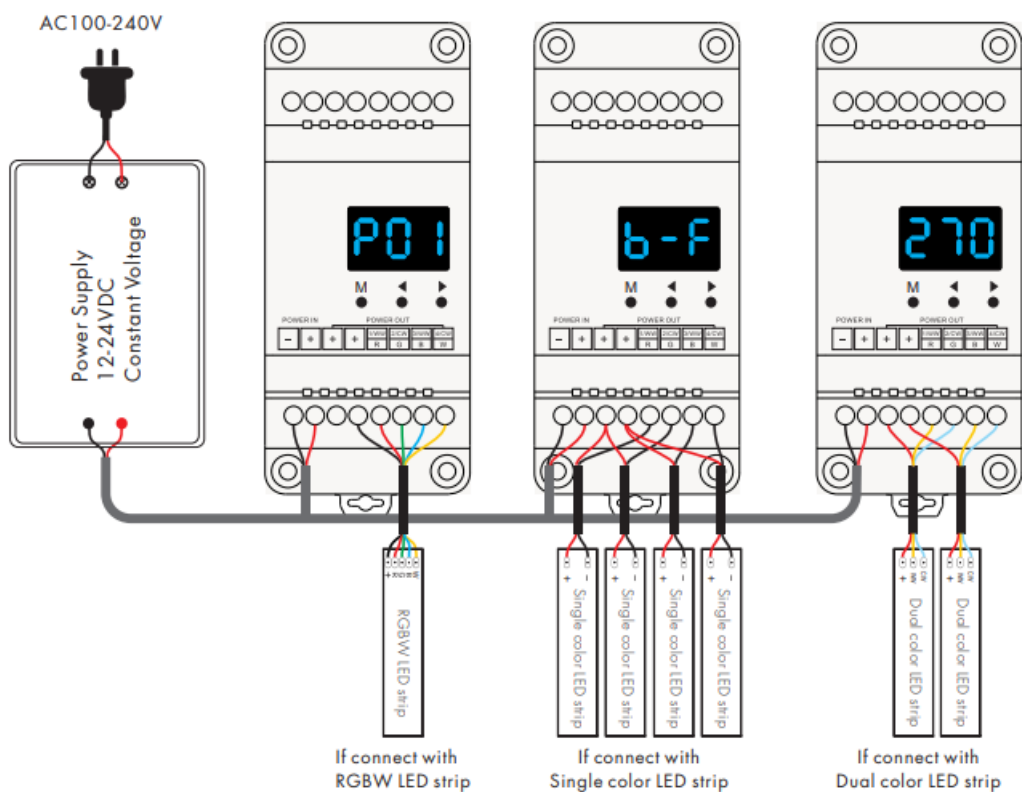
Technical Parameters

Input and Output	
Input voltage	12-24VDC
Input current	20.5A
Output voltage	4 x (12-24)VDC
Output current	4CH,5A/CH
Output power	4 x (60-120)W
Output type	Constant voltage
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
Dimming data	
Input signal	Key + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0 -100%
Dimming curve	Logarithmic or linear
PWM Frequency	1000/2000/4000/8000Hz
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity Over-heat Over-load Short circuit
Weight	
Net weight	0.099kg
Gross weight	0.153kg

Mechanical Structures and Installations



Wiring Diagram



Operation

Light type and other parameter setting

- Long press M and ◀ key for 2s, prepare for setup system parameter: light type, output PWM frequency, output

brightness curve, light on/off fade time, automatic blank screen. short press M key to switch

- Light type: short press ◀ or ▶ key to switch “Ch1”), dual color temperature(“Ch2”) , RGB(“Ch3”), RGBW(“Ch4”) and 4 channel dimmer(“CH4”).
- Output PWM frequency: short press ◀ or ▶ key to switch 1000Hz(“F10”), 2000Hz(“F20”), 4000Hz(“F40”) or 8000Hz(“F80”).
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).
- Output brightness curve: short press ◀ or ▶ key to switch linear curve(“C-L”) or logarithmic curve(“C-E”).
- Light on/off fade time: short press – or + key to switch 0.5s(“d00”), 2s(“d02”), 3s(“d03”), 5s(“d05”), 10s(“d10”) or 20s(“d20”) fade on/off time.
- Automatic blank screen: short press ◀ or ▶ key to switch enable (“bon”) or disable(“boF”) automatic blank screen.
- Long press M key for 2s or timeout 10s, quit system parameter setting.

1 Channel Dimmer

- Four channel output connect four single color LED strip, realize synchronous dimming.
- Short press M key to switch coarse dimming and
- Coarse dimming: short press ◀ or ▶ key to adjust 10 levels brightness(b-1, b-9, b-F).
- Fine dimming: short press ◀ or ▶ key to adjust 256 levels brightness(b01~bFF).

Dual color temperature controller

- Four channel output connect two groups dual color LED strip(WW and CW).
- Short press M key to switch color temperature or brightness adjustment.
- Press ◀ or ▶ key to setup value of each item.
- Color temperature: 2700-6500K, display “270~650”, short press 11 levels, long press 256 levels.
- Brightness: 1-10 level brightness(b-1,b-9,b-F).

RGB/RGBW Controller

- Four channel output connect RGB/RGBW LED strip.
- Short press M key, switch static adjustable mode(P-H) and 10 change mode(P01—P10).
- When run static adjustable mode, can adjust three/four channel brightness respectively. Short press M key switch three/four channel dimming (100-1FF, 200-2FF, 300-3FF, 400-4FF), press ◀ or ▶ key adjust each channel brightness.
- When run 10 change mode, can adjust each mode speed and brightness, W brightness(Only RGBW). Short press M key to switch speed and brightness item. Mode speed: 1-10 level speed(S-1, S-9, S-F). Mode brightness: 1-10 level brightness(b-1, b-9, b-F). W channel brightness: 0-255 level brightness(400-4FF).



Mode
(P01~P10)



Speed
(8 level)



Brightness
(10 level, 100%)

RGB/RGBW dynamic mode list

No.	Name	No.	Name
P01	RGB jump	P06	RGB fade in and out
P02	RGB smooth	P07	Red fade in and out
P03	6 color jump	P08	Green fade in and out
P04	6 color smooth	P09	Blue fade in and out
P05	Yellow cyan purple smooth	P10	White fade in and out

4 Channel Dimmer

- Four channel output connect four single color LED strip, realize individual dimming.
- Short press M key, switch static adjustable mode(P-H) and four dynamic mode(P-1~P-4).
- When run static adjustable mode, can adjust four channel brightness respectively.
Short press M key switch four channel dimming(100~1FF, 200~2FF, 300~3FF, 400~4FF), press ◀ or ▶ key adjust each channel brightness.
- When run four dynamic mode, can adjust each mode speed and brightness.
Short press M key to switch speed and brightness item.
Mode speed: 1-10 level speed(S-1, S-9, S-F).
Mode brightness: 1-10 level brightness(b-1, b-9, b-F).

4 channel dimmer dynamic mode list

No.	Name
P-1	4ch light on and off in sequence
P-2	4ch single light on in sequence
P-3	4ch light fadein and fadeout synchronously
P-4	4ch light fadein and fadeout in sequence

Turn on/off light

- Long press M key 2s, turn off light, display “OFF”.
- When in OFF state, short press M key, turn on light.

Match RF Remote

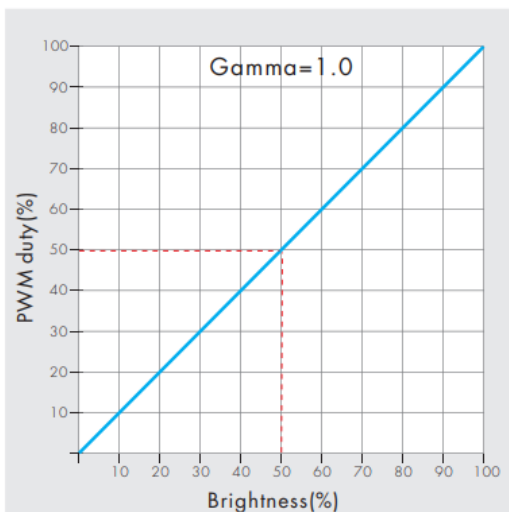
- Match: Long press M and ► key for 2s, display “RLS”, within 5s, press on/off key or zone key of the remote, display “RLO”, match is successful,
- Delete: Long press M and ► key for 5s, until display “RLE”, delete all matched remote.
- Match operation will not change controller`s light type automatically, you must set light type via key operation, make sure the light type of the remote and controller is same.

Restore factory default parameter

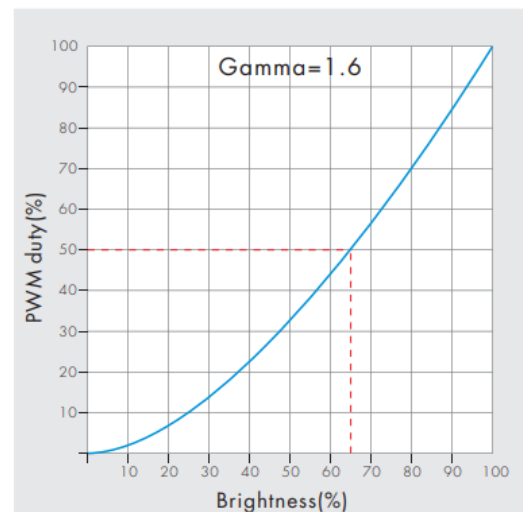
- Long press ◀ and ► key for 2s, restore factory default parameter, display “RES”.
- Factory default parameter: without matched remote, RGBW type, 1000Hz PWM frequency output, logarithmic brightness curve, 0.5s light on/off fade time, RGB mode number is 1, disable automatic blank screen.

Dimming curve setting

Linear dimming curve

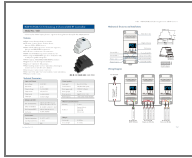


Logarithmic dimming curve





Documents / Resources



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V4-D, V4-D LED RF Controller, LED RF Controller, RF Controller, Controller

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