# RGBW/RGB/CCT/Dimming 4 Channel LED RF Controller

## Model No.: V4-D

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

### Features

- Diaital numeric display and easy key operation.
- Can set as 1 channel dimmer. 4 channel dimmer. dual color. RGB or RGBW controller.
- Match with 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control
- One RE 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 2000/500Hz selectable.
- Logarithmic or linear dimming curve 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.

### Technical Parameters

Input and Output		Dimming data
Input voltage	12-24VDC	Input signal
Input current	20.5A	Control distance
Output voltage	4 x (12-24)VDC	Dimming gray scale
Output current	4CH,5A/CH	Dimming range
Output power	4 x (60-120)W	Dimming curve
Output type	Constant voltage	PVVM Frequency

EN60950

EN300 328

CE,EMC,LVD,RED

#### Safety and EMC

EMC standard (EMC)	
Safety standard(LVD)	
Radio Equipment(RED)	
Certification	

Environment	

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



FC C CE RoHS EMC LVD RED

## Kev + RF 2.4GHz 30m(Barrier-free space) 4096 (2^12) levels 0-100% Logarithmic or linear 500Hz or 2kHz Warranty and Protection EN301 489,EN 62479

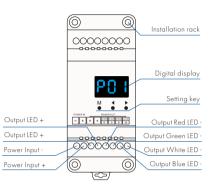
Warranty

Protection

5 years
Reverse Polarity Over-heat Over-load Short circuit

Weight	
Net weight	0.099kg
Gross weight	0.153kg

### Mechanical Structures and Installations

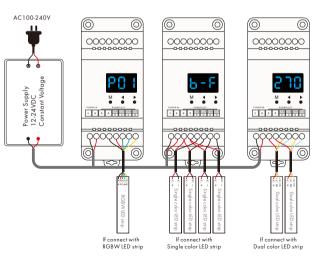






# ..... DIN Rail Mounting Size: TS:35/7.5 or TS:35/15

# 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 frequence, output brightness curve, automatic blank screen. short press M key to switch four item.
- Light type: short press  $\triangleleft$  or  $\flat$  key to switch five kinds type: 1 channel dimmer("Ch1"), dual color temperature("Ch2"), RGB("Ch3"), RGBW("Ch4") and 4 channel dimmer("CH4").
- Output brightness curve: short press or key to switch linear curve("C-L") or logarithmic curve("C-E").
- 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 fine dimming.
- 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 4 or key adjust each channel brightness.
  - 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[400-4F].
   W channel brightness: 0-255 level brightness[400-4FF].

#### RGB/RGBW dynamic mode list

No.	Name	No.	Name
PO 1	RGB jump	P06	RGB fade in and out
PO2	RGB smooth	P07	Red fade in and out
PO3	6 color jump	PO8	Green fade in and out
PO4	6 color smooth	P09	Blue fade in and out
PO5	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

Mode

 $(P01 \sim P10)$ 

Speed

Brightness

(10 level, 100%)

(8 level)

- 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, low PWM frequence output, logarithmic brightness curve, RGB mode number is 1, disable automatic blank screen.

#### Dimming curve setting

#### Linear dimming curve

