VD3

RF RGB

3-Button RF RGB LED Controller

● 3 channel constant voltage RGB LED RF controller.

● 1.5A per channel, output connects with 5 meters RGB LED strip.

● 3 buttons operation with on/off, mode and color adjustment.

● Match with 2.4G single zone or multiple zone RGB remote control optional.

● 256 levels 0-100% dimming smoothly without any flash.

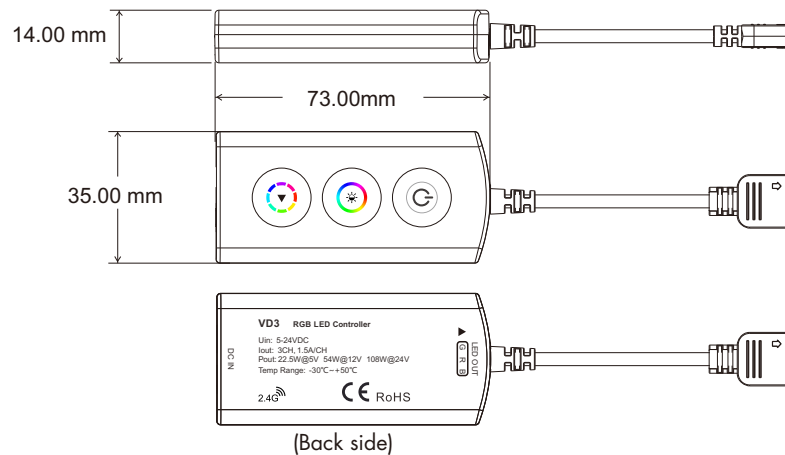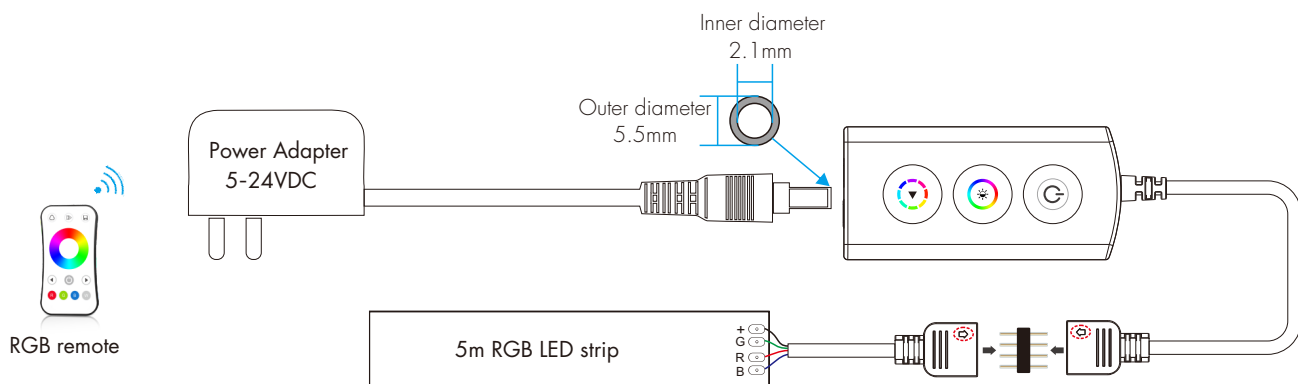● Built in 10 dynamic modes, include jump or gradual change style.

CE RoHS emc RED

Technical Parameters

Input and Output			Dimming data			Safety and EMC		
Input voltage	5-24VDC		Input signal	3 button + RF 2.4GHz		EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4	
Output voltage	5-24VDC		Control distance	30m(Barrier-free space)				
Output current	3CH, 1.5A/CH		Dimming gray scale	4096 (2^12) levels		Safety standard	EN 61348-1:2015+A1:2021 EN 61348-2-13:2014+A1:2017	
Output power	22.5W@5V 54W@12V 108W@24V		Dimming range	0-100%		Radio Equipment(RED)	ETSI EN 300 328 V2.2.2	
			Dimming curve	Logarithmic		Certification	CE,EMC,RED	
Environment			PWM Frequency	2KHz (default)		Package		
Operation temperature	Ta: -30°C ~ +50°C		Warranty	5 years		Size	L120 x W43 x H27mm	
Case temperature (Max.)	Tc: +85°C		Protection	Over-heat		Gross weight	0.013kg	

Dimension

14.00 mm

73.00mm

35.00 mm

VD3   RGB LED Controller

Uin: 5-24VDC
Iout: 3CH, 1.5A/CH
Pout:22.5W@5V 54W@12V 108W@24V
Temp Range: -30°C~+50°C

2.4G   CE RoHS

(Back side)

Wiring Diagram

Inner diameter
2.1mm

Outer diameter
5.5mm

Power Adapter
5-24VDC

RGB remote

5m RGB LED strip

+
G
R
B

Note:

1. Press and hold the ⊙ and ◉ button for 2s, output LED flashes 3 times, the light on/off fade time will change between 3s and 0.5s.

2. Press and hold the ⊙, ◉ and ◉ button for 2s, output LED flashes multiple times, switch between "GRB" (flashes 1 times), "RGB" (flashes 2 times), "BRG" (flashes 3 times) and "BGR" (flashes 4 times) output sequences, default is GRB.

Button function

⏻ : Turn on or off light.

🌈 : Short press to change 24 static RGB color, long press for 1-6s to adjust 256 levels brightness continuously.

▶ : Short press to change 10 dynamic mode, long press 2s to adjust speed, 10 levels.

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

Match Remote Control (optional)

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

Use 🌈 and ▶ button

Match:
Long press 🌈 and ▶ button 2s, the output LED blinks 2 times,
immediately press on/off key (single zone remote)
or zone key (multiple zone remote) of the remote.
The output LED blinks 3 times means match is successful.

Delete:
Press and hold 🌈 and ▶ button for 5s to delete all match,
The output LED blinks 5 times means all matched remotes were deleted.
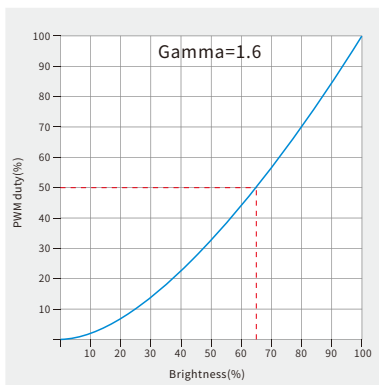
Use Power Restart

Match:
Switch off the power, then switch on power again,
immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 3 times on the remote.
The output LED blinks 3 times means match is successful.

Delete:
Switch off the power, then switch on power again,
immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 5 times on the remote.
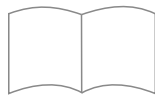The output LED blinks 5 times means all matched remotes were deleted.

Dimming curve

Gamma=1.6

PWM duty(%)

Brightness(%)

Packing List

LED Controller
1 pcs

User Manual
1 pcs

Extension Cable
(12cm)
1 pcs

4-Pin Plug
1 pcs