## Single Color LED Controller

Model No.: V1-T
3-in-1 dimming/RF remote/0-10V/Push Dim/20A output/Auto-transmitting/Synchronize

## Features

- RF remote, 0/1-10V, Push Dim (3-in-1) dimming,
- 4096 levels 0-100\% dimming smoothly without any flash
- Match with RF 2.4 G single zone or multiple zone dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 15 m control distance.
- Synchronize on multiple number of controllers
- Connect with external push switch to achieve on/off and

0-100\% dimming function.

- Over-heat / Over-load / Short circuit protection, recover automatically.



Mechanical Structures and Installations


Wiring Diagram

Note: The RF remote, 0/1-10V dimmer or Push switch can be connected at the same time which makes the product more user-friendly and more options to fit for some extra-ordinary demands.


## 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 emote) of the remote.

The LED indicator fast flash a few times
means match is successful.

## Delete.

Press and hold match key for 5 s 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 again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times quickly. The light 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 quickly. The light blinks 5 times means all matched remotes were deleted.

## 0/1-10V Dimming

- The $0 / 1-10 \mathrm{~V}$ input is operable via commercially available simple rotary wall switchs designed for $0 / 1-10 \mathrm{~V}$ dimming equipment or from decicated system central dimming controllers.
- Compliant with 0-10V, 1-10V, 10V PWM, RX(4 in 1)
- We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 5 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 15 meters
- If the controller be used with the RF remote or Push-Dim interface prior to using the $0 / 1-10 \mathrm{~V}$ interface, the $0 / 1-10 \mathrm{~V}$ signal should change over $10 \%$ to return $0 / 1-10 \mathrm{~V}$ control.


## Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching Imomentary) wall switchs.

## - Short press:

Turn on or off light

- Long press (1-6s):

Press and hold to step-less dimming,
With every other long press, the light level goes to the opposite direction

## - Dimming memory

Light returns to the previous dimming level when switched off and on again, even at power failure

- Synchronization:

If more than one coniroller are connected to the same push switch, do a long press for more than 10 s ,
then the system is synchronized and all lights in the group dim up to $100 \%$.
This means there is no need for any additional synchrony wire in larger installations.
We recommend the number of controllers connected to a push switch does not exceed 25 pieces,
The maximum length of the wires from push to controller should be no more than 20 meters.

## Dimming Curve

RF and Push dimming


0/1-10V dimming


0/1-10V(V)

## Malfunctions Analysis \& Troubleshooting

| Malfunctions | Causes | Troubleshooting |
| :--- | :--- | :--- |
| No light | 1. No power. <br> 2. Wrong connection or insecure. | 1. Check the power. <br> 2. Check the connection. |
| Uneven intensity <br> between front and <br> rear, with voltage drop | 1. Output cable is too long. <br> 2. Wire diameter is too small. <br> 3. Overload beyond power supply capability. <br> 4. Overload beyond controller capability. | 1. Reduce cable or loop supply. <br> 2. Change wider wire. <br> 3. Replace higher power supply. <br> 4. Add power repeater. |
|  | 1. The battery has no power. <br> 2. Beyond controllable distance. | 1. Replace battery. <br> 3. The controller did not match the remote. |
| 2. Reduce remote distance. |  |  |
| 3. Re-match the remote. |  |  |

