

AWDM-300 LED Dimmer

User's Manual



1. INTRODUCTION:

1.1 Features:

- Support IR remote control, can be divided into 3 groups.
- Support 0~10V lighting control.
- Flash mode with brightness and fade/jump lighting control function.

1.2 Specifications

| | |
|-----------------------|-------------------------|
| Operation Voltage | DC10V~30V |
| Output Power | 150W/12V or 300W/24V |
| Max output current | 12A |
| Weight | 240g |
| Size | L:110mmx W:70mmx H:23mm |
| Operation Temperature | 0°C ~+70 °C |
| Storage Temperature | -20°C ~ +85 °C |

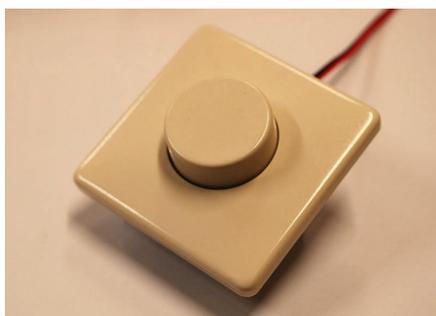
1.3 One set of AWDM-300:



The LED dimmer x1



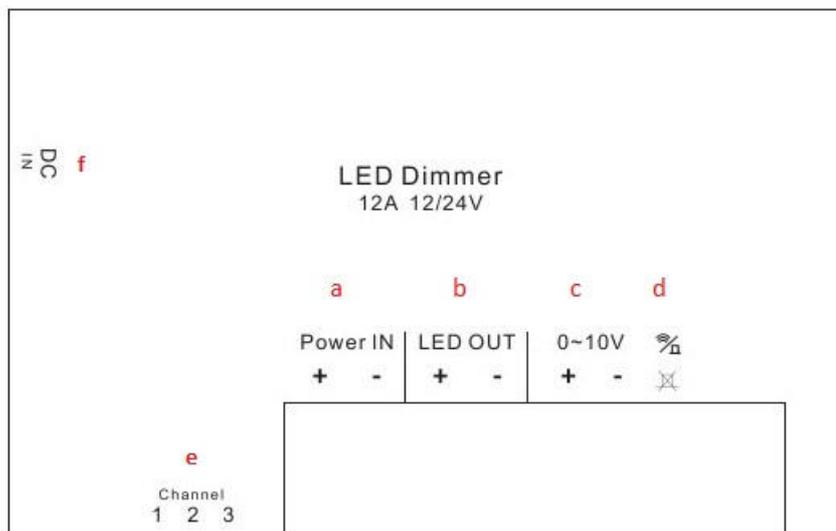
IR remote controller x1



※not include the 0~10V VR knob , sold separately .

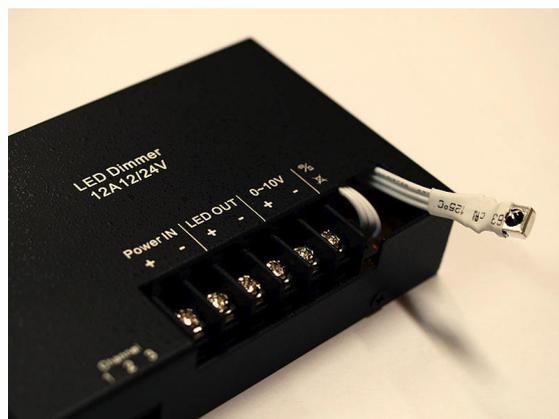
2. User's Guide

2.1 Input / output interface



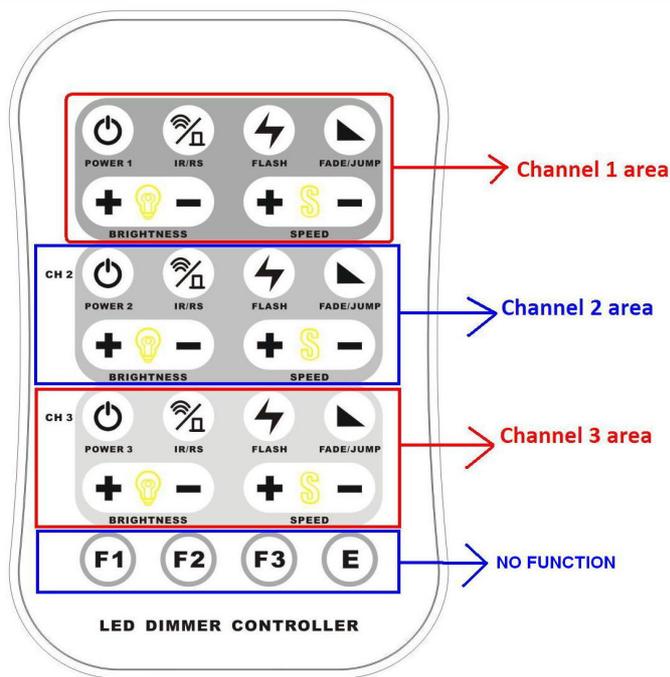
<Upper Front Side>

- **a** : The connector of power supply (DC 0~30V depends on the LED module type)
- **b** : LED Module connector .
- **c** : The connector of 0~10V VR Knob .
- **d** : The switch to turn on/ turn off the 0~10V control function.
- **e** : The switch for setting CH1/CH2/CH3
- **f** : DC adapter in (10~30V) .



- **Extension IR Receiver Wire:** The 50cm extension wire of IR Receiver can be pull out or storage in the case.

2.2 The IR remote controller



| | | |
|-----------------|---|--|
| POWER 1 / 2 / 3 |  | Channel 1 / 2 / 3 Power ON/OFF |
| IR/RS |  | The dimmer control by IR remote or 0~10V Knob Buzzer beeps once: IR control mode. Buzzer beeps twice: 0~10V Knob control mode. |
| FLASH |  | Flash mode, press again will be back to static mode. |
| FADE/JUMP |  | Switch to FADE/JUMP mode when in FLASH mode. |
| BRIGHTNESS+/- |  | Fade/Jump mode and Static mode brighter or darker, total 32 degrees. |
| SPEED+/- |  | Fade/Jump mode speeding or slower, total 15 degrees. |

2.3 0~10V Knob Control

0~10V dimming function output adjustment

| | | | | | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Dimming value | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V |
| Percentage of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |

2.4 : The channel setting



The switch to set channel 1~3. May use a IR remote controller to control the 3 groups of LED lighting

ex : when the switch to be set to channel 1, the dimmer will follow the order of "channel 1 area" on the IR remote controller , and so on.

2.5 : 0~10V Knob control function



AWDM-300 support the standard 0~10V knob (sold separately)

 : Turn on the 0~10V function- Both 0~10V and IR controlled works and

could switch to 0~10V / IR controlled mode via key "". The controller will be back to 0~10V mode which was auto-saved before disconnecting form the power supply.

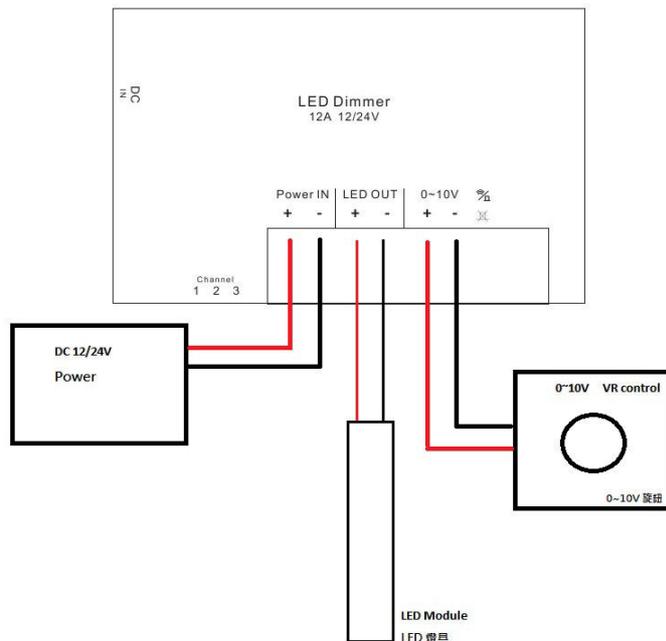
 : Turn off the 0~10V function- IR remote works only.

Please turn off 0~10V function if only use IR remote to control the light, and then the controller will be back to IR controlled mode which was auto-saved before disconnecting from power supply.

※ If turns on/off via IR remote instead of disconnect the controller from power supply, it will auto-save the last setting for both in 0~10V mode and IR controlled mode.

Application :

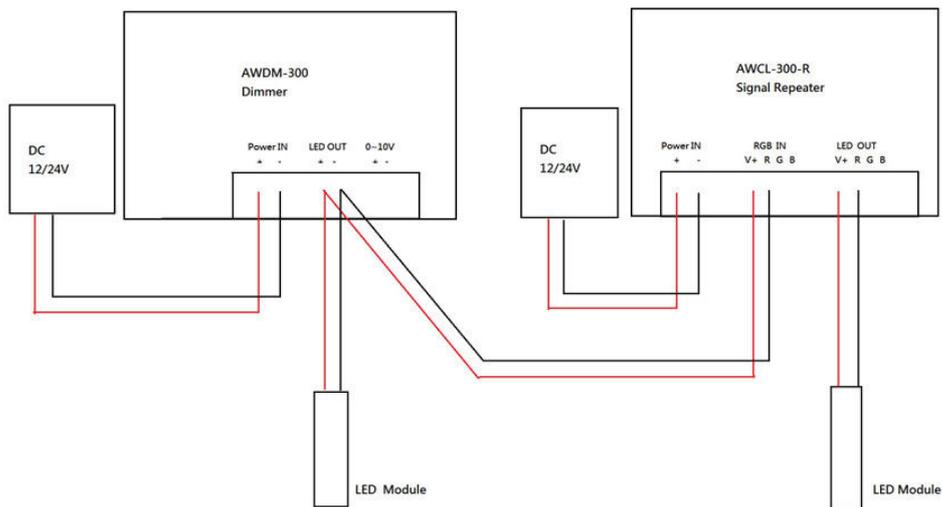
Connect the dimmer to LED lightings .



Max Output Power : 150W/12V ; 300W/24V

Connect the Dimmer to Signal Repeater (AWCL-300-R)

If need numerous of LED strips for synchronized lighting control , we advice connect to the LED signal repeater AWCL-300-R :



Note : When connecting to repeater, the negative of LED IN and LED OUT have to connect to the same channel.

(ex: If the negative of LED IN connect to channel "R", then the LED OUT also have to connect to channel "R")