

ABIDM-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 ABIDM-300:



The LED dimmer x1



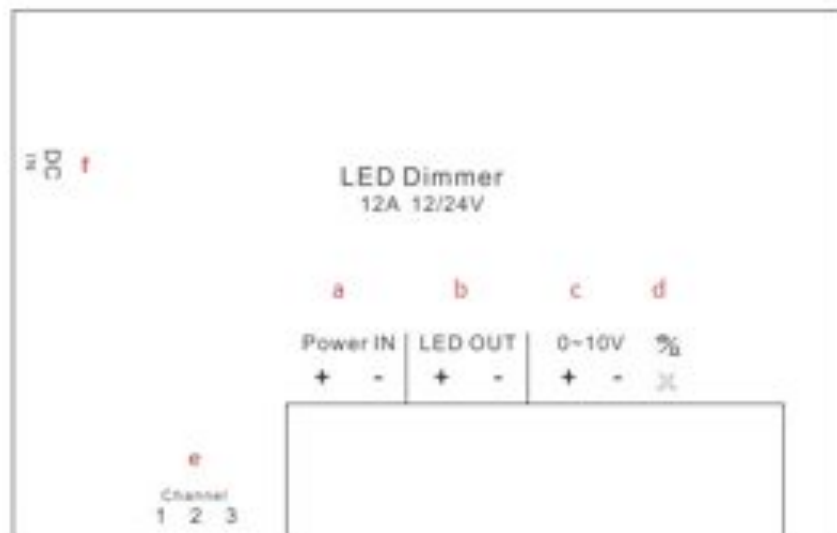
IR remote controller x1



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

2. User's Guide

2.1 Input / output interface



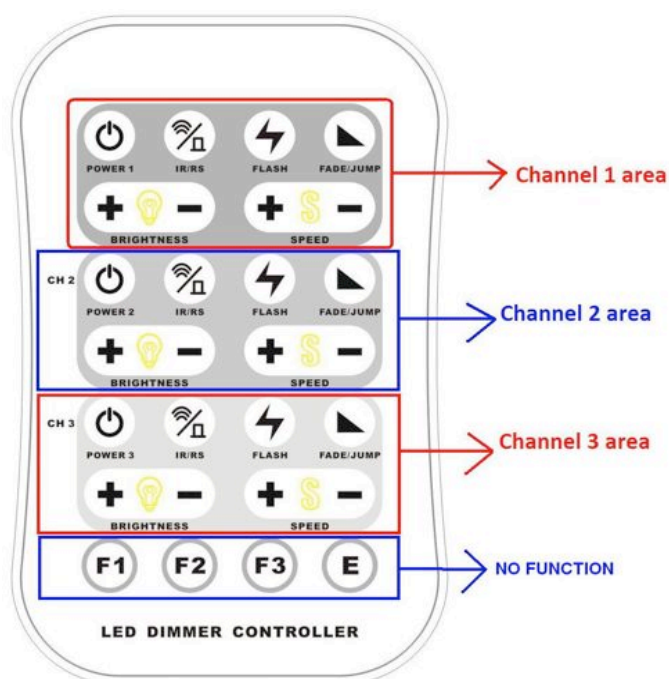
<Upper Front Side>







- **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



ABIDM-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, from the power supply.

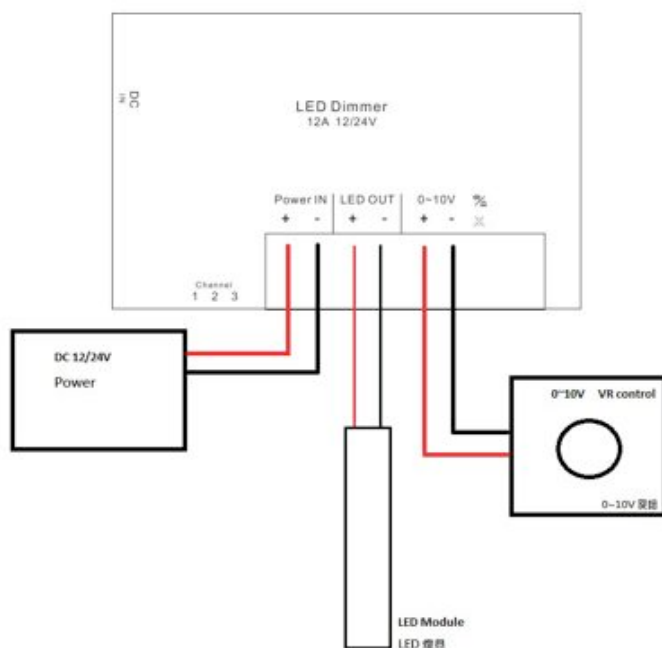
 : Turn off the 0~10V function- IR remote works only.

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 :

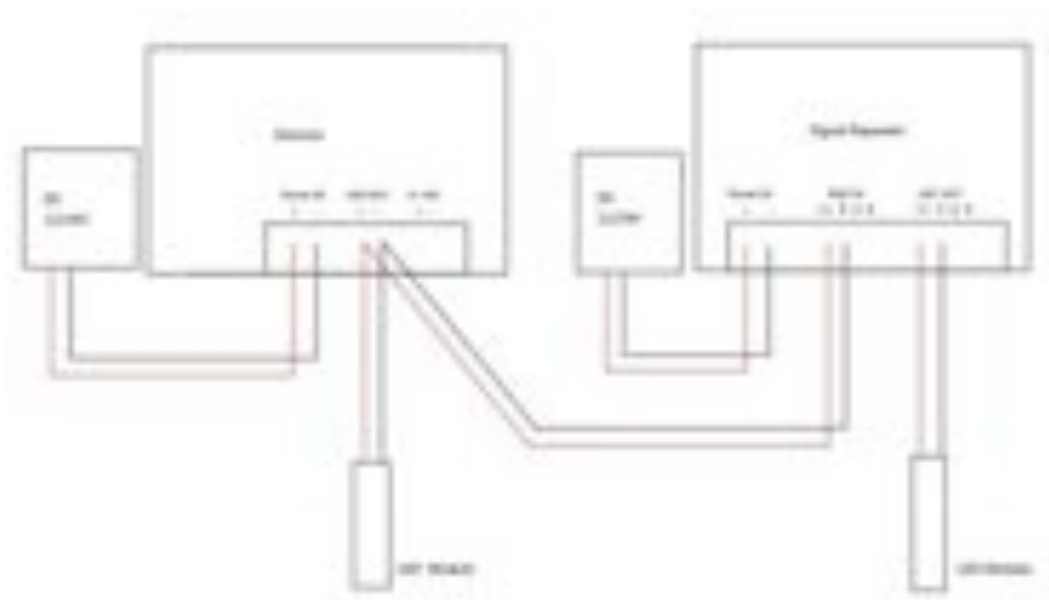
Connect the dimmer to LED lightings .



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

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

If need numerous of LED strips for synchronized lighting control, we advice connect to the LED signal repeater ABIL-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")