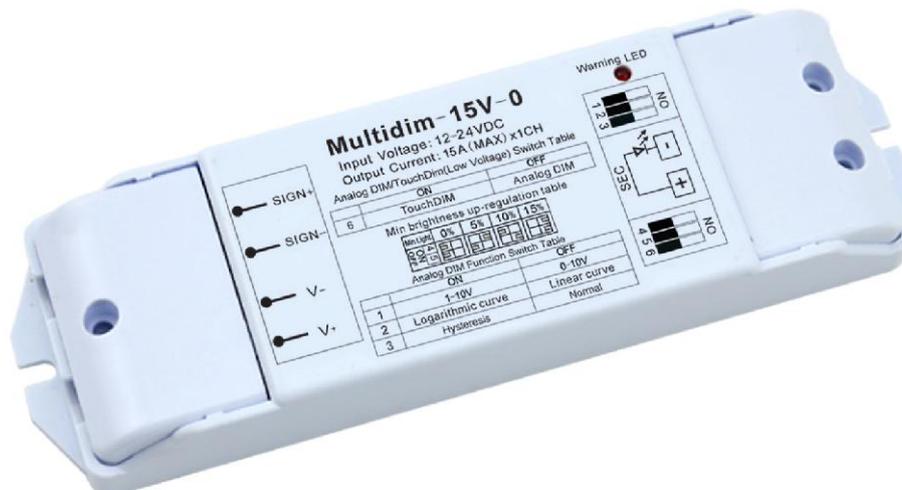


# Multidim-15V-0



(Please read through this manual before use)

## Forward

Thanks for using our LED Dimmer. Do check if there's any defect during transportation before use, if so, please don't use and inform your supplier immediately.

## After-Sales

From the day you purchase our products within three years, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

1. Any defects caused by wrong operations.
2. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
3. Any damages due to transportation, breaking, flooding water after the purchase.
4. Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.
5. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.
6. Product has been updated.

## Safety warnings

1. Please don't install this dimmer in lightening, intense magnetic and high-voltage fields.
2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Check if the voltage and power adapter suit for the dimmer
5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open dimmer cover and operate if problems occur.

The manual is only suitable for this model; any update is subject to change without prior notice.

**I. Technical Specs:**

This is a multi-functional LED dimmer, dimming mode, dimming curve, min brightness level all can be selected by dip switch.

Model: Multidim-15V-0			
Input Voltage:	DC12/24V	Loadable current	15A
Material	ABS+PC	Output Power:	180W/12V, 360W/24V
Working Temp:	-35°C – 55°C	Packing Size:	L167×W52×H24(mm)
Protection (with warning led)	Short-circuit Protect	Gross Weight:	93 g
	Over Current Protect Over Temperature Protect	Memory Function	Available in touch dim Function

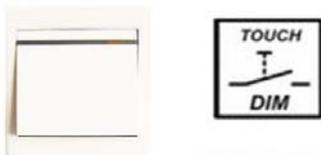
**II. Function Select Table**

**Analog Dim/Touch Dim Switch Table**

Function Switch		Analog DIM Selected	Touch DIM Select
OFF	NO	6 OFF	ON

Analog dim mode is selected by Switch bit 6 to off status, and if switch bit 6 to on status Touch Dim function will be selected.

Touch dimmer is only a switch, signal isn't have polarity in touch dim function.

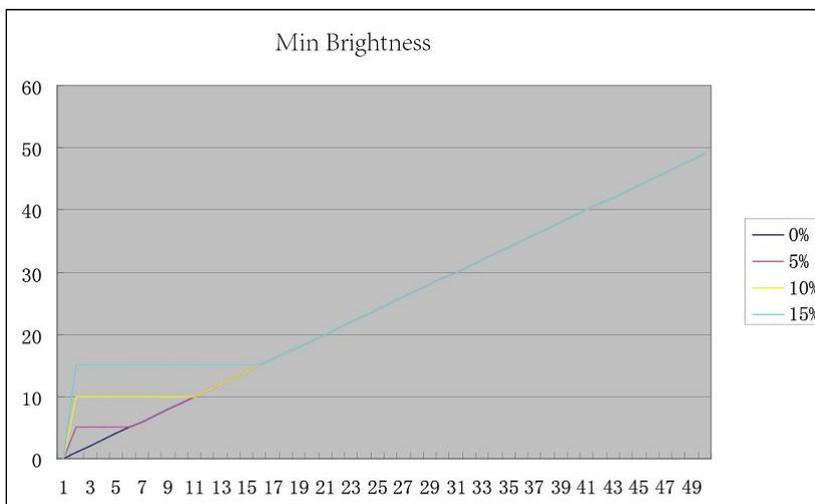


**Note:** Touch Dim function just need connect Touch dimmer two lines to signal+ and signal-! Please don't connect L/N line, or this dimmer will be damage !

**Min Brightness Switch Table**

Function Switch		0%	5%	10%	15%
OFF	NO	4			
	5				

Min brightness can be set in this dimmer from 0-15%. This function is available in both analog function and touch dim function. This feature is very effective to solve the led flicker issue in low-end. If led flicker, please up-regulate the min brightness, and the Dimming curves are as below:



**Anti-interference Switch Table**

Function Switch			Normal	Hysteresis
OFF	NO	3	 OFF	 ON

**Dimming Curve Switch Table**

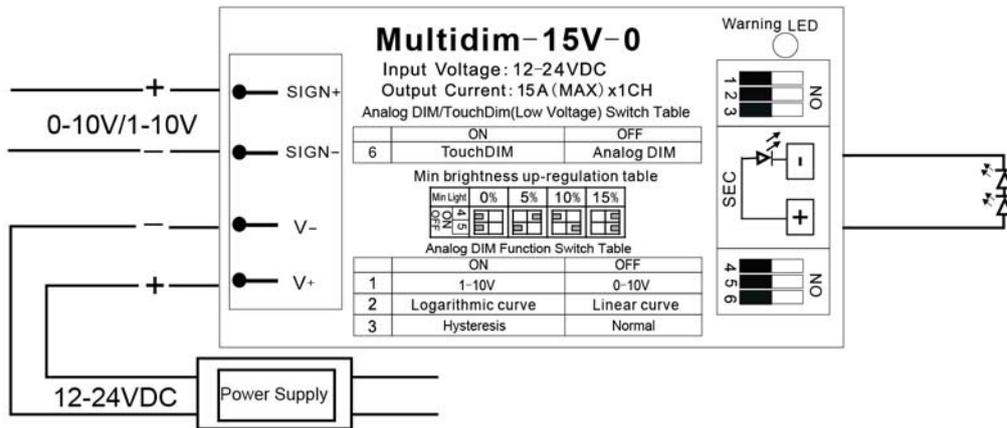
Function Switch			Linear Dimming	Logarithmic Dimming
OFF	NO	2	 OFF	 ON

**Dimming Mode Switch Table**

Function Switch			0-10V Dimming	1-10V Dimming
OFF	NO	1	 OFF	 ON

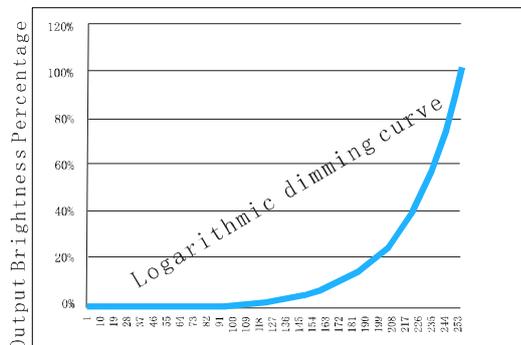
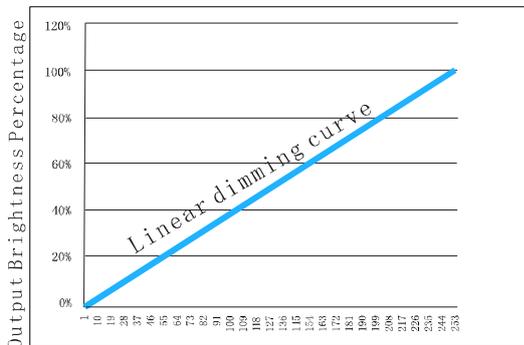
**III. Analog dimmer Function Description**

**Wire connection in Analog dimmer mode**



**Linear and Logarithmic Dimming Curves**

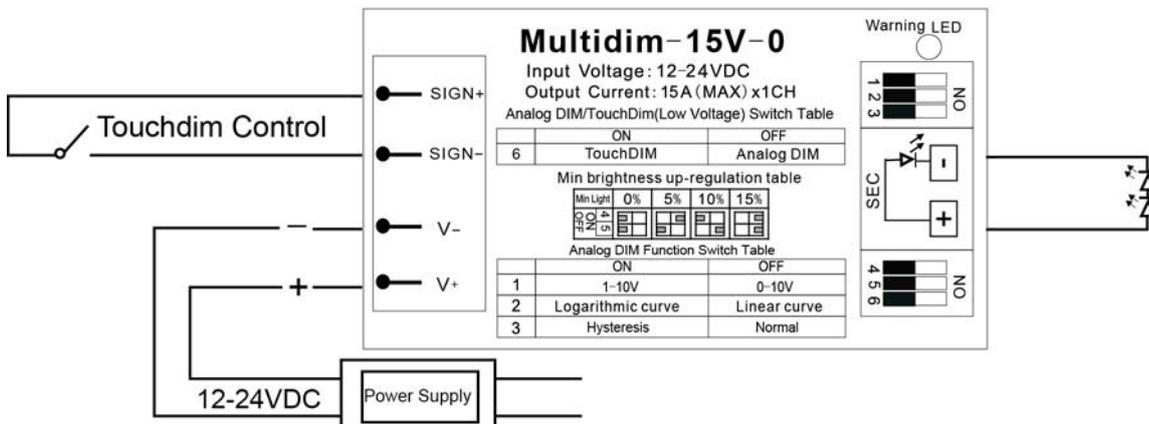
Dimming curves are as below:



Note: Logarithmic dimming curve use gamma correction to make the Luminance smoother, due to the characteristics of the diode

### IV. TouchDim function Description

#### Wire connection in TouchDim mode



- 1) Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
- 2) Long press the Touch DIM switch (>0.5s) to dim the brightness of light; The Dimming direction will inverse each time after long pressing switch.
- 3) When the light power off, long press the Touch DIM switch can turn on the light and adjust it brightness according to the dimming direction.
- 4) The brightness adjustment range is 5%-100%, and the light can be turned off through short pressing.
- 5) Power off memory function, the power-down state before will be maintained when power on again.

### VI. Exception Handles

Malfunction	Causation	Settle
Can't Dimming	Dimming mode selected error Signal isn't connect Signal type selected	Check switch bit 6 Status Check connection Check signal is active or passive signal and switch status is right or not
Warning LED On	Protection is action, Dimmer may be short, overload or temperature too high	Check output is short or not, whether load and temperature is out of range
LED Flicker		Up-regulate the min brightness