



## General

Product Type	Constant Voltage Driver
Length (mm)	175
Width (mm)	44
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	140
Wire Strip Length	5mm
Wire Type	2.5mm <sup>2</sup>

## Electronics

Input Domain	DC
Input Voltage	12 ~ 24V DC
Output Voltage	12 ~ 24 V DC
Output Current (mA) max/output	12000
Output Current Max. (A)	12
Output Power (W)	144W @ 12V, 288W @ 24V
Power Supply	N/A

## Lighting

Color Range	Single Color
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## Control

Output Signal	0-10V, PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0-100%
Driver Configuration	Digital
Number of Channels	1

## Protection

Reverse Polarity	Yes
LED Output Short	Yes
Overload	Yes
Restart after Protection	Yes

## Environmental

Operating Temperature	-30 ~ +55 °C
Ingress Protection	IP20

**CE** IP20 5<sup>year</sup>  
warranty

### Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

# LT-811-12A 16bit DMX/RDM CV Decoder



LT-811-12A with the standard RDM remote device management protocol, supports DMX512 signal bi-directional communication, achieves remote management of reading and writing DMX address (DMX master controller must recognize the RDM protocol). Designed for LED dimming, produce great lighting effects, can be worked with any brand of DMX dimmer, outstanding performance with following features:

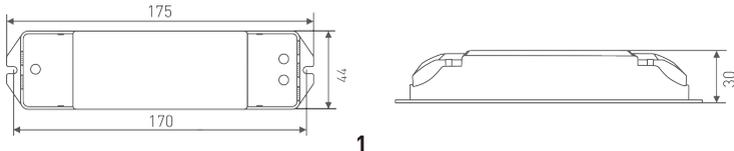
- OLED real-time display.
- 16bit/8bit input.
- 3 dimming curve optional.
- Frame rate is as high as 850 FPS.
- Built-in protection circuit of resistance to lightning stroke and ESD static electricity.

## 1. Product Parameter:

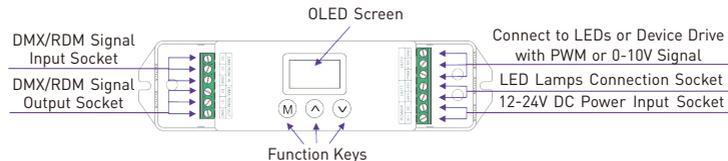
### LT-811-12A 16bit DMX CV Decoder

Input Signal:	DMX512, RDM	Working Temperature:	-30°C-55°C
Input Voltage:	12-24V DC	Dimensions:	L175×W44×H30mm
Output:	12A×1CH+0-10V×1CH+10V PWM×1CH	Package Size:	L178×W48×H33mm
Max Output Power:	144W/288W(12V/24V)	Weight (G.W.):	160g
Dimming Range:	0-100%		

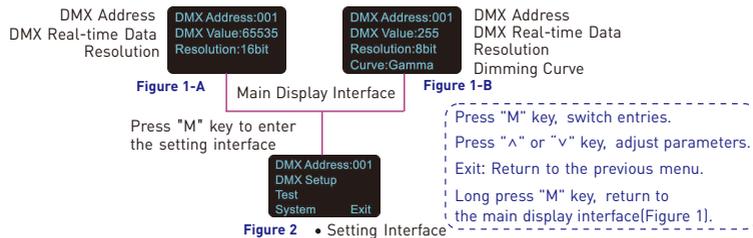
## 2. Product Size:



## 3. Parts Figure:



## 4. OLED Screen Interface Diagram:



Please refer to the OLED display for detailed information.

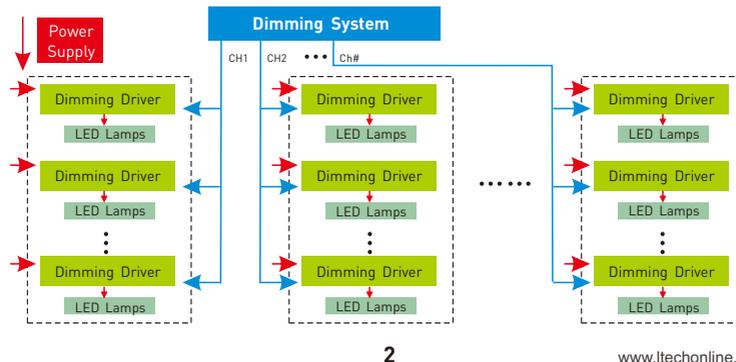
LT-811-12A will run the test scenes only when you enter "self-test" interface.

Screensaver enable time: undo for 2 min in the main display interface (Figure 1).

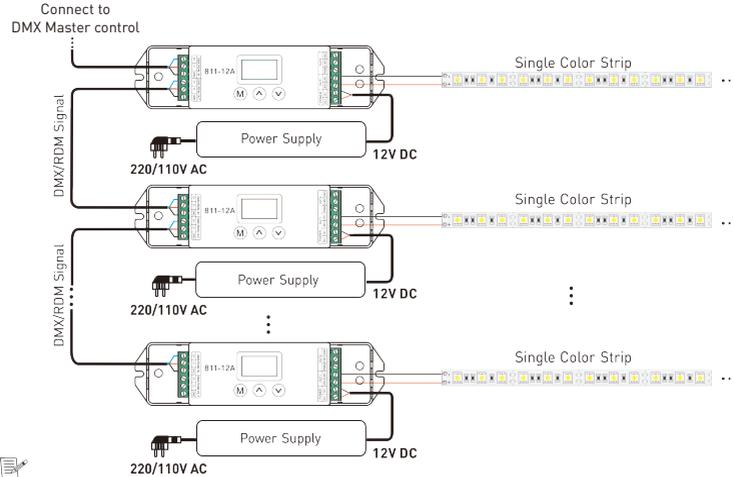
[Restore the default parameters] : In the main display interface( Figure 1), Long press "M"/"A"/"V" 3 keys simultaneously, LT-811-12A will restore the default parameters, and the screen display "Device restore default" for 2s, then it will return to the main display interface (Figure 1).

## 5. Wiring Diagram:

### 5.1 System Connection Diagram:



5.2 Connected to LEDs :



\* LED Voltage Chosen:

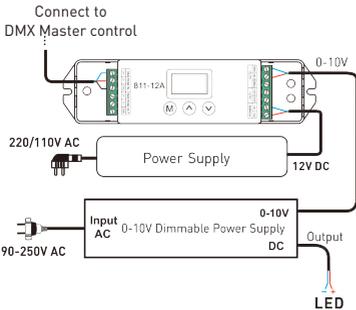
This controller can wire to the LED lamps with a voltage ranges from 12-24V DC if the input voltage equals output voltage, for example: the lamp with 12V working voltage, please use 12V power supply, the lamp with 24V working voltage, please use 24V power supply.

\* LED Power Chosen:

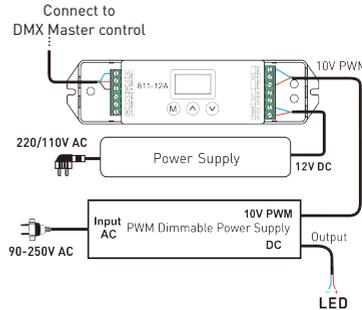
This controller can load a current ranges from 0-12A, a 12V lamp may load a power ranges from 0-144W; a 24V lamp may load a power ranges from 0-288W. The power chosen must be 20% higher than the actual load, for example: you can choose 100W power for the white LED strip(5m) with 72W in one roll. The principle for power chosen: the more the better.

6. Other Function:

1) DMX to 0-10V signal:



2) DMX to 10V PWM signal:



7. Attention:

- 7.1 The product shall be installed and serviced by the qualified person.
- 7.2 This product is non-waterproof, please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 7.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 7.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 7.5 Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 7.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7.7 If a fault occurs, please return the product to your supplier. Do not attempt to fix this product by yourself.

8. Warranty Agreement:

- 8.1 We provide lifelong technical assistance with this product:
  - A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
  - For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.
- 8.2 Warranty exclusions below:
  - Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
  - The product appears to have excessive physical damage.
  - Damage due to natural disasters and force majeure.
  - Warranty label, fragile label and unique barcode label have been damaged.
  - The product has been replaced by a brand new product.
- 8.3 Repair or replacement as provided under this warranty is the exclusive remedy to the customer. LTECH shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
- 8.4 Any amendment or adjustment to this warranty must be approved in writing by LTECH only.

★This manual only applies to this model. LTECH reserves the right to make changes without prior notice.