



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	2.5mm2

Electronics

Input Domain	DC
Input Voltage	5 ~ 24V DC
Output Current (mA) max/output	5000
Output Current Max. (A)	20
Output Power (W)	100W @ 5V, 480W @ 24V, 240W @ 12V, N/A
Power Supply	N/A

Lighting

Color Range	RGBW
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Control

Output Signal	PWM-CV
Control	DMX
Dimming Range	0~100%
Dimming Curve	Linear
Driver Configuration	Buttons Control Panel
Number of Channels	4

Protection

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

Environmental

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

CE

RoHS

COMPLIANT

FCC

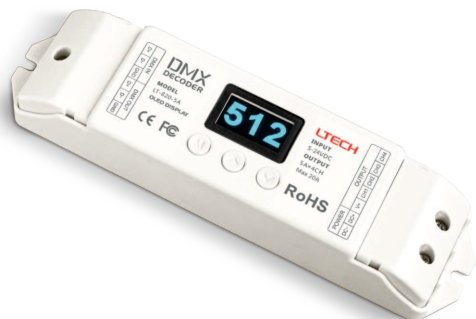
IP20

5 year 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-820-5A 16bit DMX CV DECODER



LT-820-5A is the world's first OLED display DMX decoder, designed for LED dimming, produce great lighting effects, can be worked with any brand of DMX dimmer, outstanding performance with following features:

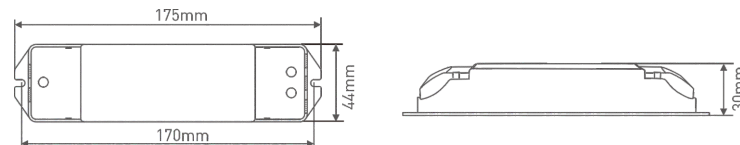
- OLED real-time display.
- 16bit/8bit input.
- 3 dimming curve optional.
- Frame rate is as high as 850 FPS.
- Built-in protection circuit of resistance to lightning stroke and ESD static electricity.

1. Product Parameter:

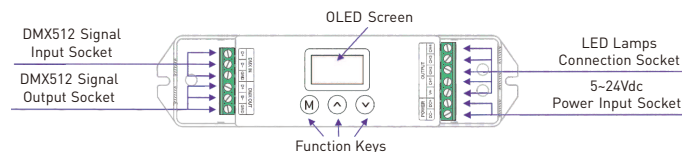
LT-820-5A DMX CV Decoder

Input Signal :	DMX512	Working Temp.:	-30°C~55°C
Input Voltage :	5~24Vdc	Dimensions :	L175xW44xH30mm
Load Current :	5A x 4CH Max. 20A	Package Size :	L178xW48xH33mm
Output Power :	Max 100W/240W/480W(5V/12V/24V)	Weight (G.W.):	175g
Dimming Range :	0~100%		

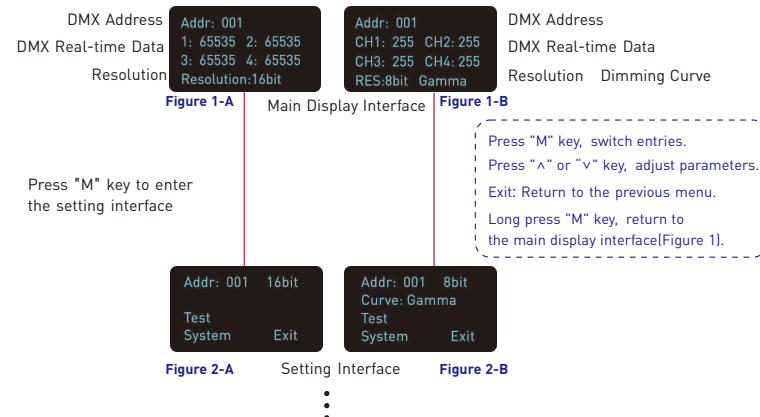
2. Product Size:



3. Main Component Description:



4. OLED Screen Interface Diagram:



Please refer to the OLED display for detailed information.

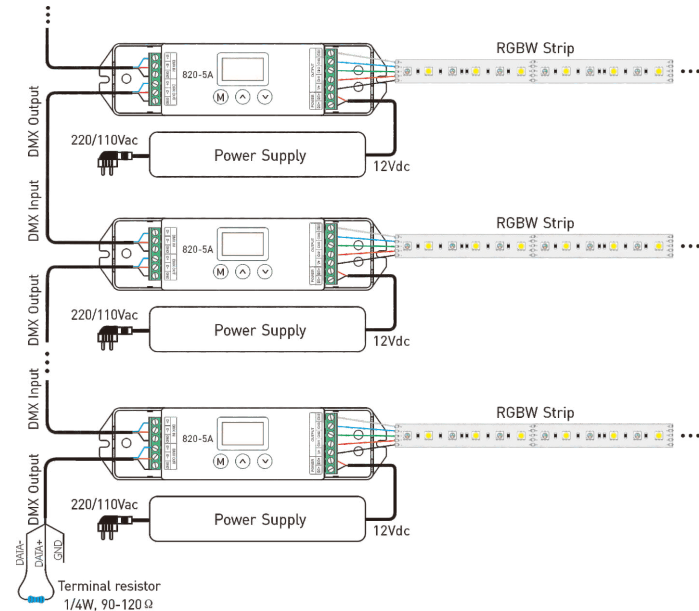
LT-820-5A will run the test scenes only when you enter "self-testing" interface. Screensaver enable time: undo for 2 min in the main display interface (Figure 1).

[Restore the default parameters] : In the main display interface(Figure 1), Long press "M" "A" "V" 3 keys simultaneously, LT-820-5A will restore the default parameters, and the screen display "Device restore default" for 2 seconds, then it will return to the main display interface (Figure 1).

5. Wiring Diagram:

5.1 Wiring diagram for multiple unit :

Connect to
DMX Master Control



 LED Voltage Chosen:

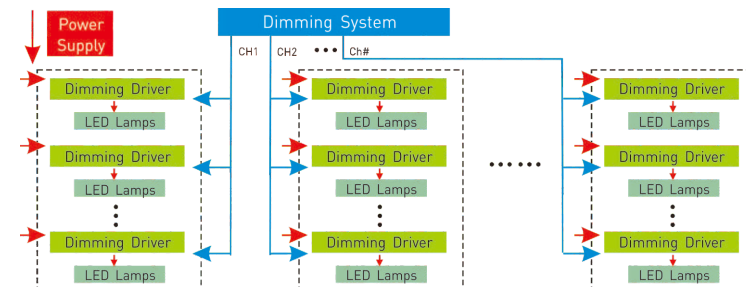
This controller can wire to the LED lamps with a voltage ranges from 5~24Vdc if the input voltage equals output voltage, for example:

the lamp with 5V working voltage, please use 5V power supply,
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 0-20A,
a 5V lamp may load a power ranges from 0-100W;
a 12V lamp may load a power ranges from 0-240W;
a 24V lamp may load a power ranges from 0-480W.
The power chosen must be 20% higher than the actual load.
The principle for power chosen: the more the better.

5.2 System connection diagram:



6. Attention:

- 6.1 The product shall be installed and serviced by the qualified person.
- 6.2 This product is non-waterproof, please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 6.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 6.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 6.5 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.
- 6.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 6.7 If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

7. Warranty Agreement:

- 7.1 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.
- 7.2 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.
- 7.3 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.
- 7.4 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.