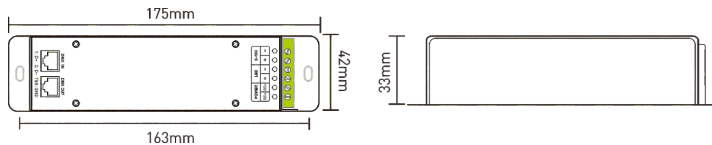# LT-855-12A
DMX-PWM CV DECODER

LT-855-12A DMX decoder works to convert universal DMX512 digital signal to PWM signal, realize 0-100% brightness, can control single color LED lights. 0-10V signal output socket also available.
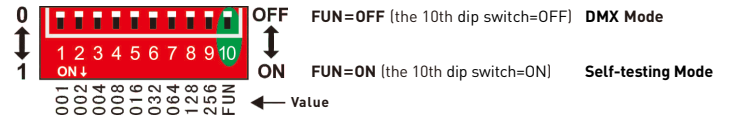
1. Product Parameter：

LT-855-12A

Input Signal:	DMX512	Working Temperature:	-30℃-65℃
Input Voltage:	12～24Vdc	Dimensions:	L175×W42×H33mm
Max Load Current :	12A×1CH+0-10V×1CH	Package Size:	L183×W48×H41mm
Max Output Power:	144W/288W(12V/24V)	Weight(G.W.):	310g
DMX512 Socket:	RJ45		

2. Product Size：

3. Dip Switch Operation：

FUN=OFF (the 10th dip switch=OFF) **DMX Mode**

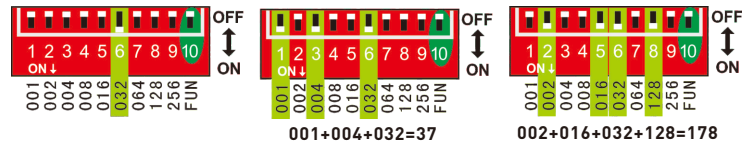FUN=ON (the 10th dip switch=ON)   **Self-testing Mode**

← Value

✻ DMX Mode: The running light flashed fast when input DMX signal, the flashed frequency depends on the frames of DMX master, if there is no DMX signal, the running light flashed normally.

3.1 How to set DMX address via dip switch：

FUN=OFF (the 10th dip switch=OFF) **DMX Mode**

DMX address value=the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.

E.g.1: Set Initial Address To 32.   E.g.2: Set Initial Address To 37.   E.g.3: Set Initial Address To 178.
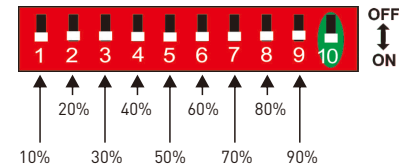

001+004+032=37   **002+016+032+128=178**

✻ When Dip switch 1-9 are OFF, the defaulted initial DMX address is 1.

3.2 Self-testing Mode：

FUN=ON (the 10th dip switch=ON)   **Self-testing Mode**

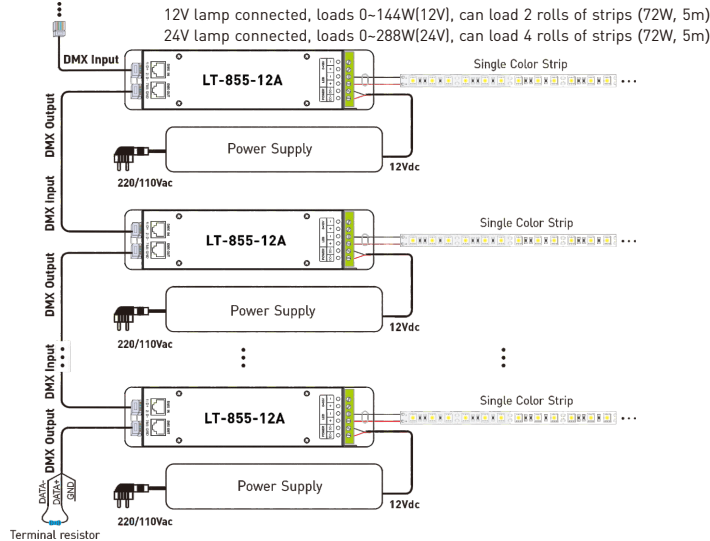| Dip Switch	1=ON	2=ON	3=ON	4=ON	5=ON	6=ON	7=ON	8=ON	9=ON	1-9=OFF
Brightness	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

[Attn] When several dip switches are ON, subjected to the highest switch value.
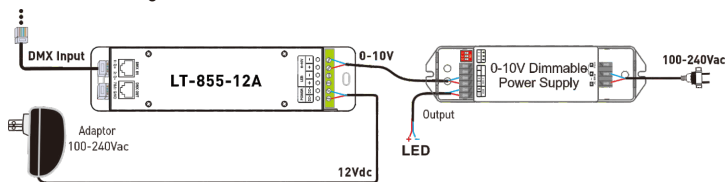As the figure above shows, the brightness will be 90%.

4. Wiring Diagram:

DMX signal input
DMX signal output

LT-855-12A

0-10V signal output
LED lamps connection
Power input

1: D+ 2: D- 7&8: GND

4.1 Connected to LEDs :

12V lamp connected, loads 0~144W(12V), can load 2 rolls of strips (72W, 5m)
24V lamp connected, loads 0~288W(24V), can load 4 rolls of strips (72W, 5m)

DMX Input

DMX Output

LT-855-12A

Single Color Strip

Power Supply

220/110Vac   12Vdc

DMX Input

DMX Output

LT-855-12A

Single Color Strip

Power Supply

220/110Vac   12Vdc

DMX Input

DMX Output

LT-855-12A

Single Color Strip

Power Supply

220/110Vac   12Vdc

DATA+ DATA- GND
Terminal resistor

✳ An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

✳ If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

4.2 DMX to 0-10V signal:

DMX Input

LT-855-12A

0-10V

0-10V Dimmable Power Supply

100-240Vac

Adaptor
100-240Vac

Output
LED

12Vdc

5. Attention:

5.1 The product shall be installed and serviced by the qualified person.

5.2 This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.

5.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.

5.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.

5.5 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.

5.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

5.7 If a fault occurs, please return the product to your supplier. Do not attempt to fix this product by yourself.

6. Warranty Agreement:

6.1 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 and cover manufacturing faults only.

● For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.

6.2 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.

6.3 Repair or replacement as provided under this warranty is the exclusive remedy to the customer. We shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.

6.4 Any amendment or adjustment to this warranty must be approved in writing by our company only.

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