LED Decoder DMX 24x3A - LT-880

2270800

General

Product Type	Constant Voltage Driver
Length (mm)	260
Width (mm)	123
Height (mm)	41
Housing Color	Matte Black
Housing Material	Metal
Mounting	Surface mounted
Weight (g)	885
Wire Strip Length	5mm
Wire Type	2.5mm2

Electronics

Input Domain	DC
Input Voltage	5 ~ 24V DC
Output Voltage	5 ~ 24 V DC
Output Current (mA) max/output	3000
Output Current Max. (A)	72
Output Power (W)	360W @ 5V, 864W @ 12V, 1728W @ 24V,
Power Supply	N/A
LED Outputs	24

Lighting

Color Range	RGB

Control

Output Signal	PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0~100%
Driver Configuration	Dip Switches
Number of Channels	24

Protection

Reverse Polarity	Yes
LED Output Short	Yes
Overload	Yes

Environmental

Operating Temperature	-30 ~ +65 °C
Ingress Protection	IP20

CE FC IP20 5 year warranty

OneEightyOne Valschermkade 27 - 28 | 1059CD | Amsterdam
+31 20 8200170 | info@oneeightyone.com | www.oneeightyone.com

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Paper size: A4

LT-880
DMX/RDM CV Decoder

FC CE RoHS COMPLIANT warranty 5 years ISO9001:2008

LT-880 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).

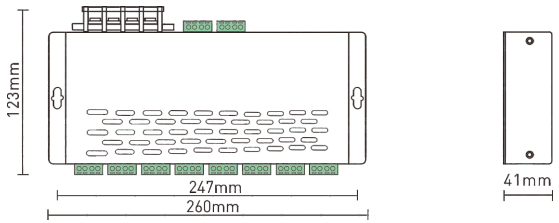
This compact decoder works with DMX512 console. Realize 0-100% brightness and various changing effect. Equiped with DMX standard XLR-3, RJ45 and green terminal interface, easy to operate. And it can control single color, bi-color, RGB LED lights.

1. Product Parameter:

LT-880

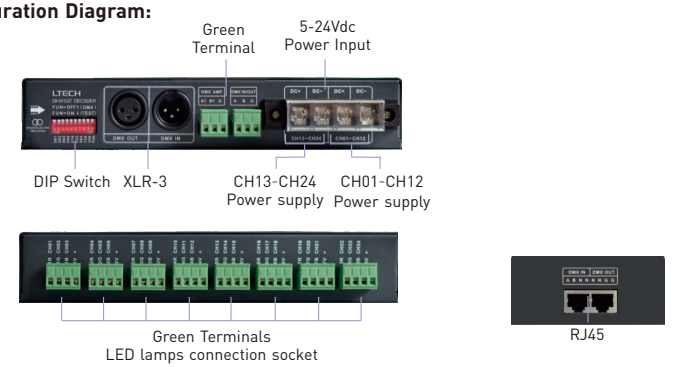
Input Signal:	DMX512/RDM	Output DMX Channel:	24CH
Input Voltage:	5~24Vdc	Working Temperature:	-30℃~65℃
Max Current Load:	3A×24CH Max 72A	Dimensions:	L260×W123×H41mm
Max Output Power:	(0-15...72W)×24CH Max. 1728W	Package Size:	L276×W128×H46mm
DMX512 Socket:	XLR-3, RJ45, Green Terminal	Weight(G.W.):	885g
Photoelectric Isolate:	Yes		

2. Product Size:

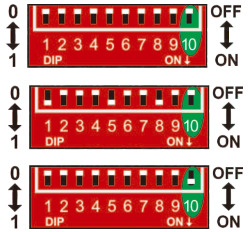


LTECH
LT-880 DMX/RDM CV Decoder

3. Configuration Diagram:



4. Dip Switch Operation:



RDM Mode: The dip switch 1-10 are OFF.

DMX Mode: FUN=OFF (the 10th dip switch=OFF)
Setting DMX addresses with dip switch 1-9

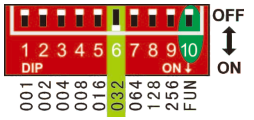
Self-testing Mode: FUN=ON (the 10th dip switch=ON)

4.1 How to set DMX address via dip switch:

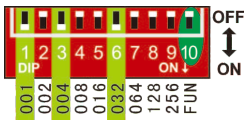
FUN=OFF (the 10th dip switch=OFF) **DMX Mode**

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.

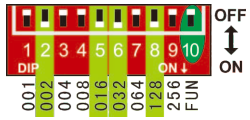


E.g.2: Set Initial Address To 37.



001+004+032=37

E.g.3: Set Initial Address To 178.

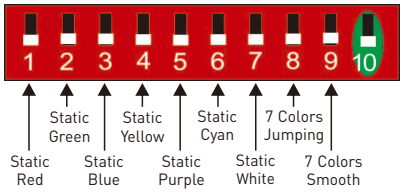


002+016+032+128=178

4.2 Self-testing Mode:

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

Dip Switch	1-9=off	1=on	2=on	3=on	4=on	5=on	6=on	7=on	8=on	9=on
Self-test Function	Static Black	Static Red	Static Green	Static Blue	Static Yellow	Static Purple	Static Cyan	Static White	7 Colors Jumping	7 Colors Smooth

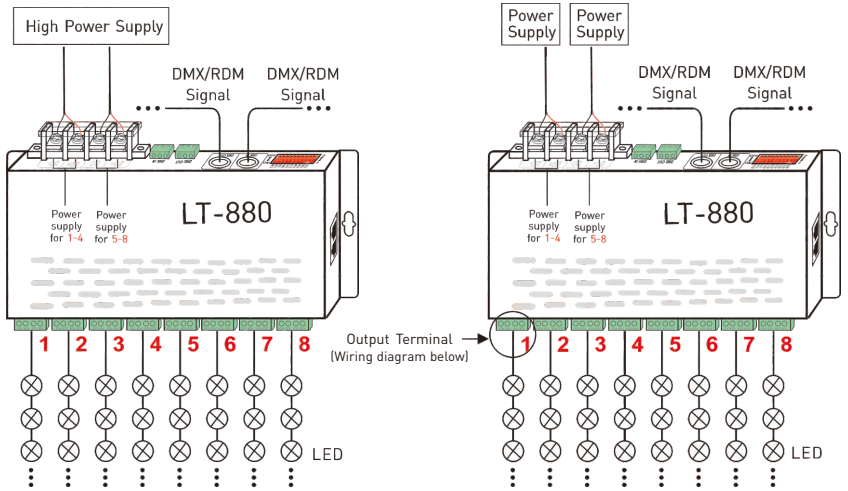


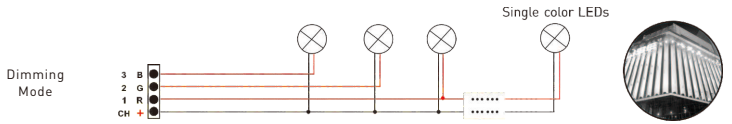
For changing effects (Dip Switch 8/9=on):
DIP switch 1-7 is used to realize 7 speed levels. (7=on, the fastest level)

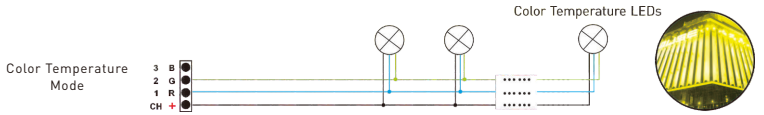
[Attn] When several dip switches are on, subjected to the highest switch value.
As the figure above shows, the effect will be 7 colors smooth at 7 speed level.

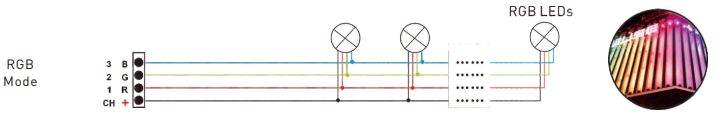
5. Wiring Diagram:

5.1 Connecting LED lights:

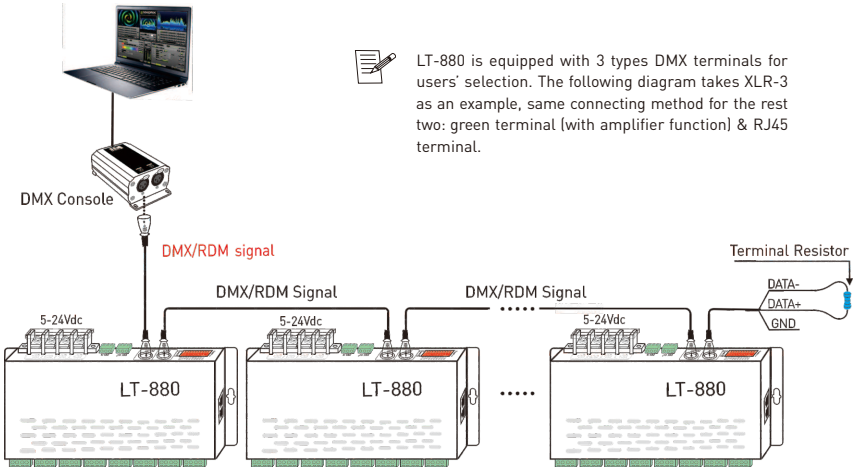








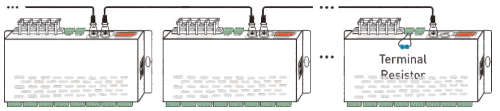
5.2 DMX console connection:



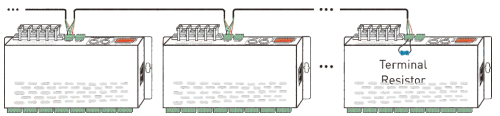
LT-880 is equipped with 3 types DMX terminals for users' selection. The following diagram takes XLR-3 as an example, same connecting method for the rest two: green terminal (with amplifier function) & RJ45 terminal.

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

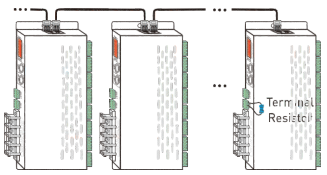
5.3 The connection diagram of three DMX terminals:



XLR-3 Connected in Parallel



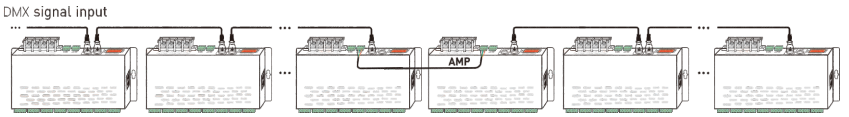
Green Terminal Connected in Parallel



RJ45 Connected in Parallel

These 3 terminals can be connected in a mixed way.

5.4 The connection diagram of AMP signal amplifier terminal:



* AMP interface can be used for signal amplification when too many DMX decoder are connected or signal line is too long, signal amplification should be no more than 5 times continuously.