

ORL-DMX-8048

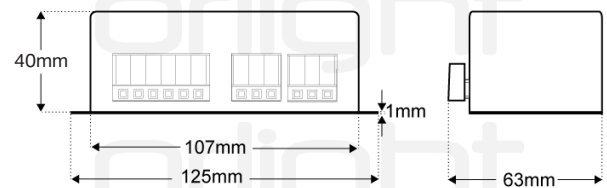
ITEM NO. DRIVER - 14063

DMX-8048 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).

Equipped with DMX standard XLR-3, green terminal interface. Realize 0-100% dimming or different lighting effect; workable with single colour, bi-colour or RGB LED lamps.



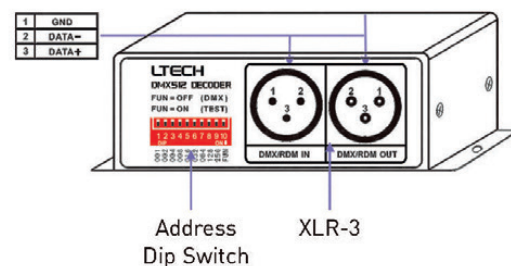
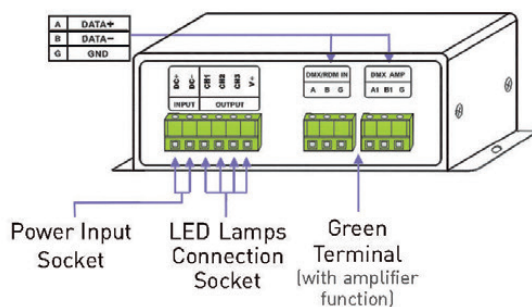
Dimensions



Technical Specification

Model	ORL-DMX-8048
Input Signal	DMX512, RDM
Input Voltage	12~48Vdc
Current Load	4Ax3CH Max. 12A
Output Power	Max. 144W/432W/576W(12V/36V/48V)
DMX512 Socket	XLR-3, Green Terminal
Dimming Range	0 ~100%
Working Temperature	-30°C ~65°C
Package Size	L135xW70xH50(mm)
Weight (G.W.)	305g

Configuration Diagram

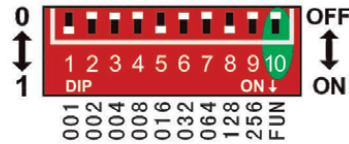


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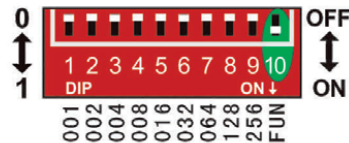
Dip Switch Operation



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



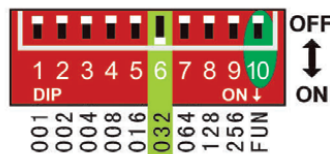
Self-testing Mode: FUN=ON (the 10th dip switch=ON)

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.



$001+004+032=37$



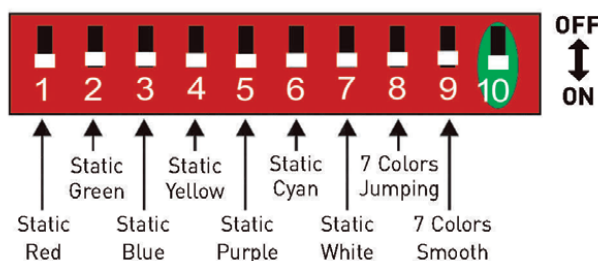
$002+016+032+128=178$

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.

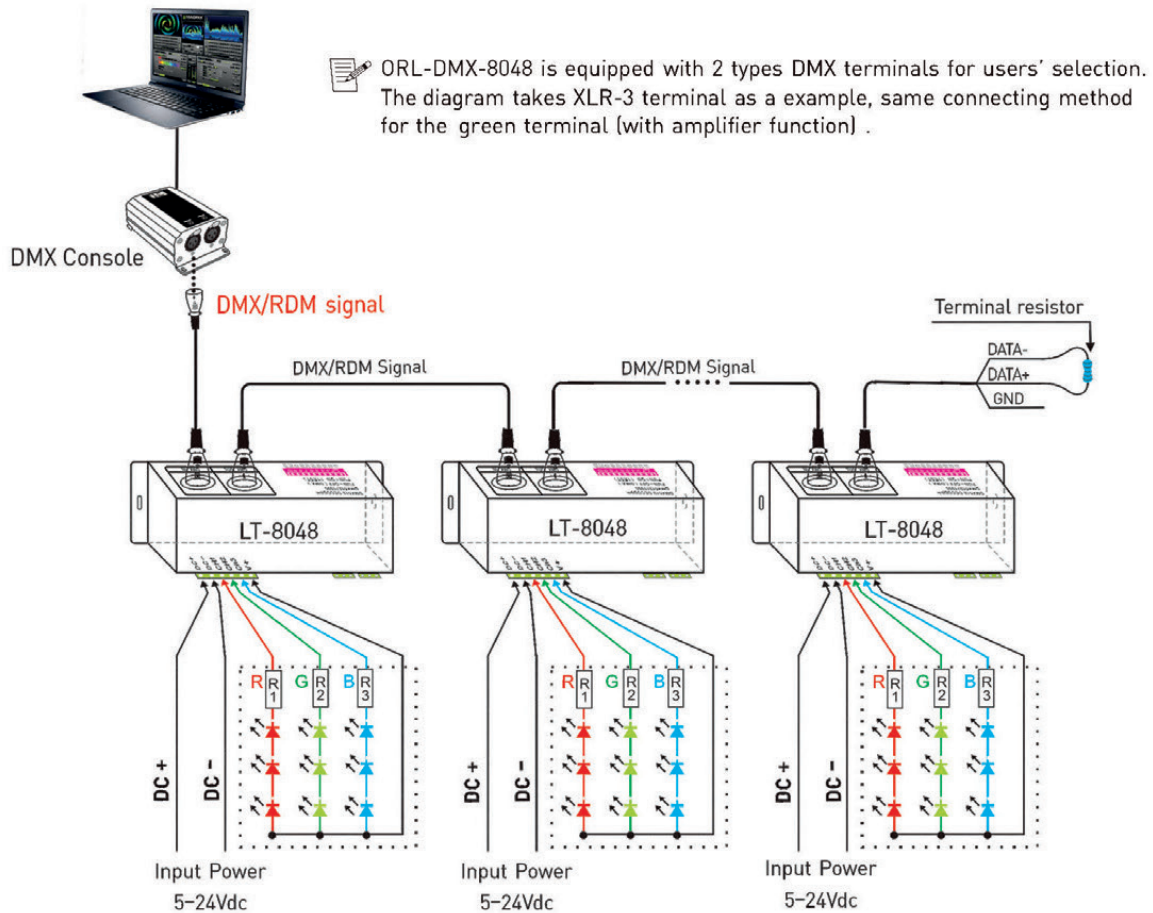
As the figure above shows, the effect will be 7 colors smooth at 7 speed level.

DMX Dimming Instruction:

Each ORL-DMX-8048 DMX decoder occupied 3 DMX addresses when connecting the DMX console. e.g., the defaulted initial address is 1, please find their corresponding relationships in the form.

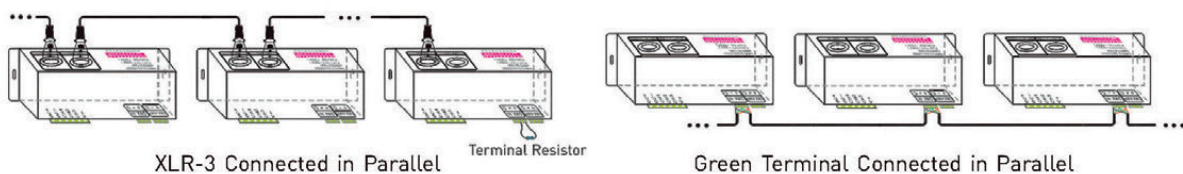
DMX Console	DMX Decoder
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)

Decoder can be connected to a variety of standard DMX512 devices:



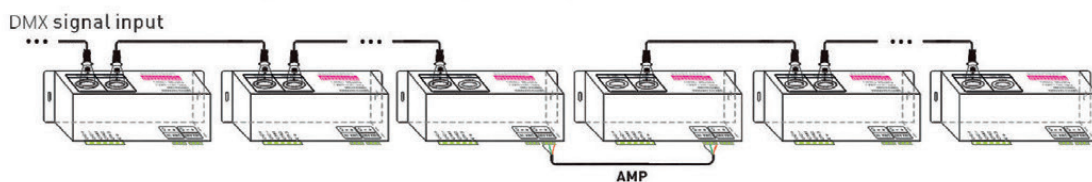
- * If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.
- * An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

The connection diagram of two DMX terminals:



These 2 terminals can be connected in a mixed way.

The connection diagram of AMP signal amplifier terminal:



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

Attention

- 1 The product shall be installed and serviced by the qualified person.
- 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.
- 3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 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 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7 If a fault occurs, please return the product to your supplier. Do not attempt to fix this product by yourself.