LTECH

DMX512 DECODER

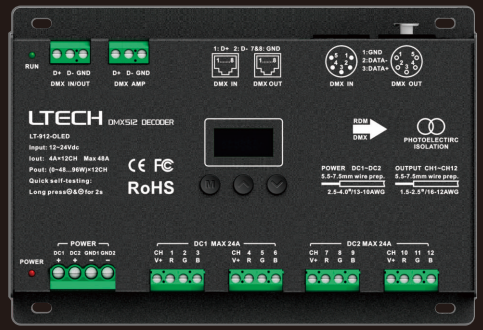
LT-912-OLED

12 CHANNELS

- OLED display
- 8 bit / 16 bit
- 3 kinds of DMX interfaces
- Dimming Curve: 0.1-9.9
- Shortcut / Over load protection

RDM DMX

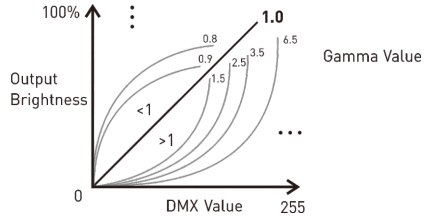
Photoelectric Isolation



www.ltech-led.com

Product Introduction:

1. Designed for Hi-power multiple channels application, 12 channels output, and Max. 4A current per channel, up to 1152W output power.
2. Easy operation with OLED screen and the touch buttons.
3. 3 kinds of mode optional: single color, color temperature, RGB.
4. Support 3 kinds of DMX ports with signal isolation function: 5-pin XLR, RJ45 and green terminal (with signal amplifier function).
5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognization, etc.
6. With photoelectric isolation function.
7. With shortcut protection and over load protection, as well as warning function when fault.
8. With fast self-testing function.
9. 16bit / 8bit resolution optional.
10. Multiple dimming curve (0.1~9.9) optional.



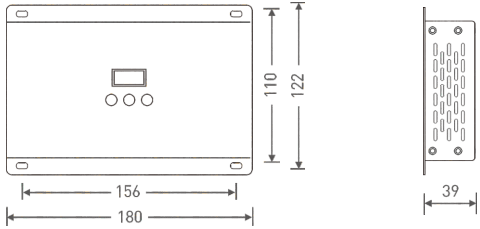
Technical Specs:

Model :	LT-912-OLED
Input Signal :	DMX512/RDM
Input Voltage :	12~24Vdc
Current Load :	4A × 12CH Max 48A
Output Power :	(0~48W...96W) × 12CH Max. 1152W
DMX Interface :	5-pin XLR, RJ45, Green terminal
Control Mode :	Dimming/CT/RGB
Dimming Curve :	0.1~9.9
Grey Level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation :	Yes
Protection:	Shortcut / Over load
Working Temperature :	-30℃~65℃
Dimensions :	L180×W122×H39mm
Package Size :	L193×W127×H41mm
Weight (G.W.) :	700g

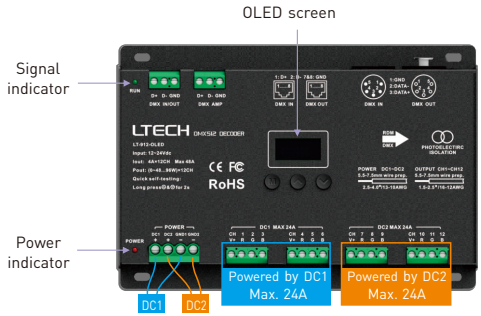
FC CE RoHS warranty 5 years ISO9001:2008

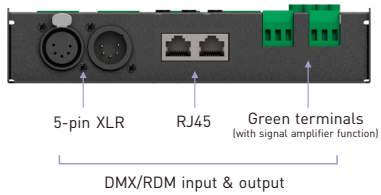
Product Size:

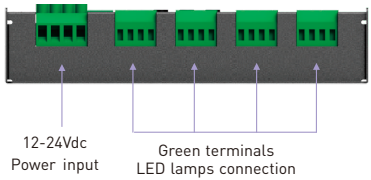
The Unit: mm



Main Component Description:



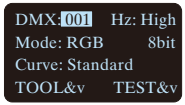




OLED Screen Interface:

Press "M" key, switch entries.
Press "^" or "v" key, parameter adjustment.
Long press "M" key, back to main page.
Exit: back to previous page.

1. DMX Address Setting



Main page

Press "^" or "v" key to set DMX address.
Range: 1~512

2. PWM Frequency

Press "^" or "v" key to switch frequency.
Optional: High
Std (standard)
Mid (middle)
Low

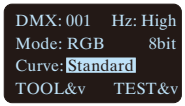
3. Mode

Press "^" or "v" key to switch mode.
Optional : Dim
CT
RGB

4. Resolution

Press "^" or "v" key to switch resolution.
Optional : 8bit
16bit

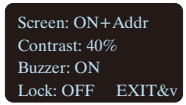
5. Dimming Curve



Press "^" or "v" key to switch dimming curve.
Optional : Standard
Linear
0.1~9.9

6. Tool

Press "^" or "v" key to enter submenu.

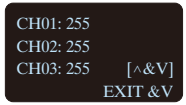


EXIT
(Press"v" key)

Screen lock: set Lock: ON, screen will be locked if unmanned operation for 2 min, press "M" key for 3s to unlock.

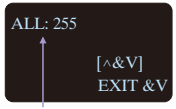
7. Test

Press "^" or "v" key to enter submenu.



Press"v" to exit

Brightness setting (range: 0~255)
Press"^" or "v" to next page

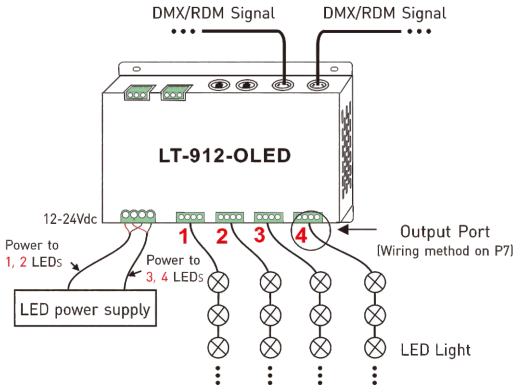


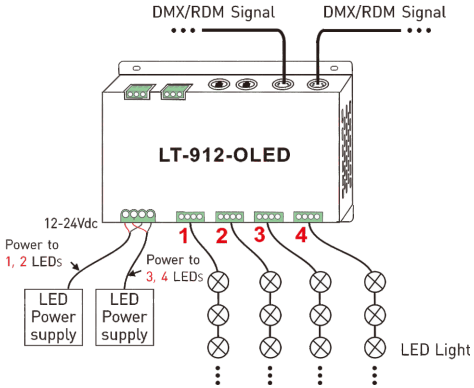
Change all value simultaneously (on the last page)

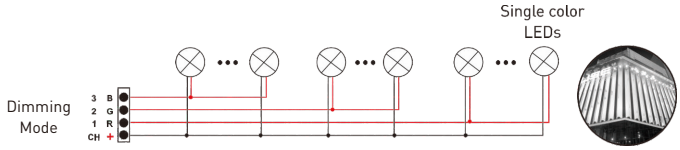
* Fast self-testing function: press "^"or "v" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

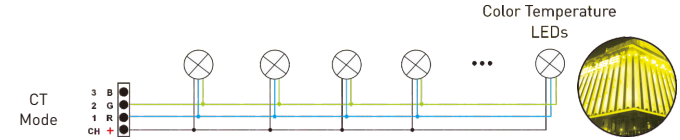
Wiring diagram:

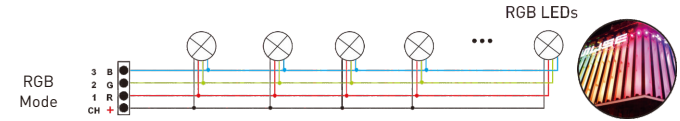
1 Connecting LED lights:



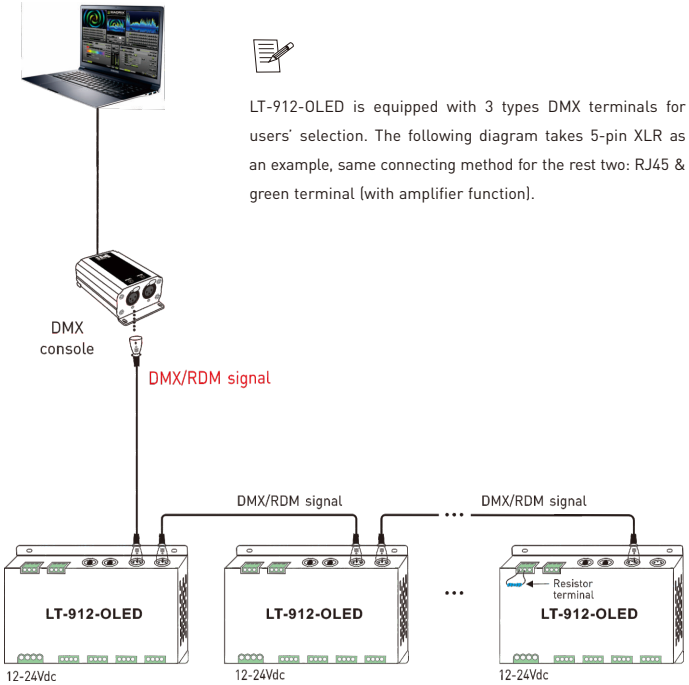








2. DMX console connection:

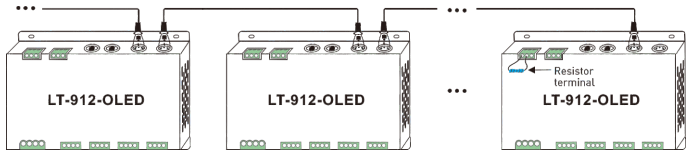


LT-912-OLED is equipped with 3 types DMX terminals for users' selection. The following diagram takes 5-pin XLR as an example, same connecting method for the rest two: RJ45 & green terminal (with amplifier function).

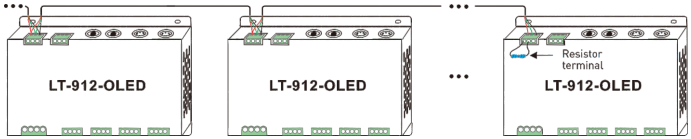
* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

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

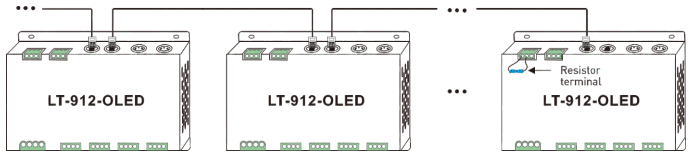
3. The connection diagram of 3 kinds of DMX/RDM terminals:



5-pin XLR Connected in Parallel



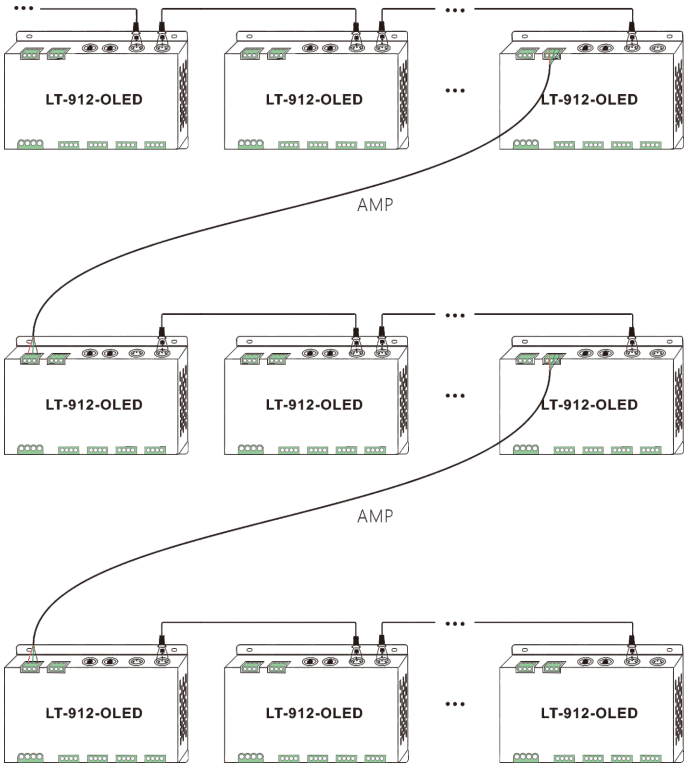
Green Terminal Connected in Parallel



RJ45 Connected in Parallel

These 3 terminals can be connected in a mixed way.

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.

Address setting table

Mode		DIM	CT	RGB
Address Quantity		4	8	12
Resolution		8bit	8bit	8bit
Channel	1	001	001	001
	2	001	002	002
	3	001	002	003
	4	002	003	004
	5	002	004	005
	6	002	004	006
	7	003	005	007
	8	003	006	008
	9	003	006	009
	10	004	007	010
	11	004	008	011
	12	004	008	012

Mode		DIM	CT	RGB
Address Quantity		8	16	24
Resolution		16bit	16bit	16bit
Channel	1	001 002	001 002	001 002
	2	001 002	003 004	003 004
	3	001 002	003 004	005 006
	4	003 004	005 006	007 008
	5	003 004	007 008	009 010
	6	003 004	007 008	011 012
	7	005 006	009 010	013 014
	8	005 006	011 012	015 016
	9	005 006	011 012	017 018
	10	007 008	013 014	019 020
	11	007 008	015 016	021 022
	12	007 008	015 016	023 024

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.

Warranty Agreement:

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.
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.
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.
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.

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