

DMX512 DECODER

ELC 32CH DMX RDM

32
CHANNEL

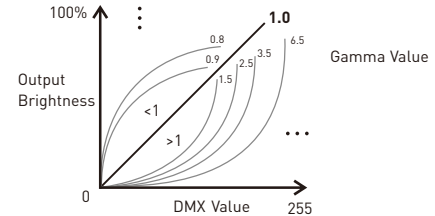
OLED display
8 bit / 16 bit
4 kinds of DMX interfaces
Dimming Curve: 0.1-9.9
Short circuit / Over load protection



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Product Introduction:

1. Designed for Hi-power multiple channels application, 32 channels output, and Max. 3A current per channel, up to 2304W output power.
2. Easy operation with OLED screen and the touch buttons.
3. 4 kinds of mode optional: single color, color temperature, RGB, RGBW.
4. Support 4 kinds of DMX ports with signal isolation function: 3-pin XLR, 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 recognition, etc.
6. With photoelectric isolation function.
7. With short circuit protection and over load protection, as well as warning function when fault.
8. With fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.
10. Multiple dimming curve (0.1-9.9) optional.



3-pin XLR



5-pin XLR



RJ45



RDM



Photoelectric Isolation



Short circuit Protection



Over load Protection



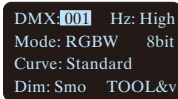
Display

OLED Screen Interface:



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

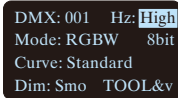
1. DMX Address Setting



Main page

Press "^" or "v" key to set DMX address.
 Range: 001-512

2. PWM Frequency

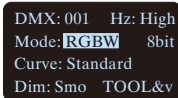


Press "^" or "v" key to choose.

Optional : Std (standard) High Mid (middle) Low

Smooth and delicate, human eye is comfortable. * It is recommended to use standard. No flicker in video camera.

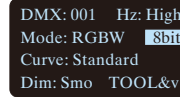
3. Mode



Press "^" or "v" key to choose.

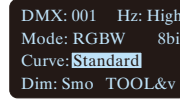
Optional : Dim CT RGB RGBW

4. Grey Level



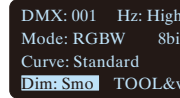
Press "^" or "v" key to choose.
 Optional : 8bit 16bit (choose it if the master controller support this function)

5. Dimming Curve



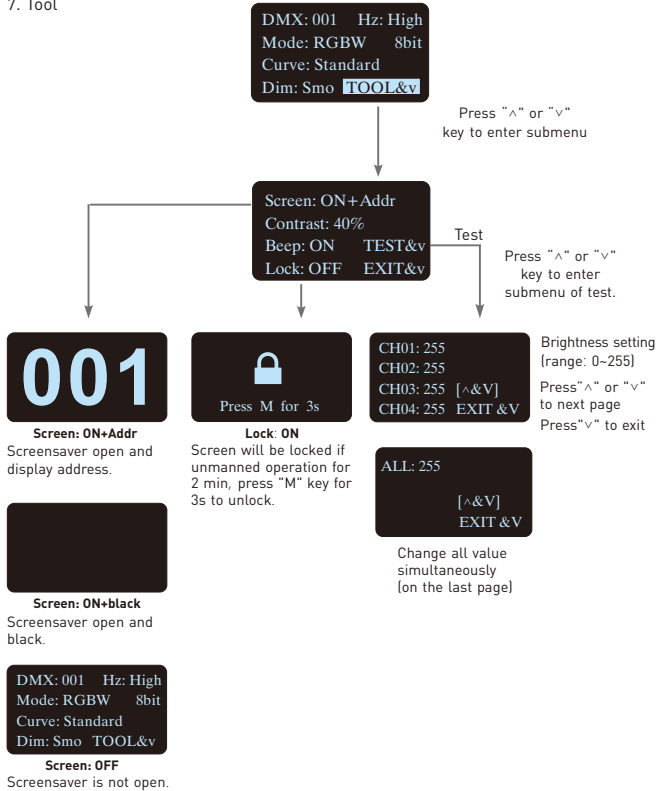
Press "^" or "v" key to choose.
 Optional : Standard Linear 0.1-9.9
 It is recommended to use standard, 0.1-9.9 is for special requirements.

6. Enhance Dimming



Press "^" or "v" key to choose.
 Optional : Std (standard) Smo (smooth)
 * It is recommended to use standard.
 Smo: This option with smooth processing, realize the dimming flicker-free and dynamic effects more downy.

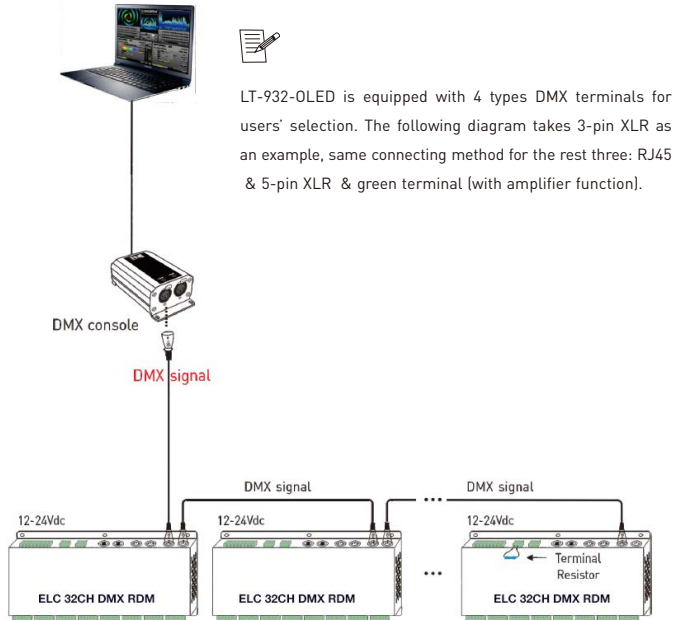
7. Tool



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

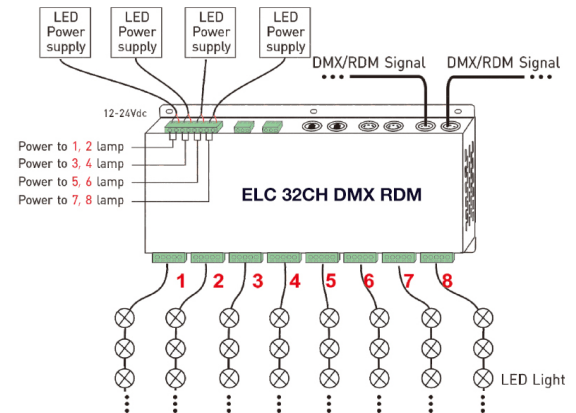
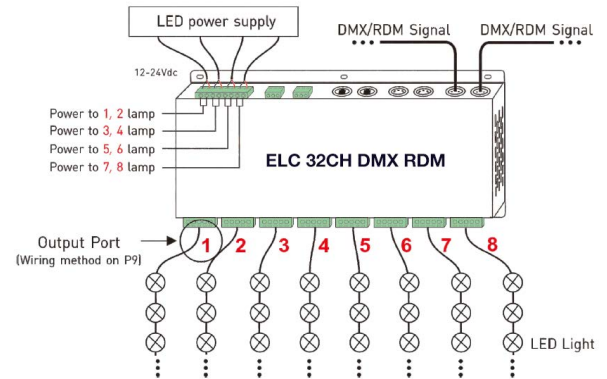
Wiring Diagram:

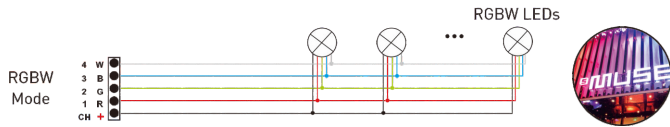
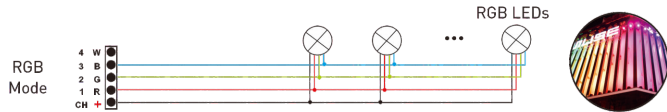
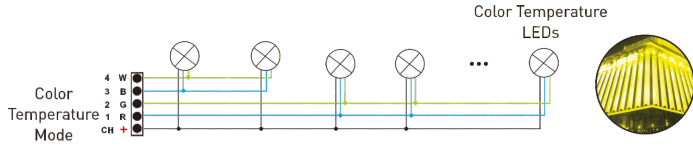
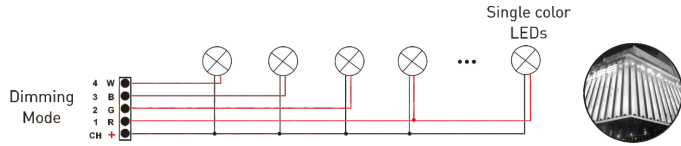
1. DMX console connection:



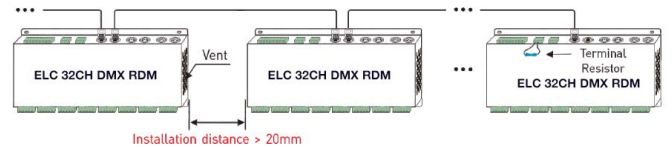
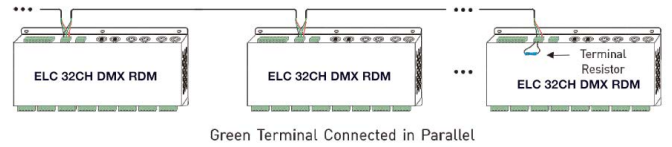
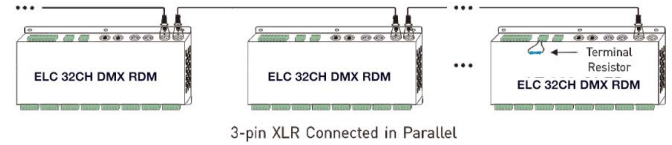
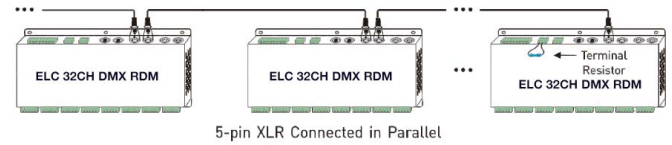
* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

2. Connecting LED lights:





3. The connection diagram of 4 kinds of DMX/RDM terminals:



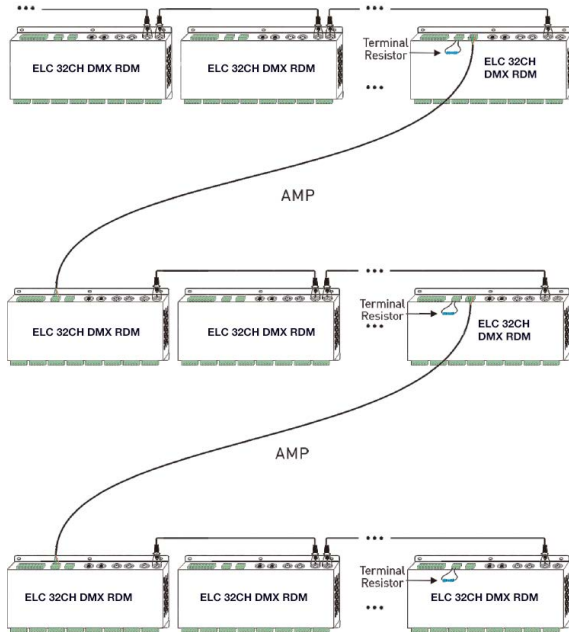
RJ45 Connected in Parallel

These 4 terminals can be connected in a mixed way.

* **Installation Attention** : please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or will affect lifetime of decoder for poor heat dissipation.

4. The connection diagram of AMP signal amplifier terminal:

Connecting with green terminal or an extra amplifier will be needed when more than 32 decoders are connected or use overlong signal wire(as shown below). Signal amplifier should not be more than 5 times continuously.



Address setting table

| Mode | DIM | CT | RGB | RGBW | |
|------------------|------|------|------|------|-----|
| Address Quantity | 8 | 16 | 24 | 32 | |
| Resolution | 8bit | 8bit | 8bit | 8bit | |
| Channel | 1 | 001 | 001 | 001 | 001 |
| | 2 | 001 | 002 | 002 | 002 |
| | 3 | 001 | 001 | 003 | 003 |
| | 4 | 001 | 002 | 003 | 004 |
| | 5 | 002 | 003 | 004 | 005 |
| | 6 | 002 | 004 | 005 | 006 |
| | 7 | 002 | 003 | 006 | 007 |
| | 8 | 002 | 004 | 006 | 008 |
| | 9 | 003 | 005 | 007 | 009 |
| | 10 | 003 | 006 | 008 | 010 |
| | 11 | 003 | 005 | 009 | 011 |
| | 12 | 003 | 006 | 009 | 012 |
| | 13 | 004 | 007 | 010 | 013 |
| | 14 | 004 | 008 | 011 | 014 |
| | 15 | 004 | 007 | 012 | 015 |
| | 16 | 004 | 008 | 012 | 016 |
| | 17 | 005 | 009 | 013 | 017 |
| | 18 | 005 | 010 | 014 | 018 |
| | 19 | 005 | 009 | 015 | 019 |
| | 20 | 005 | 010 | 015 | 020 |
| | 21 | 006 | 011 | 016 | 021 |
| | 22 | 006 | 012 | 017 | 022 |
| | 23 | 006 | 011 | 018 | 023 |
| | 24 | 006 | 012 | 018 | 024 |
| | 25 | 007 | 013 | 019 | 025 |
| | 26 | 007 | 014 | 020 | 026 |
| | 27 | 007 | 013 | 021 | 027 |
| | 28 | 007 | 014 | 021 | 028 |
| | 29 | 008 | 015 | 022 | 029 |
| | 30 | 008 | 016 | 023 | 030 |
| | 31 | 008 | 015 | 024 | 031 |
| | 32 | 008 | 016 | 024 | 032 |

| Mode | DIM | CT | RGB | RGBW |
|------------------|-------|---------|---------|---------|
| Address Quantity | 16 | 32 | 48 | 64 |
| Resolution | 16bit | 16bit | 16bit | 16bit |
| Channel | 1 | 001 002 | 001 002 | 001 002 |
| | 2 | 001 002 | 003 004 | 003 003 |
| | 3 | 001 002 | 001 002 | 005 005 |
| | 4 | 001 002 | 003 004 | 005 007 |
| | 5 | 003 004 | 005 006 | 007 009 |
| | 6 | 003 004 | 007 008 | 009 010 |
| | 7 | 003 004 | 005 006 | 011 013 |
| | 8 | 003 004 | 007 008 | 011 014 |
| | 9 | 005 006 | 009 010 | 013 014 |
| | 10 | 005 006 | 011 012 | 015 016 |
| | 11 | 005 006 | 009 010 | 017 018 |
| | 12 | 005 006 | 011 012 | 017 018 |
| | 13 | 007 008 | 013 014 | 019 020 |
| | 14 | 007 008 | 015 016 | 021 022 |
| | 15 | 007 008 | 013 014 | 023 024 |
| | 16 | 007 008 | 015 016 | 023 024 |
| | 17 | 009 010 | 017 018 | 025 026 |
| | 18 | 009 010 | 015 020 | 027 028 |
| | 19 | 009 010 | 017 018 | 029 030 |
| | 20 | 009 010 | 019 020 | 029 030 |
| | 21 | 011 012 | 021 022 | 031 032 |
| | 22 | 011 012 | 023 024 | 033 034 |
| | 23 | 011 012 | 021 022 | 035 036 |
| | 24 | 011 012 | 023 024 | 035 036 |
| | 25 | 013 014 | 025 026 | 037 038 |
| | 26 | 013 014 | 027 028 | 039 040 |
| | 27 | 013 014 | 025 026 | 041 042 |
| | 28 | 013 014 | 027 028 | 041 042 |
| | 29 | 015 016 | 029 030 | 043 044 |
| | 30 | 015 016 | 031 032 | 045 046 |
| | 31 | 015 016 | 029 030 | 047 048 |
| | 32 | 015 016 | 031 032 | 047 048 |