32 CHANNEL

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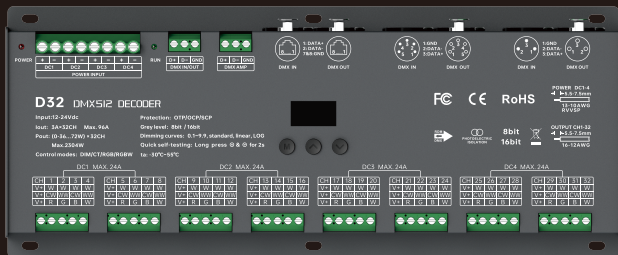8 bit / 16 bit
4 kinds of DMX interfaces
Dimming Curve: 0.1~9.9
Short circuit / Over current / Overheat protection

D32

DMX512 DECODER

D32 DMX512 DECODER

POWER INPUT

DC1 DC2 DC3 DC4

RUN

D+ D- GND
DMX IN/OUT

D+ D- GND
DMX AMP

DATA 1.DATA-
3.R/DMX+ 4.N/DMX-
DMX IN

DMX OUT

1.GND
2.DATA-
3.DATA+
DMX IN

DMX OUT

1.GND
2.DATA-
3.DATA+
DMX IN

DMX OUT

POWER DC1-4
+: 3.5-7.5mm
-: 13-18AWG
RVVSP

Input:12-24vdc
Iout: 3A×32CH   Max.96A
Pout: 10-36₁₁₁72W) +32CH
Max.2304W
Control modes: DIM/CT/RGB/RGBW

Protection: OTP/OCP/SCP
Grey level: 8bit / 16bit
Dimming curves: 0.1~9.9, standard, linear, LOG
Quick self-testing: Long press ① & ② for 2s
ta: -40℃~65℃

FC CE RoHS

PHOTOELECTRIC ISOLATION

8bit
16bit

OUTPUT CH1-32
+: 3.5-7.5mm
-: 13-12AWG

DC1 MAX. 24A

DC2 MAX. 24A

DC3 MAX. 24A

DC4 MAX. 24A

RDM ➡ DMX

FC CE RoHS

Photoelectric isolation

5-year warranty

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 touch buttons.

3. 4 kinds of control modes available: DIM, CT, RGB, RGBW.

4. 3-pin XLR, 5-pin XLR, RJ45 and green terminal DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability, the green terminal also has signal amplifier function.

5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & settings, DMX address settings, equipment recognition, etc.

6. With firmware upgrade function.

7. With short circuit, over current and overheat protection, as well as warning function when a fault occurs.

8. With power-on state management and fast self-testing function.

9. 16bit (65536 levels) / 8bit (256 levels) grey level available.

10. Available in standard, linear, LOG or custom 0.1-9.9 dimming curve.
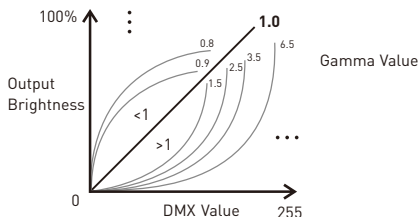
| 3-pin XLR | 5-pin XLR | RJ45 | RDM | Photoelectric isolation | Short circuit protection | Overheat protection | Over current protection | Display |

Technical specs

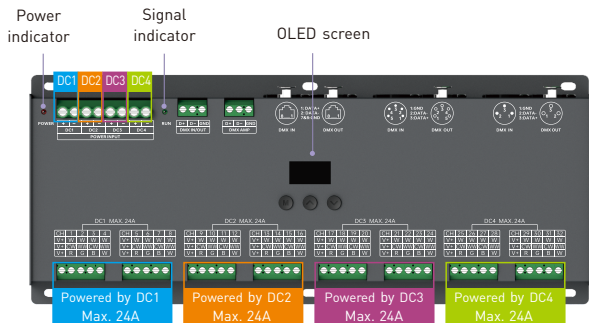|	
Model :	D32
Input signal :	DMX512/RDM
Input voltage :	12~24Vdc
Current load :	3A × 32CH Max. 96A
Output power :	(0~36W...72W) × 32CH Max. 2304W
DMX interfaces :	3-pin XLR, 5-pin XLR, RJ45, Green terminal
Control modes :	DIM/CT/RGB/RGBW
Dimming curves :	0.1~9.9, standard, linear, LOG
Grey level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric isolation :	Yes
Protection:	Short circuit / Overheat / Over current protection, recover automatically.
Working temperature :	-30℃~55℃
Dimensions :	300×122×39mm(L×W×H)
Package size :	313×127×41mm(L×W×H)
Weight (G.W.) :	1180g

RDM DMX   FC   CE   RoHS   5-Year Warranty

Product size

Unit: mm

300

Use φ4.0 screws

39

110

122

138   138
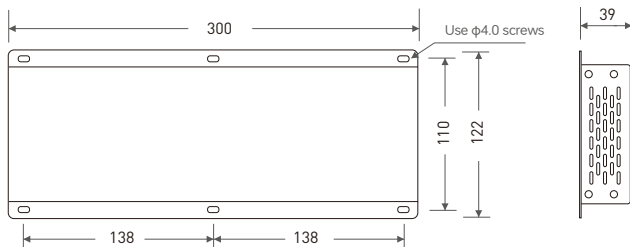
Main component description

Power indicator

Signal indicator

OLED screen

Powered by DC1 Max. 24A

Powered by DC2 Max. 24A

Powered by DC3 Max. 24A

Powered by DC4 Max. 24A

3-pin XLR   5-pin XLR   RJ45   Green terminals   12-24Vdc
                                  (with signal amplifier function)   Power input

DMX/RDM input & output

Green terminals
LED lamp connection
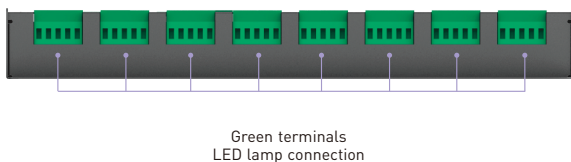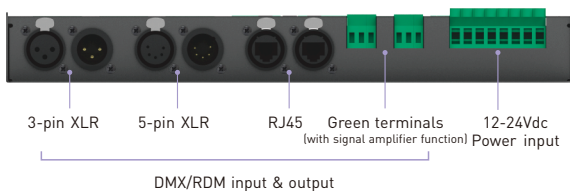
OLED screen interface

Press "M" key, switch entries.
Long press "M" key, back to main page.
Press "∧" or "∨" key, parameter adjustment.

Exit: back to previous page.

1. DMX address settings

DMX: 001   Hz: High
Mode: RGBW   8bit
Curve: Standard
Dim: Smo   TOOL&v

Main page

Press "∧" or "∨" key to set DMX address.

Range: 001~512

2. PWM frequency

DMX: 001   Hz: High
Mode: RGBW   8bit
Curve: Standard
Dim: Smo   TOOL&v

Press "∧" or "∨" key to choose.

Option :

Std (standard)
High
Mid (middle)
Low

No flicker in
video camera.

Smooth and exquisite,
human eye is comfortable.

※ It is recommended to
use standard.

3. Modes

DMX: 001   Hz: High
Mode: RGBW   8bit
Curve: Standard
Dim: Smo   TOOL&v

Press "∧" or "∨" key to choose.

Option : DIM / CT / CT2 / RGB / RGBW

4. Grey scale

DMX: 001   Hz: High
Mode: RGBW   8bit
Curve: Standard
Dim: Smo   TOOL&v

Press "∧" or "∨" key to choose.

Option : 8bit

16bit (choose it if the master
controller supports this function)

5. Dimming
   curves

DMX: 001   Hz: High
Mode: RGBW   8bit
Curve: Standard
Dim: Smo   TOOL&v

Press "∧" or "∨" key to choose.

Option : Standard

Linear

LOG

0.1~9.9

It is recommended to use standard,
0.1~9.9 is for special requirements.

4

6. Enhance
Dimming

```
DMX: 001    Hz: High
Mode: RGBW      8bit
Curve: Standard
Dim: Smo    TOOL&v
```

Press "∧" or "∨" key to choose.

Option : Std (standard)
　　　　 Smo (smooth)

＊ It is recommended to use standard.

Smo: This option with smooth processing, realizes
flicker-free dimming and smooth dynamic effects.

7. Tool

```
DMX: 001    Hz: High
Mode: RGBW      8bit
Curve: Standard
Dim: Smo   TOOL&v
```

Press "∧" or "∨"
key to enter submenu

```
Screen: ON+Addr
Contrast: 40%
Beep: ON     TEST&v
              EXIT&v
```

Press "∧" or "∨"
key to enter
submenu of test.

```
CH01: 255
CH02: 255
CH03: 255  [∧&V]
CH04: 255  EXIT &V
```

Brightness settings
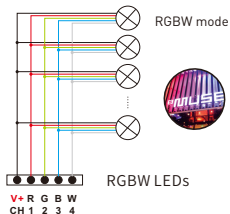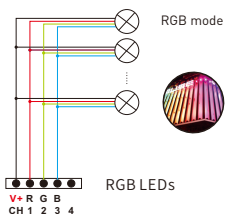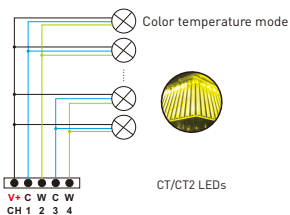(range: 0~255)
Press"∧" or "∨"
to next page
Press"∨" to exit

```
ALL: 255

          [∧&V]
          EXIT &V
```

Change all value
simultaneously
(on the last page)

001

Screen: ON+Addr
Screensaver open and display
address if undo for 2 minutes.

Screen: ON+black
Screensaver open and
black if undo for 2 minutes.

```
DMX: 001   Hz: High
Mode: RGBW     8bit
Curve: Standard
Dim: Smo   TOOL&v
```
Screen: OFF
Screensaver not enable.

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

Wiring diagram

1. Connecting LED lights:

DC 1	DC 2	DC 3	DC 4
LED driver	LED driver	LED driver	LED driver

DMX/RDM signal   DMX/RDM signal

12-24Vdc

Power to 1, 2 lamp
Power to 3, 4 lamp
Power to 5, 6 lamp
Power to 7, 8 lamp

D32

1 2 3 4 5 6 7 8

LED light

Dimming mode

Dimming LEDs

V+ W W W W
CH 1 2 3 4

Color temperature mode

CT/CT2 LEDs

V+ C W C W
CH 1 2 3 4

RGB mode

RGB LEDs

V+ R G B
CH 1 2 3 4

RGBW mode

RGBW LEDs

V+ R G B W
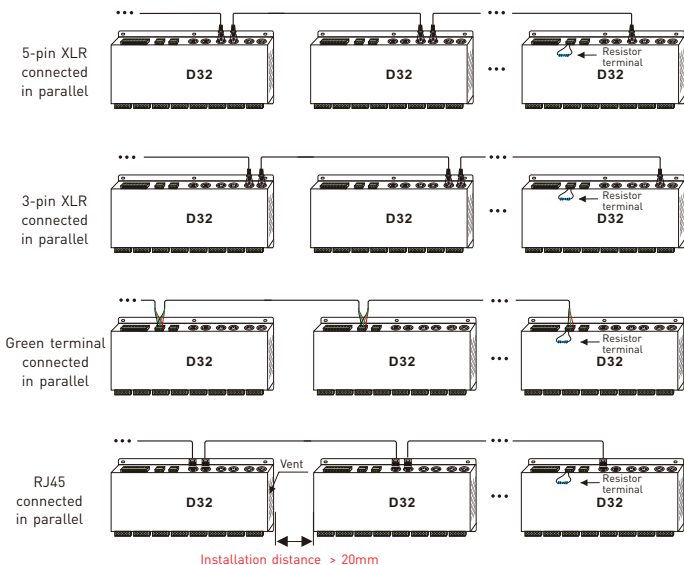CH 1 2 3 4

6
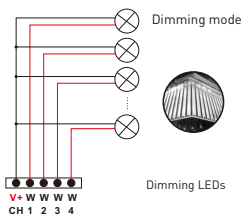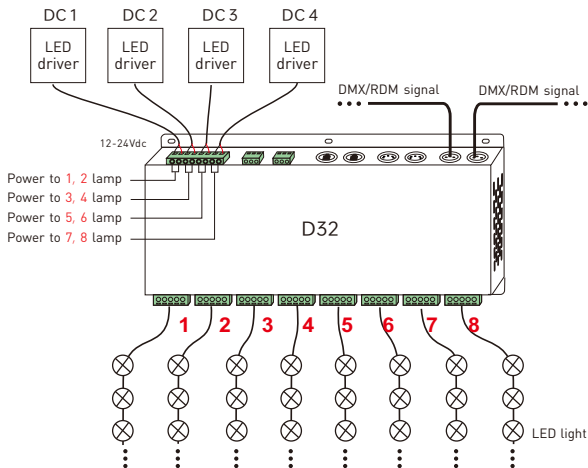
2. DMX console connection:

D32 is equipped with 4 kinds of DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest three: RJ45 & 5-pin XLR & green terminal (with amplifier function).

DMX console

DMX signal   DMX signal   DMX signal

12-24Vdc   12-24Vdc   12-24Vdc

D32   D32   D32
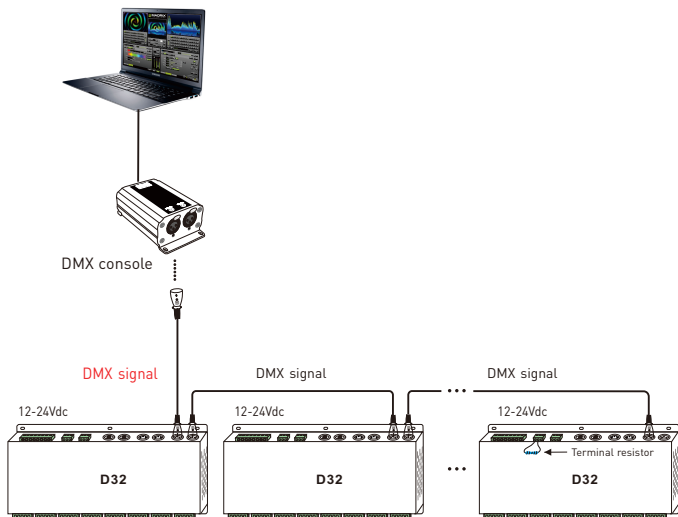
Terminal resistor

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.

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

5-pin XLR connected in parallel

3-pin XLR connected in parallel

Green terminal connected in parallel

RJ45 connected in parallel

Installation distance > 20mm

These 4 terminals can be connected in a mixed way.

Installation attentions : please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or it 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.
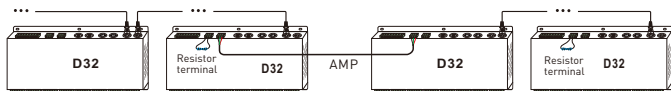
Address setting table

Mode	DIM	CT/CT2	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/CT2	RGB	RGBW
Address Quantity	16	32	48	64
Resolution	16bit	16bit	16bit	16bit
Channel 1	001 / 002	001 / 002	001 / 002	001 / 002
2	001 / 002	003 / 004	003 / 004	003 / 004
3	001 / 002	001 / 002	005 / 006	005 / 006
4	001 / 002	003 / 004	005 / 006	007 / 008
5	003 / 004	005 / 006	007 / 008	009 / 010
6	003 / 004	007 / 008	009 / 010	011 / 012
7	003 / 004	005 / 006	011 / 012	013 / 014
8	003 / 004	007 / 008	011 / 012	015 / 016
9	005 / 006	009 / 010	013 / 014	017 / 018
10	005 / 006	011 / 012	015 / 016	019 / 020
11	005 / 006	009 / 010	017 / 018	021 / 022
12	005 / 006	011 / 012	017 / 018	023 / 024
13	007 / 008	013 / 014	019 / 020	025 / 026
14	007 / 008	015 / 016	021 / 022	027 / 028
15	007 / 008	013 / 014	023 / 024	029 / 030
16	007 / 008	015 / 016	023 / 024	031 / 032
17	009 / 010	017 / 018	025 / 026	033 / 034
18	009 / 010	019 / 020	027 / 028	035 / 036
19	009 / 010	017 / 018	029 / 030	037 / 038
20	009 / 010	019 / 020	029 / 030	039 / 040
21	011 / 012	021 / 022	031 / 032	041 / 042
22	011 / 012	023 / 024	033 / 034	043 / 044
23	011 / 012	021 / 022	035 / 036	045 / 046
24	011 / 012	023 / 024	035 / 036	047 / 048
25	013 / 014	025 / 026	037 / 038	049 / 050
26	013 / 014	027 / 028	039 / 040	051 / 052
27	013 / 014	025 / 026	041 / 042	053 / 054
28	013 / 014	027 / 028	041 / 042	055 / 056
29	015 / 016	029 / 030	043 / 044	057 / 058
30	015 / 016	031 / 032	045 / 046	059 / 060
31	015 / 016	029 / 030	047 / 048	061 / 062
32	015 / 016	031 / 032	047 / 048	063 / 064

When you select CT2, the DMX address represents brightness , color temperature and constant power output respectively.

Work with RDM editor

D32 can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters and firmware upgrade by long-range setting, wiring diagram as below:
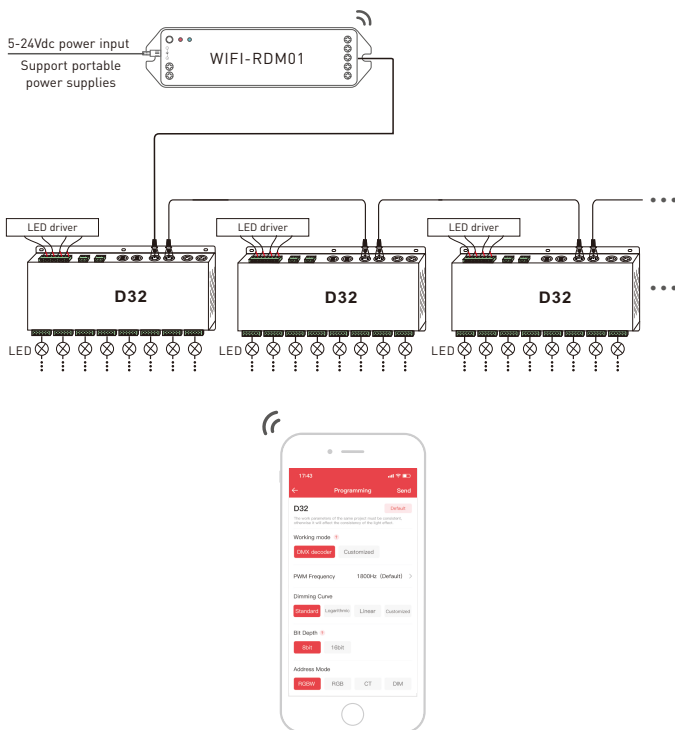
RDM editor App interface instructions

Download the App, setting the D32 parameters (frequency, bit, curve, modes, dimming range, screensaver, etc.) after well connecting the RDM editor, more details, please check the manual of WiFi-RDM01.

Well installation of products first, then working with WiFi -RDM01 to realize setting parameters and firmware upgrade by App.
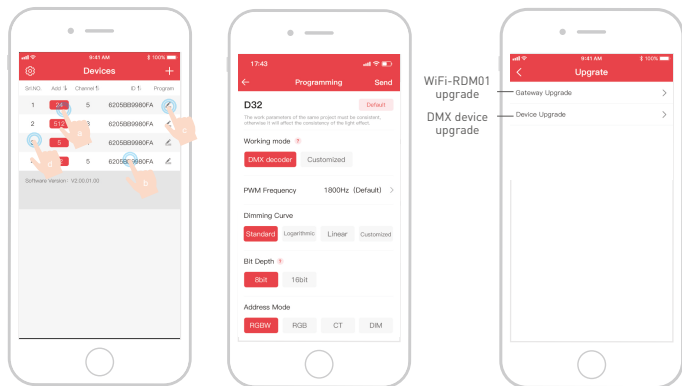
a: Click"Add", edit the address in corresponding box.
b: Click"ID", get more product details.
c: Click" ✎ ", enter edited interface.
d: Click"No.", issue the recognizing command.

Supporting WiFi-RDM01 upgrade and DMX driver upgrade.

Update Time: 12/12/2025_A0

Attention

- Product installation and commissioning should be done by a qualified professional.
- Our company products are and not lightningproof non-waterproof(special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a waterproof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:
Following conditions are not within the guarantee range of free repairing or replacement services:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by our company.

1. Repair or replacement provided is the only remedy for customers. Our company is not liable for any incidental or consequential damage unless it is within the law.
2. Our company has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

＊ This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.