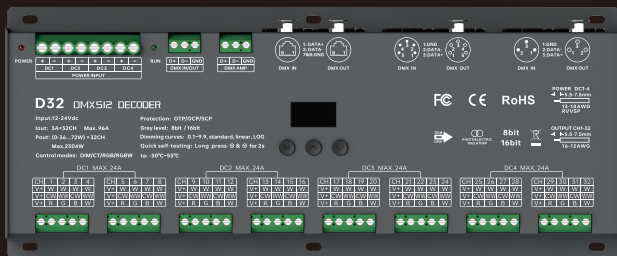


32
CHANNEL

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



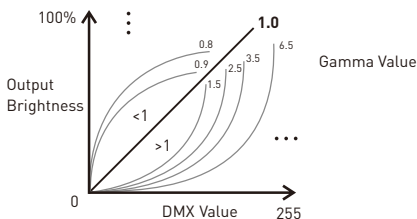
RoHS



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

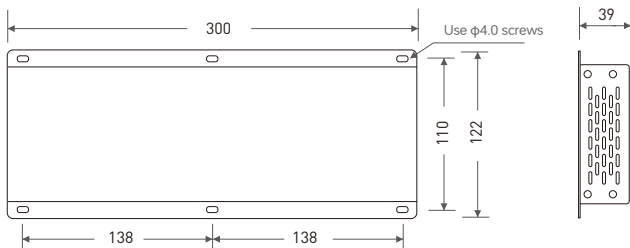
Technical specs

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°C~55°C
Dimensions :	300×122×39mm(L×W×H)
Package size :	313×127×41mm(L×W×H)
Weight (G.W.) :	1180g

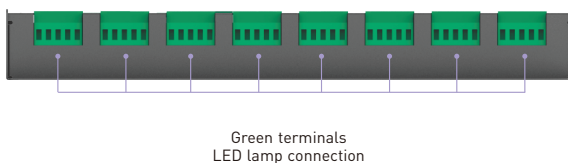
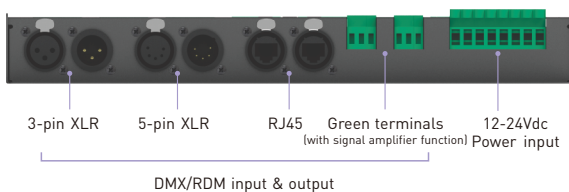
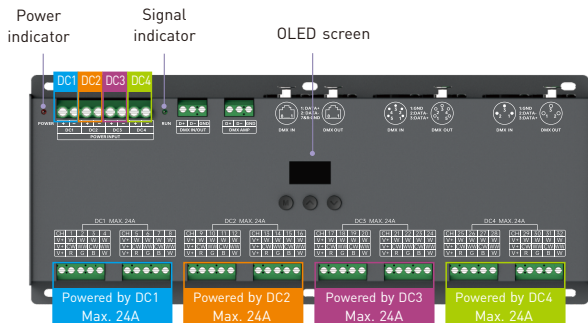


Product size

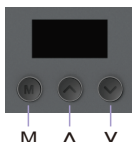
Unit: mm



Main component description



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

Smooth and exquisite, human eye is comfortable. * It is recommended to use standard.

No flicker in video camera.

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.

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.

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.

CH01: 255
CH02: 255
CH03: 255 [^&V]
CH04: 255 EXIT &V

Brightness settings
(range: 0-255)
Press "." or " " to next page
Press " " to exit

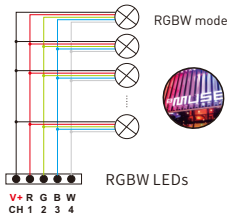
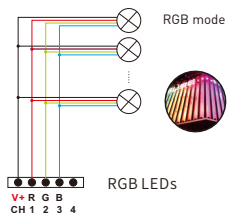
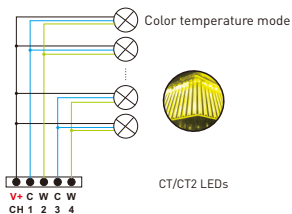
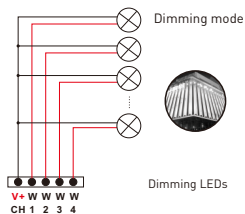
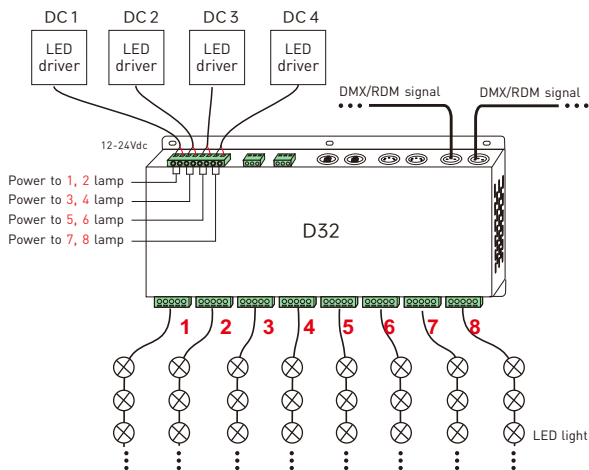
ALL: 255
[^&V]
EXIT &V

Change all value simultaneously
(on the last page)

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

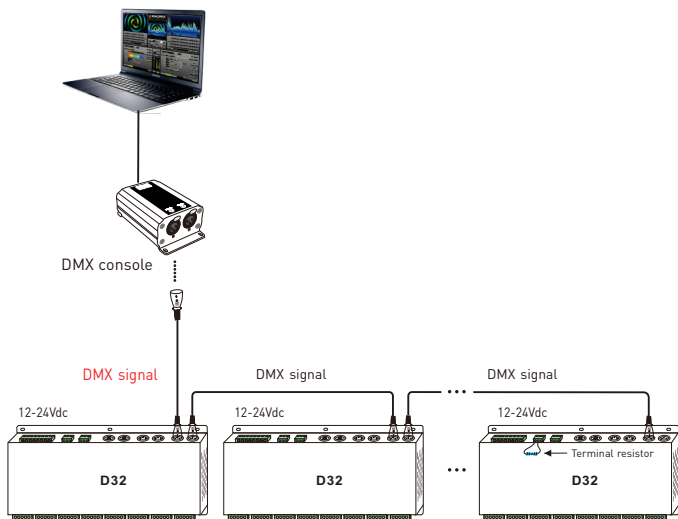
Wiring diagram

1. Connecting LED lights:



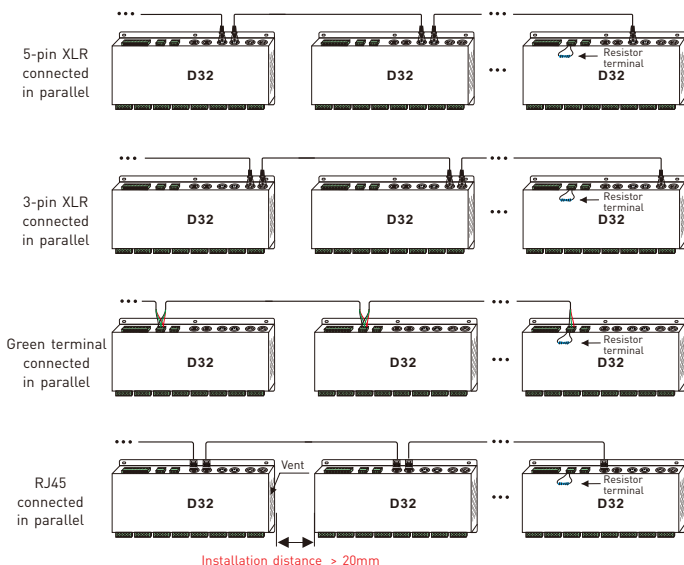
2. DMX console connection:

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).



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:

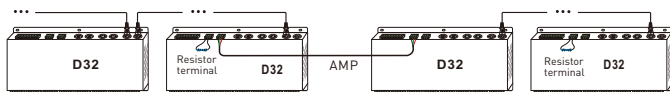


These 4 terminals can be connected in a mixed way.

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.

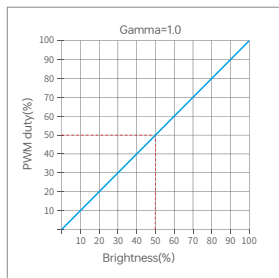


Load Parameters

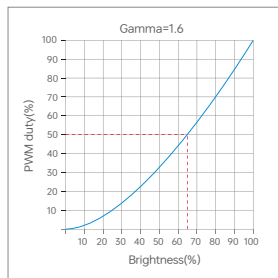
At different PWM frequencies and different voltages, the max. load current and the total power of each channel vary. Before you do the wiring, please strictly follow the load parameters in the table below to operate.

Max. current/ power Voltage	Frequency	300Hz (F=0)	600Hz (F=1)	1.2kHz (F=2)	1.5kHz (F=3)	1.8kHz (F=4)	2.4kHz (F=5)
12V		4A×32CH/1536W	4A×32CH/1536W	4A×32CH/1536W	4A×32CH/1536W	4A×32CH/1536W	4A×32CH/1536W
24V		4A×32CH/3072W	4A×32CH/3072W	4A×32CH/3072W	4A×32CH/3072W	4A×32CH/3072W	3.5A×32CH/2688W
Max. current/ power Voltage	Frequency	3.6kHz (F=6)	7.2kHz (F=7)	10.8kHz (F=8)	14.4kHz (F=9)	18kHz (F=A)	
12V		4A×32CH/1536W	3.5A×32CH/1344W	3A×32CH/1152W	3A×32CH/1152W	2.5A×32CH/960W	
24V		3.5A×32CH/2688W	3.5A×32CH/2688W	3A×32CH/2304W	3A×32CH/2304W	2.5A×32CH/1920W	

Dimming Curve Setting



Linear dimming curve



Logarithmic dimming curve

Address setting table

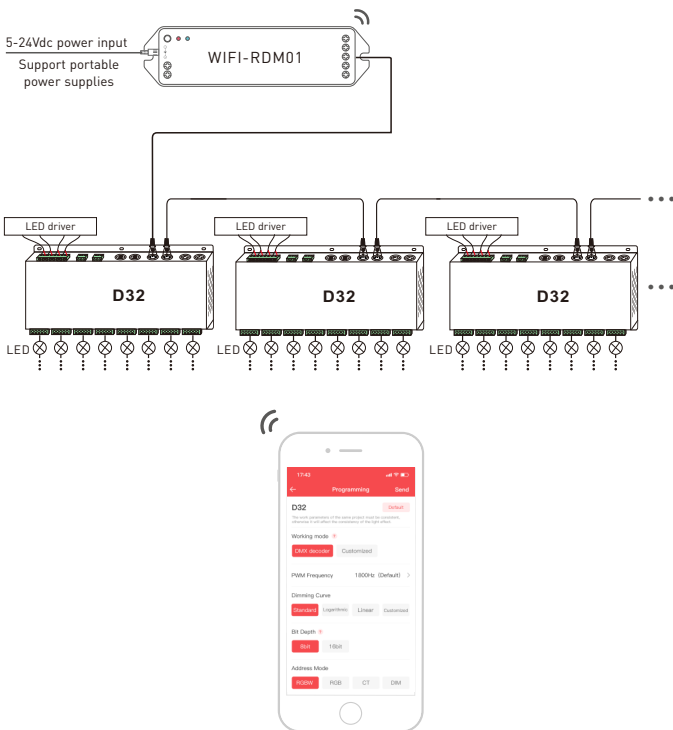
Mode	DIM	CT/CT2	RGB	RGBW
Address Quantity	8	16	24	32
Resolution	8bit	8bit	8bit	8bit
Channel	1	001	001	001
	2	001	002	002
	3	001	001	003
	4	001	002	003
	5	002	003	004
	6	002	004	005
	7	002	003	006
	8	002	004	006
	9	003	005	007
	10	003	006	008
	11	003	005	009
	12	003	006	009
	13	004	007	010
	14	004	008	011
	15	004	007	012
	16	004	008	012
	17	005	009	013
	18	005	010	014
	19	005	009	015
	20	005	010	015
	21	006	011	016
	22	006	012	017
	23	006	011	018
	24	006	012	018
	25	007	013	019
	26	007	014	020
	27	007	013	021
	28	007	014	021
	29	008	015	022
	30	008	016	023
	31	008	015	024
	32	008	016	024

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
	2	001 002	003 004	003 004
	3	001 002	001 002	005 006
	4	001 002	003 004	005 006
	5	003 004	005 006	007 008
	6	003 004	007 008	009 010
	7	003 004	005 006	011 012
	8	003 004	007 008	011 012
	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	019 020	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

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

Work with RDM editor

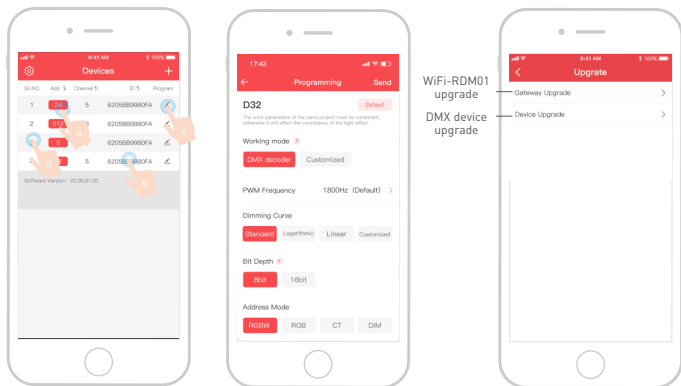
D32 can work with LITECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters and firmware upgrade by long-range setting, wiring diagram as below:



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.

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.