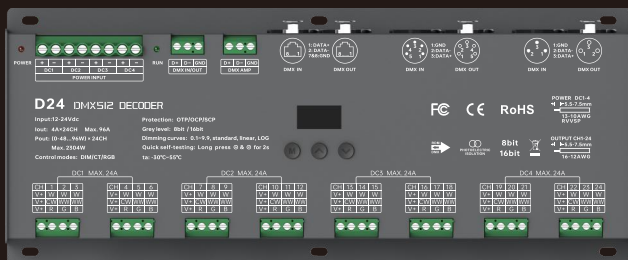


24
CHANNELS

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

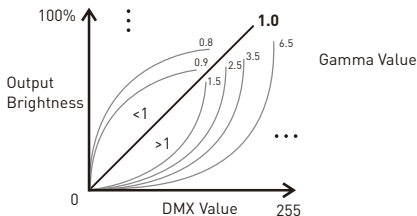
D24

DMX512 DECODER



Product introduction

1. Designed for Hi-power multiple channels application, 24 channels output, and Max. 4A current per channel, up to 2304W output power.
2. Easy operation with OLED screen and touch buttons.
3. 3 kinds of modes available: DIM, CT, RGB.
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 over temp. 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 for 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 :	D24
Input signal :	DMX512/RDM
Input voltage :	12~24Vdc
Current load :	4A × 24CH Max. 96A
Output power :	(0~48W...96W) × 24CH Max. 2304W
DMX interfaces :	3-pin XLR, 5-pin XLR, RJ45, Green terminal
Control modes :	DIM/CT/RGB
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

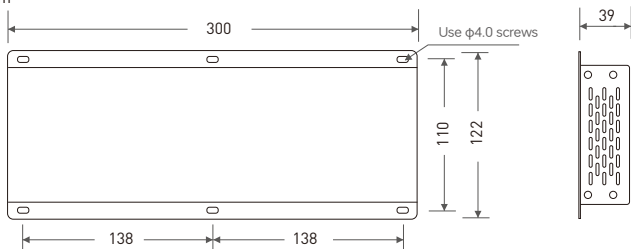


RoHS

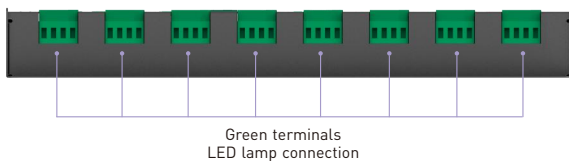
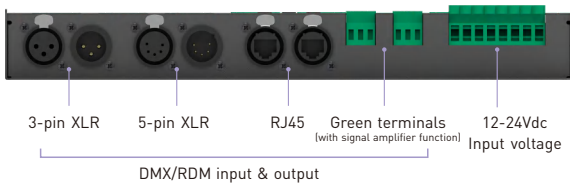
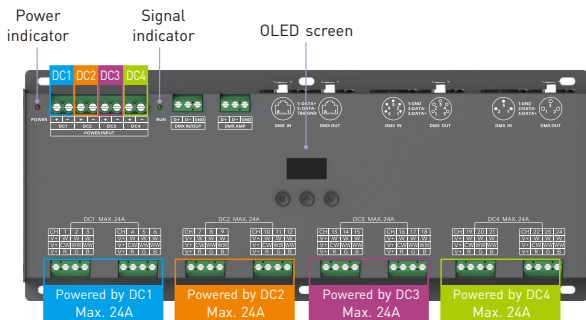
5-Year
Warranty

Product size

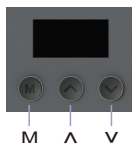
Unit: mm



Main component description

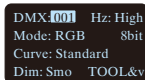


OLED screen interface



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



Main page

Press "." or " " key to set DMX address.
Range: 001~512

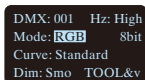
2. PWM frequency



Press "." or " " key to choose. No flicker in video camera.
Available : Std (standard)
High
Mid (middle)
Low

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

3. Modes



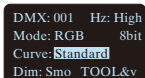
Press "." or " " key to choose.
Available : DIM
CT/CT2
RGB

4. Grey scale



Press "." or " " key to choose.
Available : 8bit
16bit (choose it if the master controller supports this function)

5. Dimming curves



Press "." or " " key to choose.
Available : 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: RGB 8bit
Curve: Standard
Dim: Smo TOOL&v

Press "." or " " key to choose.

Available : 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: RGB 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 without operating in two minutes .

Screen: ON+black

Screensaver open and black without operating in two minutes .

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

Screen: OFF

Screensaver not enable.

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

Brightness setting
(range: 0~255)
Press "." or " " to next page.
Press " " to exit.

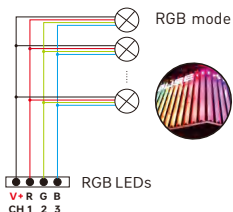
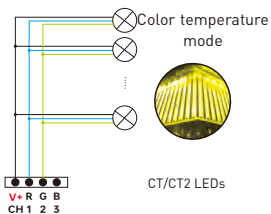
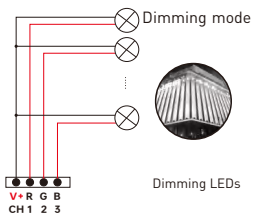
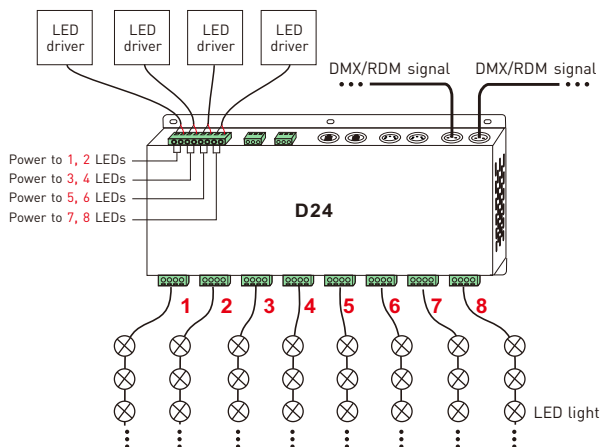
ALL: 255
[^&V]
EXIT &V

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.

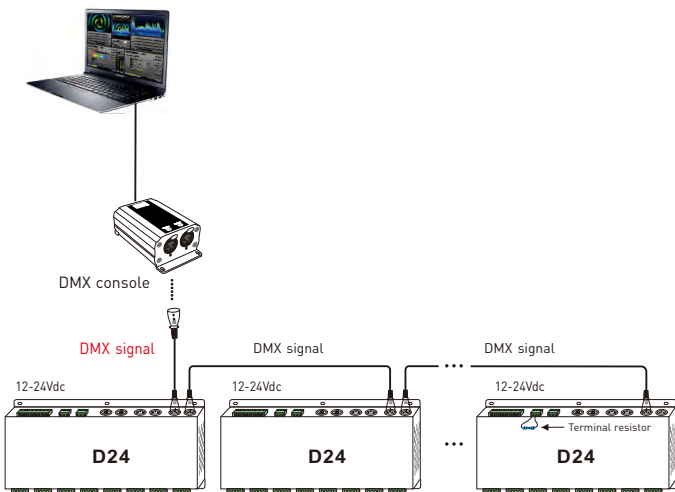
Wiring diagram

1. Connecting LED lights:



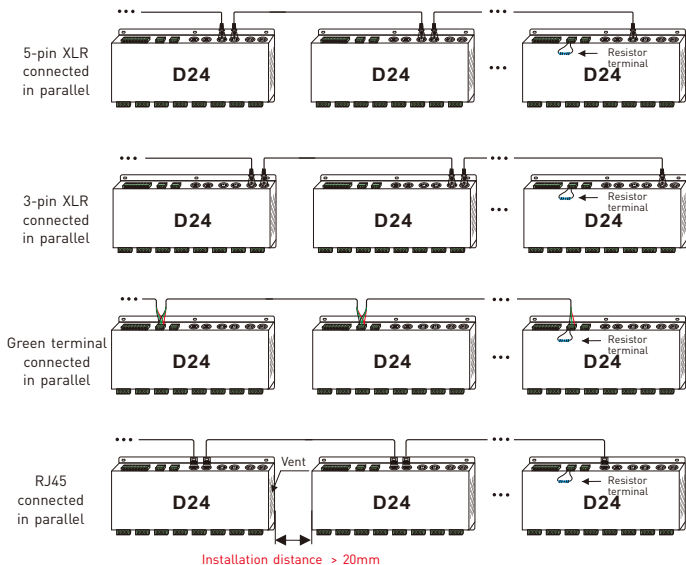
2. DMX console connection:

D24 is equipped with 3 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:

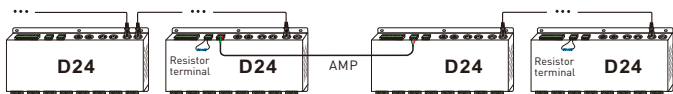


These 4 terminals can be connected in a mixed way.

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.

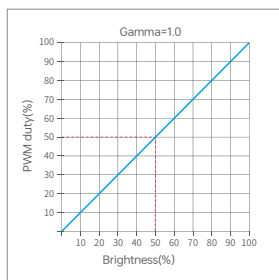


Load Parameters

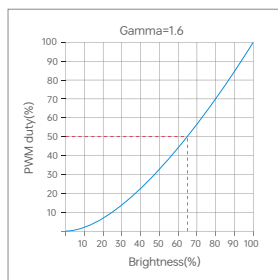
At different PWM frequencies and different voltages, the max. load current and the total power of each channel vary. Before you do the wiring, please strictly follow the load parameters in the table below to operate.

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*24CH/1152W	4A*24CH/1152W	4A*24CH/1152W	4A*24CH/1152W	4A*24CH/1152W	4A*24CH/1152W
24V		4A*24CH/2304W	4A*24CH/2304W	4A*24CH/2304W	4A*24CH/2304W	4A*24CH/2304W	4A*24CH/2304W
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*24CH/1152W	4A*24CH/1152W	3A*24CH/864W	3A*24CH/864W	3A*24CH/864W	
24V		4A*24CH/2304W	4A*24CH/2304W	3A*24CH/1728W	3A*24CH/1728W	3A*24CH/1728W	

Dimming Curve Setting



Linear dimming curve



Logarithmic dimming curve

Address setting table

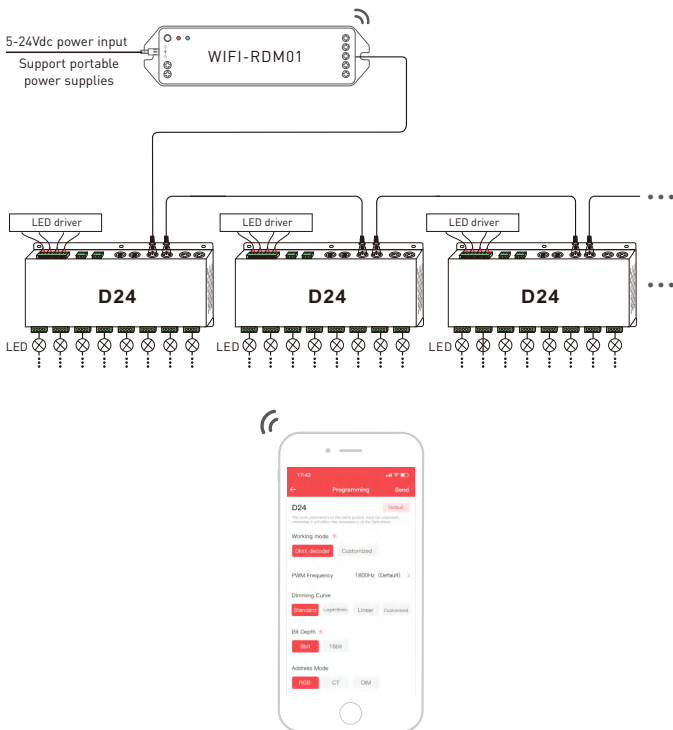
Mode	DIM	CT/CT2	RGB
Address quantity	8	16	24
Resolution	8bit	8bit	8bit
Channel	1	001	001
	2	001	002
	3	001	003
	4	002	004
	5	002	005
	6	002	006
	7	003	007
	8	003	008
	9	003	009
	10	004	010
	11	004	011
	12	004	012
	13	005	013
	14	005	014
	15	005	015
	16	006	016
	17	006	017
	18	006	018
	19	007	019
	20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

Mode	DIM	CT/CT2	RGB
Address quantity	16	32	48
Resolution	16bit	16bit	16bit
Channel	1	001 002	001 002
	2	001 002	003 004
	3	001 002	003 004
	4	003 004	005 006
	5	003 004	007 008
	6	003 004	009 010
	7	003 004	011 012
	8	005 006	013 014
	9	005 006	015 016
	10	005 006	017 018
	11	007 008	019 020
	12	007 008	021 022
	13	007 008	023 024
	14	009 010	025 026
	15	009 010	027 028
	16	009 010	029 030
	17	011 012	031 032
	18	011 012	033 034
	19	011 012	035 036
	20	013 014	037 038
	21	013 014	039 040
	22	013 014	041 042
	23	015 016	043 044
	24	015 016	045 046

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

Work with RDM editor

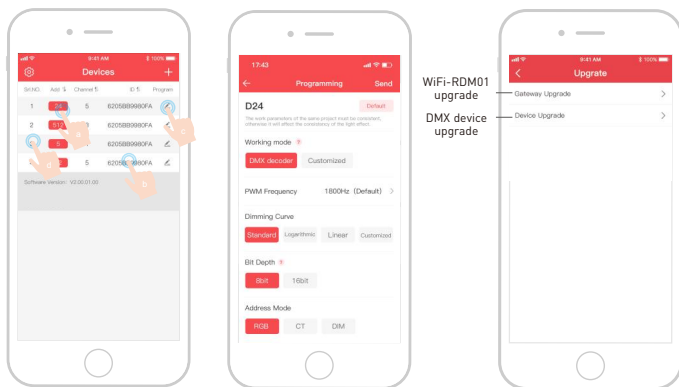
D24 can work with LITECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM editor App interface instruction

Download the App, setting the D24 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.