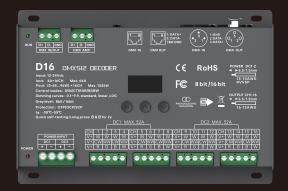
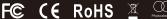


# D16 DMX512 DECODER









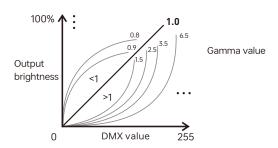






### Product introduction

- 1. Designed for Hi-power multiple channels application, 16 channels output, and Max. 4A current per channel, up to 1536W output power.
- 2. Easy operation with OLED screen and touch buttons.
- 3. 3 kinds of optional modes available: DIM, CT, RGB, RGBW.
- 4. 3-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 for standard, linear, LOG or customize 0.1-9.9 dimming curve.







**RDM** 

Photoelectric isolation











protection



### Technical specs

Model: D16

Input signal: DMX512/RDM

Input voltage : 12-24Vdc

Current load : 4A × 16CH Max. 64A

Output power: (0~60W...12W) × 12CH Max. 1440W

DMX interfaces: 3-pin XLR, RJ45, green terminal

Control modes: DIM/CT/RGB/RGBW

Dimmina curves : 0.1~9.9, standard, linear, LOG

Grev level: 8bit (256 levels) / 16bit (65536 levels)

Photoelectric isolation : Yes

Short circuit / Overheat / Over current protection. Protection:

recover automatically.

Working temperature : -30°C~55°C

Dimensions: 180×122×39mm(L×W×H) Package size : 193×127×41mm(L×W×H)

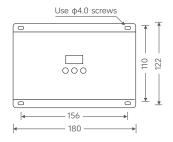
Weight (G.W.): 730g



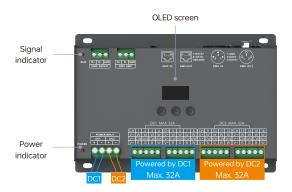


FC (E RoHS 5-Year Warranty)

#### Product size Unit: mm

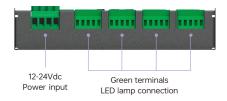


# Main component description





DMX/RDM input & output



### OLFD 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.

 DMX address settings DMX: 001 Hz: High Mode: RGBW 8bit Curve: Standard Dim: Smo TOOL&v Press " $\land$ " or " $\lor$ " key to set DMX address. Range: 001~512

Main page

2. PWM frequency

DMX: 001 Hz: High Mode: RGBW 8bit Curve: Standard Dim: Smo TOOL&v Press "∧" or "∨" key to choose. No flicker in video camera.

Std (standard)

No flicker in video camera.

High Mid (middle) Low

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

3. Modes

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

Press " $\wedge$ " or " $\vee$ " key to choose.

Option : DIM

CT/CT2 RGB

RGBW

4. Grev scale

DMX: 001 Hz: High Mode: RGBW Sbit Curve: Standard Dim: Smo TOOL&v Press "∧" or "V" 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 "V" 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

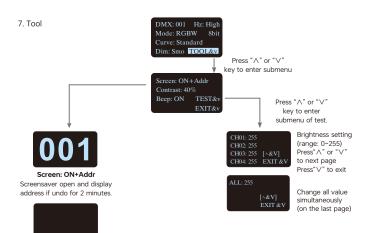


Press "∧" or "V" key to choose.

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.



Screen: ON+black Screensaver open and

black if undo for 2 minutes.

DMX: 001 Hz: High
Mode: RGB 8bit
Curve: Standard

Dim: Smo TOOL&v

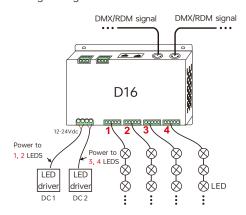
Screen: OFF

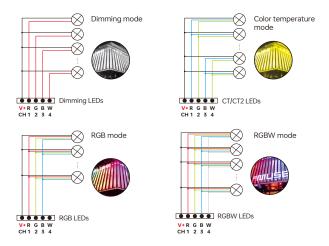
Screensaver not enable

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

# Wiring diagram

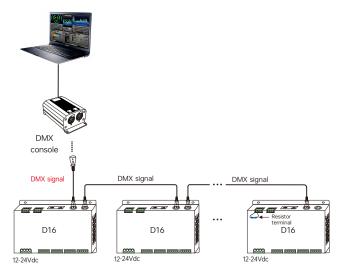
### 1. Connecting LED lights:





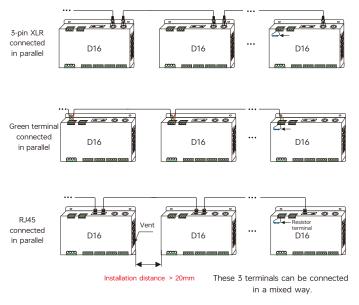
#### 2. DMX console connection:

D16 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 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 90-1200 terminal resistor at the end of each line.

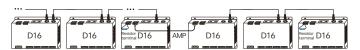
### 3. The connection diagram of 3 kinds of DMX/RDM terminals:



**Installation attention:** 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.



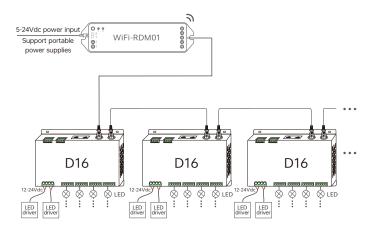
# Address setting table

Mode		DIM	CT/CT2	RGB	RGBW
Address Quantity		4	8	12	16
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	800	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

Mode		DIM	CT/CT2	RGB	RGBW
Address Quantity		8	16	24	32
Resolution		16bit	16bit	16bit	16bit
Channel	1	001	001	001	001
		002	002	002	002
	2	001	003	003	003
		002	004	004	004
	3	001	001	005	005
		002	002	006	006
	4	001	003	005	007
		002	004	006	800
	5	003	005	007	009
		004	006	800	010
	6	003	007	009	011
		004	008	010	012
	7	003	005	011	013
		004	006	012	014
	8	003	007	011	015
		004	008	012	016
	9	005	009	013	017
		006	010	014	018
	10	005	011	015	019
		006	012	016	020
	11	005	009	017	021
		006	010	018	022
	12	005	011	017	023
		006	012	018	024
	13	007	013	019	025
		008	014	020	026
	14	007	015	021	027
		800	016	022	028
	15	007	013	023	029
		800	014	024	030
	16	007	015	023	031
		800	016	024	032

## Work with RDM editor

D16 can work with LTECH 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 D16 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.
- 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.
- 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.

12 Update Time: 12/12/2025\_A0