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LTECH

LTECH D5 DMX512 Decoder

LTECH-D5-DMX512-Decoder-PRODUCT

Product introduction

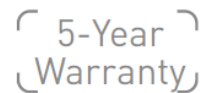
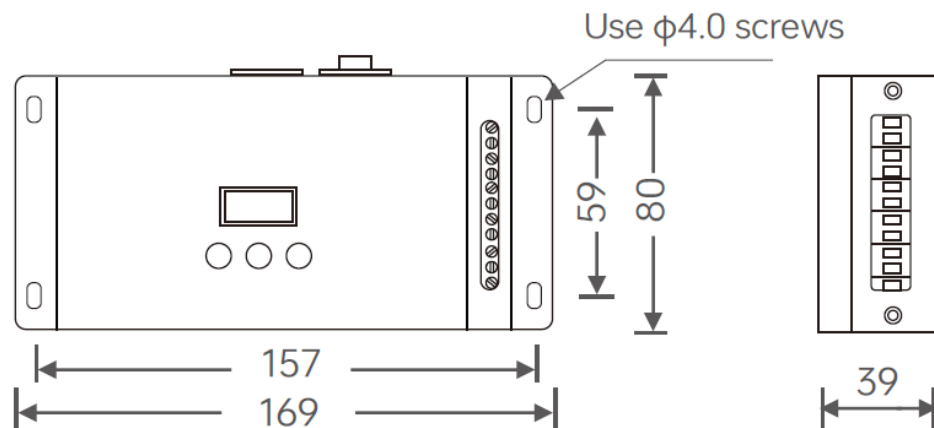
1. Designed for Hi-power multiple channels application, 5 channels output, and Max. 6A current per channel, up to 1440W output power.
2. The human-computer interaction interface is composed of an OLED screen and 3 buttons, which displays rich content and is simple and fast to operate.
3. The number of DMX channels can be set to CH01/CH02/CH03/CH04/CH05, which can realize independent address independent channel control, or one address to control multiple channels.
4. The PWM frequency can be set to
300/600/1200/1500/1800/2400/3600/7200/10800/14400/18000Hz;
5. Features three DMX interfaces: 3-pin XLR, green terminal, and RJ45, enhancing

signal B transmission efficiency and interference resistance. The green terminal additionally provides signal amplification.

6. With the operations can be completed via the RDM master console, such as parameters browsing & settings, DMX address settings, equipment recognition, etc.
7. DMX master control mode
8. With firmware upgrade function.
9. With short circuit, over current and over temp. protection, as well as warning function when a fault occurs.
10. With power-on state management and fast self-testing function.
11. 16bit (65536 levels) / 8bit (256 levels) grey level available.
12. Available for standard, linear, LOG or custom 0.1-9.9 dimming curve.
13. The device has 10 built-in personalized lighting effects. You can enter the setting interface of the DMX master mode and select different lighting effects to achieve precise output control of other decoders.
14. Parameters can be set and modified through the RDM master control or mobile phone APP, eliminating the need for high-altitude operations.

LTECH-D5-DMX512-Decoder (2)

Unit: mm



Technical Specs

- Model: D5 Input Signal: DMX512/RDM Input
- Voltage: 12- 48Vdc Current Load: 6A × 5CH Max. 30A

- Output Power: (0~72W..288W) × 5CH Max. 1440W DMX
- Interface: 3-pin XLR, RJ45, green terminal
- Control Mode: DIM/CT/RGB/RGBW/RGBCW
- Dimming Curve: 0.1~9.9, standard, linear, LOG Grey
- Level: 8bit (256 levels) / 16bit (65536 levels)
- Protection: Short circuit / Over current / Over-heat protection, recover automatically
Working
- Temperature: -30°C~55°C
- Dimensions: L169xW80xH39mm
- Package Size: L182xW91xH41mm
- Weight (G.W.): 550g

Main Component Description

LTECH-D5-DMX512-Decoder (4)

OLED Screen Interface

LTECH-D5-DMX512-Decoder (5)

DMX address settings

DMX: 001 Hz: Std
Mode: CH01 8bit
Curve: Standard
Dim: Smo TOOL&v

Press “^” or “V” key to set DMX address.
Range: 001~512, Default display 001

Main page

PWM frequency

DMX: 001 Hz: Std
Mode: CH01 8bit
Curve: Standard
Dim: Smo TOOL&v

Press M and press “^” or “V” key to select

Available:

300Hz	600Hz	1200Hz
1500Hz	1800Hz	2400Hz
3600Hz	7200Hz	10800Hz
14400Hz	18000Hz	Std(acquiesce)

Number of
DMX channels

DMX: 001 Hz: Std
Mode: CH01 8bit
Curve: Standard
Dim: Smo TOOL&v

Press M and press “^” or “V” key to select

Available:

CH01、CH02、
CH03、CH04、CH05(acquiesce)

Grey scale

DMX: 001 Hz: Std
Mode: CH01 8bit
Curve: Standard
Dim: Smo TOOL&v

Press M and press “^” or “V” key to select

Available: 8bit、16bit、8bit(acquiesce)

Dimming curves

DMX: 001 Hz: Std
Mode: CH01 8bit
Curve: Standard
Dim: Smo TOOL&v

Press M and press “^” or “V” key to select

Available: Standard

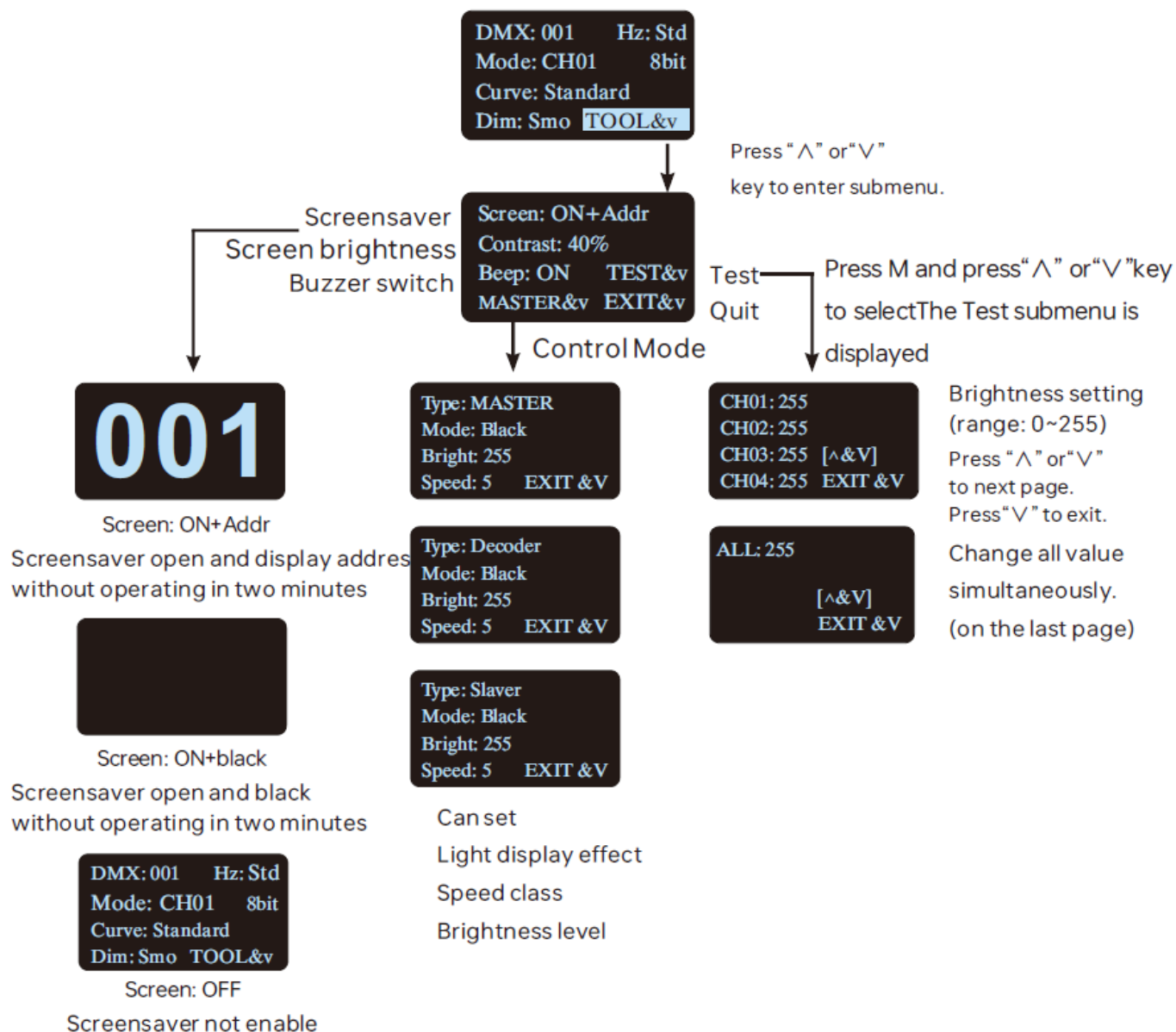
Linear

Log

0.1~9.9

★ It is recommended to use standard,

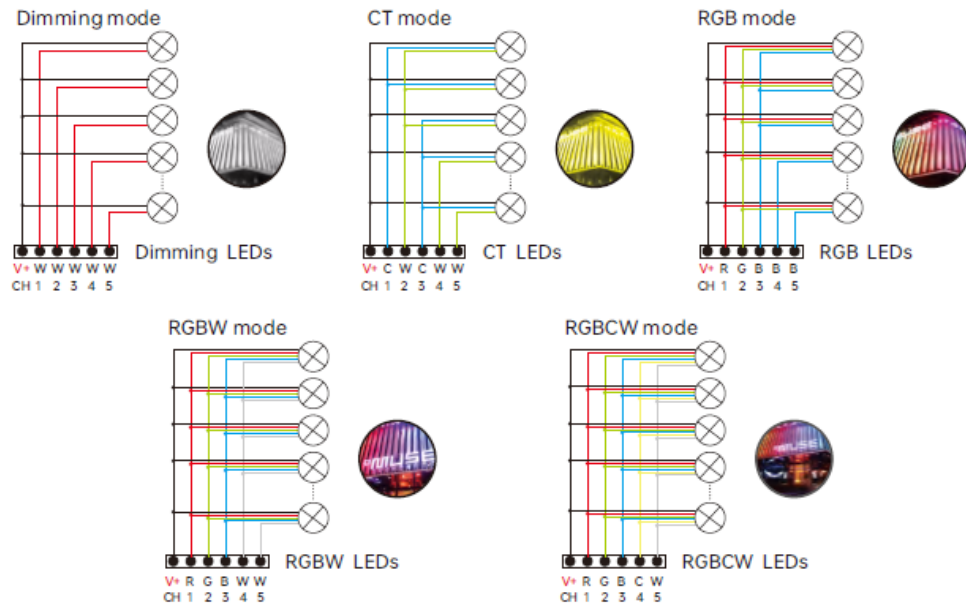
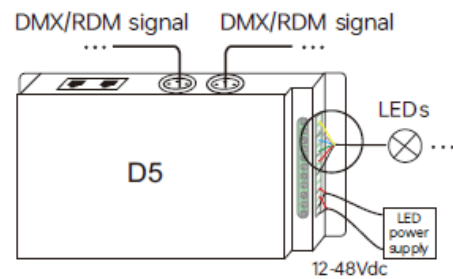
LTECH-D5-DMX512-Decoder (7)



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

Wiring Diagram

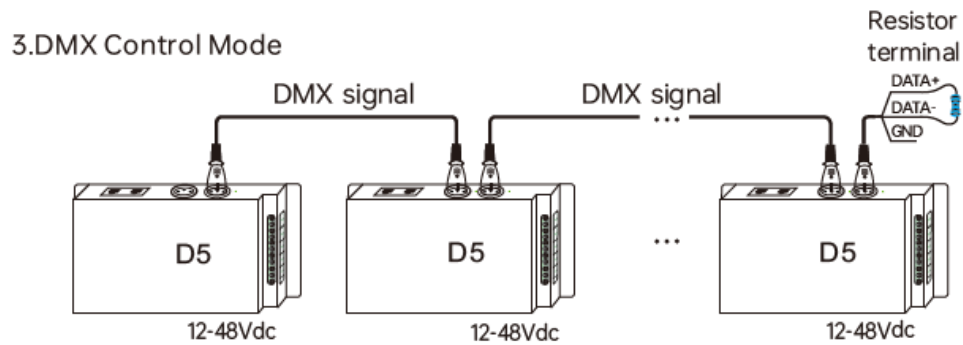
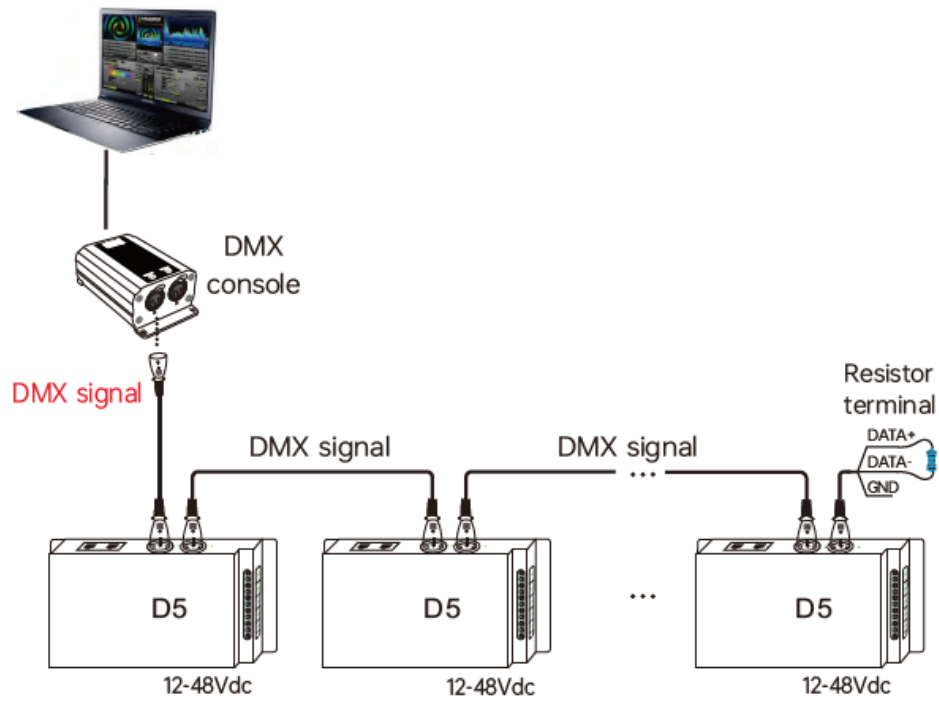
1. Connecting LED lights:



2. DMX console connection:

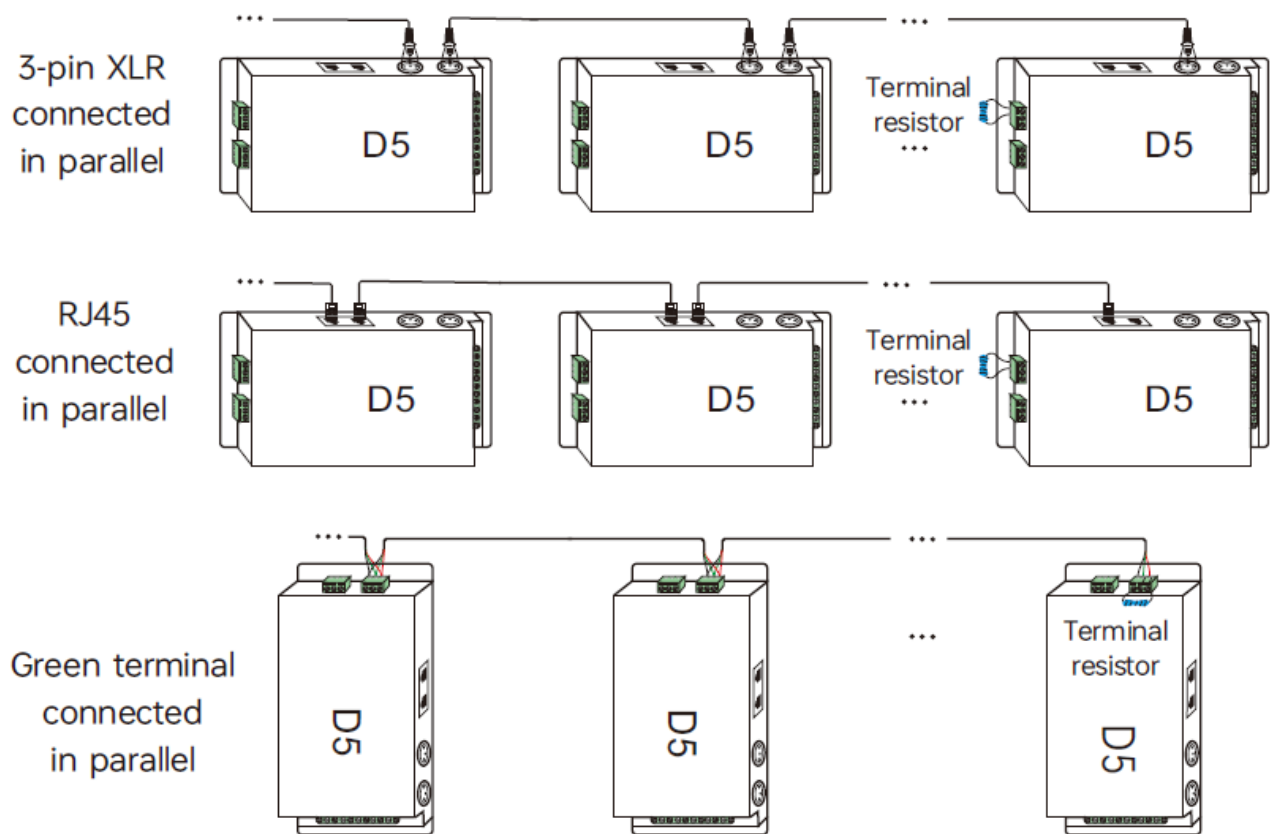
D5 is equipped with 3 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest two: RJ45 & green terminal (with amplifier function).

3. DMX Control Mode



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

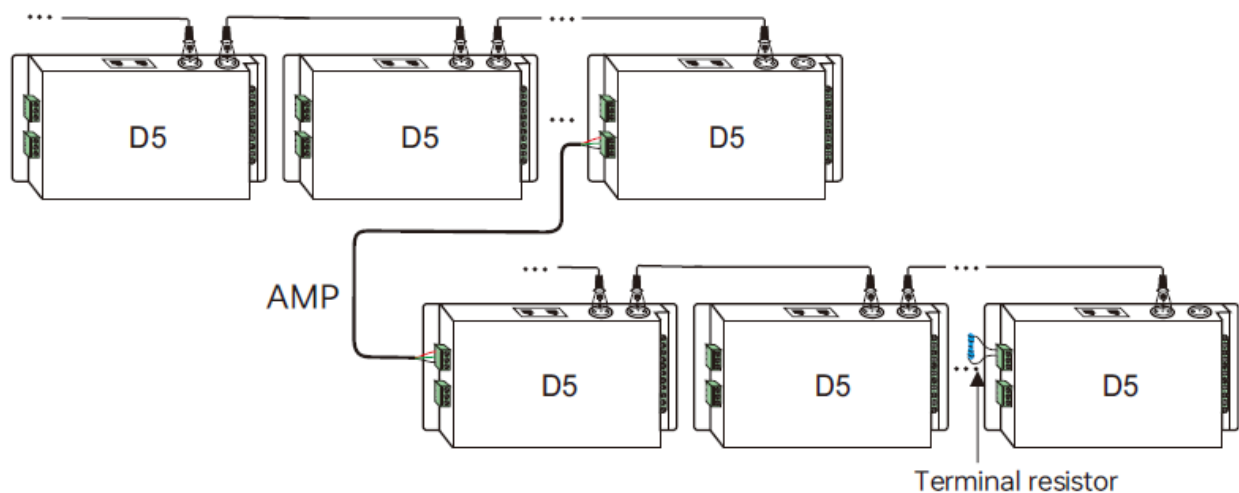
4. The connection diagram of 3 kinds of DMX/RDM terminals:



These 3 terminals can be connected in a mixed way.

5. 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	RGBCW
Address Quantity	1	2	3	4	5

Resolution		8bit	8bit	8bit	8bit	8bit
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

Mode		DIM	CT/CT2	RGB	RGBW	RGBCW
Address Quantity		2	4	6	8	10
Resolution		16bit	16bit	16bit	16bit	16bit
Channel	1	001	001	001	001	001
		002	002	002	002	002
	2	001	003	003	003	003
		002	004	004	004	004
	3	001	001	005	005	005
		002	002	006	006	006
	4	001	003	005	007	007
		002	004	006	008	008
	5	001	003	005	007	009
		002	004	006	008	010

Work with RDM Editor

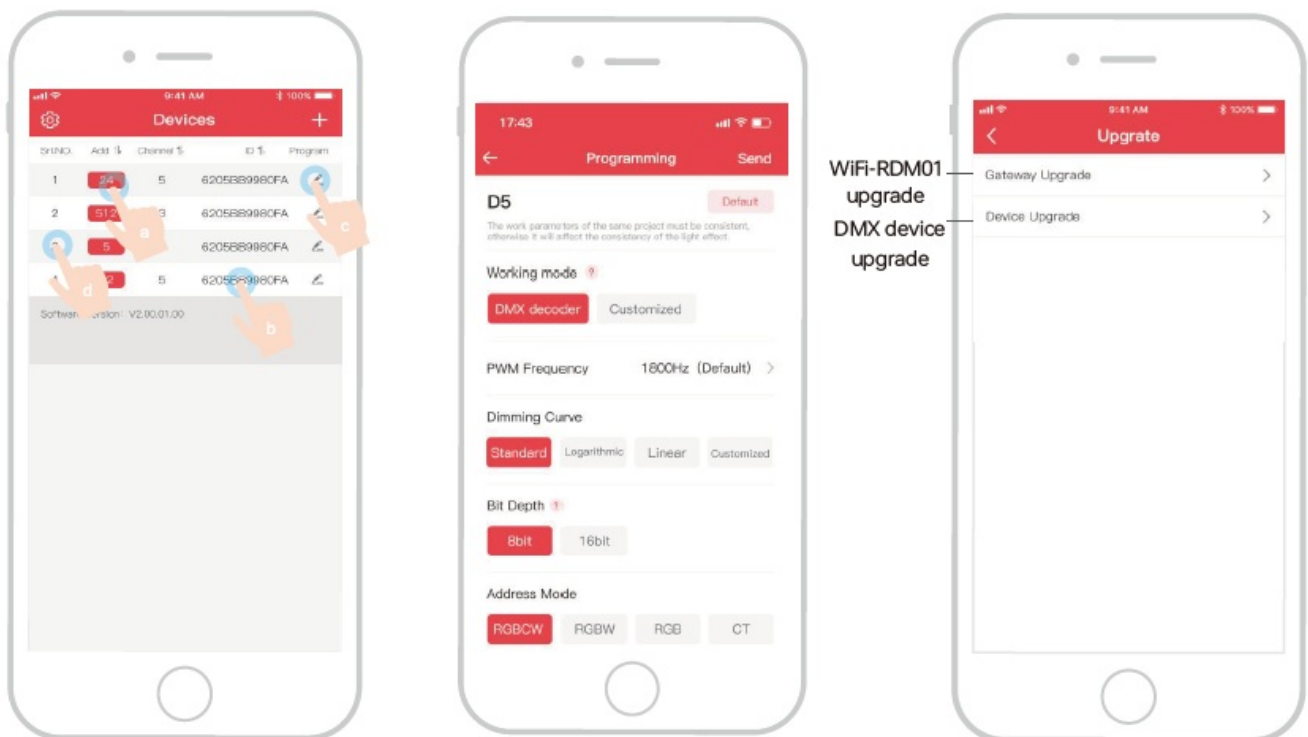
D5 can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:

LTECH-D5-DMX512-Decoder (13)

RDM editor App interface instruction

Download the App, setting the D5 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.



- Click "Add", edit the address in corresponding box.
- Click "ID", get more product details.
- Click "a", enter edited interface.
- Click "No.", issue the recognizing command.

Attention

- Product installation and commissioning should be done by a qualified professional.
Our company products are and not lightning proof 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.

Documents / Resources

	LTECH D5 DMX512 Decoder [pdf] Instruction Manual D5, D5 DMX512 Decoder, DMX512 Decoder, Decoder
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References

- [User Manual](#)

 D5, D5 DMX512 Decoder, DECODER, DMX512 Decoder,
 LTECH  LTECH

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