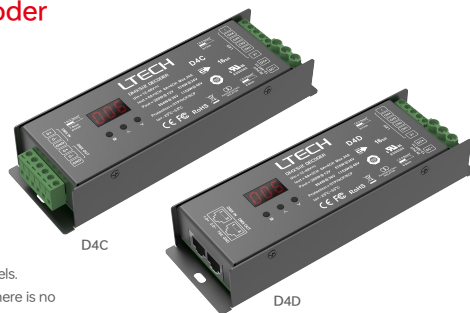


Constant Voltage 4 Channel DMX/RDM Decoder

- Standard DMX/RDM interfaces; Set addresses via the digital display and buttons.
- Parameter modification can be done via an RDM master controller or a mobile APP, eliminating the need for high-altitude operations.
- DMX decoding mode and DMX control mode are switchable. In the control mode, other decoders can be controlled by selecting preset lighting effects output
- PWM frequency options: 300/600/1200/1500/1800/2400/3600/7200/10800/14400/18000Hz.
- 16bit (65536 levels)/8bit (256 levels) gray scale optional.
- Linear and logarithmic dimming curve optional.
- DIM/CT/RGB/RGBW mode optional (1/2/3/4 DMX channel output).
- Provide 10 lighting effects, 8 speed levels of dynamic modes, and 255 brightness levels.
- Supports screen display time setting. The nixie tube remains on, and will turn off if there is no operation within 30 seconds.
- Short-circuit, over-temperature, over-current, and reverse polarity protection, with automatic recovery.
- D4C has green terminal DMX interfaces, D4D has RJ45 DMX interfaces.



16bit RoHS



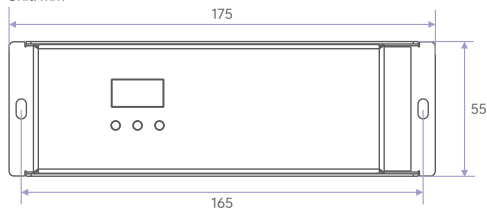
Product Parameters

Input Signal	DMX512, RDM
Input Voltage	12-48V $\approx$
Output Type	Constant Voltage
Output Current	8A×3CH 6A×4CH Max.24A
Output Voltage	4×(12-48V $\approx$)
Output Power	288W@12V 576W@24V 864W@36V 1152W@48V
Dimming Range	0-100%

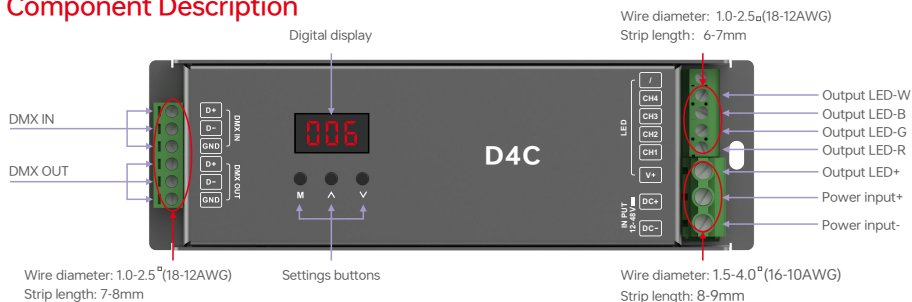
Working Temp.	-25°C-55°C
Safety regulations and Electromagnetic specifications	CE, EN 55015: 2019/A11: 2020, EN 61547-1: 2021, FCC Part 15 Class B
Dimensions	L175×W55×H30mm
Package Size	L188×W61×H40mm
Weight(G.W.)	365±5g
Protection	Short-circuit, over-temperature, over-current, and reverse polarity protection, with automatic recovery.

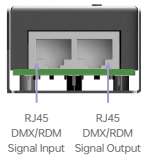
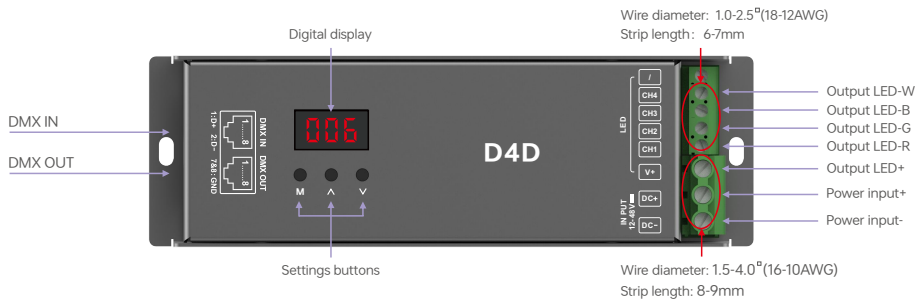
Product Size

Unit: mm

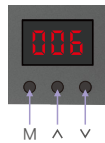


Main Component Description





Digital display:



- Access Configuration: Long press the M button for more than 2s.
- Adjust Value: Short press Δ or ∇ button.
- Exit Menu: Long press M button for 2s again to save the setting, then exit the menu.
- Reset to factory defaults: Long press M, Δ and ∇ button simultaneously for 2s. When the screen displays RES, it has been reset to factory defaults.
- The screen locks after 15 seconds if unused.

Button Operations



DMX Decoder Mode

Long press M and Δ button simultaneously. When the screen displays "L-1", it enters the DMX decoder mode. Long press M button for 2s to enter the menu.

- **DMX address settings:** Press Δ or ∇ button to set the DMX address. DMX address range: 001~512.
- **Bit Depth:** Short press M button to switch the menu to "r". Press Δ or ∇ button to select bit depth and the third value on the screen will display 1 or 2. Options: r-1 (8bit), r-2 (16bit).
- **PWM frequency:** Short press M button to switch the menu to "F". Press Δ or ∇ button to select PWM frequency and the third value on the screen will display 0 or A. Options: F-0 (300Hz), F-1 (600Hz), F-2 (1200Hz), F-3 (1500Hz), F-4 (1800Hz, default option), F-5 (2400Hz), F-6 (3600Hz), F-7 (7200Hz), F-8 (10800Hz), F-9 (14400Hz), F-A (18000Hz).
- **Dimming fade time:** Short press the M button to switch the menu to "d". Press the Δ or ∇ button to select, and the third nixie tube will display 1 or 2. Optional options: d-1 (smooth), d-2 (standard).
- **Dimming mode:** Short press the M button to switch the menu to "C". Press the Δ or ∇ button to select, and the third nixie tube will display 1~4. Optional options: C-1 (all 4 channels output correspond to channel 1), C-2 (channels 1 and 3 output correspond to channel 1; channels 2 and 4 output correspond to channel 2), C-3 (channel 1 output corresponds to channel 1; channel 2 output corresponds to channel 2; channels 3 and 4 output correspond to channel 3), C-4 (4 channels output correspond to their respective channels) (default).
- **Screen timeout:** Short press M button to switch the menu to "n". Press Δ or ∇ button to select screen timeout and the third value on the screen will display 1 or 2. Options: n-1 (Always on display), n-2 (After 30 seconds of inactivity).
- **Saving parameters:** After modifying the parameters, hold the M button for 2 seconds to save settings.



DMX Control Mode

Long press M and ∇ button simultaneously. When the screen displays "L-2", it enters the control mode. Long press M button for 2s to enter the menu.

- **Lighting effects:** Short press M button to switch the menu to "E". Press Δ or ∇ button to select the lighting effect and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7, 8, 9 or A. Options: E-1 (No lighting effect), E-2 (Red), E-3 (Green), E-4 (Blue), E-5 (Yellow), E-6 (Purple), E-7 (Cyan), E-8 (White), E-9 (7-color jumping), E-A (7-color gradient).
- **Speed:** Short press M button to switch the menu to "S". Press Δ or ∇ button to select speed and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7 or 8. Default: S-5 Options: S-1/ S-2 S-7 / S-8 (Speed levels, speed increases one by one).
- **Brightness:** Short press the M button to switch the menu to "B". Press the Δ or ∇ button to select. The second and third nixie tubes will display 00-FF, i.e., B00-BFF, with 256 levels in total. The default maximum level is 255. Optional options: B00/B01...BFF (brightness levels, increasing in sequence).
- **Screen timeout:** Short press M button to switch the menu to "n". Press Δ or ∇ button to select screen timeout and the third value on the screen will display 1 or 2. Options: n-1 (Always on display), n-2 (After 30 seconds of inactivity).
- **Saving parameters:** After modifying the parameters, hold the M button for 2 seconds to save settings.

Fault code: F-0: Over-temperature protection
F-1: Over-temperature warning
F-2: Short circuit/over-current protection

APP Operations

1. D4C and D4D can work with a RDM-compliant address editor.
It is recommended to use the LTECH RDM editor (Model:WiFi-RDM01). Through the APP, set the screen timeout, unicast/multicast, and other parameters for D4C and D4D. For detailed operations, please refer to the WiFi-RDM01 manual.

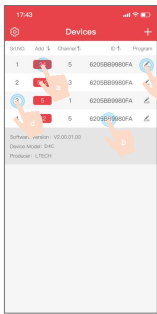


APP

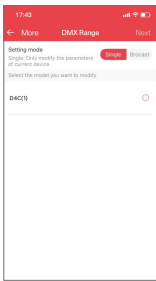
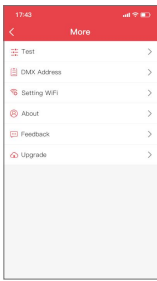
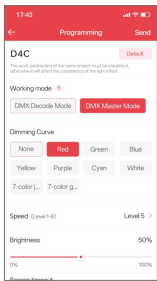


* The WiFi-RDM01 editor and the constant voltage decoder are sold separately.

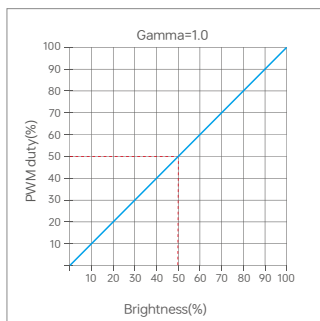
2. Select the working mode through the APP.
DMX Decoder mode: Set the dimming curve, bit depth, dimming mode, dimming range, etc.
DMX Control mode: Set lighting effects, speed, brightness, etc.



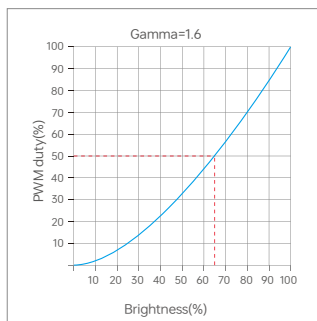
- a: Click the box corresponding to "Address" to edit the address.
- b: Click "ID", get more product details.
- c: Click "⚙️", enter edited interface.
- d: Click "No.", issue the recognizing command.



Dimming Curve Setting



Linear dimming curve



Logarithmic dimming curve

Address Setting Table

Address Channel	Mode	C-1(Dimming)	C-2(CT)	C-3(RGB)	C-4(RGBW)
Channel 1		001	001	001	001
Channel 2		001	002	002	002
Channel 3		001	001	003	003
Channel 4		001	002	003	004

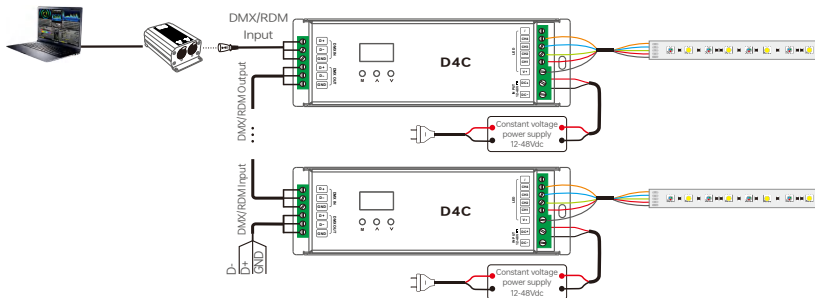
Load Parameters

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.

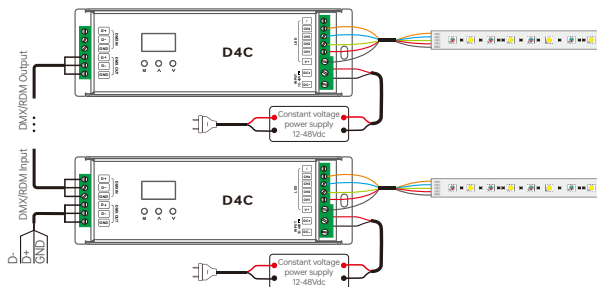
Max. current/ power Voltage	Frequency	300Hz (F=0)	600Hz (F=1)	1.2KHz (F=2)	1.5KHz (F=3)	1.8KHz (F=4)	2.4KHz (F=5)
12V		6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W	6A×4CH/288W
24V		6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W	6A×4CH/576W
36V		6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	5A×4CH/720W
48V		6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	5A×4CH/960W
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		6A×4CH/288W	4A×4CH/192W	3.5A×4CH/168W	3A×4CH/144W	2.5A×4CH/120W	
24V		5A×4CH/480W	3.5A×4CH/336W	3A×4CH/288W	2.5A×4CH/240W	2.5A×4CH/240W	
36V		4.5A×4CH/648W	3A×4CH/432W	2.5A×4CH/360W	2.5A×4CH/360W	2A×4CH/288W	
48V		4A×4CH/768W	3A×4CH/576W	2.5A×4CH/480W	2.5A×4CH/480W	2A×4CH/384W	

D4C Wiring Diagram

DMX Decoder Mode

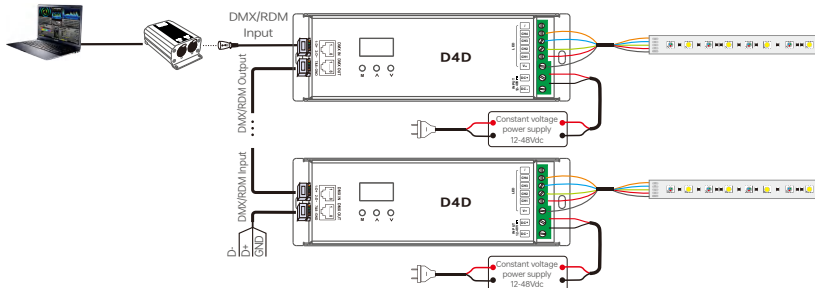


DMX Control Mode

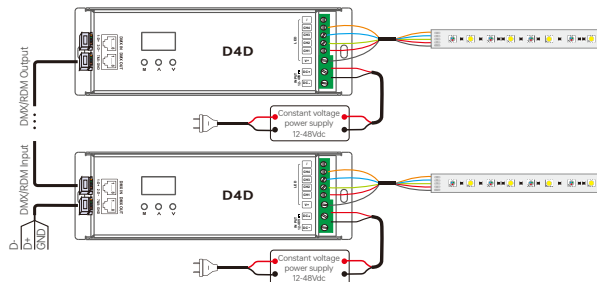


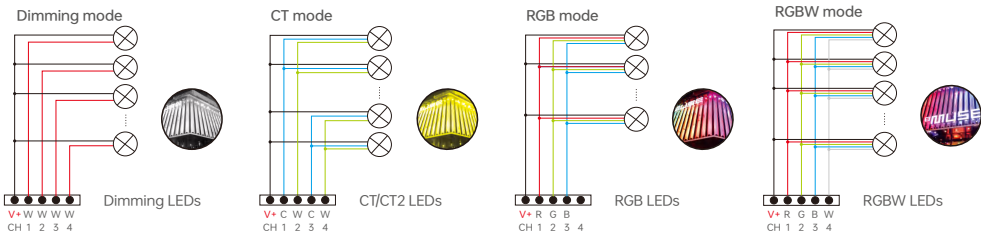
D4D Wiring Diagram

DMX Decoder Mode



DMX Control Mode





- * When more than 32 DMX decoders are connected, DMX signal amplifiers are needed and signal amplification should not be more than 5 times continuously. If you need to modify the parameter settings of connected DMX/RDM decoders that exceed 32, you can add 1 RDM signal amplifier. Or you can add 1-5 DMX signal amplifiers after completing the parameter settings.
- * If the recoil effect occurs because of long signal line or poor quality wires, please try to connect a 0.25W 90-120Ω terminal resistor at the end of each line.

Attentions

- Product installation and commissioning should be done by a qualified professional.
 - LTECH products are not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
 - Good heat dissipation will extend the life of the product. Please install the product in an environment with good ventilation.
 - When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
 - Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
 - Please check whether the working voltage used complies with the parameter requirements of the product.
 - Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
 - If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- * 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.

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 LTECH.

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

4通道DMX/RDM恒压解码器

- 标准的DMX/RDM接口，使用数码管和轻触按键设置参数；
- 可通过RDM主控或手机APP进行参数修改，免高空作业；
- 可切换DMX解码模式/DMX主控模式，主控模式下可通过选择预设灯光效果输出控制其他解码器；
- 可设置300/600/1200/1500/1800/2400/3600/7200/10800/14400/18000Hz PWM频率；
- 16bit(65536级)/8bit(256级)灰度级可选；
- 可设置线性、对数调光曲线；
- 可设置DIM/CT/RGB/RGBW模式(1/2/3/4 DMX通道输出)；
- 可设置10种灯光效果、8档动态模式速度、255个亮度等级；
- 支持屏显时间设置，数码管常亮与30s内无操作将熄灭；
- 短路、过温、过流、防反接保护，可自行恢复；
- D4C具有绿色端子DMX信号端口，D4D具有RJ45 DMX信号端口。

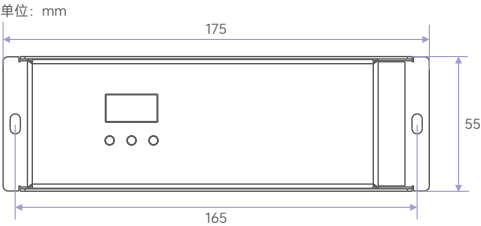


技术参数

输入信号	DMX512, RDM
输入电压	12-48V $\approx$
输出类型	恒压
输出电流	8A $\times$ 3CH 6A $\times$ 4CH Max.24A
输出电压	4 $\times$ (12-48V $\approx$)
输出功率	288W@12V 576W@24V 864W@36V 1152W@48V
调光范围	0-100%

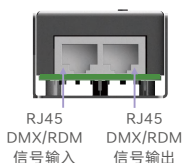
工作温度	-25 $^{\circ}$ C-55 $^{\circ}$ C
安规和电磁规格	CE,EN 55015: 2019/A11: 2020, EN 61547-1: 2021,FCC Part 15 Class B
产品尺寸	L175 $\times$ W55 $\times$ H30mm
包装尺寸	L188 $\times$ W61 $\times$ H40mm
重量(毛重)	365克 $\pm$ 5克
保护	短路、过温、过流、防反接保护，可自行恢复

产品尺寸

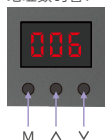


产品部件图





地址数码管:



- 进入配置: 长按M键2秒以上
- 调整数值: 短按∧或V键
- 退出菜单: 再次长按M键2秒, 保存配置并退出
- 恢复出厂: 同时长按M、∧、V键2秒后显示RES,即表示已恢复到出厂设置
- 数码管无操作15秒, 进入锁定状态

按键操作



DMX解码模式

同时长按M和∧键, 数码管显示“L-1”时, 进入DMX模式解码长按M键2秒即可进入菜单

- DMX地址设置: 按∧或V键进行选择, 进行DMX地址设置范围: 1~512
- 位深度: 短按M键, 将菜单切换到“r”按∧或V键进行选择, 第三个数码管显示1或2, 可选项: r-1 (8bit) 、r-2 (16bit)
- PWM频率: 短按M键, 将菜单切换到“f”按∧或V键进行选择, 第三个数码管显示0-A, 可选项: F-0 (300Hz) 、F-1 (600Hz) 、F-2 (1200Hz) 、F-3 (1500Hz) 、F-4 (1800Hz) (默认) 、F-5 (2400Hz) 、F-6 (3600Hz) 、F-7 (7200Hz) 、F-8 (10800Hz) 、F-9 (14400Hz) 、F-A (18000Hz)
- 调光渐变时间: 短按M键, 将菜单切换到“d”按∧或V键进行选择, 第三个数码管显示1或2, 可选项: d-1 (平滑) 、d-2 (标准)
- 调光模式: 短按M键, 将菜单切换到“C”按∧或V键进行选择, 第三个数码管显示1~4, 可选项: C-1 (4路输出均为通道1) 、C-2 (1路和3路输出均为通道1, 2路和4路输出均为通道2) 、C-3 (1路输出为通道1, 2路输出为通道2, 3路和4路输出均为通道3) 、C-4 (4路分别输出对应通道) (默认)
- 屏显时间: 短按M键, 将菜单切换到“n”按∧或V键进行选择, 第三个数码管显示1或2, 可选项: n-1 (数码管常亮) 、n-2 (30s内无操作将熄灭)
- 保存参数: 参数修改完成后, 长按M键2秒保存参数



DMX主控模式

同时长按M和V键, 数码管显示“L-2”时, 进入DMX主控模式长按M键2秒即可进入菜单

- 灯光效果: 短按M键, 将菜单切换到“E”按∧或V键进行选择, 第三个数码管显示1~9或A, 可选项: E-1 (无) 、E-2 (红色) 、E-3 (绿色) 、E-4 (蓝色) 、E-5 (黄色) 、E-6 (紫色) 、E-7 (青色) 、E-8 (白色) 、E-9 (七色跳变) 、E-A (七色渐变)
- 速度: 短按M键, 将菜单切换到“S”按∧或V键进行选择, 第三个数码管显示1~8, 默认值: S-5, 可选项: S-1 / S-2 ... S-7 / S-8 (速度等级, 依次递增)
- 亮度: 短按M键, 将菜单切换到“B”按∧或V键进行选择, 第二、三个数码管显示00-FF, B00-BFF, 256个等级, 默认最大255 (显示屏显BFF) , 可选项: B00/B01 ... BFF (亮度等级, 依次递增)
- 屏显时间: 短按M键, 将菜单切换到“n”按∧或V键进行选择, 第三个数码管显示1或2, 可选项: n-1 (数码管常亮) 、n-2 (30s内无操作将熄灭)
- 保存参数: 参数修改完成后, 长按M键2秒保存参数

故障码: F-0: 过温保护

F-1: 过温警告

F-2: 短路/过流保护

APP操作

1. D4C、D4D可以与遵从标准RDM协议的地址编辑器配合使用。
建议使用LTECH的RDM编辑器（型号WiFi-RDM01），可通过APP设置D4C、D4D的屏显方式、单播/多播等参数，具体请参看WiFi-RDM01的使用说明书。

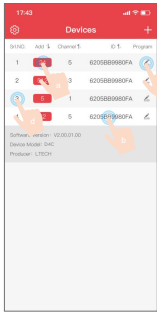


APP



* WiFi-RDM01编辑器与恒压解码器不配套销售。

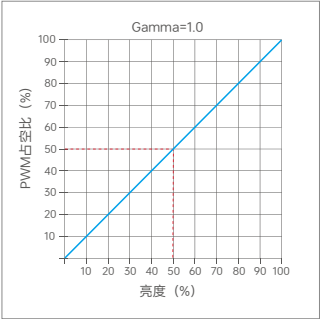
2.通过APP选择工作模式。
DMX解码模式：可设置调光曲线、位深度、调光模式、调光范围等。
DMX主控模式：可设置灯光效果、速度、亮度等。



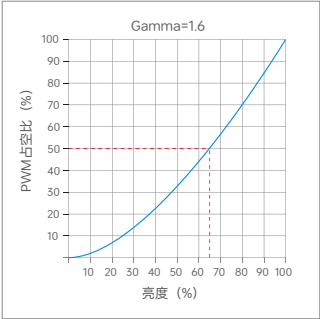
- a: 点击“地址”对应方框可编辑地址；
- b: 点击“标识符”出现产品详细信息；
- c: 点击编程按钮“ ”则进入编辑界面；
- d: 点击序号发出识别命令。



调光曲线



线性调光曲线



对数调光曲线

模式地址设置表

模式	C-1(调光)	C-2(色温)	C-3(RGB)	C-4(RGBW)
通道1	001	001	001	001
通道2	001	002	002	002
通道3	001	001	003	003
通道4	001	002	003	004

带载容量表

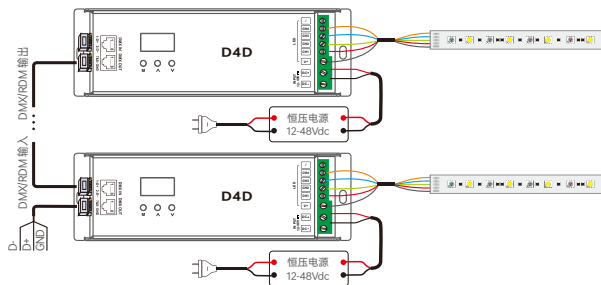
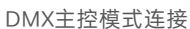
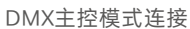
不同PWM频率、不同电压下，每路最大带载电流和总功率不同。接线前，请严格按照表格中的带载参数进行操作。

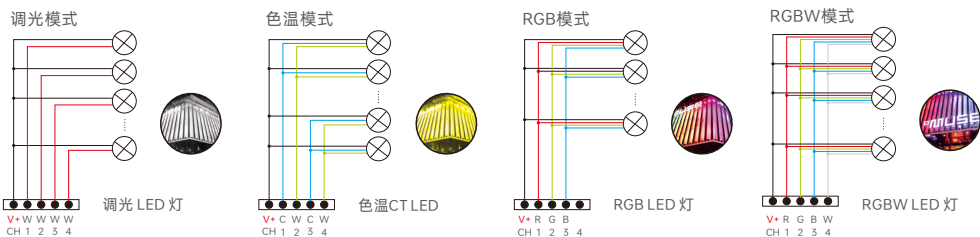
最大电流/功率 频率 电压	300Hz (F=0)	600Hz (F=1)	1.2KHz (F=2)	1.5KHz (F=3)	1.8KHz (F=4)	2.4KHz (F=5)
12V	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W 8A×3CH/288W	6A×4CH/288W	6A×4CH/288W
24V	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W 8A×3CH/576W	6A×4CH/576W	6A×4CH/576W
36V	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	6A×4CH/864W	5A×4CH/720W
48V	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	6A×4CH/1152W	5A×4CH/960W

最大电流/功率 频率 电压	3.6KHz (F=6)	7.2KHz (F=7)	10.8KHz (F=8)	14.4KHz (F=9)	18KHz (F=A)	/
12V	6A×4CH/288W	4A×4CH/192W	3.5A×4CH/168W	3A×4CH/144W	2.5A×4CH/120W	
24V	5A×4CH/480W	3.5A×4CH/336W	3A×4CH/288W	2.5A×4CH/240W	2.5A×4CH/240W	
36V	4.5A×4CH/648W	3A×4CH/432W	2.5A×4CH/360W	2.5A×4CH/360W	2A×4CH/288W	
48V	4A×4CH/768W	3A×4CH/576W	2.5A×4CH/480W	2.5A×4CH/480W	2A×4CH/384W	

DMX解码模式连接

DMX解码模式连接





- * 超过32台DMX解码器连接需加DMX信号放大器，信号放大不能连续超过5次。当超过32台DMX/RDM解码器连接时，如需修改其参数设置，可添加1台RDM信号放大器，或者将其参数设置完成后，再添加1-5台DMX信号放大器。
- * 当信号线较长或者线材质量等原因造成信号反射效应影响使用，可以尝试在每路信号线末端连接0.25W 90-120Ω终端电阻去解决。

注意事项

- 本产品请由具有专业资格的人员进行调试安装；
 - 雷特产品（专有型号除外）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置；
 - 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境；
 - 安装时，避免靠近大面积金属物体，或堆叠摆放，以免信号干扰影响使用；
 - 避免安装在雷区、强磁场和高压区域；
 - 请检查使用的工作电压是否符合产品的参数要求；
 - 通电调试前，确保所有接线正确且牢固，以免短路损坏部件，触发事故；
 - 如果发生故障，请勿私自维修；如有疑问，请联系供应商。
- * 本说明书的内容如有变更，恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。如有疑问，请与供应商联系。

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- 自出厂之日起保修服务期为5年。
 - 在保修服务期内出现产品质量问题雷特科技将给予免费修理或更换服务。
- 非保修条例：

属下列情况不在免费保修或更换服务范围之内：

- 已经超出保修服务期；
- 过高电压、超负载、操作不当等人为造成的损坏；
- 产品外形严重损坏或变形；
- 自然灾害以及人力不可抗拒原因造成的损坏；
- 产品保修标签和产品唯一条形码损坏；
- 无雷特科技签订的合同或发票凭证。

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2. 雷特科技享有修正或调整本保修条款的权利，并以书面形式发布为准。