LTECH

DMX512 DECODER

LT-905-OLED

5 CHANNELS

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

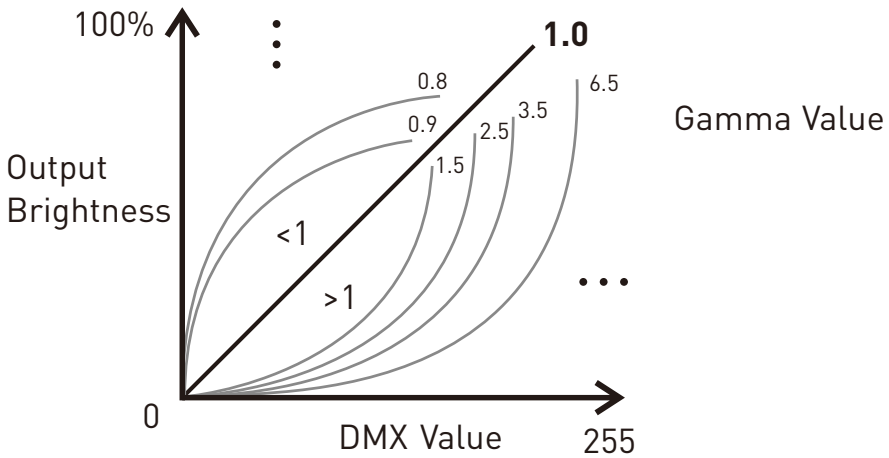
RDM DMX

Photoelectric isolation

www.ltech-led.com

Product introduction

1. Designed with 5 channels output, and Max. 5A per channel, up to 600W output.
2. Easy operation with OLED display and the touch buttons.
3. 5 modes available: DIM, CT, RGB, RGBW, RGBWY.
4. 5-pin XLR, RJ45 DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability.
5. With RDM remote management protocol, the operations can be completed via the RDM editor, 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, liner, LOG or custom 0.1-9.9 dimming curve.

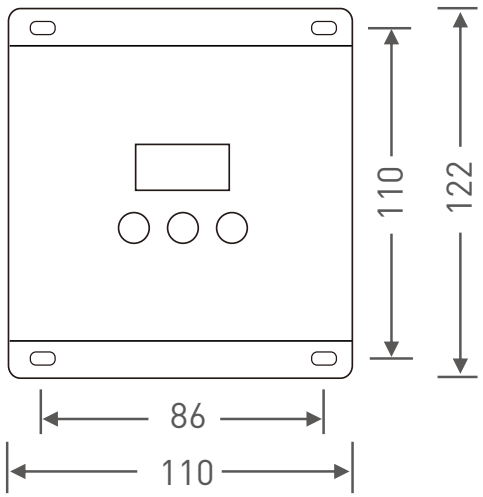


Technical specs

Model:	LT-905-OLED
Input signal:	DMX512/RDM
Input voltage:	12~24Vdc
Current load:	5A × 5CH Max. 25A
Output power:	(0~60W...120W) × 5CH Max. 600W
DMX interfaces:	5-pin XLR, RJ45
Control modes:	DIM/CT/RGB/RGBW/RGBWY
Dimming curves:	0.1~9.9, standard, linear, LOG
Grey level:	8bit (256 levels) /16bit (65536 levels)
Protection:	Short circuit / Overheat / Over current protection, recover automatically.
Photoelectric isolation:	Yes
Working temp.:	-30°C~65°C
Dimensions:	122×110×37mm(L×W×H)
Package size:	127×123×41mm(L×W×H)
Weight (G.W.):	550g

Product size

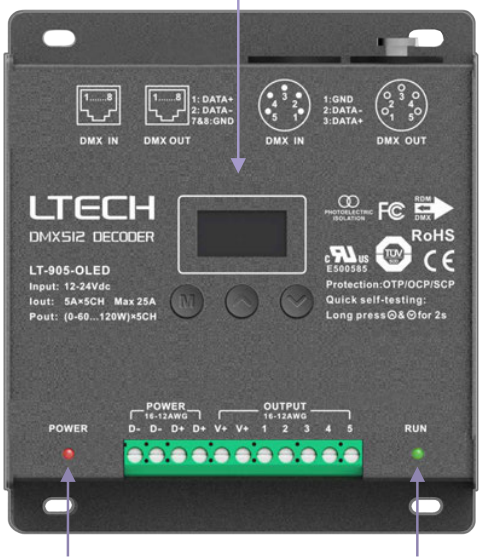
Unit: mm

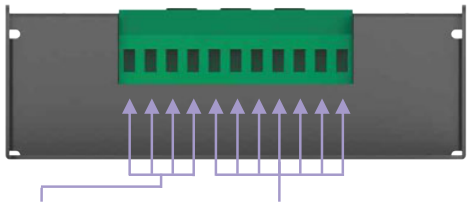


E500585

5-Year Warranty

Main component description

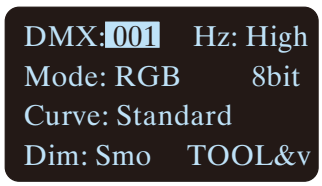




OLED display interface

Press "M" key, switch entries.
Press "∧" or "∨" key, parameter adjustment.
Long press "M" key, back to main page.
Exit: back to previous page.

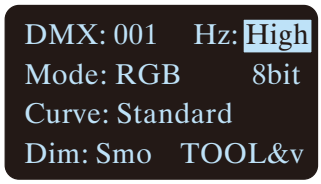
1. DMX address settings



Main page

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

2. PWM frequency



Press "∧" or "∨" key to choose.

Option :

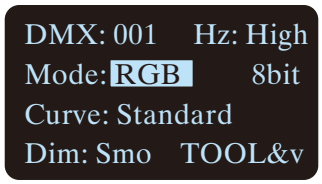
No flicker in video camera.

Std (standard)
High
Mid (middle)
Low

Smooth and delicate, human eye is comfortable.

* It is recommended to use standard.

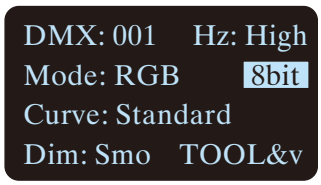
3. Modes



Press "∧" or "∨" key to choose.

Available: DIM / CT / CT2 / RGB / RGBW / RGBWY

4. Grey scale

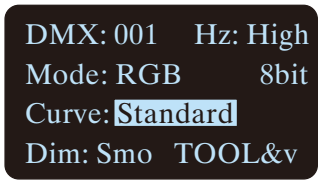


Press "∧" or "∨" key to choose.

Available : 8bit

16bit (choose it if the master controller supports this function)

5. Dimming curves



Press "∧" or "∨" key to choose.

Available : Standard

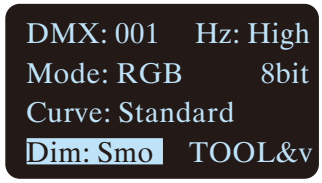
Linear

Log

0.1~9.9

It is recommended to use standard, 0.1-9.9 is for special requirements.

6. Enhance dimming



Press "∧" or "∨" key to choose.

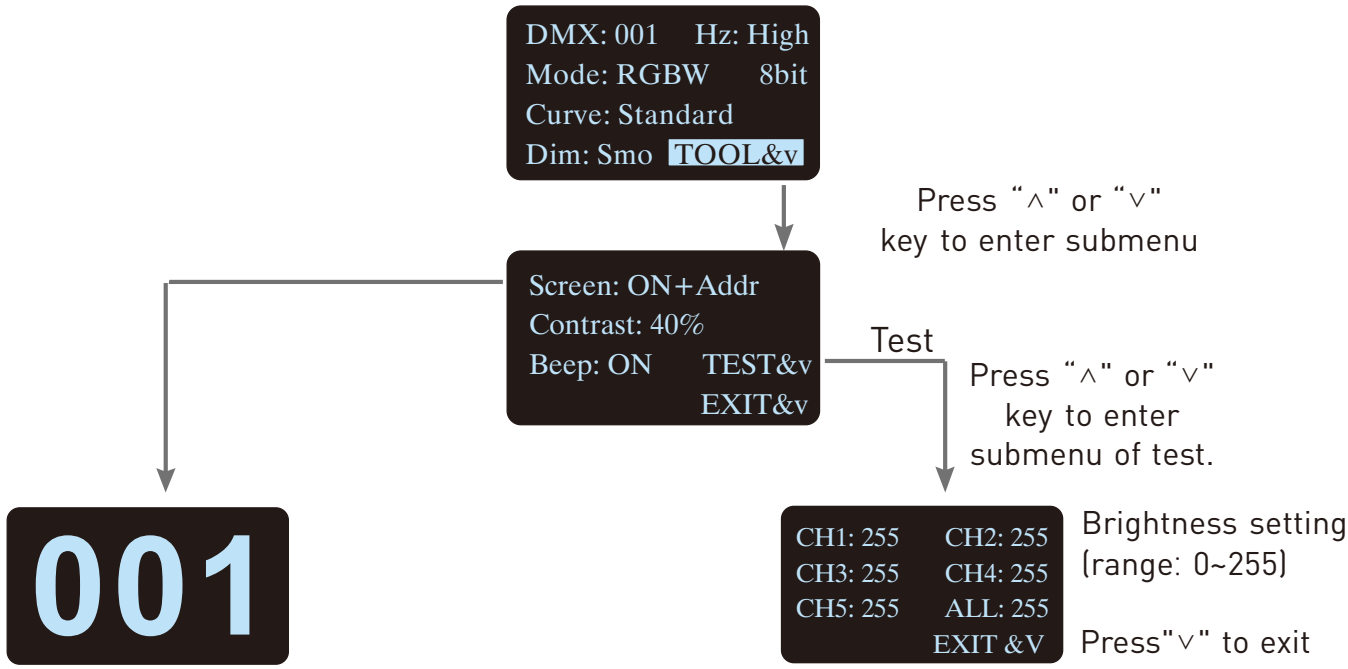
Available : Std (standard)

Smo (smooth)

* It is recommended to use standard.

Smo: This option with smooth processing, realizes flicker-free dimming and smooth dynamic effects.

7. Tool

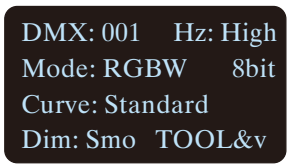


Screen: ON+Addr

Screensaver open and display address without operating in two minutes.

Screen: ON+black

Screensaver open and black without operating in two minutes..



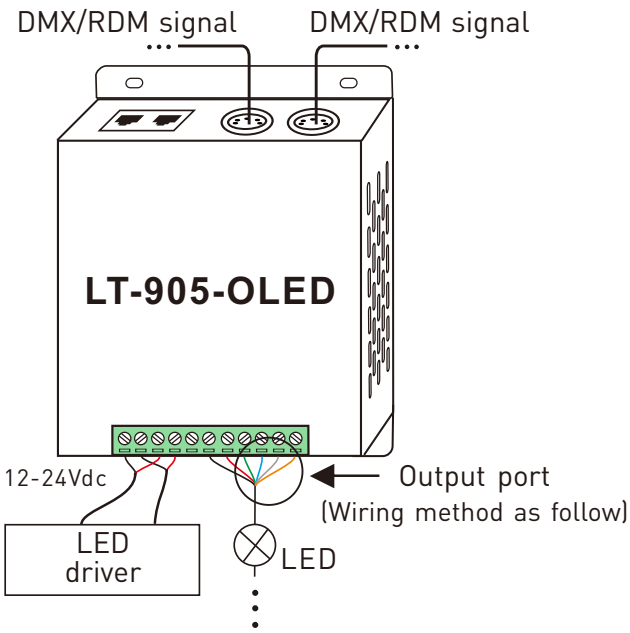
Screen: OFF

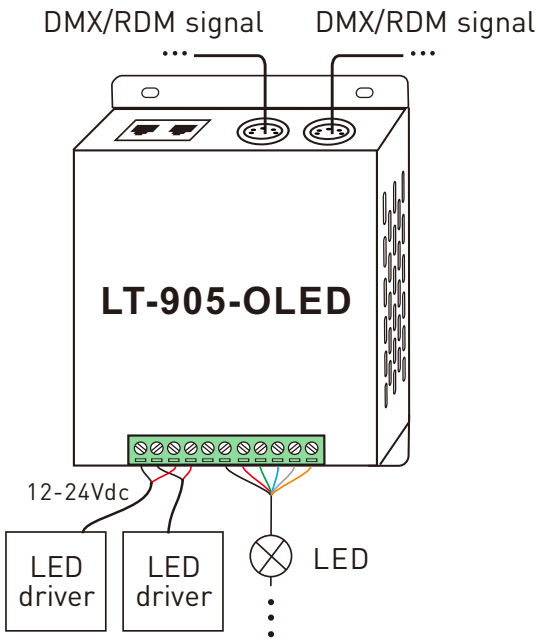
Screensaver not enable.

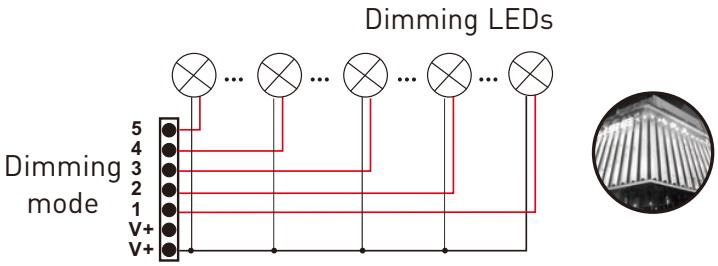
✻ Fast self-testing function: press "∧"or "∨" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

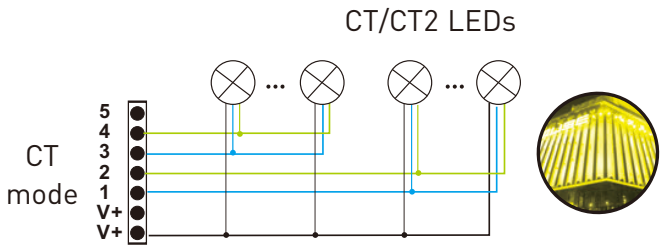
Wiring diagram

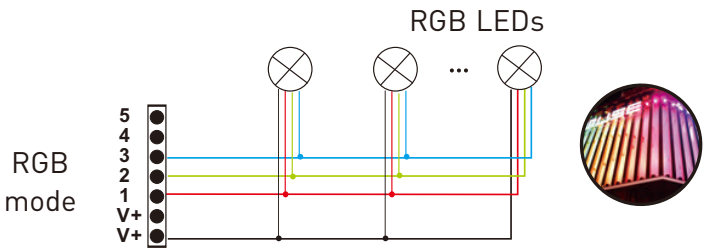
1. Connecting LED lights:

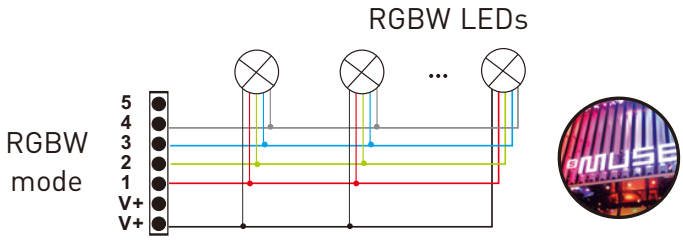


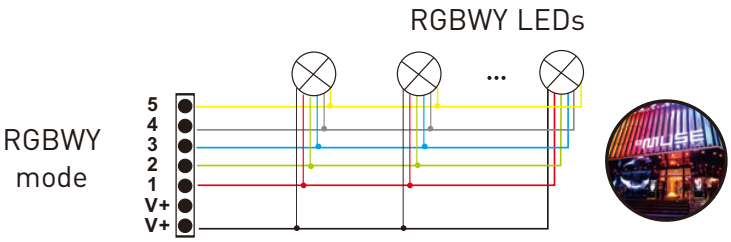




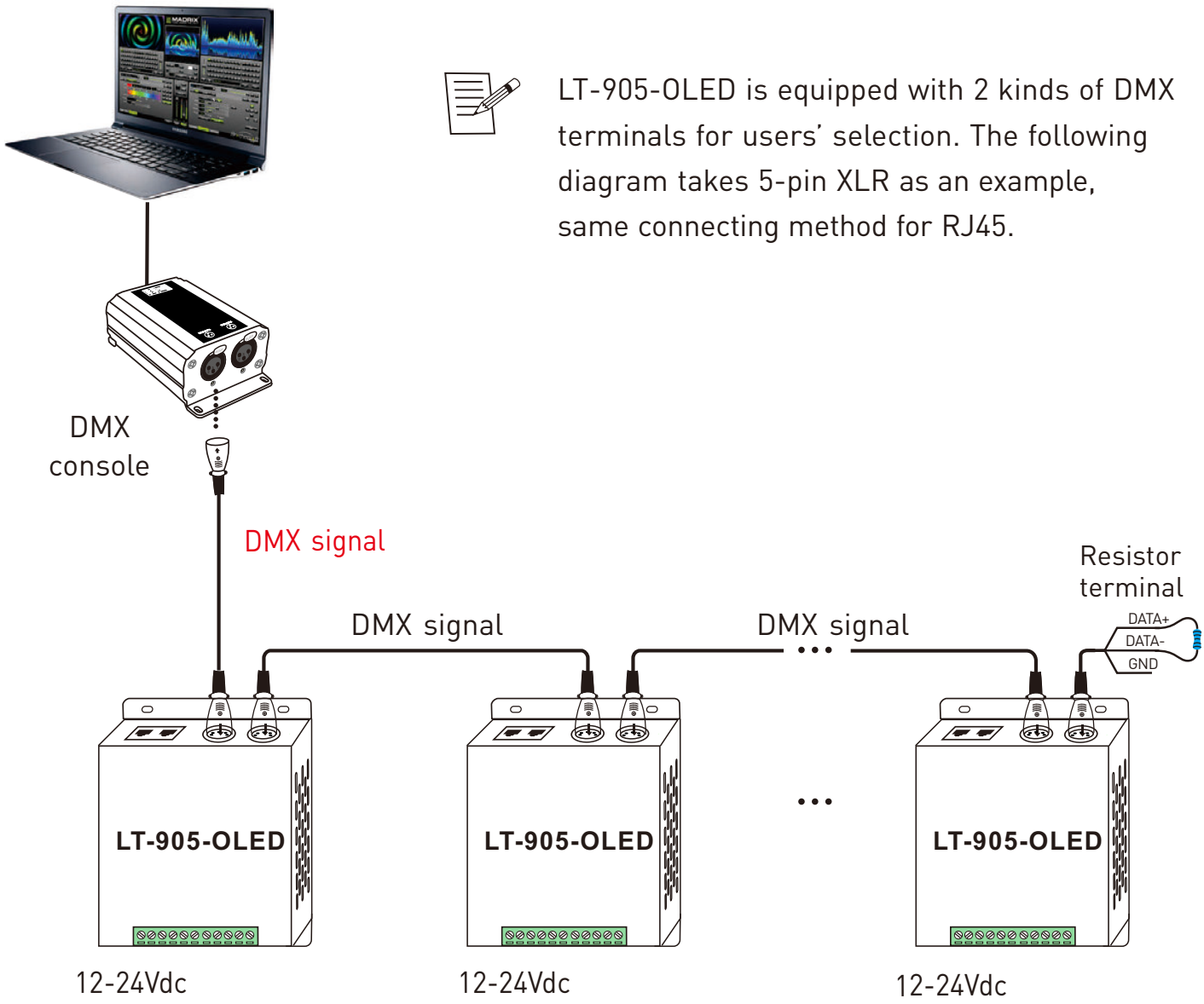








2. DMX console connection:

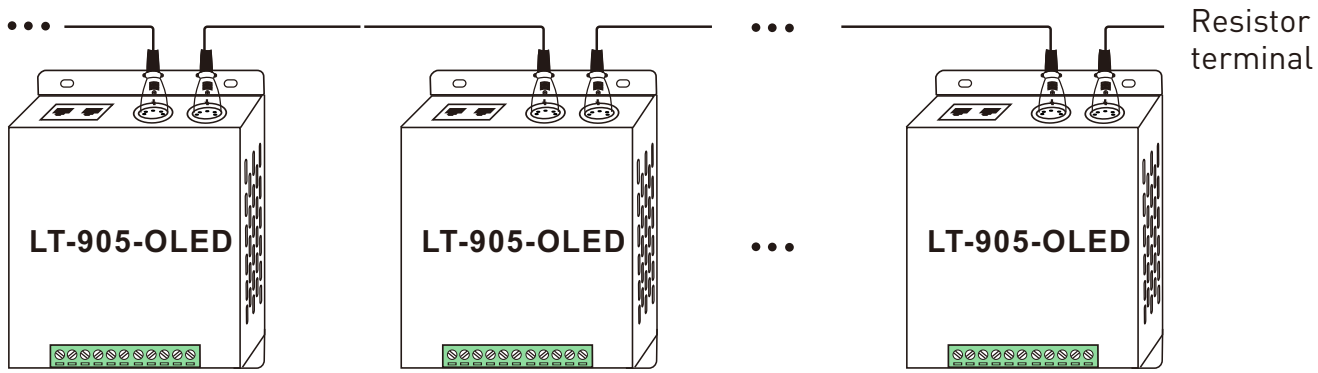


LT-905-OLED is equipped with 2 kinds of DMX terminals for users' selection. The following diagram takes 5-pin XLR as an example, same connecting method for RJ45.

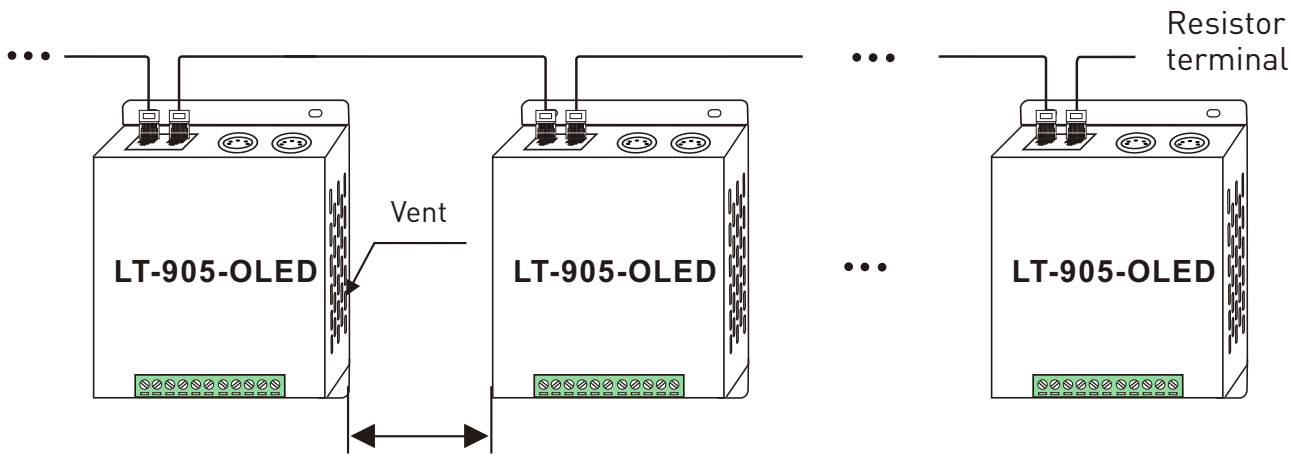
* An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

* 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 2 kinds of DMX/RDM terminals:



5-pin XLR connected in parallel



Installation distance > 20mm

RJ45 connected in parallel

These 2 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.

Address setting table

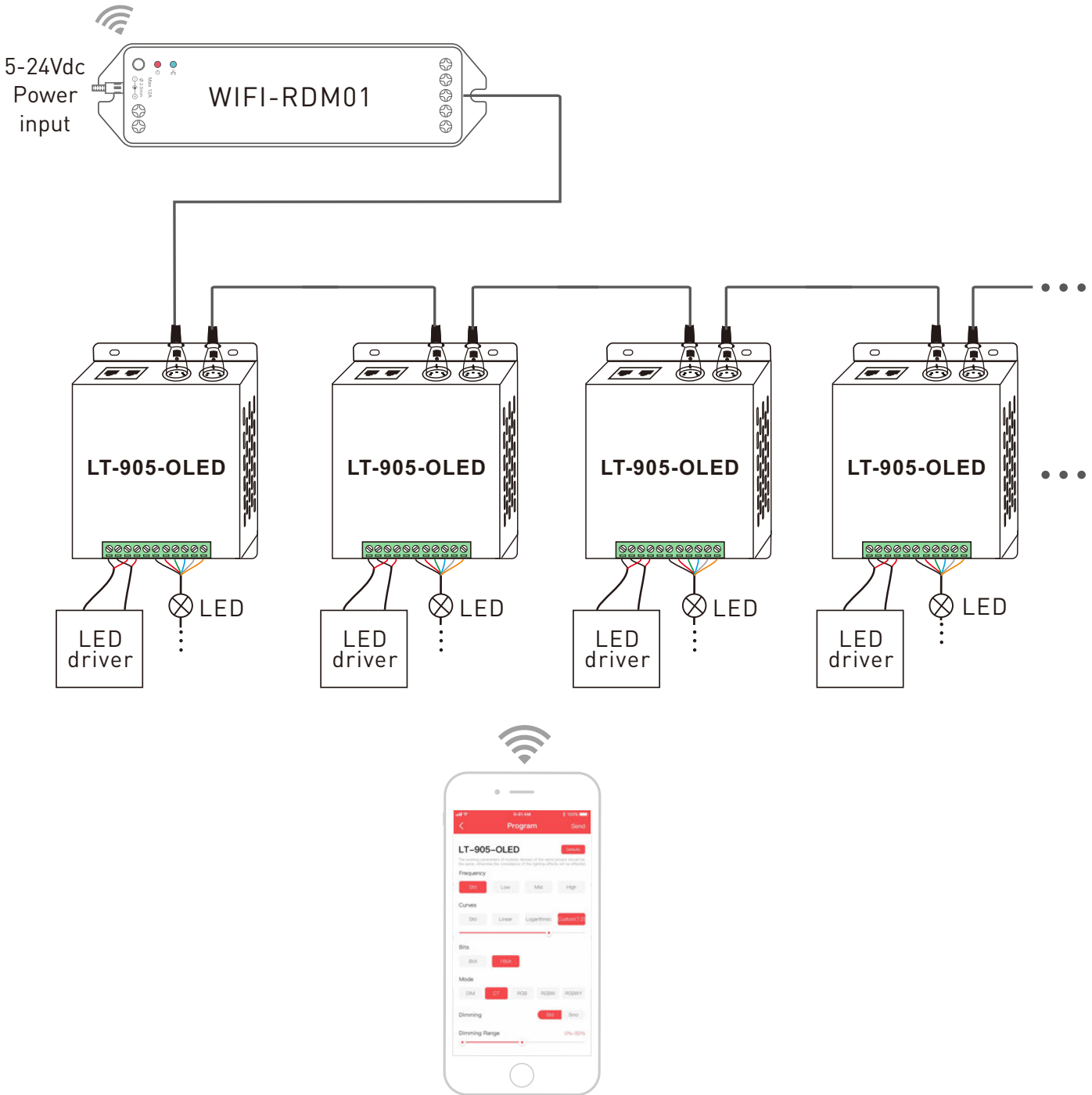
Mode		DIM	CT/CT2	RGB	RGBW	RGBWY
Address quantity		1	2	3	4	5
Resolution		8bit	8bit	8bit	8bit	8bit
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

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

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

Work with RDM editor

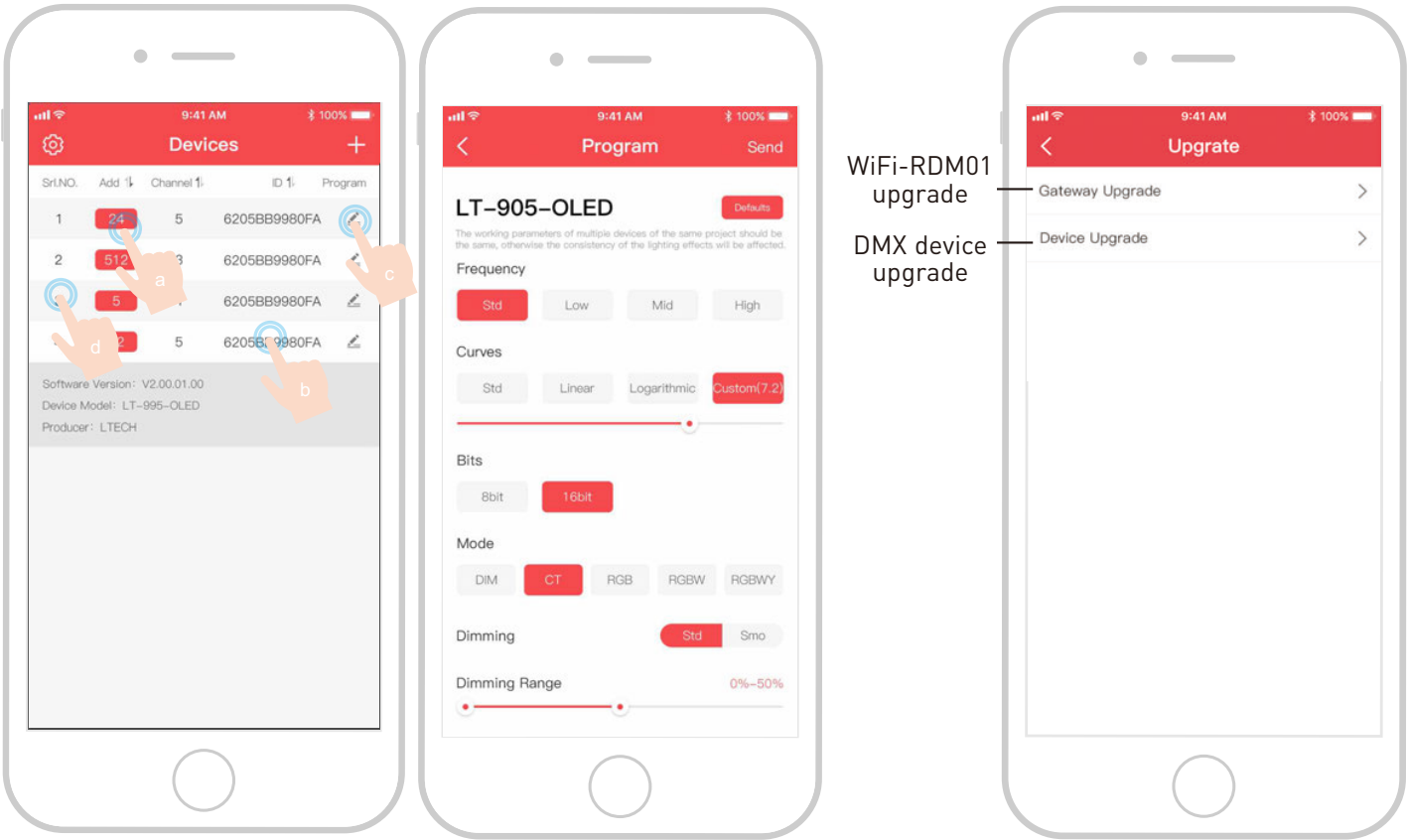
LT-905-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM editor App interface instruction

Download the App, setting the LT-905-OLED 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.

✻ 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.

Update Time: 15/01/2021_A5

LTECH雷特

DMX512 DECODER

LT-905-OLED

5 CHANNELS

OLED显示屏
8 bit / 16 bit
2种DMX接口
调光曲线: 0.1-9.9
短路、过流、过温保护

RDM
DMX

光电隔离

www.ltech.cn

产品介绍

1、本产品共有5个通道输出，每通道最大5A电流，总功率可高达 600W。

2、使用OLED 屏和轻触按键组成人机界面，显示内容丰富，操作简单快捷。

3、具有调光、色温、RGB、RGBW、RGBWY 5种模式选择。

4、提供5针XLR、RJ45两种具有光电信号隔离功能的DMX接口，提高信号传输效率和抗干扰能力。

5、具有RDM远程管理协议，通过RDM编程器可对所有参数浏览与设置、DMX地址修改、设备识别等操作。

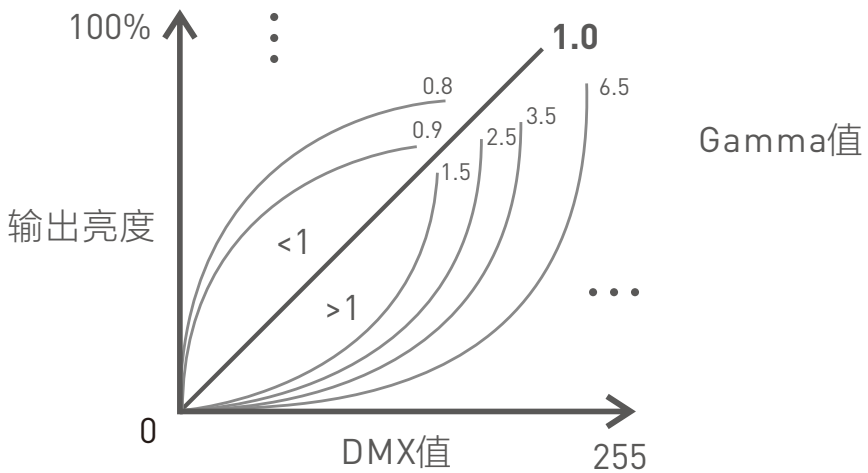
6、具有固件升级功能。

7、具有短路、过流、过温自动保护与恢复功能, 并有故障警示提示功能。

8、具有上电状态管理及快速自测功能。

9、16bit(65536级)/8bit(256级)灰度级可选。

10、标准、线性、对数及自定义0.1~9.9等调光曲线可选。



性能参数

产品型号： LT-905-OLED

输入信号： DMX512/RDM

输入电压： 12- 24Vdc

负载电流： 5A×5路　Max. 25A

输出功率： (0~60W...120W)×5路　Max. 600W

DMX接口： 5针XLR, RJ45

控制模式： 调光/色温/RGB/RGBW/RGBWY

调光曲线： 0.1~9.9,标准，线性，对数

灰度等级： 8bit/16bit可选

光电隔离： 有

保护： 短路、过流、过温保护

工作温度： -30°C~65°C

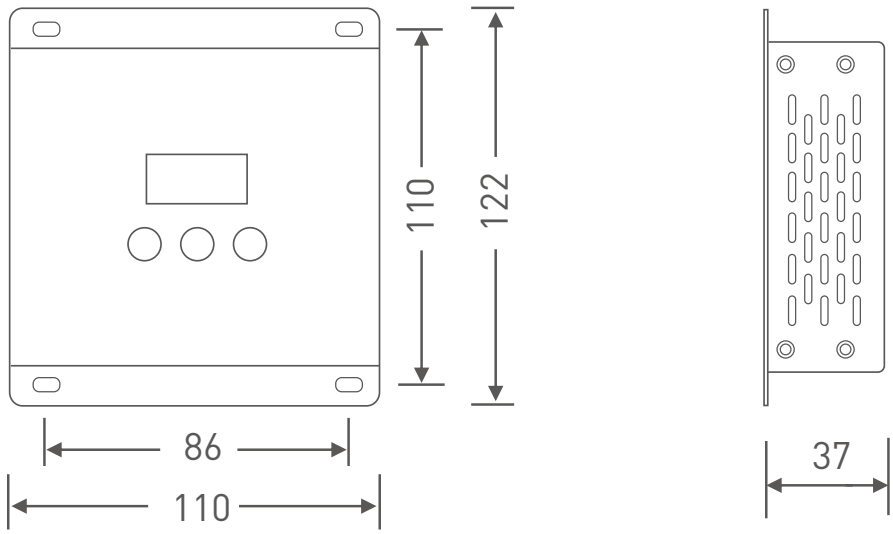
产品尺寸： L122×W110×H37mm

包装尺寸： L127×W123×H41mm

重量(毛重)： 550g

产品尺寸

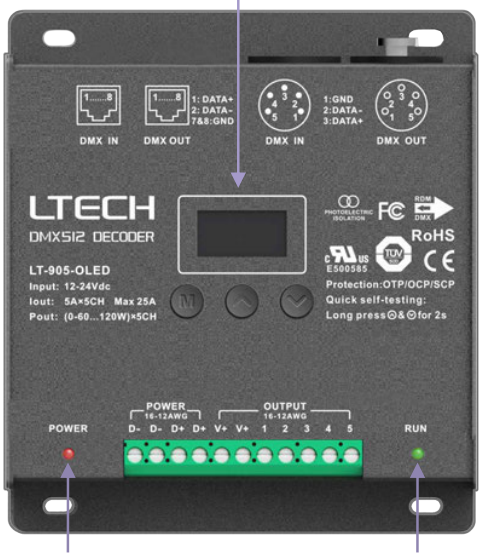
单位: mm

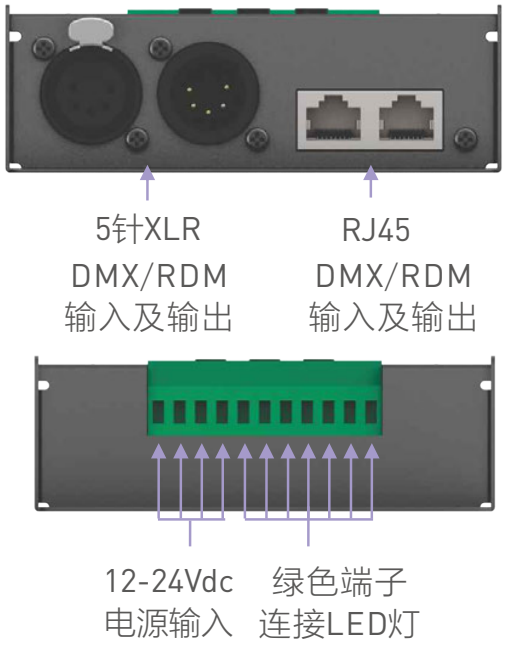


E500585

质保5年

部件图





OLED屏界面图

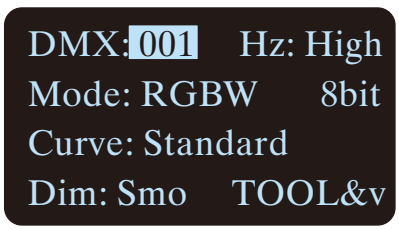
按M键，切换条目

长按M键，返回至主显示界面

按∧或∨键，调整参数

EXIT：返回至上一级菜单

1、DMX地址设置

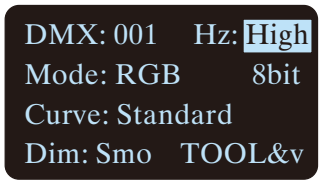


主显示界面

按∧或∨键，进行DMX地址设置

范围：1~512

2、PWM频率



按∧或∨键进行选择

可选项：

拍摄无闪烁

Std(标准)

High(高)

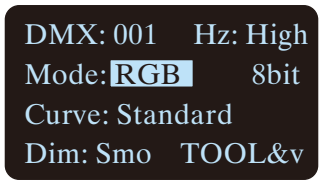
Mid(中)

Low(低)

平滑细腻
人眼舒适

✻ 推荐使用标准

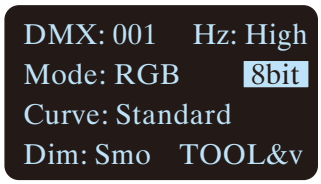
3、模式



按∧或∨键进行选择

可选项：DIM(调光)、CT/CT2(色温)、RGB、
RGBW、RGBWY

4、灰度等级

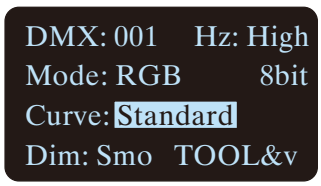


按∧或∨键进行选择

可选项：8bit

16bit (主控支持此功能时，可使用)

5、调光曲线



按∧或∨键进行选择

可选项：Standard (标准)

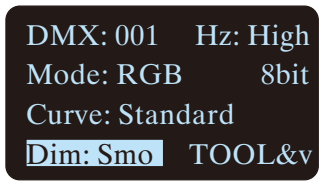
Linear (线性)

Log (对数)

0.1~9.9

✻ 推荐使用standard,
有特殊要求时可使用0.1-9.9

6、调光加强



按∧或∨键进行选择

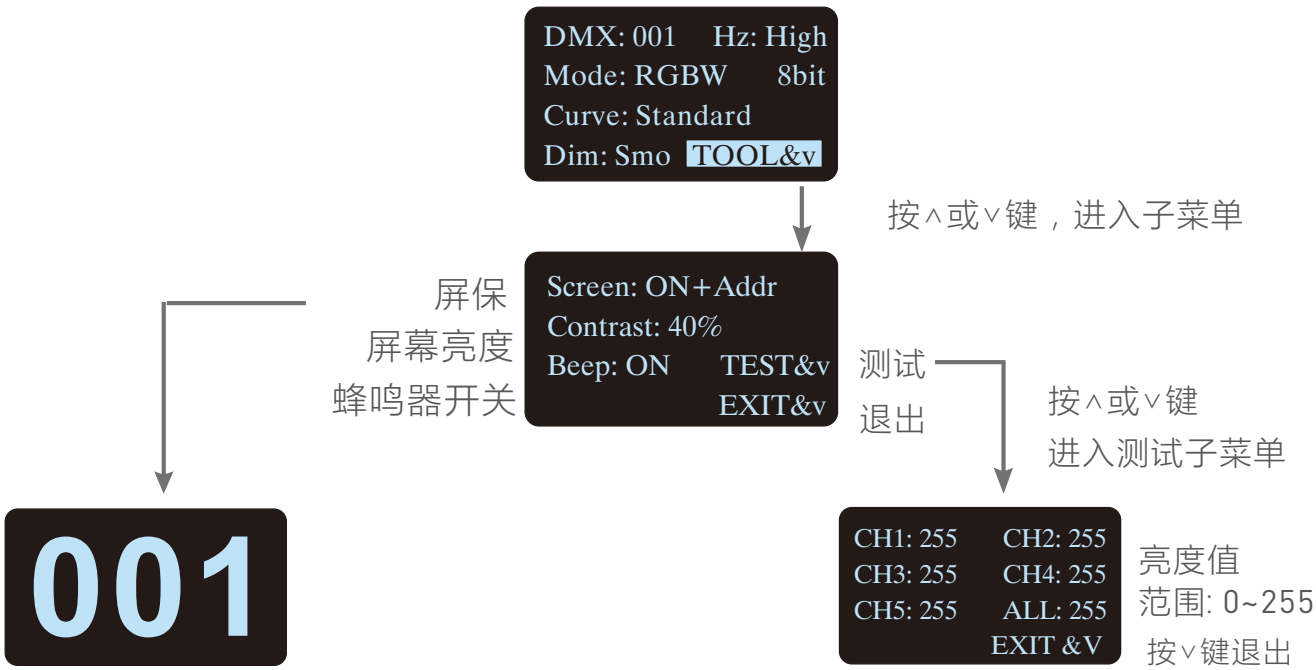
可选项：Std(标准)

Smo(平滑)

✻ 推荐使用标准

Smo: 该选项做了平滑处理，实现调光无闪烁
与动态效果更柔和

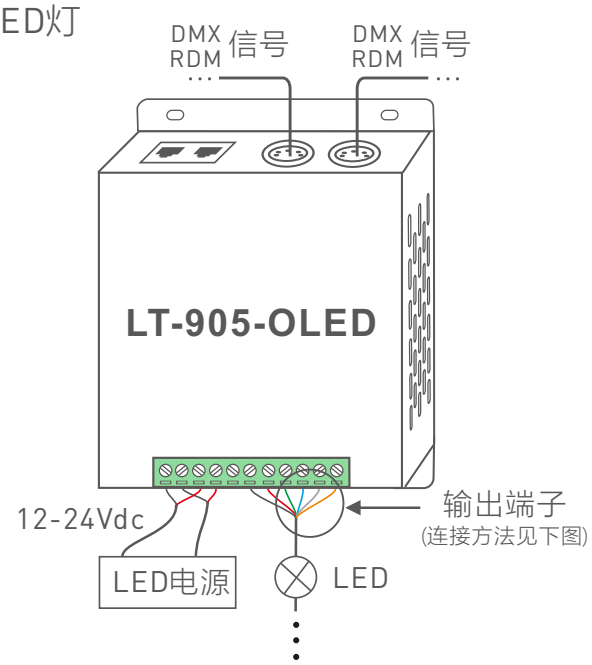
7、工具项

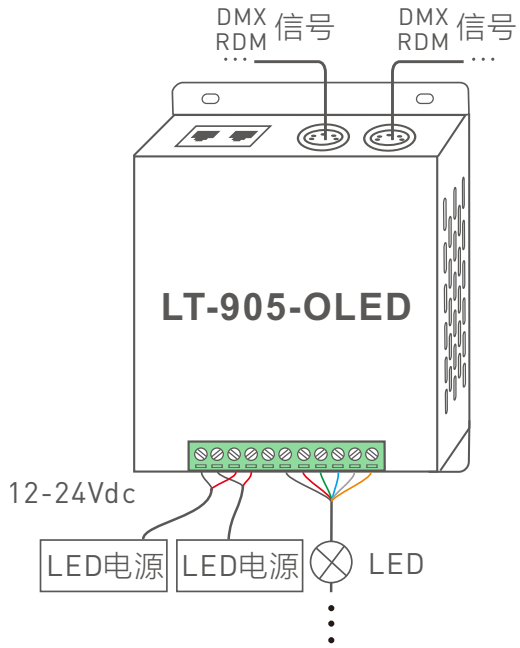


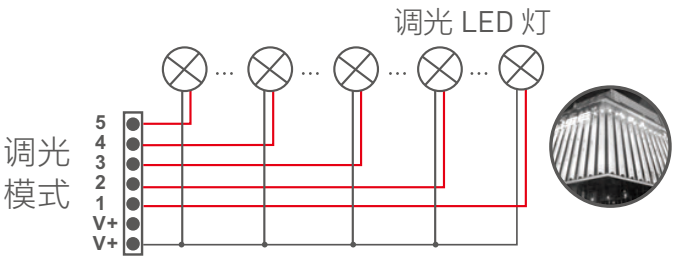
✻ 快速自测功能: 任何界面下, 同时按∧或∨键2~3秒，解码器会进入自我测试功能。

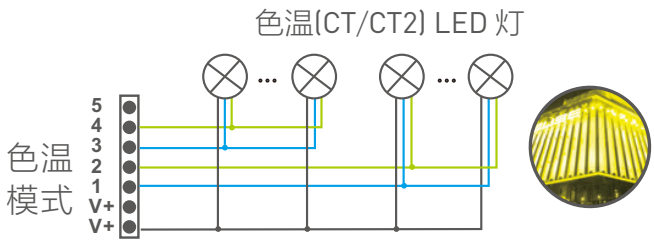
连接示意图

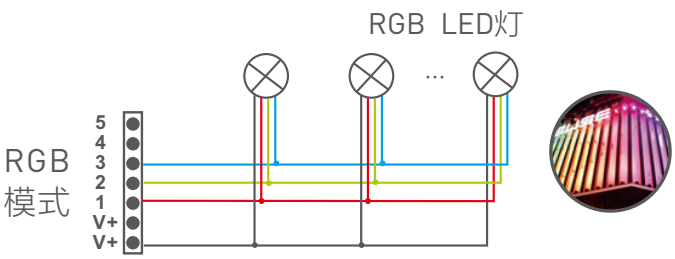
1、连接LED灯

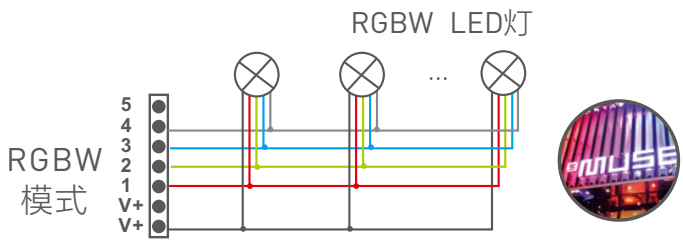


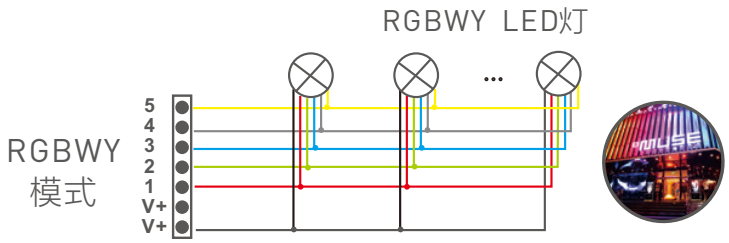




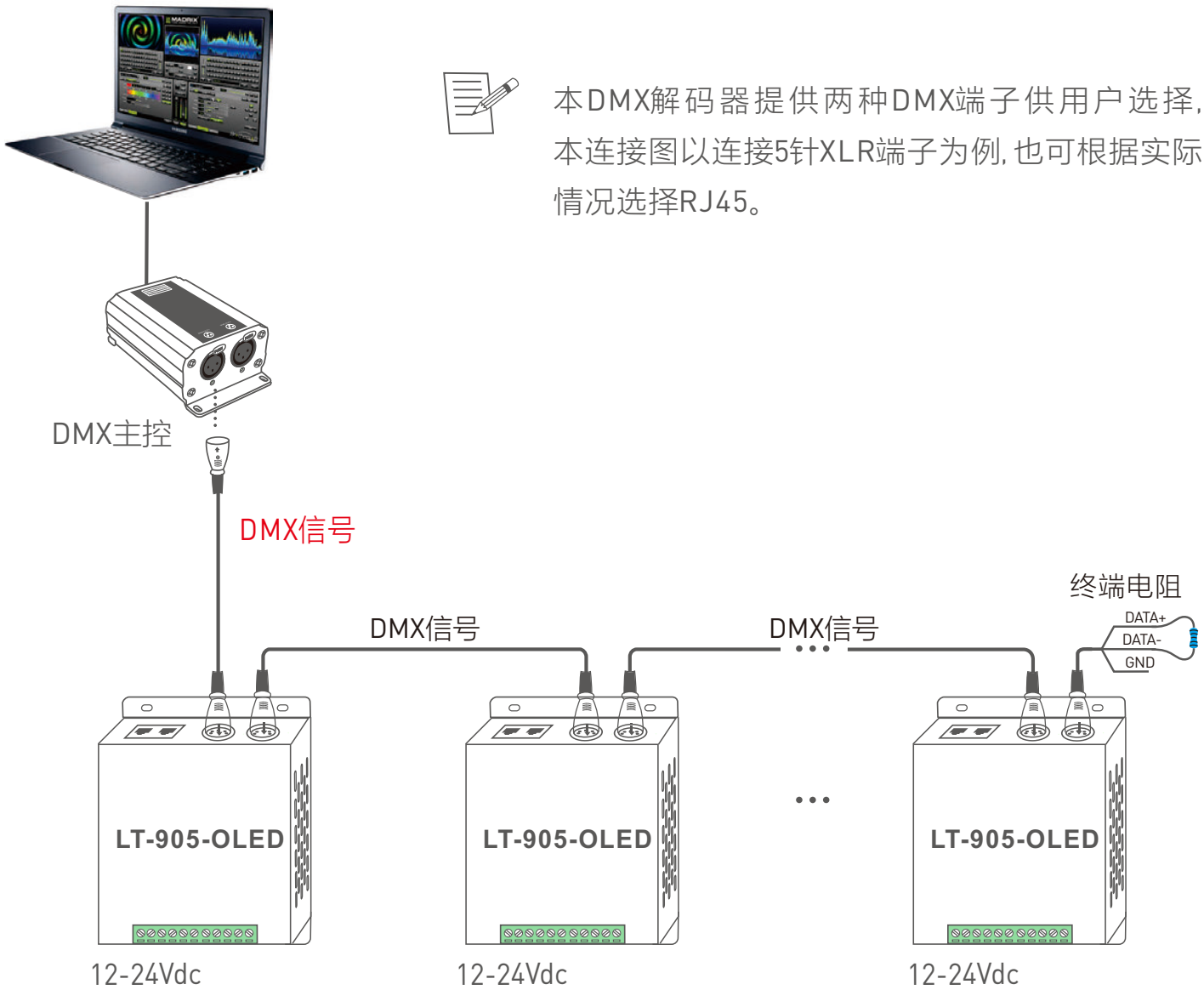








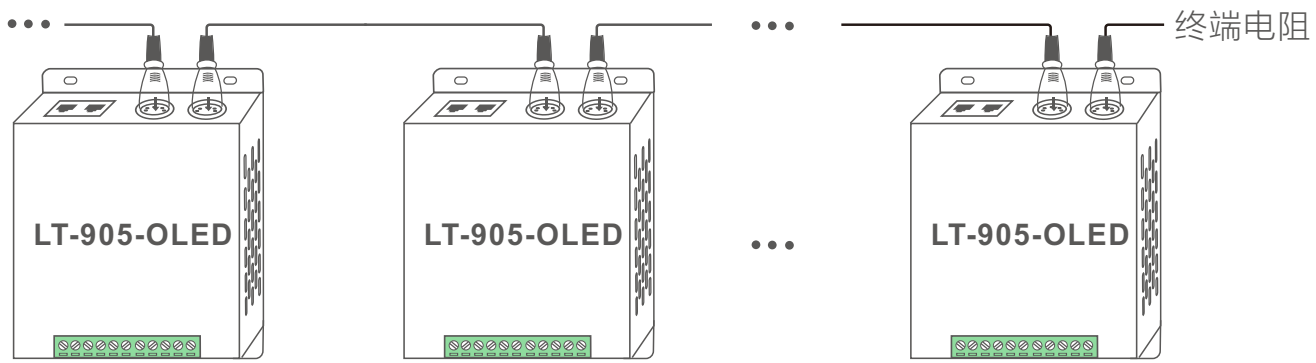
2. DMX系统连接



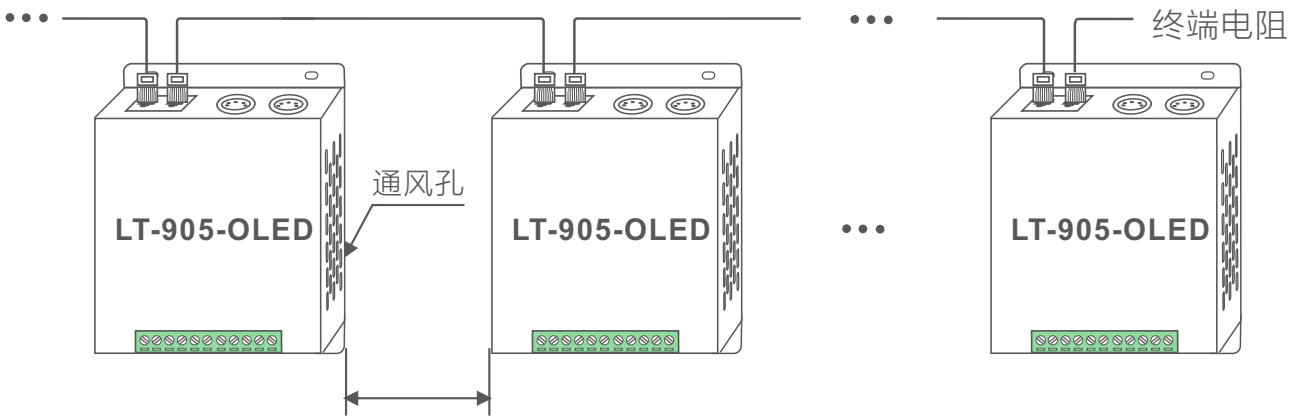
本DMX解码器提供两种DMX端子供用户选择，本连接图以连接5针XLR端子为例，也可根据实际情况选择RJ45。

* 当DMX解码器过多(超过32台)或信号线过长，需加信号放大器，信号放大不能连续超过5次。
* 当信号线较长或者线材质量等原因造成信号反冲效应影响使用，可以尝试在每路信号线末端连接0.25W 90-120Ω终端电阻解决。

3 两种DMX端口的连接示意图



5针XLR并联连接



RJ45并联连接

以上两种方式可以任意混合连接

✻ 安装注意事项： 请在解码器与解码器之间预留通风距离(最少20mm)，切勿堵塞通风孔，否则会因设备散热不畅影响使用寿命。

模式地址设置表

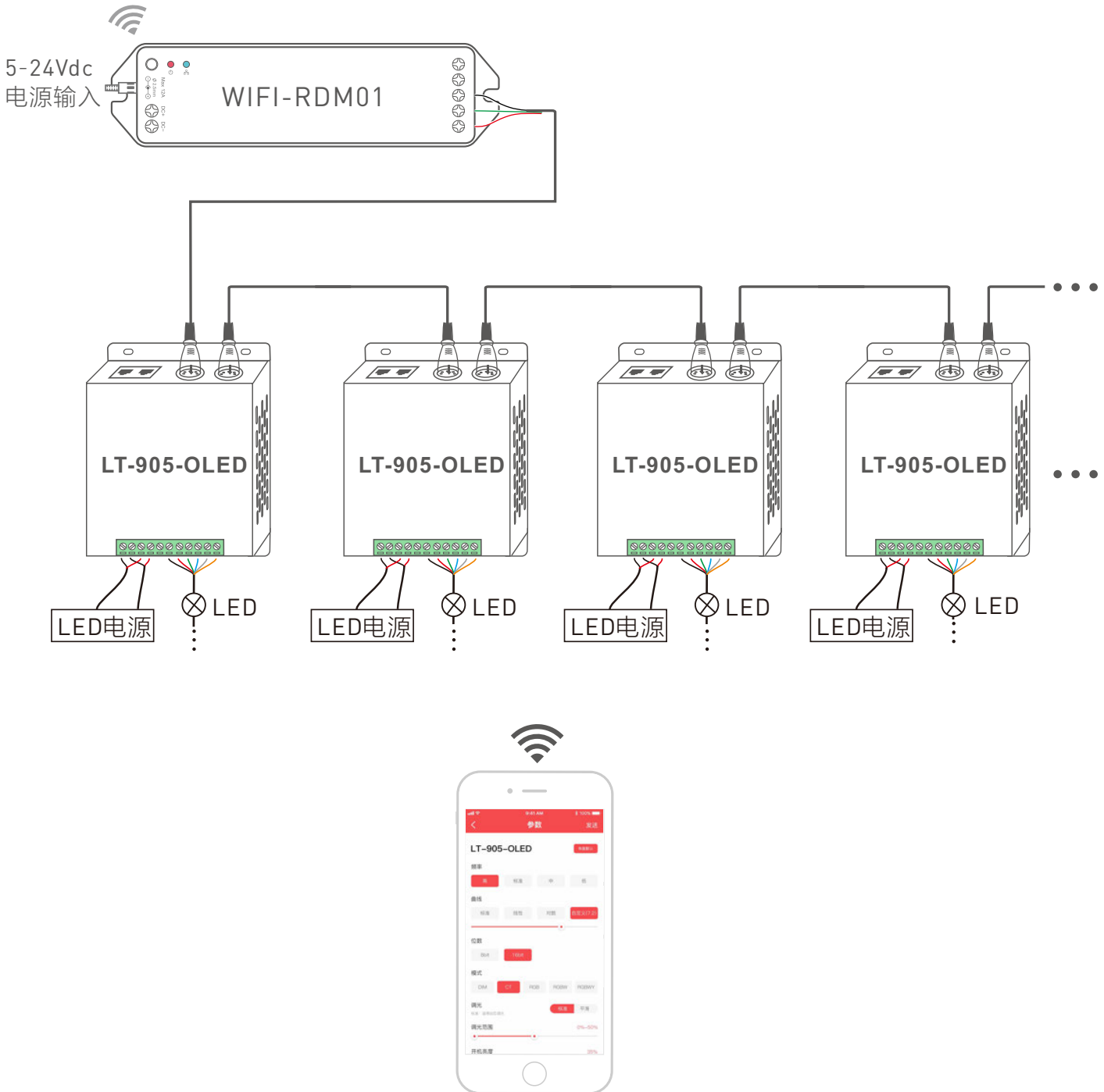
模式		DIM	CT/CT2	RGB	RGBW	RGBWY
地址数量		1	2	3	4	5
分辨率		8bit	8bit	8bit	8bit	8bit
通道数	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

模式		DIM	CT/CT2	RGB	RGBW	RGBWY
地址数量		2	4	6	8	10
分辨率		16bit	16bit	16bit	16bit	16bit
通道数	1	001 002	001 002	001 002	001 002	001 002
	2	001 002	003 004	003 004	003 004	003 004
	3	001 002	001 002	005 006	005 006	005 006
	4	001 002	003 004	005 006	007 008	007 008
	5	001 002	003 004	005 006	007 008	009 010

* 当选择模式为CT2时，DMX地址分别表示亮度及色温，恒功率输出。

与RDM编辑器配合使用

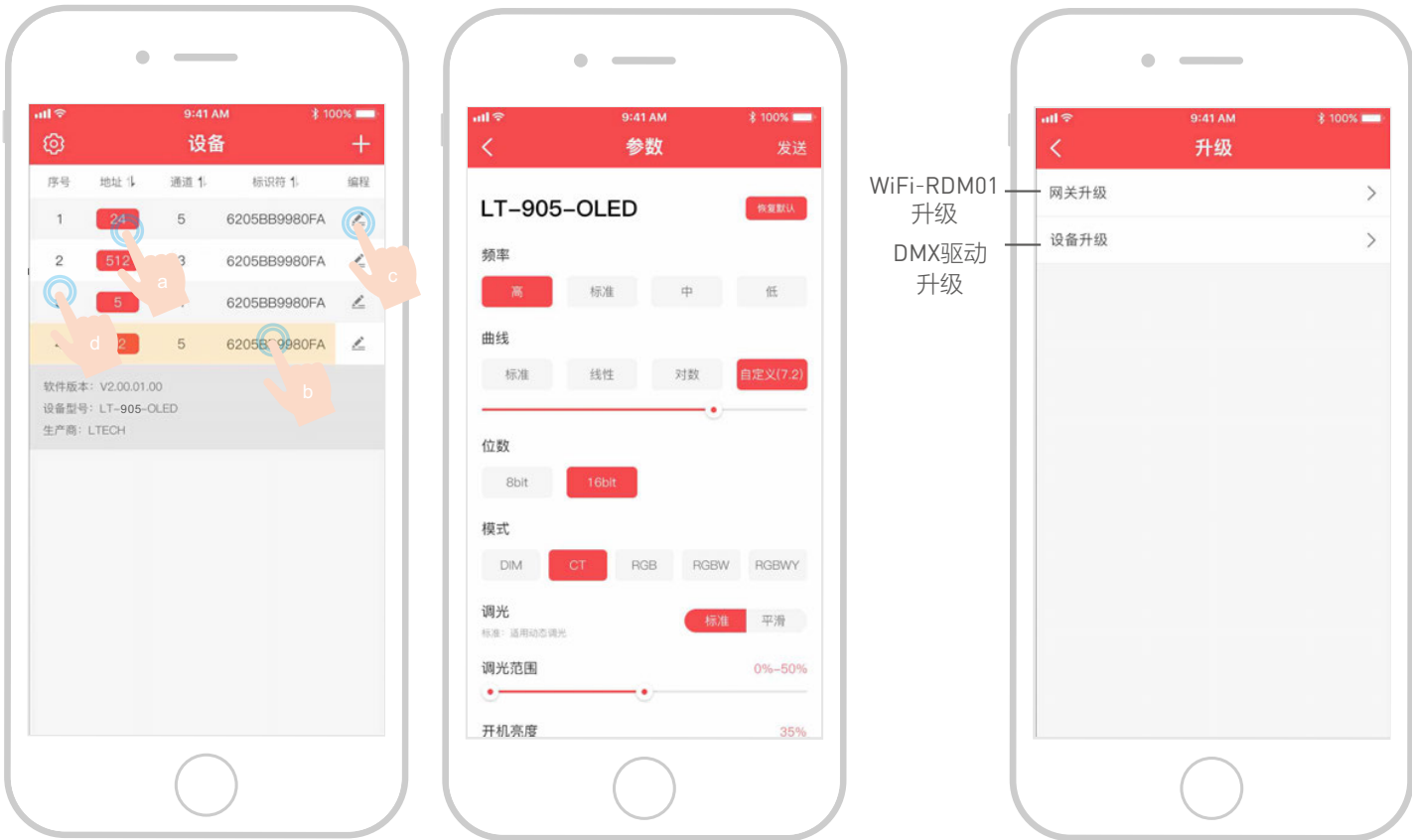
LT-905-OLED可以与我司RDM编辑器（型号WiFi-RDM01）配合使用，以实现手机远程设置更改LT-905-OLED参数的功能，连接图如下：



RDM编程器APP界面介绍

手机下载APP，与RDM编辑器连接成功后，即可通过APP设置LT-905-OLED所有参数如频率、位数、曲线、模式、调光范围、屏保等参数，具体请参看WiFi-RDM01的使用说明书。

配套使用WiFi-RDM01后，即可实现先安装再用APP设置参数及进行固件升级，随心更改，免高空作业。



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。

在APP进行固件升级

＊ 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，欢迎向我司授权的经销商咨询。

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