

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



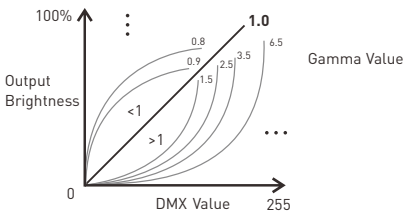
Photoelectric
isolation



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.



5-pin XLR



RJ45



RDM

Photoelectric
isolationShort circuit
protectionOver current
protectionOverheat
protection

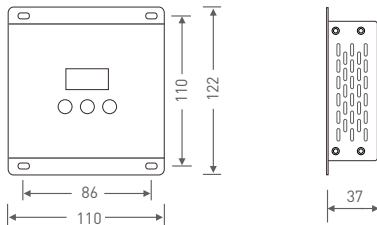
Display

Technical specs

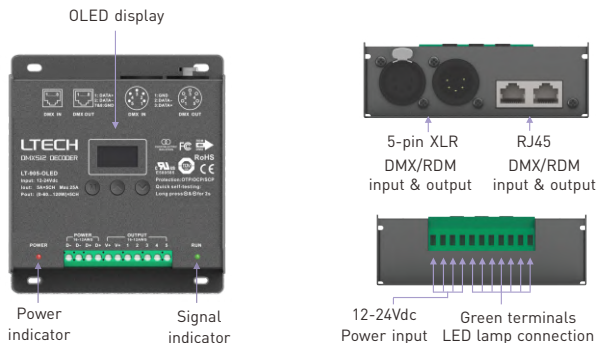
Model:	LT-905-OLED	Photoelectric isolation:	Yes
Input signal:	DMX512/RDM	Working temp.:	-30°C~65°C
Input voltage:	12~24Vdc	Dimensions:	122×110×37mm(L×W×H)
Current load:	5A × 5CH Max. 25A	Package size:	127×123×41mm(L×W×H)
Output power:	(0~60W...120W) × 5CH Max. 600W	Weight (G.W.):	550g
DMX interfaces:	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.		

Product size

Unit: mm



Main component description



OLED display interface



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

1. DMX address settings

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

Main page

Press "^" or "v" key to set DMX address.
 Range: 001-512

2. PWM frequency

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

Press “^” or “v” key to choose.

Option :

Std (standard)
 High
 Mid (middle)
 Low

No flicker in video camera.

Smooth and delicate,
 human eye is comfortable.

* It is recommended to use standard.

3. Modes

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

Press “^” or “v” key to choose.

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

4. Grey scale

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

Press “^” or “v” key to choose.

Available : 8bit

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

5. Dimming curves

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

Press “^” or “v” 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 “v” key to choose.

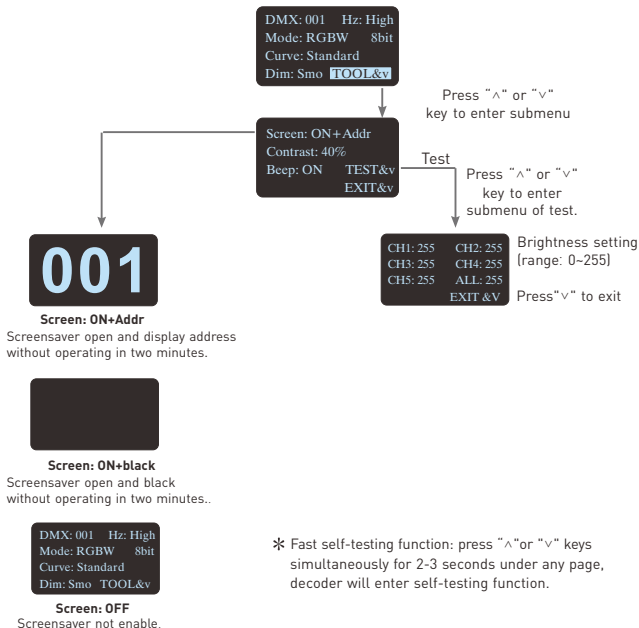
Available : **Std (standard)**

Smo (smooth)

* It is recommended to use standard.

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

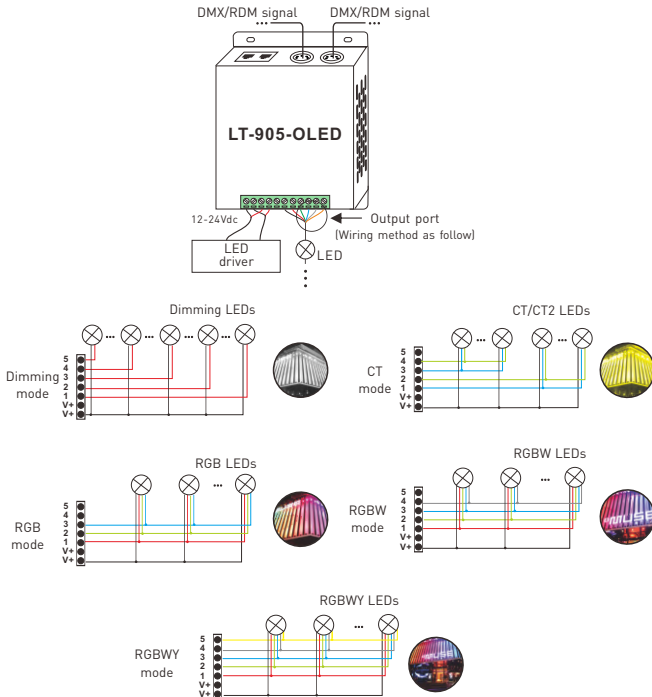
7. Tool



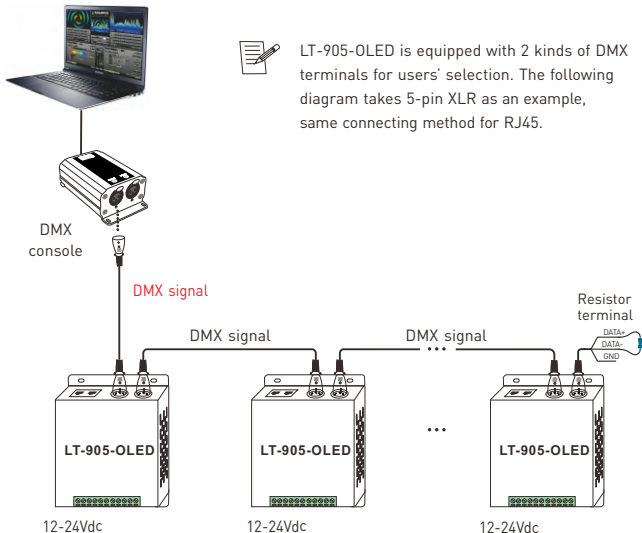
* Fast self-testing function: press “^” or “v” keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring diagram

1. Connecting LED lights:



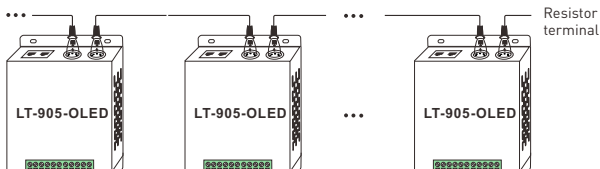
2. DMX console connection:



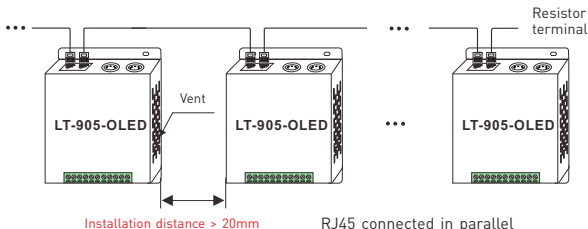
An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

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



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

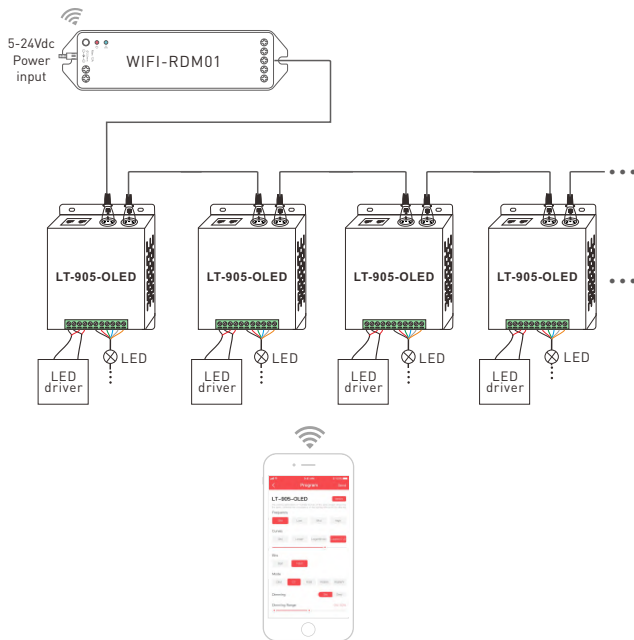
Mode		DIM	CT/CT2	RGB	RGBW	RGBWY
Address quantity		1	2	3	4	5
Resolution		8bit	8bit	8bit	8bit	8bit
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

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

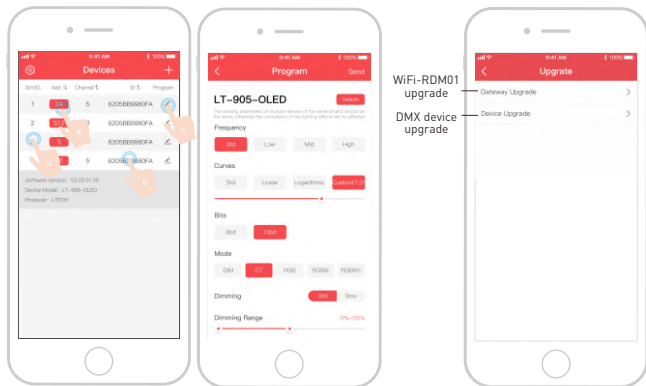
LT-905-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



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.

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

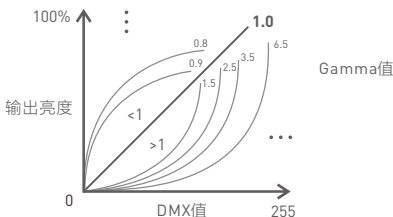
短路、过流、过温保护



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。



5针XLR



RJ45



RDM



光电隔离



短路保护



过流保护



过温保护



显示

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

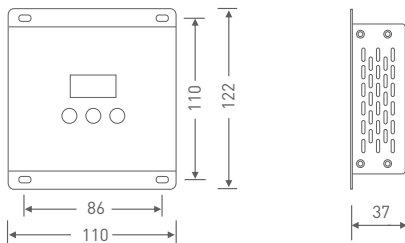
产品尺寸：L122×W110×H37mm

包装尺寸：L127×W123×H41mm

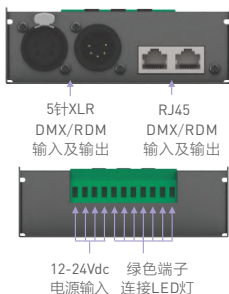
重量(毛重)：550g

产品尺寸

单位: mm



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v键，调整参数
EXIT: 返回至上一级菜单

1、DMX地址设置

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

按^或v键，进行DMX地址设置
范围：1~512

主显示界面

2、PWM频率

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

按^或v键进行选择

可选项:

Std(标准)
 High(高)
 Mid(中)
 Low(低)

平滑细腻
 人眼舒适

* 推荐使用标准

拍摄无闪烁

3、模式

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

按^或v键进行选择

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

4、灰度等级

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

按^或v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

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

按^或v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

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

按^或v键进行选择

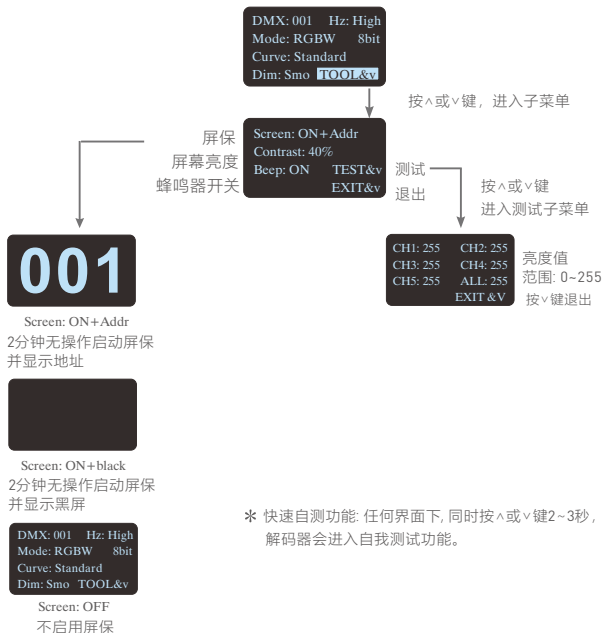
可选项: **Std(标准)**

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

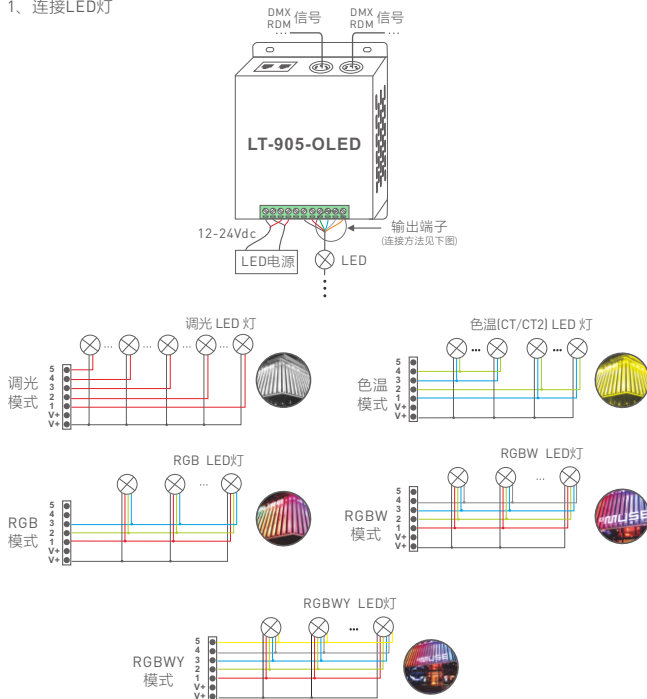
7、工具项



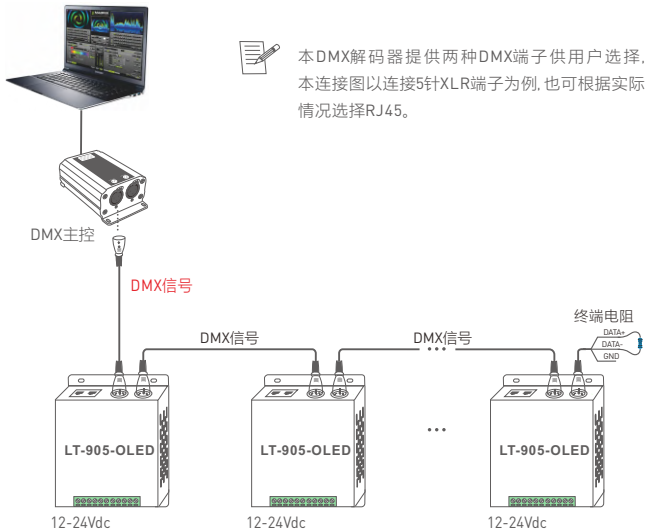
* 快速自测功能: 任何界面下, 同时按^或v键2~3秒, 解码器会进入自我测试功能。

连接示意图

1、连接LED灯



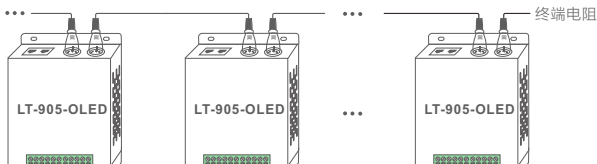
2. DMX系统连接



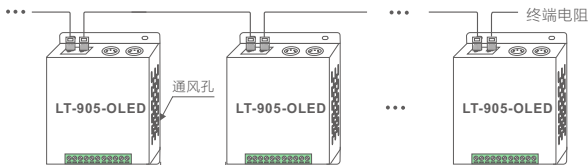
* 当DMX解码器过多(超过32台)或信号线过长, 需加信号放大器, 信号放大不能连续超过5次。

* 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



安装距离不少于20mm 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

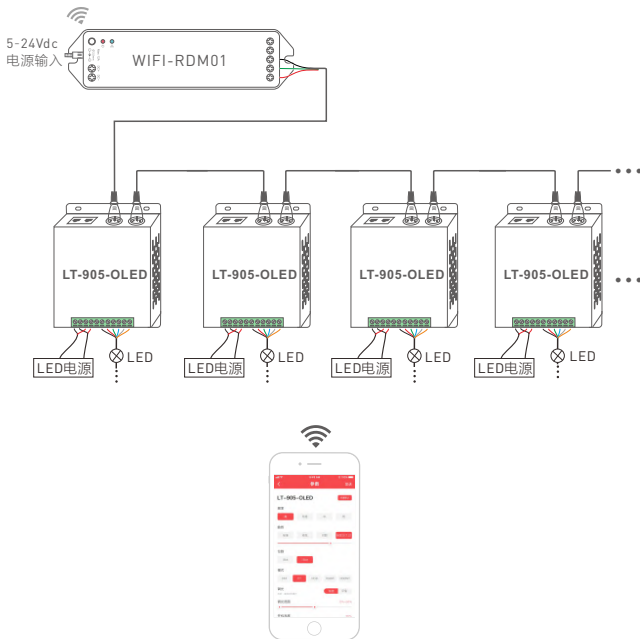
模式		DIM	CT/CT2	RGB	RGBW	RGBWY
地址数量		1	2	3	4	5
分辨率		8bit	8bit	8bit	8bit	8bit
通道数	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

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

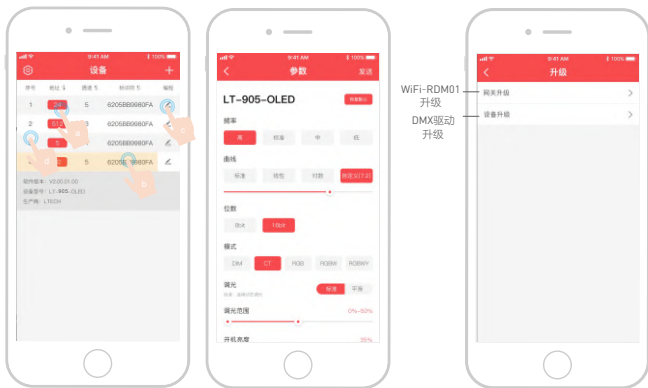
LT-905-OLED可以与我司RDM编辑器（型号WiFi-RDM01）配合使用，以实现手机远程设置更改LT-905-OLED参数的功能，连接图如下：



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。