

LTECH

DMX512 DECODER

LT-995-OLED

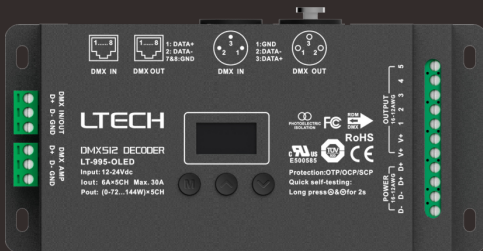


OLED display
8 bit / 16 bit
3 kinds of DMX interfaces
Dimming curve: 0.1~9.9



Photoelectric
isolation

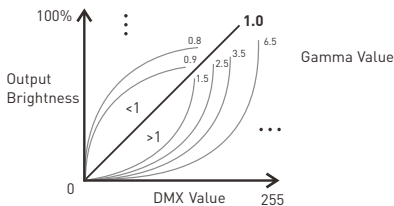
Short circuit / Over current / Over-heat protection



www.ltech-led.com

Product Introduction

1. Designed with 5 channels output, and Max. 6A current per channel, up to 720W output power.
2. Easy operation with OLED screen and the touch buttons.
3. 5 kinds of mode optional: Dim, CT, RGB, RGBW, RGBWY.
4. Support 3 kinds of DMX ports with signal isolation function: 3-pin XLR, RJ45 and green terminal (with signal amplifier function).
5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognition, etc.
6. With firmware upgrade function.
7. With short circuit, over current and over-heat protection, as well as warning function when fault.
8. With power-on state management and fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.
10. Optional for standard, linear, LOG or custom 0.1-9.9 dimming curve.



3-pin XLR



RJ45



RDM

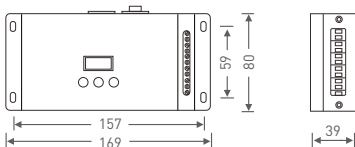
Photoelectric
isolationShort circuit
ProtectionOver current
protectionOver-heat
protection

Display

Technical Specs

Model:	LT-995-OLED
Input Signal:	DMX512/RDM
Input Voltage:	12~24Vdc
Current Load:	6A × 5CH Max. 30A
Output Power:	(0~72W...144W) × 5CH Max. 720W
DMX Interface:	3-pin XLR, RJ45, green terminal
Control Mode:	DIM/CT/RGB/RGBW/RGBWY
Dimming Curve:	0.1~9.9
Grey Level:	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation:	Yes
Protection:	Short circuit / Over current / Over-heat protection, recover automatically
Working Temperature:	-30°C~65°C
Dimensions:	L169×W80×H39mm
Package Size:	L182×W91×H41mm
Weight (G.W.):	550g

Unit: mm

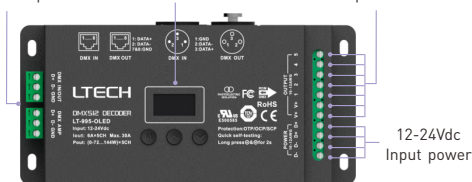


Main Component Description

Green terminal
DMX/RDM
input & output

OLED screen

Green terminals
LED lamps connection



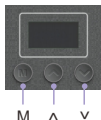
12-24Vdc
Input power



3-pin XLR
DMX/RDM
input & output

RJ45
DMX/RDM
input & output

OLED Screen Interface



Press "M" key, switch entries.

Long press "M" key, back to main page.

Press "^" or "v" key, parameter adjustment.

Exit: back to previous page.

1. DMX Address Setting

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. Mode

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

Press “^” or “v” key to choose.

Option:

DIM / CT / CT2 / RGB / RGBW / RGBWY

4. Grey Level

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

Press “^” or “v” key to choose.

Option : 8bit

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

5. Dimming Curve

DMX: 001 Hz: High
 Mode: RGB 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

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

Press “^” or “v” key to choose.

Option : Std (standard)

Smo (smooth)

* It is recommended to use standard.

Smo: This option with smooth processing, realize the dimming flicker-free and dynamic effects more downy.

7. Tool

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

Press “^” or “v” key to enter submenu.

Screen: ON+Addr
Contrast: 40%
Beep: ON TEST&V
EXIT&V

Press “^” or “v” key to enter submenu of test.

001

Screen: ON+Addr

Screensaver open and display address if undo for 2 minutes.

CH1: 255 CH2: 255
CH3: 255 CH4: 255
CH5: 255 ALL: 255
EXIT &V

Brightness setting (range: 0~255)

Press “v” to exit

Screen: ON+black

Screensaver open and black if undo for 2 minutes.

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

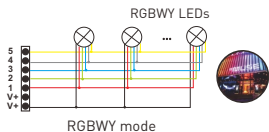
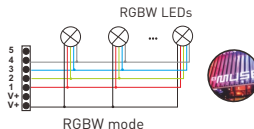
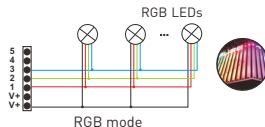
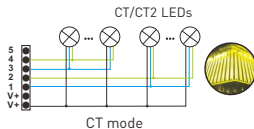
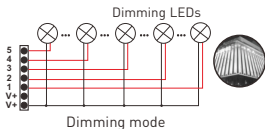
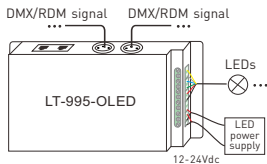
Screen: OFF

Screensaver not enable.

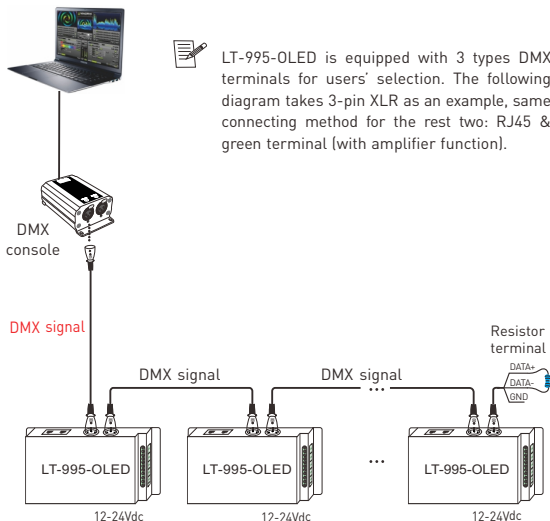
* Fast self-testing function: press “^” or “v” keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring Diagram

1.Connecting LED lights:

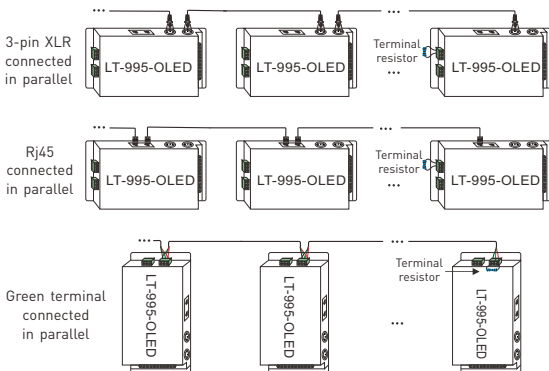


2. DMX console connection:



- * 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.

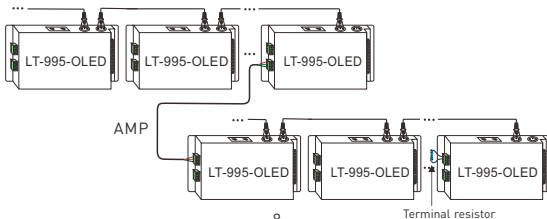
3. The connection diagram of 3 kinds of DMX/RDM terminals:



These 3 terminals can be connected in a mixed way.

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.



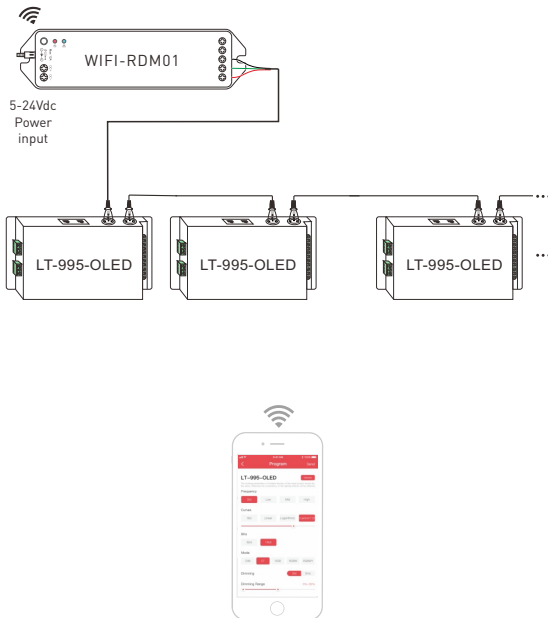
Address setting table

Mode		DIM	CT/CT2	RGB	RGBW	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

Work with RDM Editor

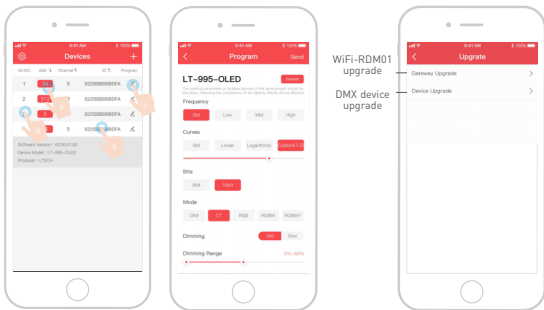
LT-995-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM Editor APP Interface Instructions

Download the APP, setting the LT-995-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", edited 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-995-OLED

5

CHANNELS

OLED显示屏

8 bit / 16 bit

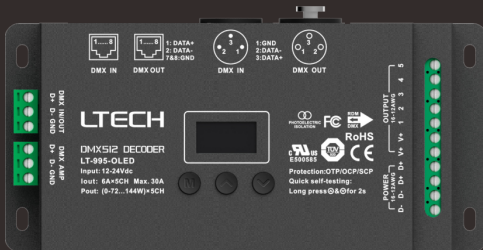
3种DMX接口

调光曲线: 0.1-9.9

短路、过流、过温保护



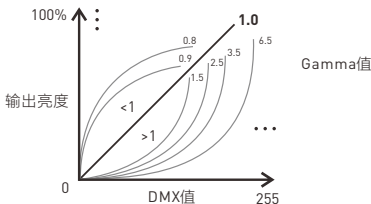
光电隔离



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产品介绍:

- 1、本产品共有5个通道输出，每通道最大6A电流，总功率可高达 720W。
- 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3针XLR、RJ45、绿色端子三种具有信号隔离功能的DMX接口。
- 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。



3针XLR



RJ45



RDM



光电隔离



短路保护



过流保护



过温保护

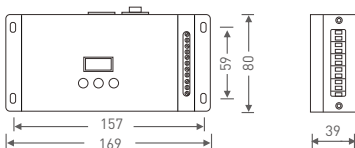


显示

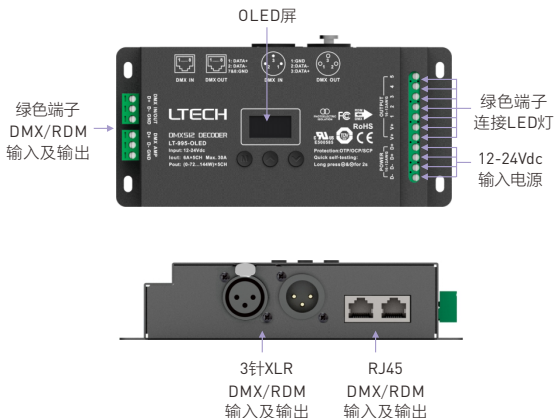
性能参数:

产品型号	LT-995-OLED
输入信号:	DMX512/RDM
输入电压:	12- 24Vdc
负载电流:	6A×5路 Max. 30A
输出功率:	(0~72W...144W)×5路 Max. 720W
DMX接口:	3针XLR, RJ45, 绿色端子
控制模式:	DIM/CT/RGB/RGBW/RGBWY
调光曲线:	0.1~9.9,标准,线性,对数
灰度等级:	8bit[256级]/16bit[65536级]可选
光电隔离:	有
保护:	短路、过流、过温保护,可自动恢复
工作温度:	-30 ~65
产品尺寸:	L169×W80×H39mm
包装尺寸:	L182×W91×H41mm
重量(毛重):	550g

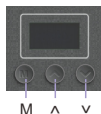
单位: mm



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: RGB 8bit
Curve: Standard
Dim: Smo TOOL&v

主显示界面

按^或v键，进行DMX地址设置
范围：1~512

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) 拍摄无闪烁
High(高)
Mid(中)
Low(低)
平滑细腻 人眼舒适 * 推荐使用标准

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

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

按^或v键, 进入子菜单

Screen: ON+Addr
Contrast: 40%
Beep: ON TEST&v
EXIT&v

测试
退出

按^或v键
进入测试子菜单

001

Screen: ON+Addr

2分钟无操作启动屏保
并显示地址

CH1: 255 CH2: 255
CH3: 255 CH4: 255
CH5: 255 ALL: 255
EXIT &V

亮度值
范围: 0~255
按v键退出

Screen: ON+black

2分钟无操作启动屏保
并显示黑屏

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

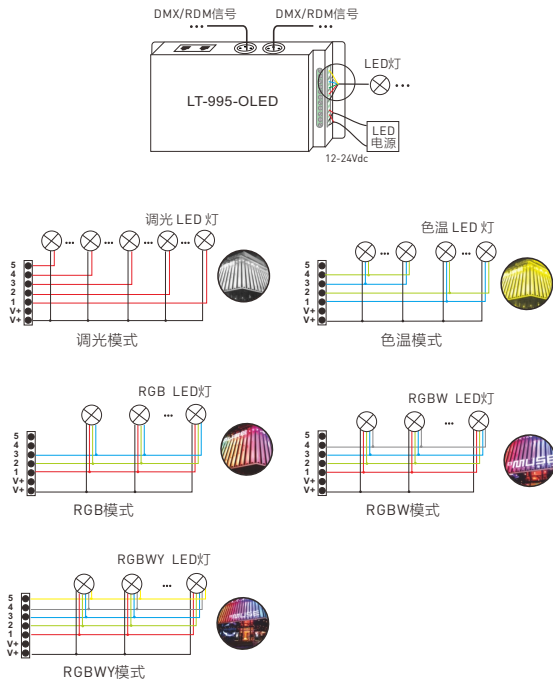
Screen: OFF

不启用屏保

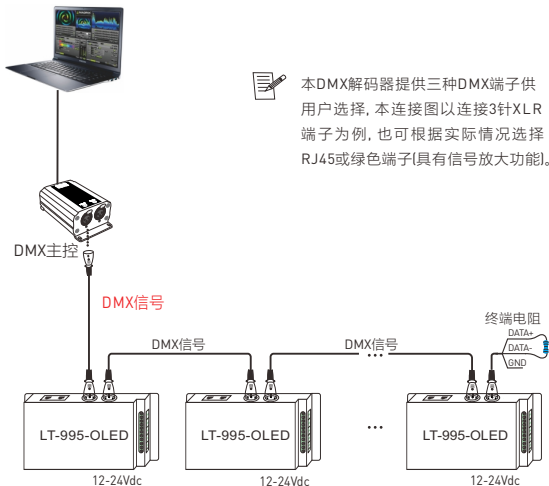
* 快速自测功能: 任何界面下, 同时按^或v键2~3秒,
解码器会进入自我测试功能。

连接示意图:

1 连接LED灯

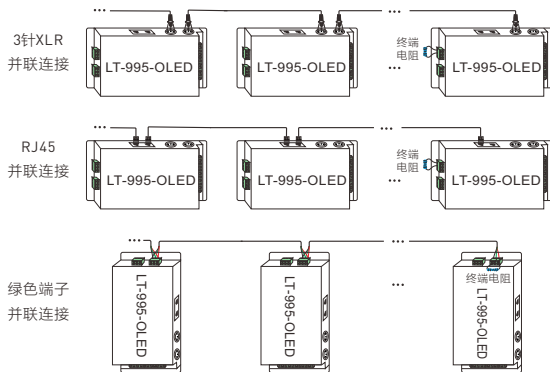


2. DMX系统连接



- * 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 90-120 Ω 终端电阻解决。

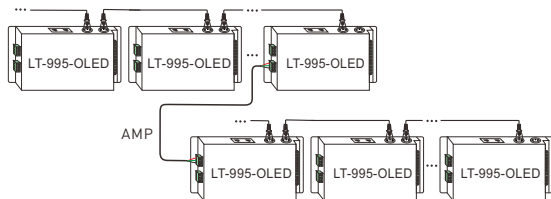
3 三种DMX端口的连接示意图



以上三种方式可以任意混合连接

4 AMP信号放大端子连接图

***** 当DMX解码器过多(超过32台),或信号线过长,需加信号放大器或使用绿色端子接口进行信号放大(见下图),信号放大不能连续超过5次。



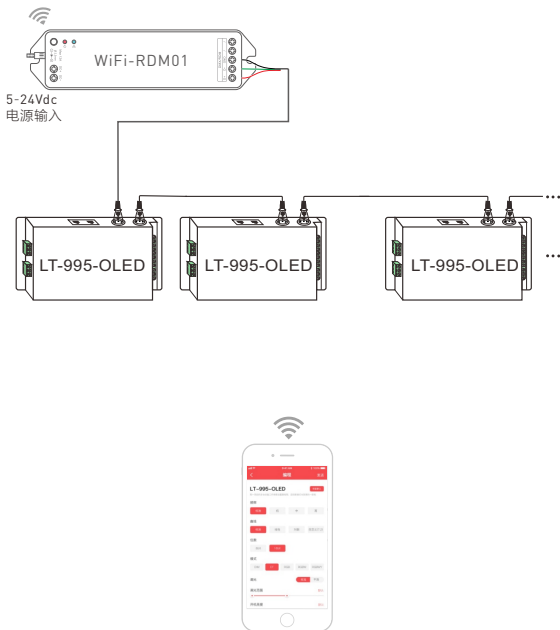
模式地址设置表

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

与RDM编辑器配合使用:

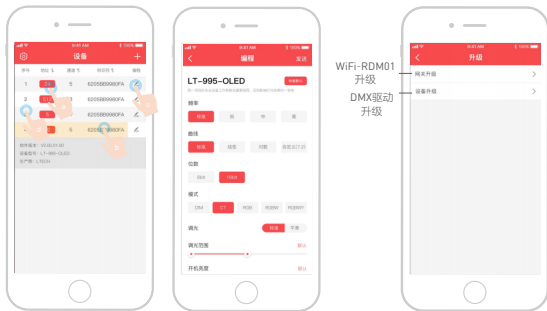
LT-995-OLED可以与我司RDM编辑器（型号WiFi-RDM01）配合使用，以实现手机远程设置更改LT-995-OLED参数的功能，连接图如下：



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-995-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“编程”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, 请与供应商联系。