

LTECH

DMX512 DECODER

LT-905



8 bit / 16 bit

2 kinds of DMX interfaces

OTP/OCF/SCP protection



www.ltech-led.com

Product Introduction

1. Designed with 5 channels output, and Max. 5A current per channel, up to 600W output power.
2. Easy operation with digital display and touch buttons.
3. 3-pin XLR, RJ45 DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability.
4. 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.
5. With firmware upgrade function.
6. With short circuit / over-heat / over current protection, as well as warning function when fault.
7. With power-on state management and fast self-testing function.
8. High/low PWM frequency for option.
9. 16bit (65536 levels) / 8bit (256 levels) grey level for option.



3-pin XLR



RJ45

Photoelectric
isolation

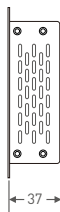
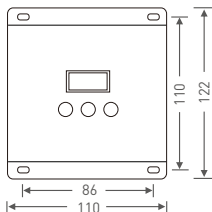
RDM

Short circuit
ProtectionOver-heat
protectionOver current
Protection

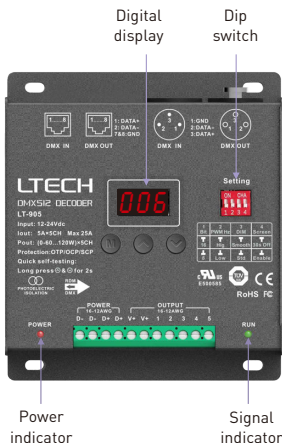
Technical Specs

Model:	LT-905
Input Signal:	DMX512/RDM
DMX Interface:	3-pin XLR, RJ45
Input Voltage:	12~24Vdc
Current Load:	5A × 5CH Max. 25A
Output Power:	(0~60W...120W) × 5CH Max. 600W
Grey Level:	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation:	Yes
Protection:	Short circuit / Over-heat / Over current protection, recover automatically.
Working Temp.:	-30°C~65°C
Dimensions:	L122×W110×H37mm
Package Size:	L127×W123×H41mm
Weight (G.W.):	550g

Unit: mm



Main Component Description



Digital display

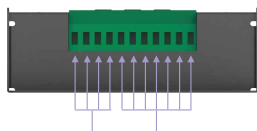
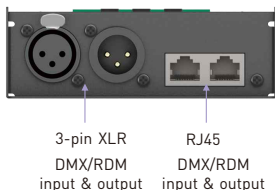


- Digital display will enter the locked mode without operating after 15S.
- Long press "M" key to unlock.
- Short press "M" key to switch numbers.
- Press "v" key to adjust value.

Dip switch

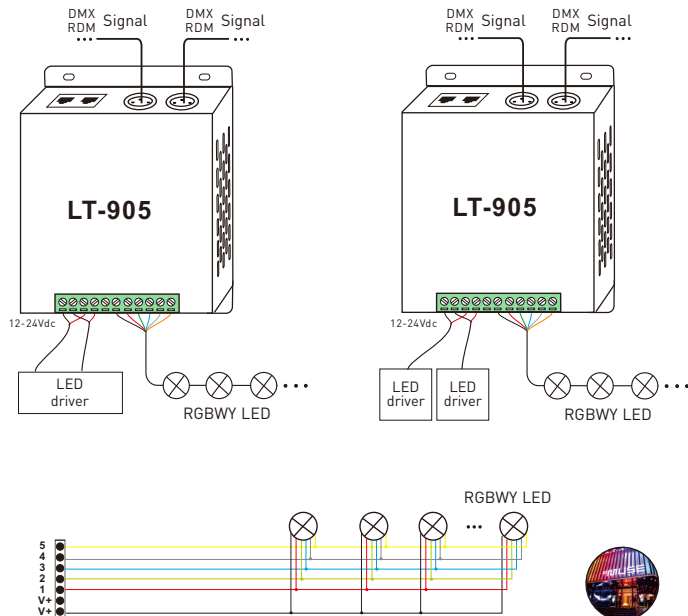


1	2	3	4
Bit	PWM Hz	DIM	Screen
16	Hig	Smooth	30S off
8	Low	Std	Enable

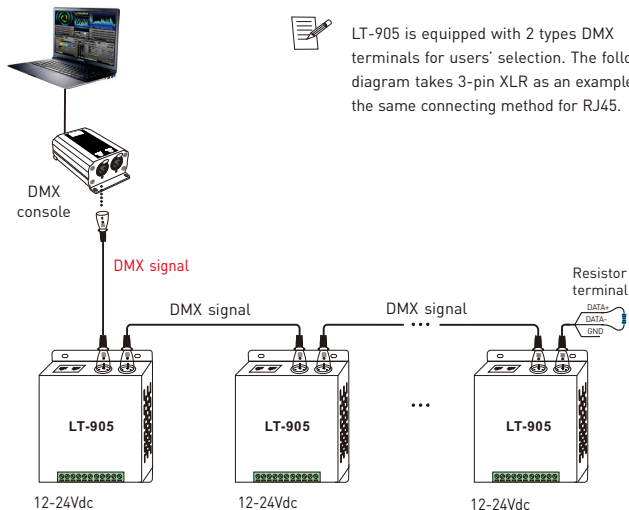


Wiring Diagram

1 Connecting LED lights:

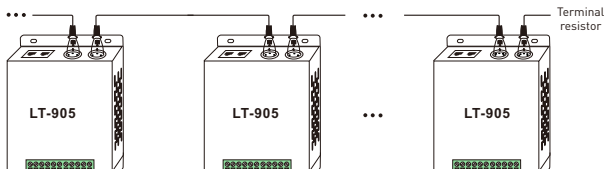


2. DMX console connection:

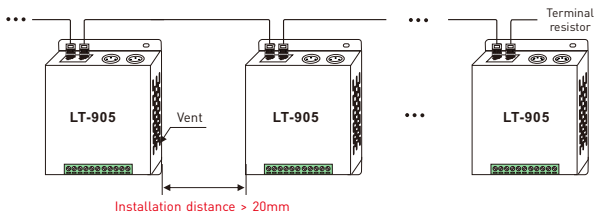


- * An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.
- * If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

3. The connection diagram of 2 kinds of DMX/RDM terminals:



3-pin XLR connected in parallel



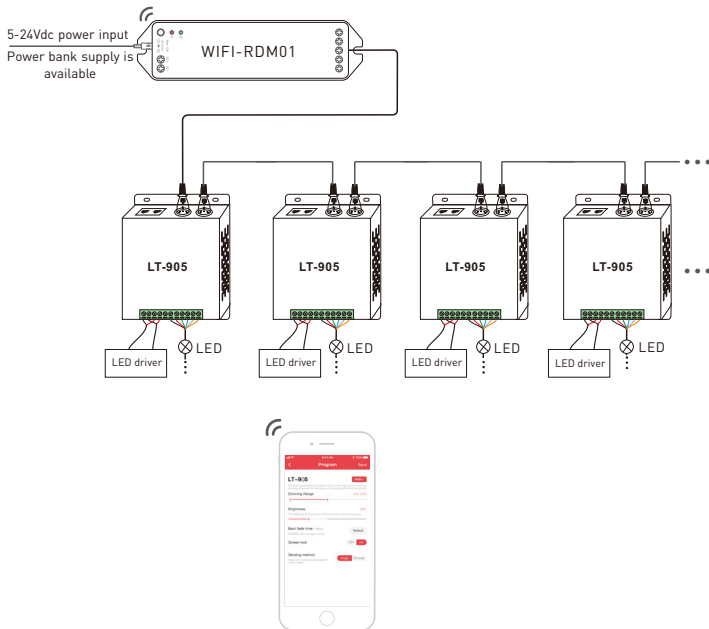
Rj45 connected in parallel

These 2 terminals can be connected in a mixed way.

*** Installation Attention :** Please reserve enough ventilation distance between decoders (>20mm), Be sure not to block the vent, or it will affect lifetime of the decoder for poor heat dissipation.

Work with RDM Editor

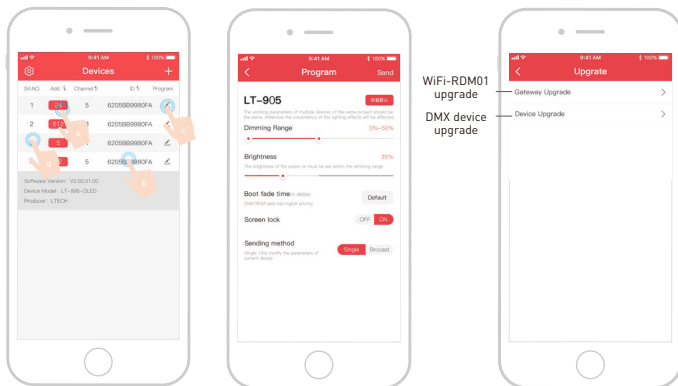
LT-905 can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM Editor App Interface Instructions

Download the App, set LT-905 parameters (dimming range, brightness, boot fade time etc.) after well connecting the RDM editor, More details, please check the manual of WiFi-RDM01.

Well install products first, then work with WiFi -RDM01 to realize parameters setting and firmware upgrade by App.



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

WiFi-RDM01
upgrade
DMX device
upgrade

Supporting WiFi-RDM01 upgrade
and DMX driver upgrade.

* This manual is subject to changes without further notice.
Product functions depends on the goods.
Please feel free to contact our official distributors if you have any question.

LTECH 雷特

DMX512 DECODER

LT-905



8 bit / 16 bit

2种DMX接口

短路、过温、过流保护



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、使用数码管和轻触按键设置地址，操作简单快捷；
- 3、提供3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。
- 4、具有RDM远程管理协议，通过RDM主控可对其进行参数浏览与设置、DMX地址修改、设备识别等操作。
- 5、具有固件升级功能。
- 6、具有短路、过温、过流自动保护与恢复功能，并有故障警示提示功能。
- 7、具有上电状态管理及快速自测功能。
- 8、PWM频率可选高频/低频。
- 9、16bit(65536级)/8bit(256级)灰度级可选。



光电隔离



3针XLR



RJ45



RDM



短路保护



过温保护



过流保护



性能参数:

产品型号: LT-905

输入信号: DMX512/RDM

DMX接口: 3针XLR, RJ45

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

灰度等级: 8bit(256级)/16bit(65536级)可选

光电隔离: 有

保护: 短路、过温、过流保护
可自动恢复

工作温度: -30°C~65°C

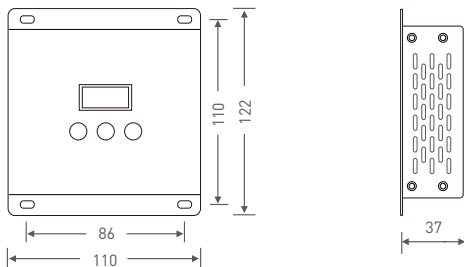
产品尺寸: L122×W110×H37mm

包装尺寸: L127×W123×H41mm

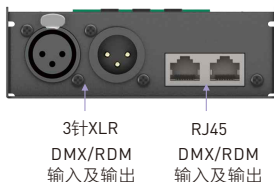
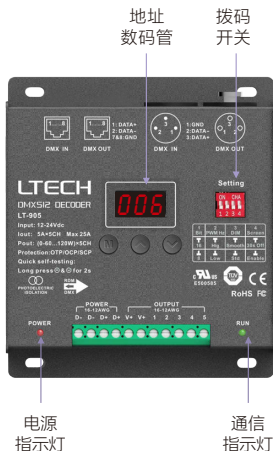
重量(毛重): 550g

产品尺寸:

单位: mm



部件图:



地址数码管

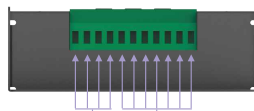


- 数码管无人使用15秒将进入锁定状态
- 长按“M”键解锁
- 短按“M”键切换至另一数字
- 按“^”“v”键调整数值

拨码开关



1	2	3	4
灰度级	PWM Hz	调光	显示
16	高	平滑	30秒后关
8	低	标准	开

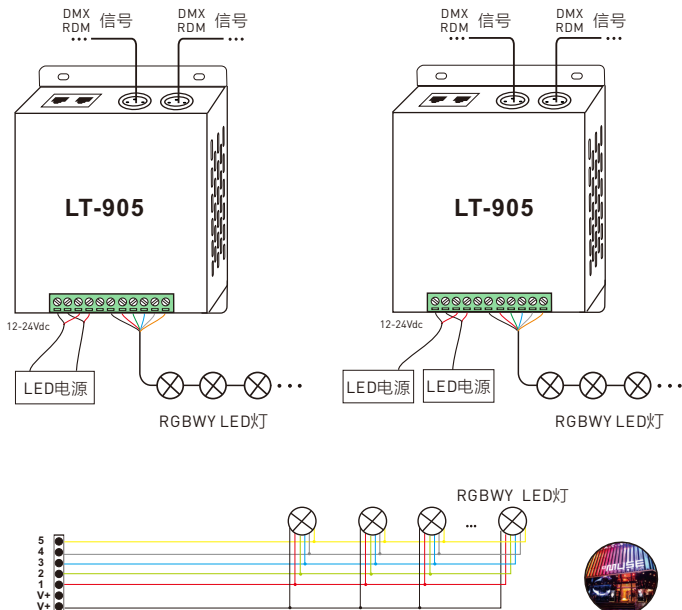


12-24Vdc
电源输入

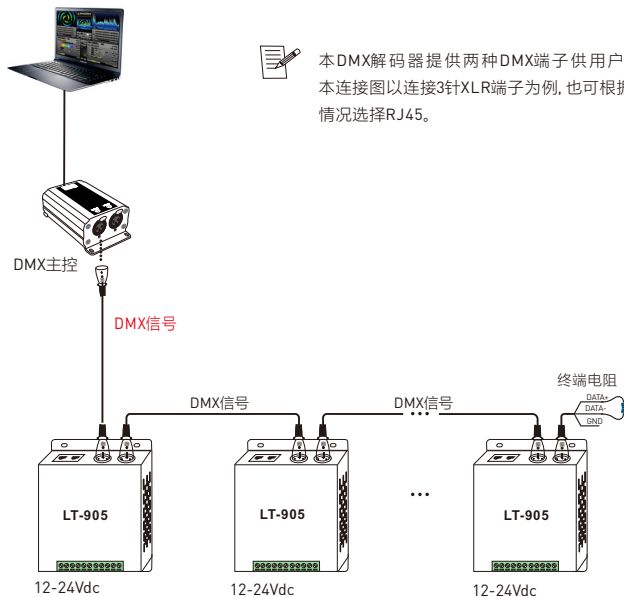
绿色端子
连接LED灯

连接示意图:

1 连接LED灯



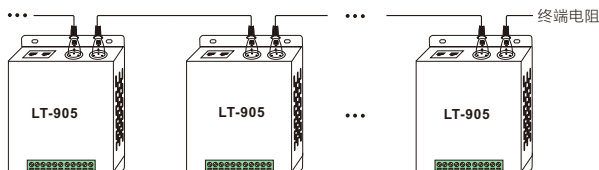
2. DMX系统连接



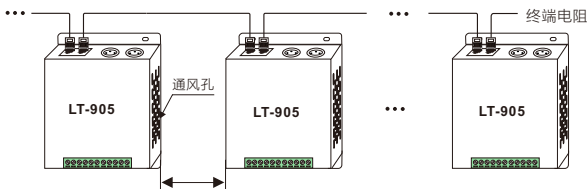
本DMX解码器提供两种DMX端子供用户选择, 本连接图以连接3针XLR端子为例, 也可根据实际情况选择RJ45。

- * 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



3针XLR并联连接



安装距离不少于20mm

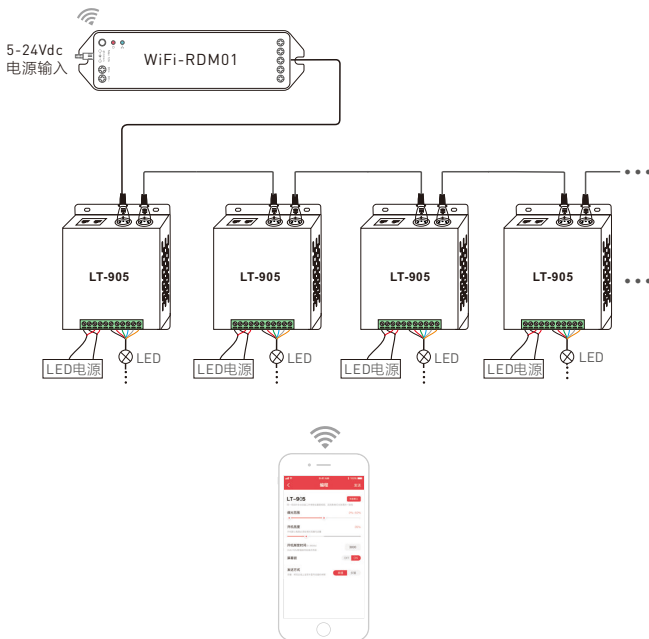
RJ45并联连接

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。

与RDM编辑器配合使用:

LT-905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的调光范围、开机亮度、开机渐变时间等参数, 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, 请与供应商联系。