

LT-820-5A 16bit DMX/RDM CV DECODER



LT-820-5A is the world's first OLED display DMX decoder, with standard RDM remote device management protocol, supports DMX512 signal bi-directional communication, achieves remote management of reading and writing DMX address (DMX master controller must recognize RDM protocol). Outstanding performance with following features:

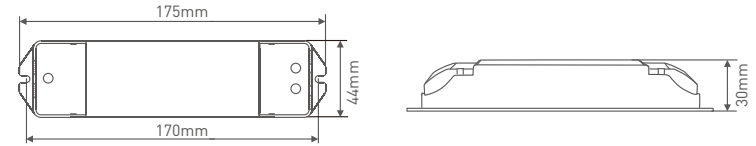
- OLED real-time display.
- 16bit / 8bit input.
- 3 dimming curve optional.
- Short circuit / Over current / Over-heat protection.
- Built-in protection circuit of resistance to lightning stroke and ESD static electricity.

1. Product Parameter:

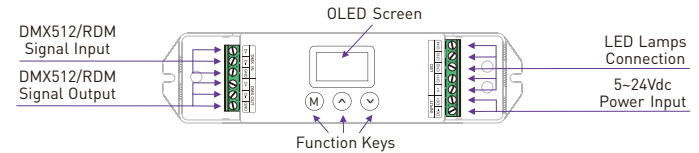
LT-820-5A DMX/RDM CV Decoder

Input signal:	DMX512/RDM	Protection:	Short circuit/ Over current
Input voltage:	5~24Vdc		Over-heat protection
Load current:	5A × 4CH / 6A × 3CH Max. 20A	Working temp.:	-30°C~55°C
Output power:	[0...25~120W] × 4CH Max. 480W	Dimensions:	L175×W44×H30mm
Dimming range:	0~100%	Package size:	L178×W48×H33mm
		Weight (G.W.):	175g

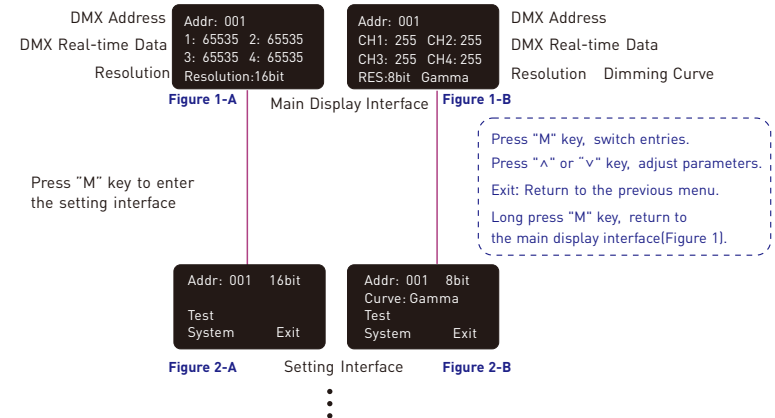
2. Product Size:



3. Main Component Description:



4. OLED Screen Interface Diagram:

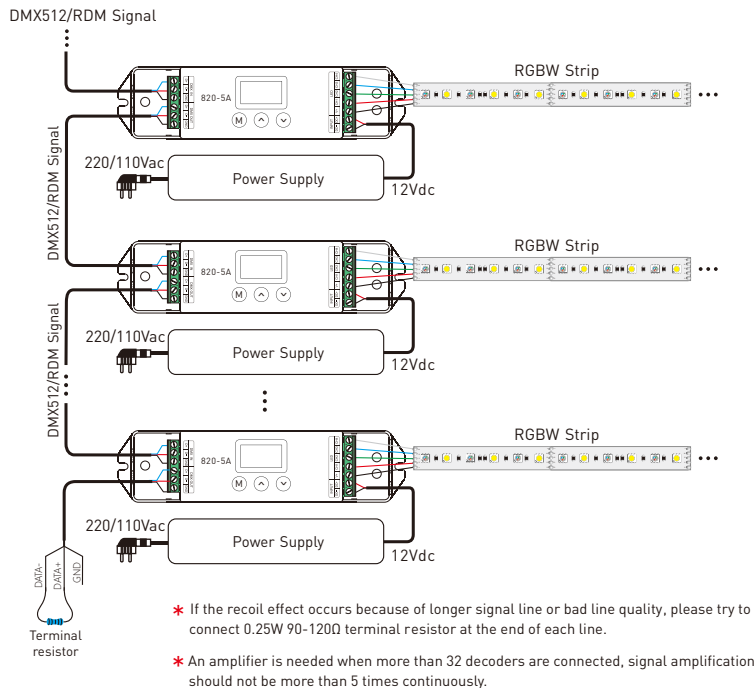


Please refer to the OLED display for detailed information.

LT-820-5A will run the test scenes only when you enter "self-testing" interface. Screensaver enable time: undo for 2 min in the main display interface (Figure 1).

[Restore the default parameters] : In the main display interface(Figure 1), Long press "M" "A" "V" 3 keys simultaneously, LT-820-5A will restore the default parameters, and the screen display "Device restore default" for 2 seconds, then it will return to the main display interface (Figure 1).

5. Wiring Diagram:



LED Voltage Chosen:

This controller can wire to the LED lamps with a voltage ranges from 5~24Vdc if the input voltage equals output voltage, for example:

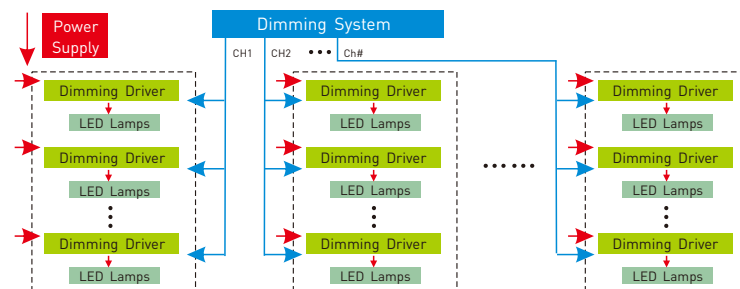
the lamp with 5V working voltage, please use 5V power supply,
the lamp with 12V working voltage, please use 12V power supply,
the lamp with 24V working voltage, please use 24V power supply.



• LED Power Chosen:

This controller can load a current ranges from 0~20A,
a 5V lamp may load a power ranges from 0~100W;
a 12V lamp may load a power ranges from 0~240W;
a 24V lamp may load a power ranges from 0~480W.
The power chosen must be 20% higher than the actual load.
The principle for power chosen: the more the better.

6. System Connection Diagram:



7. Attention:

- 7.1 The product shall be installed and serviced by the qualified person.
- 7.2 This product is non-waterproof, please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 7.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 7.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 7.5 Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 7.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7.7 If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

8. Warranty Agreement:

- 8.1 We provide lifelong technical assistance with this product:
- A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
 - For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.
- 8.2 Warranty exclusions below:
- Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
 - The product appears to have excessive physical damage.
 - Damage due to natural disasters and force majeure.
 - Warranty label, fragile label and unique barcode label have been damaged.
 - The product has been replaced by a brand new product.
- 8.3 Repair or replacement as provided under this warranty is the exclusive remedy to the customer. LTECH shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
- 8.4 Any amendment or adjustment to this warranty must be approved in writing by LTECH only.
- ★This manual only applies to this model. LTECH reserves the right to make changes without prior notice.

LT-820-5A
16bit 恒压DMX/RDM解码器



LT-820-5A是全球首款OLED屏显示的DMX解码器，各项性能表现卓越，显示界面内容清晰；加入标准的RDM远程设备管理协议，支持DMX512信号双向通讯，可以实现远程读取/写入DMX地址等管理功能(DMX主控需支持RDM协议)。具有以下特点：

- OLED实时显示
- 16bit/8bit输入
- 3种调光曲线选择
- 具有短路、过流、过温保护
- 内置抗雷击及ESD静电保护电路

一、性能参数:

LT-820-5A 恒压DMX/RDM解码器

信号输入：DMX512/RDM

输入电压：5-24Vdc

负载电流：5A×4路 Max. 20A

输出功率：(0...25~120W)×4路 Max. 480W

调光范围：0~100%

保护： 短路、过流、过温保护

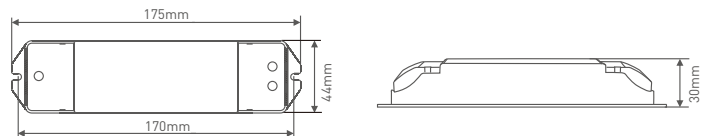
工作温度： -30℃~55℃

产品尺寸： L175×W44×H30mm

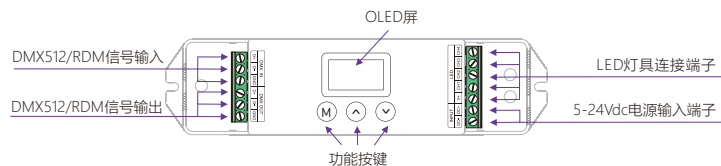
包装尺寸: L178×W48×H33mm

重量(毛重): 175g

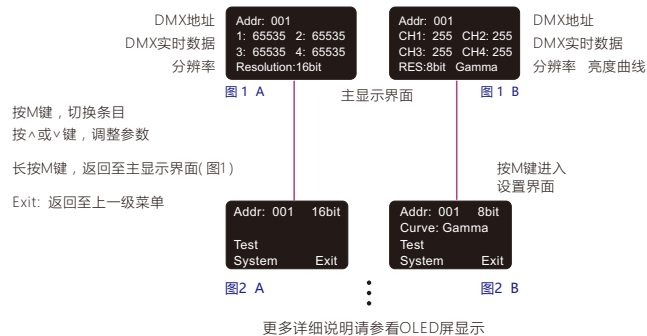
二、产品尺寸:



三、 部件图:



四、OLED屏界面关系图:



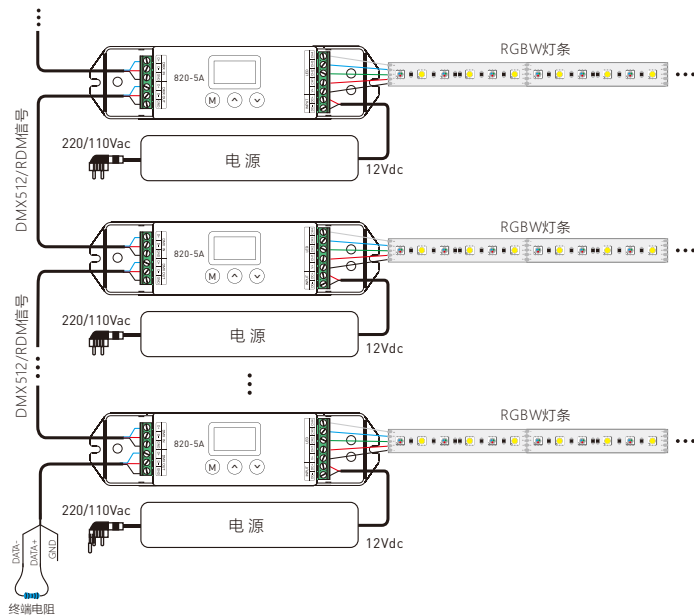
只有进入自测场景界面时，控制器才运行自测场景。

屏保启用时间: 在主显示界面下(图1), 无操作2分钟后启用屏保

[恢复默认参数]: 主显示界面下(图1), 同时长按M/Λ/v三个键, 整机恢复默认参数值, 界面显示“Device restore default”, 2秒后, 进入主显示界面(图1)

五、接线示意图:

DMX512/RDM信号



* 超过32台DMX解码器连接需加信号放大器，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射影响使用，可以尝试在每路信号线末端连接0.25W 90-120Ω终端电阻来解决。



* LED电源电压选择：

本控制器可以连接5~24Vdc电压范围的LED灯具，输入电压等于输出电压，例如：

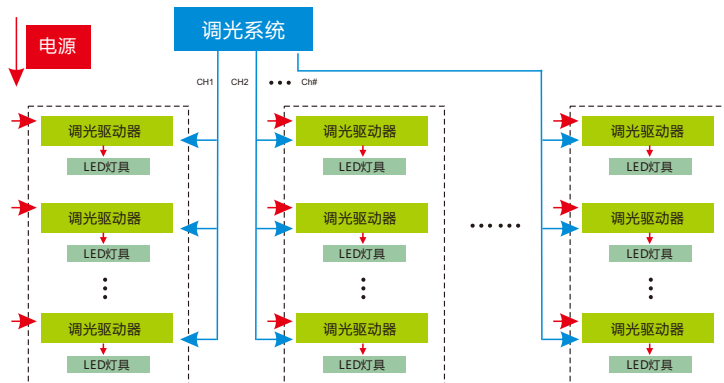
- 工作电压5V的灯具，请输入5V的电源；
- 工作电压12V的灯具，请输入12V的电源；
- 工作电压24V的灯具，请输入24V的电源。

* LED电源功率选择：

- 本控制器可负载0~20A电流，工作电压5V的灯具，可负载0~100W；
- 工作电压12V的灯具，可负载0~240W；
- 工作电压24V的灯具，可负载0~480W。

LED电源功率选择要比实际负载大20%以上，功率选择原则：可大不可小。

六、系统连接图:



七、注意事项:

1. 本产品请由具有专业资格的人员进行调试安装。
2. 本产品不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。
3. 良好的散热条件会延长LED控制器的使用寿命，请把产品安装在通风良好的环境。
4. 请检查使用的LED电源输出电压是否符合产品电压范围要求。
5. 使用的电线直径大小必须能够负载连接的LED灯具，并确保接线牢固。
6. 通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
7. 如果发生故障，请勿私自维修；如有疑问，请联系供应商。

八、保修协议:

1. 购买雷特LED控制器产品享受终身技术支持和保修服务：
 - 免费保修：自购买之日起五年内出现产品质量问题雷特将给予免费修理或更换服务。
 - 有偿保修：超过免费保修期的产品收取适当的维修材料成本费用。
2. 以下情况不在免费保修或更换服务范围之内：
 - 过电压、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。
 - 产品已经更新换代。
3. 修理或更换是雷特对客户唯一补救措施。雷特不承担任何附带引起的损害赔偿。
4. 只有雷特享有修正或调整本保修条款的权利，并以书面形式发布认定为准则。

* 本说明书仅适用于本型号产品，如有更新恕不另行通知。