

DMX/RDM Controller Series

Feature

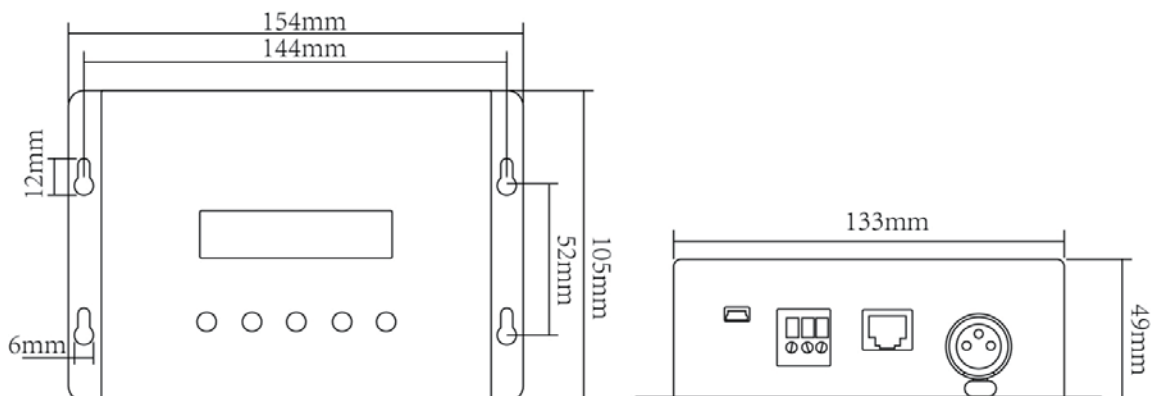
- Meet RDM(2009) protocol , compatible with DMX 512 (1990)
- Can be combined with supporting software scanning RDM equipment, set their start address, read their parameters
- Liquid crystal display visual display the current state
- Support buttons long press ,short press and Anti-shake
- 256 levels of grey, totally 16.77 million colors, really full color.
- Built-in 30 kinds of fixed mode, keep 5 kinds of custom mode for users to edit
- Parameters are automatically saved, power off is not lost
- By supporting software, we can easy update the changing effect
- Support for multiple output interface: female XLR - 3, RJ45
- Set aside a 3 line input terminals, can communicate with the glass panel to do the custom control



Technical parameter

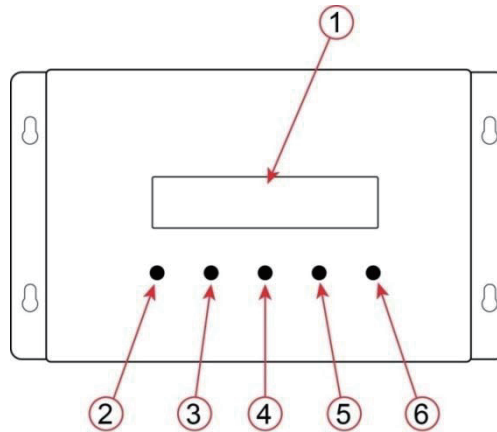
Input Voltage:	5VDC
Power Consumption:	< 5W
Transmission signal:	RDM (2009), DMX512 (1990)
Transmission speed:	250Kbps
Pixels:	Depend on channels of lamp.
Lamp type can be controlled:	Wall washing light, Tube light, Cube light etc.
Description	Fixed 30 modes, such as flash, fade, stream, chase, etc.
Size:	132(mm)*105(mm)*48(mm)
G.W:	710g
N.W:	533g

Dimension



Panel schematic

● The top panel



①LCD

②MODE+: Short press, add a change model cycle; long press, continue to add a change model cycle

③M ODE-: Short press, minus a change model cycle; long press, continue to minus a change model cycle

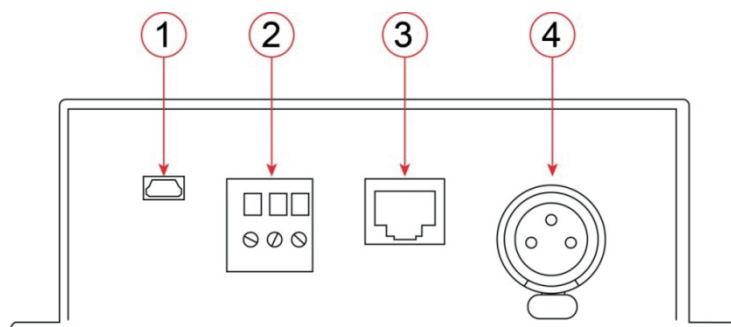
④PAUSE: Press the button, the LED keep current state

⑤LEVEL+/SPEED+: Mode1-7,Short press, brightness increase one level cycle; Long press, brightness continue to increase one level cycle; Mode 8-30, Short press, the speed cycle of LED increase one level, long press, the speed cycle of LED continue to increase one level.

⑥LEVEL-/SPEED-: Mode1-7,Short press, brightness decrease one level cycle, Long press, brightness continue to decrease one level cycle; Mode 8-30, Short press, the speed cycle of LED decrease one level, long press, the speed cycle of LED continue to decrease one level.

Note: when the press ② or ③ MODE key, which display MODE (in this controller, a total of 35 kinds of MODE) will order plus or minus change; When press the (4) the PAUSE button, the LCD will show "PAUSE" and led will hold the current state, when you press the button again, the LCD shows the current mode and speed again; When press ⑤LEVEL + / SPEED + :in mode 1-7, the brightness will increase gradually(once arrive level 255,then jump to level 0),in mode 8-30,the speed will increase gradually(once arrive 0s,then jump to 60s); When press ⑥LEVEL - / SPEED - :in mode 1-7, the brightness will decrease gradually(once arrive level 0,then jump to level 255),in mode 8-30,the speed will decrease gradually(once arrive 60s,then jump to 0s);

● The front panel



- ① Mini USB interface
- ② Three line RS485input interface
- ③ RJ45 output interface
- ④ XLR-3 female output interface

Interface Introduction

● Input Interface

Mini USB input interface: Used to provide 5V power supply, Supporting software and RDM100 medium of communication



RS485 three line input interface



- 1. GND
- 2. RS485 input D-
- 3. RS485 input D+

● Output Interface

RJ45 Output interface



- PIN1: DATA+
- PIN2: DATA-
- PIN3-6: NC
- PIN7-8: GND

XLR-3 Output interface



- PIN1.GND
- PIN2.DATA-
- PIN3.DATA+

Mode List

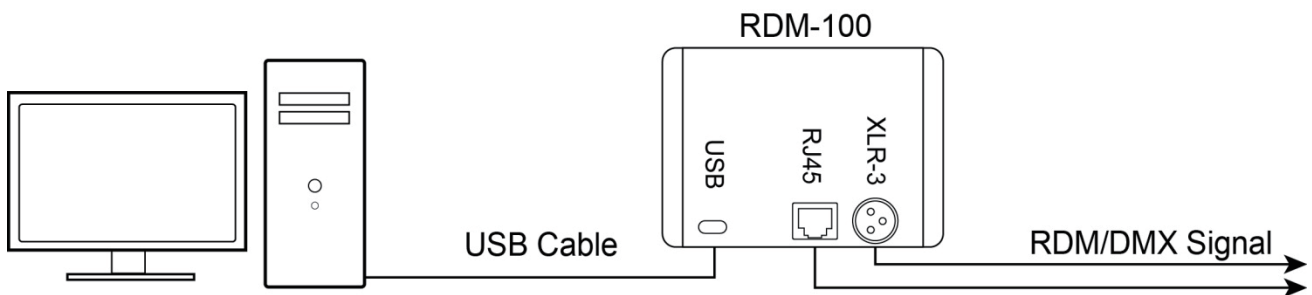
- Mode 1: Fixed Red
- Mode 2: Fixed Green
- Mode 3: Fixed Blue
- Mode 4: Fixed Yellow
- Mode 5: Fixed Light Blue
- Mode 6: Fixed Purple

- Mode16: Six color flash
- Mode17: RGB flash
- Mode18: RG flash
- Mode19: RB flash
- Mode20: GB flash
- Mode21: R flash

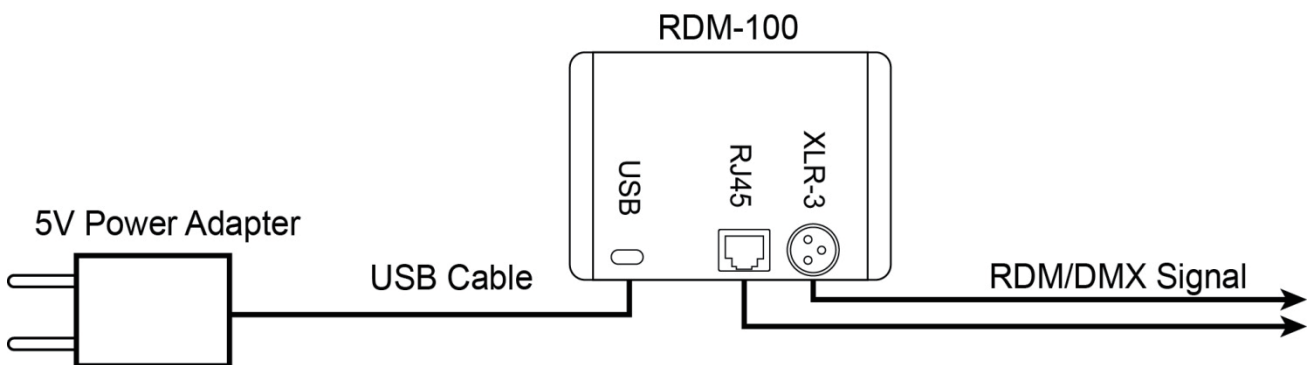
- | | |
|-------------------------------|------------------------------|
| Mode 7: Fixed White | Mode22: G flash |
| Mode 8: Seven colors fade | Mode23: B flash |
| Mode 9: Full colors fade | Mode24: Rainbow color strobe |
| Mode 10: Rainbow changing | Mode25: Six color strobe |
| Mode 11: Water flowing | Mode26: RGB strobe |
| Mode 12: Tail Chase | Mode27: RG strobe |
| Mode 13: Color stack | Mode28: RB strobe |
| Mode 14: Chase (yellow, pink) | Mode29: GB strobe |
| Mode 15: White flash | Moede30: White strobe |
- SelfMode1-5 will be introduced in the software operation sector.

Wiring Diagram

- **Live Use with computer**



- **Stand Alone Use**



Software

RDM-100 Supporting software operation instructions see the “RDM-100 User manual”

产品特性

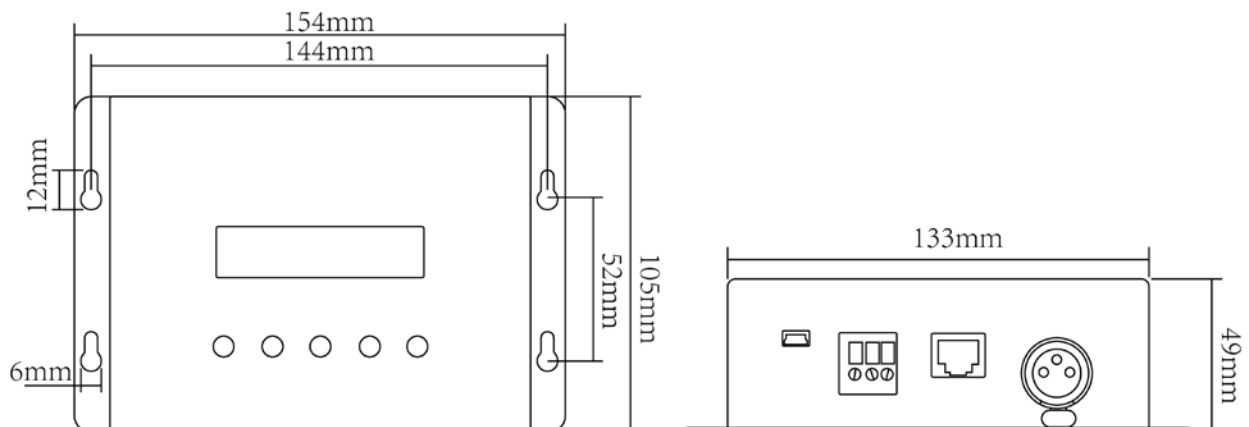
- 符合 RDM(2009)国际标准协议，兼容 DMX 512(1990) 国际标准协议
- 可结合配套软件扫描 RDM 设备，设置它们的起始地址，读取它们的参数
- 液晶显示屏直观显示当前状态
- 支持按键的长按, 短按以及防抖动操作
- 控制系统实现 R,G,B 各 256 级灰度，共可表现 1677 万种颜色，真正实现真彩色
- 内置 30 种固定模式，保留 5 种自定义模式供用户自己编辑
- 参数自动保存，断电不会丢失
- 可通过配套软件方便地进行变化效果的即时更新
- 支持多种输出接口：XLR-3 公母，RJ45
- 预留一个 3 线输入端子，可与玻璃面板通信做自定义控制



技术参数

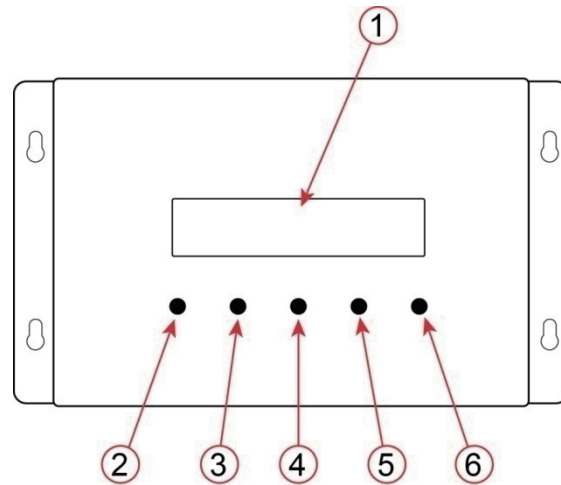
输入电压:	5VDC
消耗功率:	< 5W
传输信号:	RDM(2009), DMX512(1990)
传输速率:	250Kbps
可控灯具数:	由灯具通道数决定，总共 512 通道
可控灯具类型:	投射灯，轮廓灯，灯砖，地埋灯，水下灯等等
描述:	内置跳变，渐变，流水，追逐等 30 种效果
尺寸:	154(mm)*105(mm)*49(mm)
毛重:	710g
净重:	533g

结构尺寸



面板示意图

● 顶面板



①液晶显示屏

②MODE+: 短按，变化模式循环加一；长按，变化模式循环持续加一

③MODE-: 短按，变化模式循环减一；长按，变化模式循环持续减一

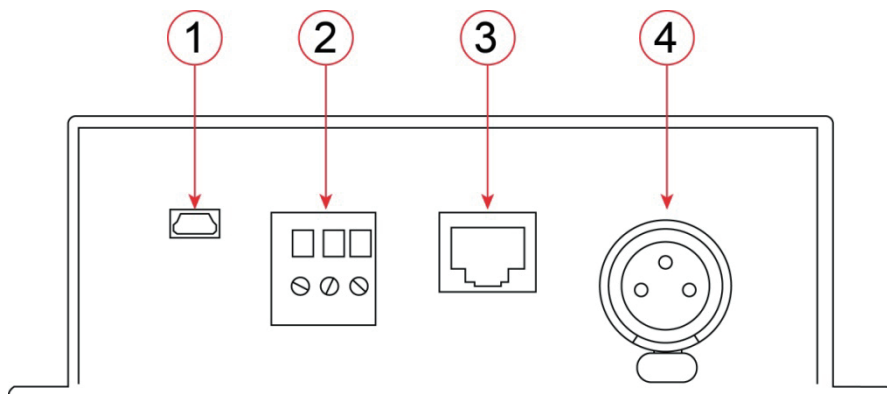
④PAUSE: 按下该键，使 LED 保持当前状态；

⑤LEVEL+/SPEED+: 模式 1-7——短按，使 LED 亮度循环增加一级；长按，使 LED 亮度循环持续增加一级；模式 8-30——短按，使 LED 速度循环增加一级；长按，使 LED 速度循环持续增加一级

⑥LEVEL-/SPEED-: 模式 1-7——短按，使 LED 亮度循环减小一级；长按，使 LED 亮度循环持续减小一级；模式 8-30——短按，使 LED 速度循环减小一级；长按，使 LED 速度循环持续减小一级

注:当按下②或③MODE 键时，①显示屏的模式（本控制器共 35 种模式）会顺序加或减变化；当按下④PAUSE 键时，显示屏会显示“Pause”用于表示暂停，当再次按下该键时，则显示屏又恢复显示当前模式值和速度值；当按下⑤LEVEL+/SPEED+时，在模式 1-7 中，亮度会依次递增（到达 255 时会从 0 开始递增），在模式 8-30 中，速度会依次加快，（加快到 0s 时，从 60s 开始继续加快）；当按下⑥LEVEL-/SPEED-时，在模式 1-7 中，亮度会依次递减（到达 0 时会从 255 开始递减），在模式 8-30 中，速度会依次减慢，（减小到 60s 时，从 0s 开始继续减慢）。

● 前面板



- ① Mini USB 接口
- ② 三端 RS485 输入接口
- ③ RJ45 输出端口
- ④ XLR3 母头输出端口

端口介绍

● 输入端口

Mini USB 输入端口：用来提供 5V 电源，配套软件与 RDM100 的通信媒介



RS485 三引脚输入端子



- 1. GND
- 2. RS485 输入 D-
- 3. RS485 输入 D+

● 输出端口

RJ45 输出端口



- PIN1: DATA+
- PIN2: DATA-
- PIN3-6: NC
- PIN7-8: GND

XLR-3 输出端口



- PIN1.GND
- PIN2.DATA-
- PIN3.DATA+

模式列表

- 模式1: 静态固定色-红色(此模式中所有通道均为此色)
- 模式2: 静态固定色-绿色(此模式中所有通道均为此色)
- 模式3: 静态固定色-蓝色(此模式中所有通道均为此色)
- 模式4: 静态固定色-黄色(此模式中所有通道均为此色)
- 模式5: 静态固定色-淡蓝色(此模式中所有通道均为此色)

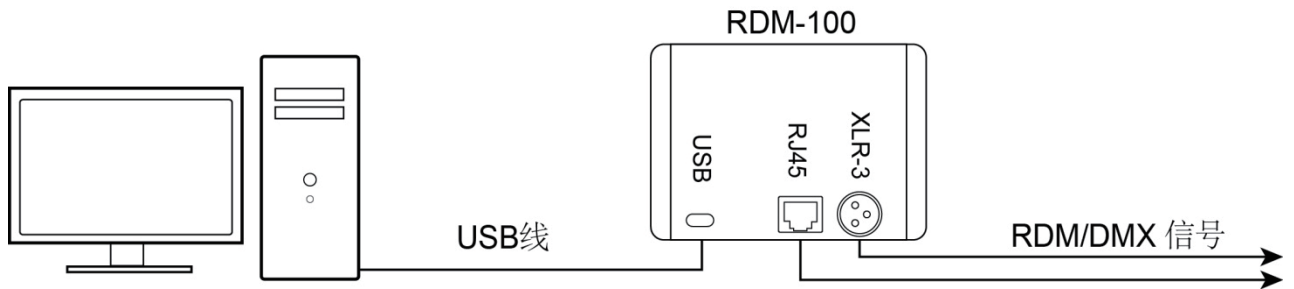
- 模式16: 六色忽明忽暗
- 模式17: RGB忽明忽暗
- 模式18: RG忽明忽暗
- 模式19: RB忽明忽暗
- 模式20: GB忽明忽暗

模式6: 静态固定色-紫色(此模式中所有通道均为此色)
 模式7: 静态固定色-白色(此模式中所有通道均为此色)
 模式8: 七彩渐变
 模式9: 全彩渐变
 模式10: 彩虹变化
 模式11: 流水变化
 模式12: 追尾
 模式13: 颜色堆积
 模式14: 追逐(蓝, 紫)
 模式15: 白色忽明忽暗
 自定义模式1-5: 将在配套软件操作说明中介绍

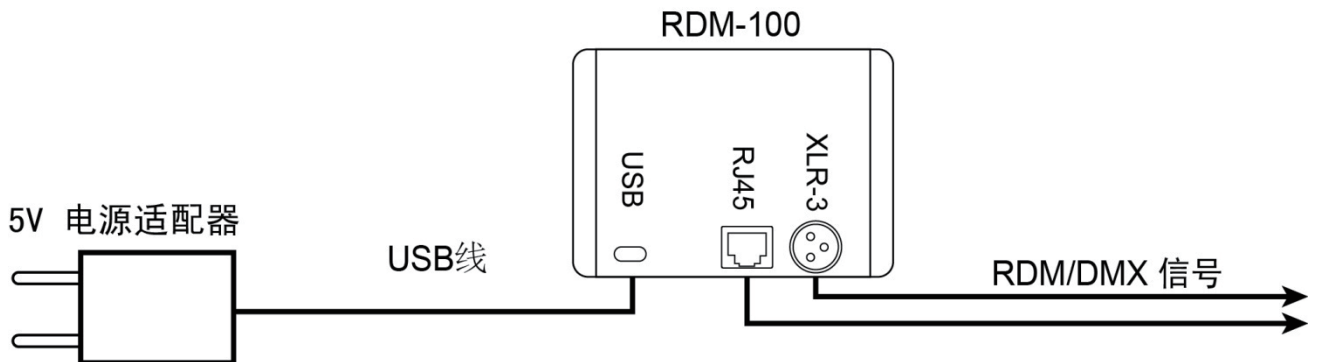
模式21: R忽明忽暗
 模式22: G忽明忽暗
 模式23: B忽明忽暗
 模式24: 彩虹跳变
 模式25: 六彩跳变
 模式26: RGB跳变
 模式27: RG跳变
 模式28: RB跳变
 模式29: GB跳变
 模式30: 白色跳变

控制示意图

● 联机模式



● 独立模式



软件说明

RDM-100 配套软件操作说明详见“RDM-100 用户手册”