*Includes removable clear plastic cover.

Featuring an OLED display, a directional menu key, and two assignable shortcut keys the RadioMaster Ranger is the pinnacle of ExpressLRS module design. Built with a rugged CNC machined aluminum case that aids the high-efficiency cooling system as a heat sink.

## FEATURES

- Built-in ExpressLRS Backpack
- OLED Display
- Rugged CNC Case
- Built-in Accelerometer
- Packet rates up to F-1000Hz
- Wifi and Bluetooth support
- High-efficiency cooling system
- 5 Direction Nav key and customizable shortcut buttons
- Micro and Nano adapters included
- Moxon and T-antenna included
- CRSF cable for compatible Futaba radios included

## INCLUDES

1x Ranger 2.4GHz ELRS Module
1x 2.4GHz Moxon Antenna
1x 2.4GHz T-Antenna
1x Futaba CRSF socket cable
1x Micro Adapter
1x Nano Adapter
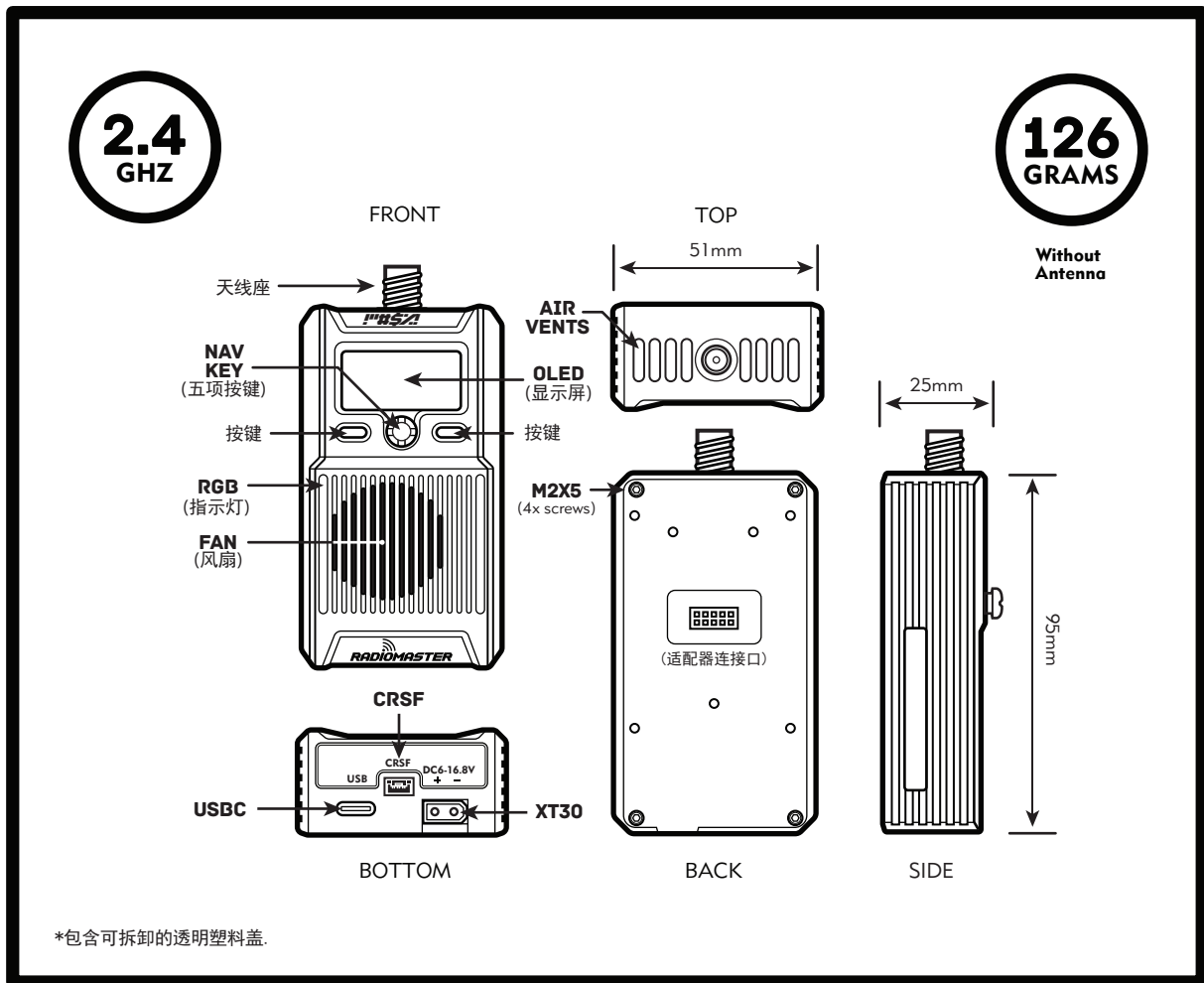1x Hexagon socket screwdriver
3x M2*5 Screws
1x Manual

## SPECIFICATIONS

| | |
|---|---|
| • Regulatory Domain: | ISM2400 |
| • MCU: | ESP32 (main) ESP8285 (aux, as ESP backpack) |
| • RF Chip: | SX1281IMLTRT6 |
| • Frequency Range: | 2400 MHz - 2480 MHz |
| • Maximum Packet Rate: | 500Hz / F-1000Hz |
| | (F-1000Hz mode requires EgdeTX 2.7.1 or later) |
| • Control distance: | Max 2km |
| • Min. Receiver Refresh Rate: | 25Hz |
| • Module Bay Adapters: | JR standard 5pin socket & Nano standard 8pin socket |
| • Futaba CRSF Socket Cable: | Included |
| • OLED Screen: | 64 x 128px |
| • Wifi & Bluetooth Support: | Yes |
| • 3-Axis Accelerometer: | Yes (STK8BA58 MEMS Accelerometer) |
| • Built-in RGB Light Strip: | Yes |
| • XT30 Power Supply Voltage: | DC 6V - 16.8V |
| • Weight: | 138g (with Moxon antenna) 135g (with T antenna) 126g (without antenna) |
| • Dimension: | 95*51*25mm (without antenna) |
| • Firmware (pre-installed): | ExpressLRS v3.0 |

## DEFAULT FIRMWARE

RadioMaster Ranger 2.4GHz TX

We wish to thank the ExpressLRS team for their support and testing during the development of the Ranger series. To learn more and support the ExpressLRS project visit: https://www.expresslrs.org

2.4 GHZ

126 GRAMS
Without Antenna

FRONT

天线座

NAV KEY（五项按键）

按键

RGB（指示灯）

FAN（风扇）

OLED（显示屏）

TOP

51mm

AIR VENTS

M2X5（4x screws）

CRSF

USB    CRSF    DC6-16.8V + −

USBC

XT30

BOTTOM

（适配器连接口）

BACK

25mm

95mm

SIDE

*包含可拆卸的透明塑料盖.

采用**OLED**显示屏，方向菜单键和两个可分配的快捷键，**RadioMaster Ranger**是**ExpressLRS**模块设计的巅峰。内置一个坚固的**CNC**加工铝的情况下，有助于高效的冷却系统作为一个散热器。

## 产品特点

- CNC铝合金外壳，强度高、散热性强
- 强劲涡轮散热，低音运行，双倍风压降温
- OLED显示屏
- 支持WIFI和蓝牙连接
- 内置加速传感器
- 刷新率最大支持F-1000Hz
- 五向主菜单按键以及2个自定义按键

## 包装清单

1 * RANGER 高频头
1 * JR标准5针适配座
1 * Nano标准8针适配座
1 * FUTABA CRSF转接线
1 * T型天线
1 * Moxon平板天线
1 * 内六角扳手
3 * M2*5 螺丝
1 * 说明书

## 技术参数

| | |
|---|---|
| •工作频段： | ISM2400 |
| •芯片： | ESP32,ESP8285 |
| •射频芯片： | SX1281IMLTRT |
| •频率范围： | 2400Mhz - 2480Mhz |
| •支持最大刷新率： | 500Hz/F-1000Hz（建议使用EgdeTX 2.7.1 或更高版本固件运行F-1000Hz模式） |
| •支持最小刷新率： | 25Hz |
| •控制距离： | 最大2km |

- 附带JR标准5针适配座
- 附带Nano标准8针适配座
- 附带Futaba CRSF转接线
- 支持RGB多彩灯带
- 采用高对比度OLED屏幕
- 内置震动传感器
- XT30外置供电口电压范围：DC 6V ~ 16.8V
- 重量：138g（带 Moxon天线）/135g（带T形天线）/126g（不带天线）
- 尺寸：178*51*25mm（带 Moxon天线）/95*51*25mm（不带天线）

## 固件下载

RadioMaster Ranger 2.4GHz TX

We wish to thank the ExpressLRS team for their support and testing during the development of the Ranger series. To learn more and support the ExpressLRS project visit: https://www.expresslrs.org