

The Radiomaster ER6GV receiver has been specially designed for glider pilots who require a compact and slim receiver. It can drive up to 6 servos and has built-in receiver voltage telemetry and flight battery telemetry with the ability to automatically detect which voltage input to use. The ER6GV features a dual-antenna with telemetry power up to 50mw. The ER6GV receiver does not have a built-in altimeter for competitions that prohibit the use of vario. The ER6GV can be used with a 1S Lipo receiver battery.

SET-UP

1. The recommended ELRS LUA settings on the remote-control end are:

! IMPORTANT	
Standard servos:	Performance servos:
Packet Rate 100Hz Full	Packet Rate 333Hz Full
Telem Ratio Std (1:32) default	Telem Ratio Std (1:128)
Switch Mode 8ch	Switch Mode 8ch

2. The maximum input voltage for the EXT-V (external voltage input) telemetry reading is 35V. Do not exceed 35V or the receiver will be damaged.

3. The EXT-V of the ER6GV is accessed via the EXT-V solder pad on the PCB. A single wire must be soldered to this pad and connected to the positive wire of the battery or ESC. If no EXT-V power source is found, the ER6GV will default to reading the voltage on the receiver pins, only one voltage input can be used at the any given time.

4. Please ensure that the power supply current of the ESC BEC matches the power consumption requirements of the servo used. If using high-voltage and high-torque servos, it is recommended to use a 2S 7.4V battery for direct power supply or a suitable high-current UBEC.

5. Calibration of the telemetry voltage will be required on your radio. Navigate to the TELEMETRY page on your radio and locate the RxBt sensor. Edit the SENSOR settings and adjust the offset until the displayed reading matches the actual voltage of the battery in the model. If there is a large difference, adjustment of the ratio may also be required. ***For best results calibrate the voltage of your radio using a fully charged battery of the correct cell count intended for use in the model.**

6. Channel 6 on the receiver must not be used as the power input channel and may not be used as a servo output channel. Power from an ESC or Receiver battery must only be applied on Channels 1 to 5.

7. ExpressLRS Arming requirements and the use of Channel 5:CH5 is required by ExpressLRS to set the Arm state of the RF module in your radio. It is recommended to assign CH5 to a switch such as your throttle cut switch as this will provide benefits such as dynamic power. Using the ExpressLRS LUA or the Wifi WebUI, you can assign different channels to the CH5 output of your receiver. See example to the right: Please visit <https://www.expresslrs.org/> to learn more on the importance of setting up arming.

SPECIFICATIONS

- Size: 42*13*8mm
- Weight: 5g
- Power Supply: DC 3.5 - 8.4V
- Antenna Type: 15cm (High Sensitivity Antenna)
- Wireless Protocol: ExpressLRS 3.3.0 (pre-installed)
- Output Channel: 6CH PWM
- Telemetry Power: max. 50mw (LUA Adjustable)
- Telemetry Battery voltage detection range: DC 3.0 - 26V

FIRMWARE

Device Category: Radiomaster 2.4Ghz | Device: RadioMaster ER6GV

PASSPHRASE BINDING (*Note: Bind phrases are not secret and can be read.)

1. OPEN the ExpressLRS LUA and navigate to the Wifi Connectivity page. Select the **Enable WIFI** option and connect to your radios wifi with a mobile phone, tablet or PC (See TX WIFI info above). OPEN the ExpressLRS web page at (<http://10.0.0.1/>) and choose a unique bind phrase. **Save and Reboot.**
2. Power ON the receiver and wait 60 seconds for the LED to blink rapidly to indicate WIFI mode. Connect your phone, tablet or PC to the receivers WIFI (See RX WIFI info above). OPEN the ExpressLRS web page at (<http://10.0.0.1/>) and enter the matching bind phrase previously entered on your radio. **Save and Reboot.** Once both radio and receiver have the same bind phrase set they will automatically bind.

TRADITIONAL BINDING

1. The first time you power on your receiver, the LED is doing a quick **double blink**, which indicates the receiver is in bind mode. If this is not the case, hold down the boot button for 10 seconds to reset the receiver.
2. Power ON your transmitter/radio and use the [BIND] button on the ExpressLRS Lua script, which sends out a binding pulse.
3. If the receiver has a **solid light**, it's bound!

! *Note: To bind receiver a second time or to another radio, power cycle the receiver 3 times. On the third power cycle, the LED will double blink indicating bind mode. If you cannot successfully enter bind mode with the 3 power cycle method, you can hold down the boot button for 10 seconds to reset the receiver to bind mode or use the passphrase method. **WARNING:** All previous settings in the receiver will be erased and need to be re-entered when using the reset button.

1 Recommended: ELRS Lua

```
RM Boxer 0/100
Packet Rate 100Hz Full
Telem Ratio Std (1:32)
Switch Mode 8ch
Model Match Off (ID: 0)
TX Power (250mW)
WiFi Administrator
WiFi Connectivity
```

5 Calibration: Telemetry

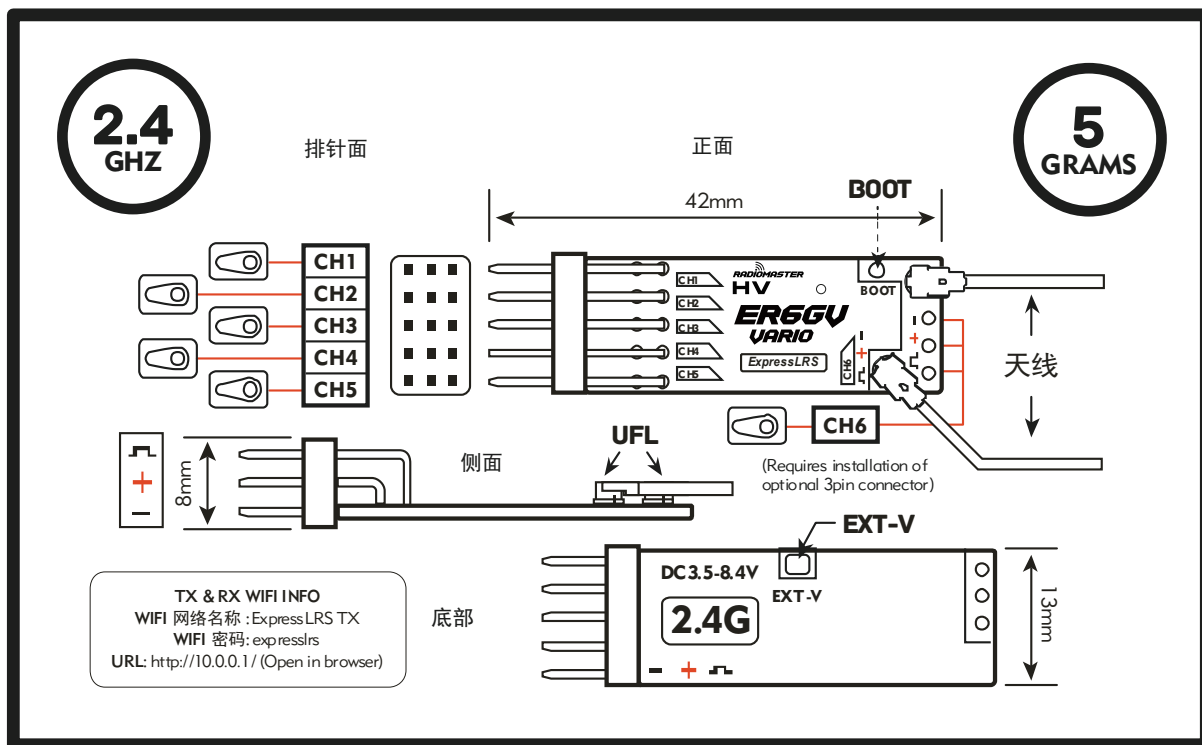
```
TELEMETRY 10/11
8: TRSS -20dB *
9: TQ1y 100% *
10: TSNR 15dB *
11: RxBt 7.4V
12: Curr 0.0A
13: Capa 0mAh
14: Bat% 0.3%
```

5 Calibration: Sensors

```
SENSOR10 7.4V
Type Custom
ID 0008 1
Source Ext. module
Unit U
Precision 0.0
Ratio -
Offset -10
```

2 Bind

```
RM Boxer 0/100
> WiFi Connectivity
> Backpack
[BLE Joystick]
[Bind]
3.30 ISM2G4 ae9df3
[----EXIT----]
```



感谢您购买 Radiomaster ER6GV ExpressLRS 接收机, ER6GV 接收机基于革命性的ExpressLRS系统, 具有高性能、高可靠性、配置灵活、响应速度快、超远航程等特点。ER6GV接收机具有与ER6GV相同的功能, 只是没有内置Vario高度计, 适用于禁止使用Vario高度计的比赛, 或者仅适用于不需要 Vario 高度计功能的用户。

设置

1. 遥控器端推荐的ELRS LUA设置为:



注意

标准舵机设置:	高性能舵机设置:
数据包传输速率: 100Hz Full	数据包传输速率: 333Hz Full
回传比例: Std (1:32) default	回传比例: Std (1:128)
开关模式: 8ch	开关模式: 8ch

- EXT-V (外部电压输入) 电压回传读数的最大输入电压为35V。不要超过35V, 否则会损坏接收机。
- ER6GV的EXT-V (外部电压输入) 可通过PCB上的EXT-V焊盘进行连接。一根导线必须焊接到这个焊盘上, 并连接到电池或电调的正极线上。如果没有发现EXT-V电源, ER6GV将默认读取接收机引脚上的电压, 任何情况下只能检测一个电池或电源的电压。
- 请确保电调BEC的供电电流与所用舵机的功耗要求相匹配。如果使用高压大扭矩舵机, 建议使用2S 7.4V电池直接供电或合适的大电流UBEC。
- 您的遥控器将需要校准回传电压。在遥控器的回传设置页面, 找到Rx/Bt传感器。编辑传感器设置并微调偏移量 (Offset), 直到显示的读数与模型中电池的实际电压相匹配, 如果差异较大, 则可能还需要调整比例 (Ratio)。
 - *校准的电压与实际测量电池的总电压保持一致即可。
- 接收机上的第6通道不得用作电源输入通道, 可以用作舵机输出通道。来自ESC或接收机电池的电源只能应用于1通道至5通道。
- ExpressLRS 需要 CH5 来设置遥控器中射频模块的锁定/解锁状态。建议在遥控器上给CH5分配给一个开关, 例如油门切断开关, 使用 ExpressLRS LUA 或 Wifi WebUI, 您可以将不同的通道分配给接收器的 CH5 输出。

请访问<https://www.expresslrs.org/>以了解更多关于设置解锁开关的重要性。

规格参数

- 尺寸: 42*13*8mm
- 重量: 5g
- 电源: DC 3.5 - 8.4V
- 天线类型: 15cm (高灵敏度天线)
- 无线协议: ExpressLRS 3.3.0 (预装)
- 输出通道: 6CH PWM
- 回传功率: 最高50mw (可在LUA中调节)
- 回传电池电压检测范围: DC 3.0 - 26V

固件选择

- 设备类别: Radiomaster 2.4Ghz
设备: RadioMaster ER6GV

对频方法 (对频短语方式Binding phrase)

- 打开ExpressLRS LUA脚本并导航到WiFi连接页面。选择启用WiFi选项, 并通过手机、平板电脑或个人电脑连接到您的ExpressLRS发射机WiFi (参见下面的TX WiFi说明)。打开WebUI网页 (ExpressLRS的默认网页地址为: <http://10.0.0.1/>), 并输入一个独特的属于您自己的对频短语, 保存并重新启动。
- 打开接收机, 等待60秒, LED迅速闪烁以指示WiFi模式。将您的手机、平板电脑或个人电脑连接到接收机WiFi (参见下面的TX WiFi说明)。打开WebUI网页 (ExpressLRS的默认网页地址为: <http://10.0.0.1/>), 并输入与发射机中一致的对频短语, 保存并重新启动。一旦发射机和接收机有相同的对频短语时, 它们将自动连接而无需对频。

对频方法 (传统方式):

- 当您第一次打开接收机时, 接收机LED灯会连续双闪。这表明接收机处于对频模式中。如果不是这样, 请按住接收机按钮10秒钟来重置接收机。
- 打开遥控器上的ExpressLRS LUA, 选择[BIND], 然后确认。
- 对频成功 指示灯常亮, 表示对频成功。

⚠ 注意: 要第二次对频接收机或对频到另一个无线电, 请重新启动接收机3次 (重复上电三次)。在第三次上电后, 接收机LED灯将双闪表示对频模式。如果使用3次上电方法无法成功进入对频模式, 可以按住接收机按钮10秒将接收机重置为对频模式, 或者使用下面的短语对频方法。
警告: 使用重置按钮时, 接收机中所有先前的设置都将被删除, 需要重新设置。

1 Recommended: ELRS Lua

```
RM Boxer 0/100
Packet Rate → 100Hz Full
Telem Ratio → Std (1:32)
Switch Mode → 8ch
Model Match Off (ID: 0)
TX Power (250mW)
WiFi Administrator
WiFi Connectivity
```

5 Calibration: Telemetry

```
TELEMETRY 10/11
8: TRSS -20dB *
9: TQly 100% *
10: TSNR 15dB *
11: Rx/Bt 7.4V
12: Curr 0.0A
13: Capa 0mAh
14: Bat% 0.3%
```

5 Calibration: Sensors

```
SENSOR 7.4V
Type Custom
ID 0008 1
Source Ext. module
Unit U
Precision 0.0
Ratio -
Offset -
```

2 Bind

```
RM Boxer 0/100
WiFi Connectivity
Backpack
[BLE Joystick]
[5100]
3.30 ISM2G4 ae9df3
[----EXIT----]
```