

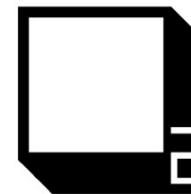
CR1800 接收机

FCC ID: 2BAKSCR18

Model: CR18

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LDARC O₂
TELEMETRY SYSTEM

版本 21208

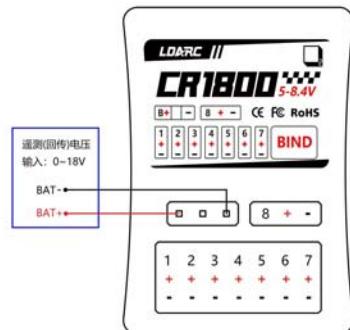
CR1800 接收机使用说明书

- LDARC O. 双向 2.4Ghz 无线协议
- 实时信号强度指示
- 50Hz / 100Hz / 200Hz 舵机速度

- 遥测(回传)电池电压
- 8 通道 PWM 输出

警告

- 本产品不是玩具，用户需要有航模操作经验，错误的使用可能造成人身伤害和设备损坏，使用前请仔细阅读说明书，我们不承担因使用本产品而引起的责任。
- 对码时请断开电调与接收机的连接，防止马达错误启动产生危险。
- 根据实际场景设置合理的失控保护值，**请拆除马达动力输出的机械齿轮，在确保安全的前提下**关闭遥控器电源以验证失控保护是否正确执行。



引脚定义

对码

CR1800 上电 10 秒内，按住接收机上的<BIND>按钮不放直到指示灯**绿****蓝**快速闪烁，表示接收机已经进入对码模式。在遥控器<遥控器设置>，<高级设置>菜单中选择<开遥测对码>或<关遥测对码>，分别对应接收机的<遥测启动>或<遥测关闭>模式，接收机对码成功后指示灯将变为**红****蓝**慢闪或**红****绿**慢闪，此时遥控器退出对码菜单，接收机需要重新上电才会正常工作。

- <遥测启动>模式：接收机与遥控器是双向通讯，接收机把遥测(回传)电压值发送到遥控器上，用户可以在遥控器设置报警电压值。遥控器内每个模型文件可以与多个<遥测启动>模式的接收机对码绑定，**但用户必须保证同一时刻只有一个接收机上电启动**，因为多个<遥测启动>模式的接收机同时工作将导致遥测(回传)数据包混乱。
- <遥测关闭>模式：接收机与遥控器是单向通讯，此时遥控器无法查看接收机的遥测(回传)电压和信号强度。

注意事项

- 连接遥测(回传)电压输入、电调、舵机、BEC 等时请注意电源极性，错误的连接可能导致接收机损坏甚至起火。
- 使用 LDARC O. 无线协议的 CT 系列遥控器内每个模型文件都拥有唯一 ID。该功能可保证接收机对码时是与遥控器内的模型文件绑定，**即使是同一台遥控器，没有与当前模型文件对码绑定的接收机将处于失控状态**。
- 接收机的失控保护请在遥控器<遥控器设置>，<模型设置>，<失控保护>内设置。
- 只有前四通道 CH1234 支持 50Hz / 100Hz / 200Hz 舵机速度设置，其他通道保持 50Hz PWM 输出。**请查看当前使用的舵机说明书确定舵机速度设置值，高于允许值的舵机速度可能导致舵机损坏**。舵机速度请在遥控器<遥控器设置>，<模型设置>，<舵机速度>内设置。
- 失控保护和舵机速度设置结束后接收机需要最多 20 秒才能执行设置参数。
- 接收机刚上电时所有通道都是 50Hz 舵机速度输出，一旦接收到遥控器信号将按照用户设置的舵机速度和失控保护工作，此过程同样需要最多 20 秒。

参数

- 工作电压: 5.0V ~ 8.4V
- 额定电流: 小于 100mA
- 遥测(回传)电压输入: 0V ~ 18V
- 体积: 35mm / 25mm / 13mm
- 重量: 7.5g
- 天线接口: IPEX 四代
- 无线数据包刷新时间: 7.5ms
- 通讯码率: 1Mbps
- 通道数据分辨率: 11bit (2048)

LDARC O. 无线协议支持的产品：

- 雷迪安 CT 系列遥控器
- 雷迪安 CR 系列接收机
- 雷迪安 X43 微型桌面越野车
- 雷迪安 M58 漆型大脚车

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指示灯

红灯常亮	无信号，接收机失控
蓝灯常亮	通讯正常，<遥测启动>模式， 蓝 灯亮度表示实时信号强度
绿灯常亮	通讯正常，<遥测关闭>模式， 绿 灯亮度表示实时信号强度
绿 蓝 快速闪烁	接收机当前处于对码模式
红 蓝 慢闪	<遥测启动>模式对码成功，接收机需要重新上电才会正常工作
红 绿 慢闪	<遥测关闭>模式对码成功，接收机需要重新上电才会正常工作

雷迪安

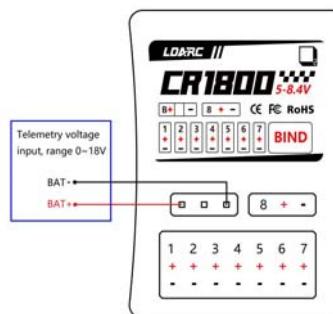
CR1800 RECEIVER USER MANUAL

- LDARC O₂ bidirectional 2.4GHz wireless system
- Wireless signal strength indication
- 50Hz / 100Hz / 200Hz servo speed

- Telemetry voltage for main battery
- 8 channels PWM output

WARNING

- This product is not a toy, user need model hands-on experience. Please be careful when using, we do not assume responsibility for any property damage or personal injury caused by use this product.
- Remove ESC and motor before run binding procedure or else may result in serious injury.
- Use reasonable failsafe setting, under the premise of ensuring safety, remove motor gear then power off transmitter to test failsafe working properly or not.



CONNECTORS

LED	<table border="1"> <tr> <td>Red solid</td><td>No signal</td></tr> <tr> <td>Blue solid</td><td><TELEMETRY ON> mode, receiving signals, brightness meaning signal strength</td></tr> <tr> <td>Green solid</td><td><TELEMETRY OFF> mode, receiving signals, brightness meaning signal strength</td></tr> <tr> <td>Green blue fast blink</td><td>Receiver in bind mode</td></tr> <tr> <td>Red blue slow blink</td><td><TELEMETRY ON> bind success, receiver need power on again</td></tr> <tr> <td>Red green slow blink</td><td><TELEMETRY OFF> bind success, receiver need power on again</td></tr> </table>	Red solid	No signal	Blue solid	<TELEMETRY ON> mode, receiving signals, brightness meaning signal strength	Green solid	<TELEMETRY OFF> mode, receiving signals, brightness meaning signal strength	Green blue fast blink	Receiver in bind mode	Red blue slow blink	<TELEMETRY ON> bind success, receiver need power on again	Red green slow blink	<TELEMETRY OFF> bind success, receiver need power on again
Red solid	No signal												
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Green blue fast blink	Receiver in bind mode												
Red blue slow blink	<TELEMETRY ON> bind success, receiver need power on again												
Red green slow blink	<TELEMETRY OFF> bind success, receiver need power on again												

Power on the receiver then press the <BIND> key within 10 second until green blue LED fast blink meaning receiver in bind mode. Select the <Bind TLM-On> or <Bind TLM-Off> option on the transmitter <Setting>, <Advanced> menu, respectively to the receiver's <TELEMETRY ON> or <TELEMETRY OFF> mode. Receiver will red blue slow blink or red green slow blink after bind success. User need exit transmitter from bind menu and cycle receiver power.

- <TELEMETRY ON> mode : Bidirectional communication between transmitter and receiver, receiver will send telemetry packet to transmitter, user can set the alert voltage value on the transmitter. One model file on the transmitter can bind more than one <TELEMETRY ON> mode receiver, but user need keep ONLY ONE receiver power on at the same time, because more than one <TELEMETRY ON> mode receiver working in parallel will results in telemetry packet error.
- <TELEMETRY OFF> mode : One-way communication between transmitter and receiver, user can't view the telemetry data and signal strength on transmitter.

ATTENTION

- Pay great attention when connect telemetry voltage, ESC, servo or BEC to keep correct polarity, otherwise receiver may break down or on fire.
- The CT series transmitter use LDARC O₂ wireless system, each model file of transmitter have unique ID. This feature lets receiver bind to model file instead of transmitter. If receiver does not bind to current running model file will go to failsafe mode, even when use the same transmitter.
- Setting failsafe on the transmitter <Setting>, <Model>, <Failsafe> menu.
- Only CH1234 four channels support 50Hz / 100Hz / 200 Hz servo speed setting. Other channels always keep 50Hz PWM output. Please read your servo's manual to determine servo speed setting, above the maximum support speed maybe damage the servo. Setting servo speed on the transmitter <Setting>, <Model>, <Servo SPD> menu.
- After setting failsafe and servo speed on the transmitter, receiver perform user setting not more than 20 seconds.
- All the channels of CR1800 will keep 50Hz PWM output after power on, receiver perform the failsafe and servo speed setting not more than 20 seconds after receiving signals.

SPECIFICATIONS

- Operating voltage : 5.0V ~ 8.4V
- Operating current : less than 100mA
- Telemetry input voltage : 0V ~ 18V
- Size : 35mm / 25mm / 13mm
- Weight : 7.5g
- Antenna connector : IPEX G4
- Wireless packet refresh time : 7.5ms
- Communication data rate : 1Mbps
- Channel resolution : 11bit (2048)

LDARC O₂ wireless system support:

- LDARC CT series transmitter
- LDARC CR series receiver
- LDARC X43 micro off-roader
- LDARC M58 micro monster truck

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FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.