LDARC CR1800 Two Way O2 Protocol RC Receiver User Manual

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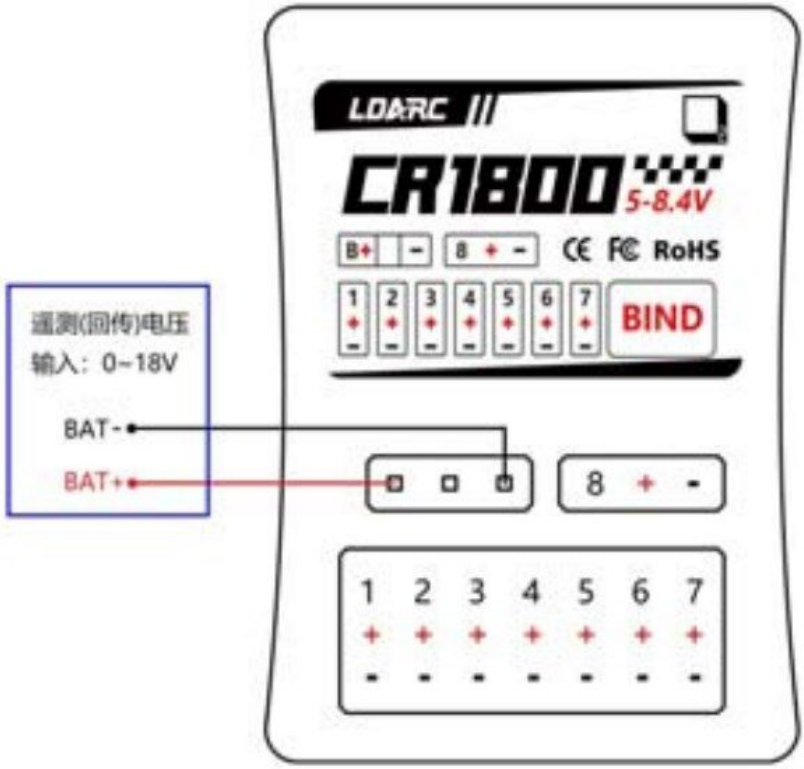
- LDARC 02 bidirectional 2.4Ghz wireless system
- Wireless signal strength indication
- 50Hz / 100Hz / 200Hz servo speed
- Telemetry voltage for main battery
- 8 channels PWM output

Contents

CONNECTORS



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.

LED

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 strengt h
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

BIND

Power on the receiver then press the <BIND> key within 10 second until 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 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 02 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 damaqe 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 : OV – 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

LDARC 02 wireless system support:

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

WWW.LDARC.COM

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.

LDARC O_2
TELEMETRY SYSTEM

Documents / Resources

	LDARC CR1800 Two Way O2 Protocol RC Receiver [pdf] User Manual CR18, 2BAKSCR18, CR1800 Two Way O2 Protocol RC Receiver, Two Way O2 Protocol RC Receiver, O2 Protocol RC Receiver, RC Receiver, Receiver

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