

RC-01 Stop Flyaway User Manual



RC-01 Stop Flyaway is designed for the remote power control in the UAV. Two output channels can be used to switch power from one load (motors, controllers, control board) to another (parachute system, radio beacon, emergency landing system, and so on) right in the flight. Separate radio channel creates solid alternate way to control your UAV in case of original RC communication problems or electronics issues in your model.

Technical specs:

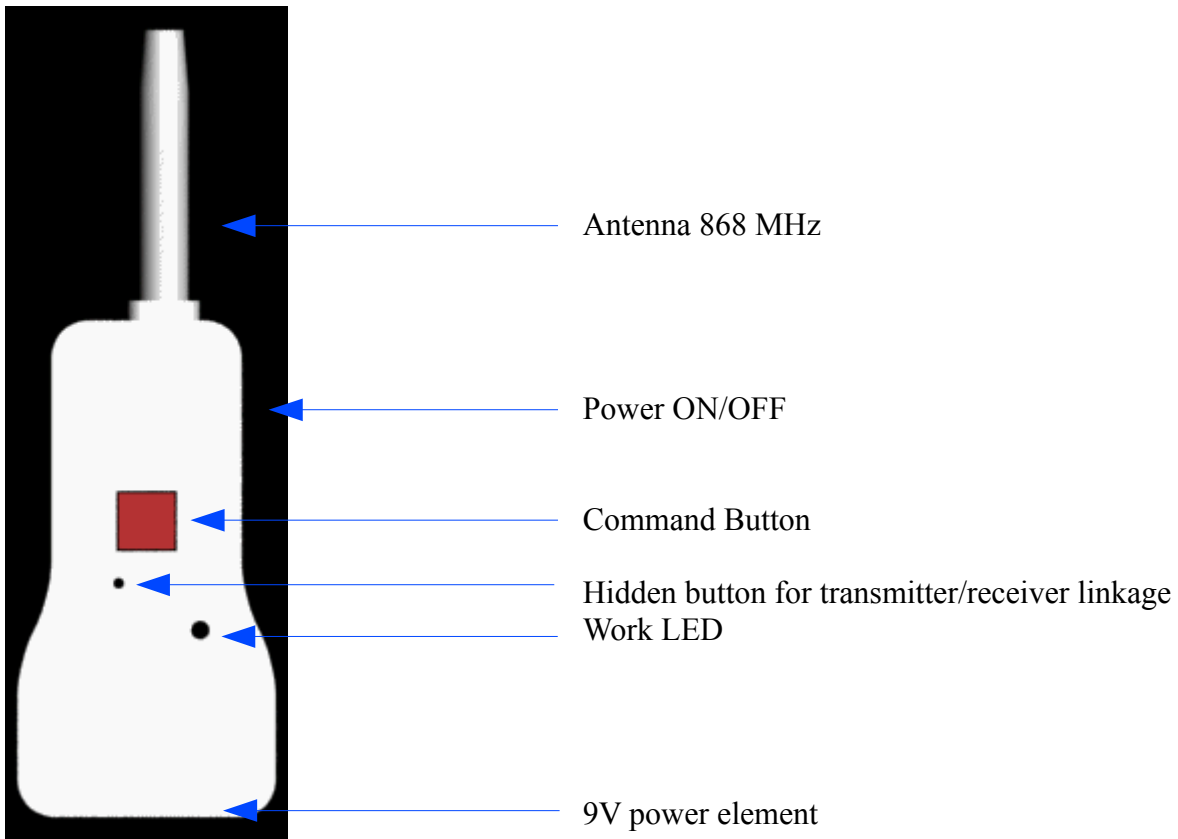
Receiver:

Input voltage	DC 9-24 V (3S-6S)
Power consumption	47 mA
Work current	60 A (190A peak)
Frequency	868 MHz
Weight	16g
Dimensions	42x27x10 mm

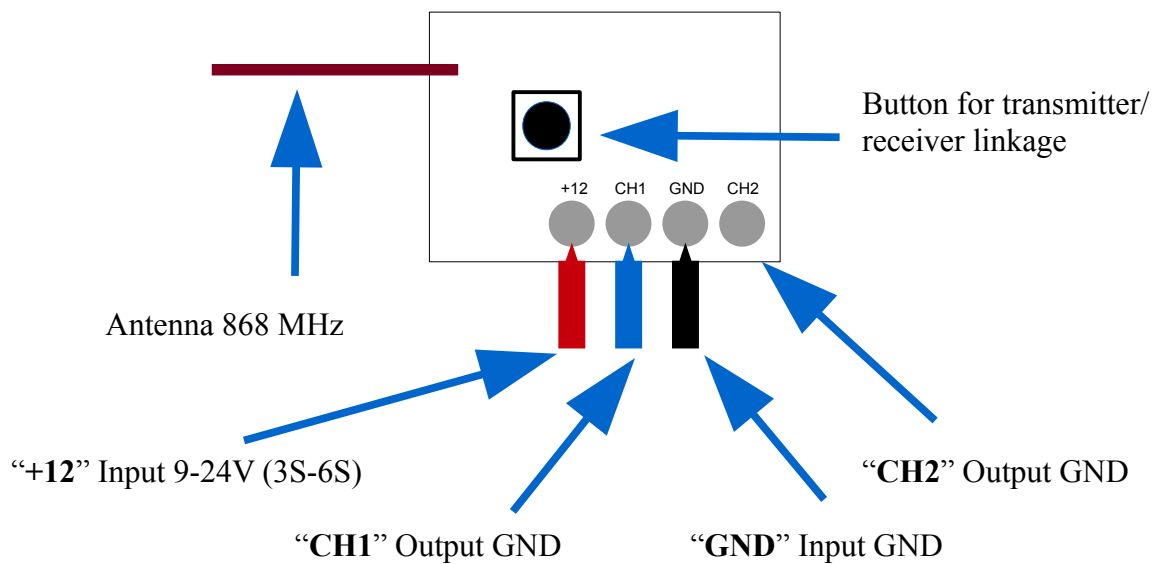
Remote control:

Input voltage	DC 9 V (CR9V)
Power consumption	205 mA
Frequency	868 MHz
Dimensions	211x64x26 mm
Working distance	Up to 3km/1.9miles (depends on landscape)

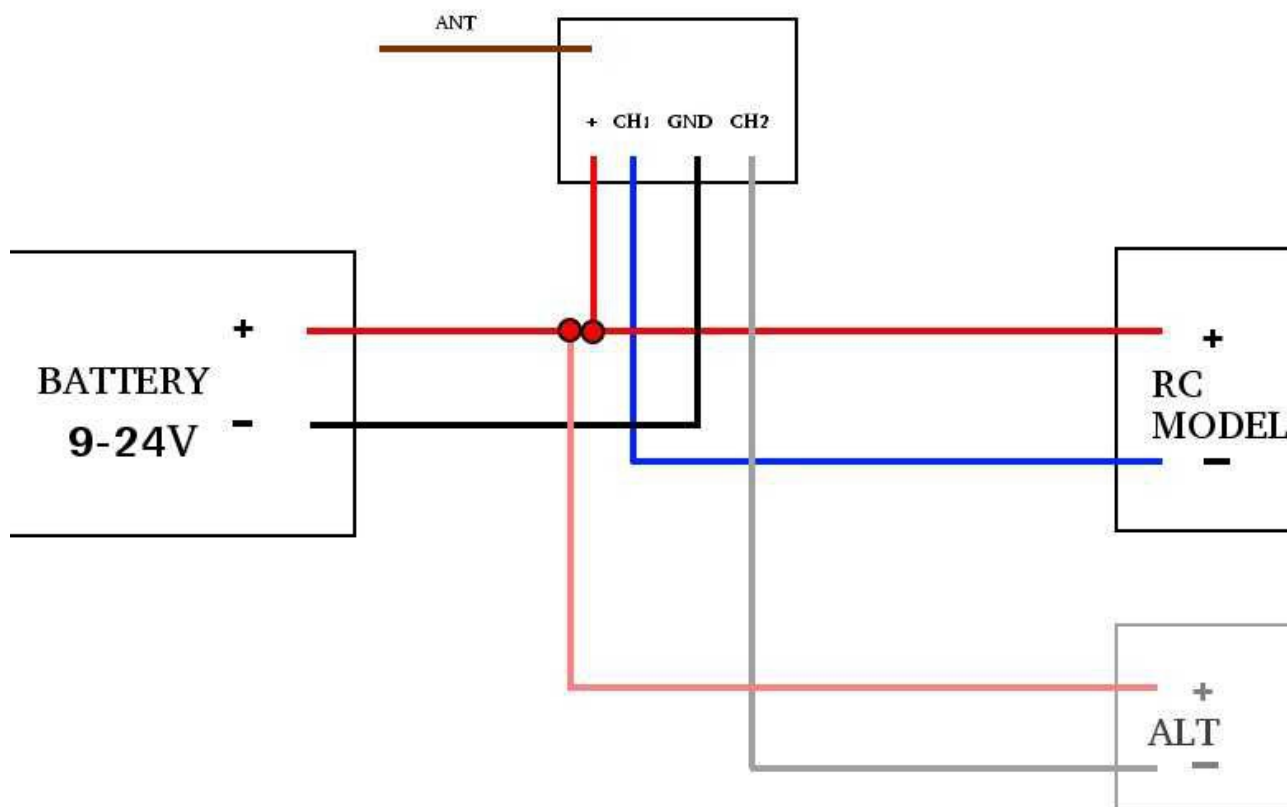
Remote control



Receiver



Connection scheme



BATTERY – UAV power element

RC MODEL – main load (controller, ESC, motors, etc), it will switch OFF after the Command Button on RC is pressed.

ALT – alternate load (alternate controller, parachute system, radio beacon, etc), it will switch ON after the Command Button on RC is pressed.

Receiver controls GROUND(-)! Check all connections before power on.

Installation notes:

Place the receiver module in good air-conditioned space. The more current is loaded, the more heat is released. Overheat can cause damage of the receiver. Best place is outside drone shell for better cooling and radio sensitivity.

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It's recommended to switch on the RC only when you need to press the Command Button to save battery and avoid unwanted discharge. Delay after switch ON = 1 second.

To send command switch ON the RC, green LED will blink once.
Press once Command Button, green LED will blink once.

You may press Command Button several times to make sure that receiver got command and switched the power. **Switching CH1->CH2 will be done only once.** To reset the power switch back to CH1 you need to turn off the receiver power (usually, reconnect battery in UAV)

RC and receiver linkage

To link RC-01 transmitter and receiver switch off all other transmitters, receivers, motors and other radio noise electronics on your UAV, connect the battery and follow these steps:

1. Connect receiver to the power. Green LED on receiver will blink once.
2. Switch on the RC. Green LED on RC will blink once.
3. Press once the link button on receiver. Green LED will light continuously.
4. Press once the hidden link button on RC (use the needle). Green LED on RC will blink once.
5. Check the receiver LED status. In case of good link the LED will blink several times and turn off. If the LED do not blink and lights continuously then switch off the power and try steps 1-4 again.

Additional receivers linkage

With RC-01 you are able to use several receivers at the same time with one RC. They will all switch CH1->CH2 at once after Command Button is pressed. To add another receiver follow these steps:

1. Connect receiver to the power. Green LED on receiver will blink once.
2. Switch on the RC. Green LED on RC will blink once.
3. Press once the link button on receiver. Green LED will light continuously.
4. Press once Command Button on RC (not hidden linkage button!). Green LED on RC will blink once.
5. Check the receiver LED status. In case of good link the LED will blink several times and turn off. If the LED do not blink and lights continuously then switch off the power and try steps 1-4 again.

FAQ

RC-01 Transmitter

Question: After Command Button is pressed the LED is on and don't switch off.

Reason: Radio noise in the air

Solution: Switch off and then switch on the RC. If this problem occurs during linkage RC and receiver try to switch off and back on the receiver. Check that all other transmitters and motors are switched off.

RC-01 Receiver

Question: Receiver is too hot

Reason: High loads. Peak load is around 190A. Normal load is around 60A.

Solution: Place the receiver on air-conditioned space (for example, in propellers air flow). Also check if you can reduce the load and connect some non-critical parts directly to the battery (UAV lights, camera, gimbal, etc.), without using the receiver's power switch.

If you have any questions, feel free to contact info@33dev.ru

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