

3-in-1 Winch Remote Control User Manual

This product is a multifunctional device integrating wireless remote control, wired control, and LED lighting. The operational instructions are as follows:

I. Wireless Remote Control Section:

1.1.Hold the power button down for more than 1 second. The green power indicator light will flash three times at a frequency of 300 ms and then remain on, indicating a successful startup and placing the remote control in standby mode.

1.2.Remote shutdown and idle mode: When the remote control function is not in use, tap the power button once while in standby mode to shut down. In idle mode, if the device remains inactive for more than 3 minutes, the wireless remote control will automatically deactivate, power supply will be cut off, and the device will enter shutdown mode with the power indicator light extinguishing.

1.3.Reeling operation: After powering on the remote control, pressing and holding the IN or OUT button will send corresponding reeling or unwinding commands to the winch (for forward/reverse rotation). Releasing the button stops the command transmission and triggers an immediate shutdown command for the winch.

1.4Automatic shutdown and emergency stop functions: When the controller is in use and the battery suddenly dies, the receiver will automatically shut down due to failure to receive valid remote signals. If the buttons become stuck during operation preventing release, pressing the power button continuously activates the emergency shutdown function.

1.5.During wireless operation, the LOGO indicator light remains on when no button is pressed and flashes when a button is pressed.

2.Wireless control section:

2.1.When the wired cable harness is inserted into the rear compartment (in the designated direction), the wireless remote control function becomes inoperative. The

system then switches to manual cable control mode: the LOGO indicator light flashes intermittently and turns off upon release, while the power indicator light illuminates.

2.2. Similarly, use the IN or OUT keys to directly control the winch's retraction or extension (forward/reverse rotation).

3. Handheld lighting function: Under any conditions and at any time, pressing the LED light switch for more than 0.5 seconds will activate the COB chip light at the head base (100 LM). A single tap turns off the LED illumination, unaffected by wireless remote control mode.

4. USB charging section:

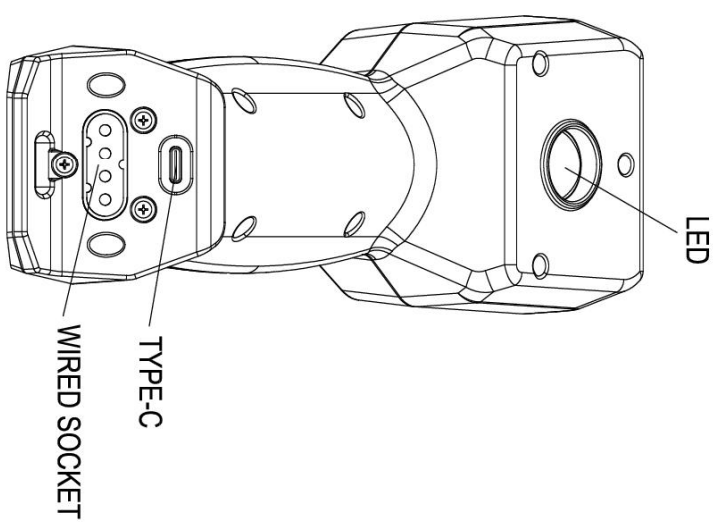
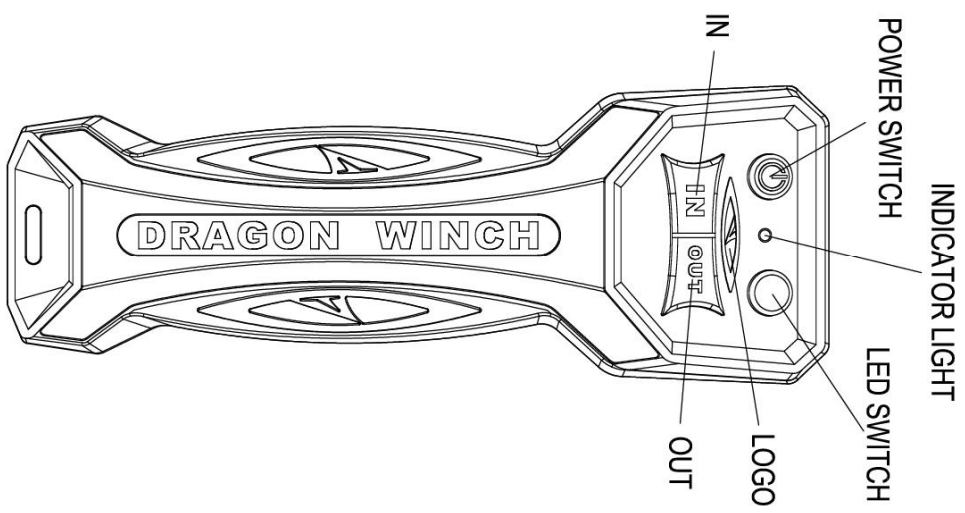
4.1. When the battery is fully charged, the power indicator light turns green; as the charge decreases within the normal usage range, it turns yellow; and when the charge falls below the minimum threshold voltage, the light turns red.

4.2. When charging via USB, the power indicator light flashes yellow; once charging is complete, it remains green.

5. Common Faults and Troubleshooting:

The battery indicator remains red continuously; when connected to USB, the yellow indicator light flashes, and it stays red even after unplugging. This indicates a battery failure preventing charging—replace the battery.

6. External schematic diagram



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.

FCC Radiation Exposure statement

The device has been evaluatec to meel general RF exposure requirement. The device can be used in portable exposure condition without restriction.