For age 14+

Denver DRO-170

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Please read this instruction manual carefully before using the product

ENGLISH

Notice:

1 Instructions

Please read the user handbook carefully and then keep it in a safe place for future consultation and maintenance.

1.1 Important Notice

(1) This product is not a toy, it's a piece of complicated equipment which integrated with professional knowledge by mechanic, electric, air mechanics, high-frequency transmitter and so on, so it should be installed correctly and adjusted to avoid any accidents.
The owner must always operate in a safe manner, if improper operation that caused human injured or property damage, then we DENVER ELECTRONICS A/S accept no liability for any safety duties from operation. As we have no control over the way they assemble, fly and use the product.

(2) This product is not suitable for users under 14 years of age.

(3) The use of the drone may be prohibited in some areas like train stations, airports, aircrafts, inhabited areas etc. You should check with the authorities whether the use of the drone is permitted in some public or private areas. Always use the drone bearing in mind not to breach people's privacy. We exclude liability for any wrong use of the drone.

(4) We DENVER accept no liability for any safety duties or fines arising from operation, usage or miscontrol after the sale of products. Warranty does not cover if drone crashes and get damaged.

1.2 Safety Precautions

Keep away from stand when flying, since drone flight is a high-risk hobby. Mismanagement or broken main frame or defective electronic equipment or unskilled operation may cause accidents of machine damaged or injured. Please pay special attention to safety operation.

(1) Keep away from people and obstacles

"The flying speed and status of the drone is uncertain, so it may cause potential danger."
When choosing a flying site should stay clear of buildings, trees and power lines. AVOID flying in or near crowded areas. Meanwhile avoid flying in rain, storms, thunder and lightening to protect machinery and parts out of damage.

(2) Keep away from humid environments

Inside of drone is made up of precise electronic components. Stay away from humidity or water vapor to protect machinery and parts.

(3) Safety operation

Please fly your drone according to your physical status and flight skill. Fatigue, tiredness and mis-operation will increase possibilities of accidental hazard.

(4) Keep away from rotating blades

Keep your face and body as well as all spectators away from the rotating blades. The spinning blades of a model of this type can cause serious injury.

(5) We recommend flying the drone below 10 meters of height.

(6) Keep away from heat

A drone is made up of metal, fiber, plastic, electronic components, etc. Keep it away from heat and sunshine to avoid distortion, and damage.

1.3 Check List Before First Flight

(1) Flying field should be in an open space and we suggest at least 5M length *5M wide *3M height.

(2) Make sure the receiver and transmitter is fully charged.

(3) Please strictly obey the order of turn-on, turn-off before operation. When starting your flight, first turn on the transmitter, and connect the battery with drone last. When finishing your flight, please disconnect the battery from your drone first, turn off transmitter last. An upset in the order of connection may cause your drone loose control to threaten yourself and others safety. Please follow a correct habit of turn-on and turn off.

(4) Make sure the connection is solid between battery or motor. The ongoing vibration may cause bad connection of power terminal and make the drone uncontrollable.

Battery Installation & Charging

Wrist Controller

The Li-po battery is built inside the wrist controller. Before use, please fully charge it with the USB charging cable from the package.

Note:
- When the remote controller is not paired with the drone in 1 minute, it will power off automatically
- When the remote controlle enters into the low-voltage status, the indicator lights flash slowly and it needs to be charged.

Charging

Connect one side of the USB connector with the battery, and the other side into any USB port of computer or a smartphone charger (not included).

Drone

Replacing the damaged blades:

Your set will come with 4 spare rotors, two type A (+1+4) and two type B (-2-3). You will see the "A" and "B" mark on the canopy, then put the rotor on the motor accordingly.

Wrist Controller (Gravity Sensor)

1. **Power button**
Power On: short press
Power Off: long press for 5 seconds
Gyro Reset: short press (before the drone takes off)
Landing: short press
Emergency Stop: long press for 2 seconds

2. **Finger button**
Take-off: short press
Flip/Roll: short press, then flick/tilt the wrist
Ascend: long press and fold the wrist forward
Descend: long press and fold the wrist backward
Left Rotation: long press and tilt the wrist to the left
Right Rotation: long press and tilt the wrist to the right
IR Inductive mode: short press for 3 times quickly to enter/exit the IR Inductive control

Quick Start-up Steps

1. Turn on the drone
(Put the drone on the ground and long press the power button on the USB flash stick)

2. Turn on the wrist controller
(Short press button on the ground and long press button in the air to make the controller pair with drone automatically)

3. Drone Takes off
(Short press the finger button in the wrist controller and the drone will take off automatically. It will hover automatically)

Gyro Reset

Before first flying or the drone crashes to the ground, Gyro Reset is necessary to be done to make sure the drone will take off normally and fly stably.

Short press the power button on the wrist controller, LEDs on the drone will flash very quickly, then remain ON.

Then, the Gyro Reset complete.

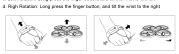
Main Functions

1. Forward / Backward / Leftward / Rightward

a. Forward: Fold the wrist forward
b. Backward: Fold the wrist backward
c. Leftward: Tilt the wrist to the left
d. Rightward: Tilt the wrist to the right

2. Ascend / Descend / Left Rotation / Right Rotation

a. Ascend: Long press the finger button, and fold the wrist forward
b. Descend: Long press the finger button, and fold the wrist backward
c. Left Rotation: Long press the finger button, and tilt the wrist to the left
d. Right Rotation: Long press the finger button, and tilt the wrist to the right



3. Flip / Roll

a. Flip forward: Short press the finger button, then fold the wrist forward quickly
b. Flip forward: Short press the finger button, then fold the wrist backward quickly
c. Flip Leftward: Short press the finger button, then tilt the wrist to the left quickly
d. Flip Rightward: Short press the finger button, then tilt the wrist to the right quickly

4. Landing / Emergency Stop

a. Landing: During Flight, short press the power button, the drone lands slowly.
b. Emergency Stop: During flight, long press the power button for 1 second, the drone falls down directly to the ground.

5. Infrared (IR) Inductive mode

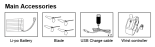
During flight, short press the finger button for 3 times quickly, the LEDs on the drone flash 3 times quickly and the drone will enter the IR inductive mode.

The drone detects the sun transparent obstacles, like walls and user's hands.

Once obstacles are detected, the drone flys back towards the opposite direction.

Note:
- After IR Inductive model is ON, the wrist control mode is still workable.
- Short press the finger button again for 3 times quickly, the IR inductive mode is OFF.
- If the wrist controller is powered OFF with the IR inductive mode still ON, the drone will be always ready for IR inductive mode when it's powered on next time and it will support 'throw-to-fly'.

Main Accessories



Li-po Battery | Blade | USB Charge cable | Wrist controller

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Electric and electronic equipment and included batteries contains materials, components and substances that can be hazardous to your health and the environment, if the waste materials (discarded electric and electronic equipment and batteries) are not handled correctly.

Electric and electronic equipment and batteries are marked with the crossed out bash can symbol, as below. This symbol signifies that electric and electronic equipment and batteries should not be disposed of with other household waste, but should be disposed of separately.

As the end user it is important that you submit your used batteries to the appropriate and designated facility. In this manner you make sure that the batteries are recycled in accordance with legislature and will not harm the environment.

All cities have established collection points, where electric and electronic equipment and batteries can either be submitted free of charge at recycling stations and other collection sites, or be collected from the households. Additional information is available at the technical department at your city.

Hereby, Inter Sales A/S declares that the radio equipment type DENVER DRO-170 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.denver-electronics.com and then click the search ICON on topline of website. Write model number: dro-170. Now enter product page, and red directive is found under downloads/other downloads.
Operating Frequency Range: 2402 MHz - 2473 MHz
Max Output Power: 7.4 W

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