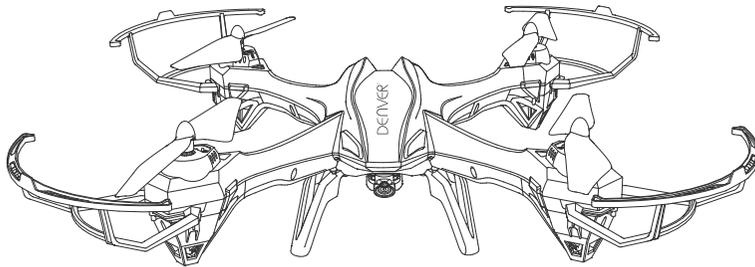# DENVER®

DENVER DCH-600

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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 maintained, used and operated.
(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 mis-control after the sale of products. Warranty does not cover if drone crashes and get damaged.

1.2 Safety Precautions

Keep away from crowd when flying, since drone flight is a high risk hobby.
Mis-assembled 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, listlessness 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 to fly the drone below 10 meters of height.
A drone is made up of metal, fiber,plastic,electronic components,etc. So 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 drone is fully charged.

(3) please strictly obey the order of turn-on, turn-off before operation.Whenstarting your flight,first turn on the transmitter,and connect power cable of drone last; When finishing your flight,please disconnect the power cable of 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.
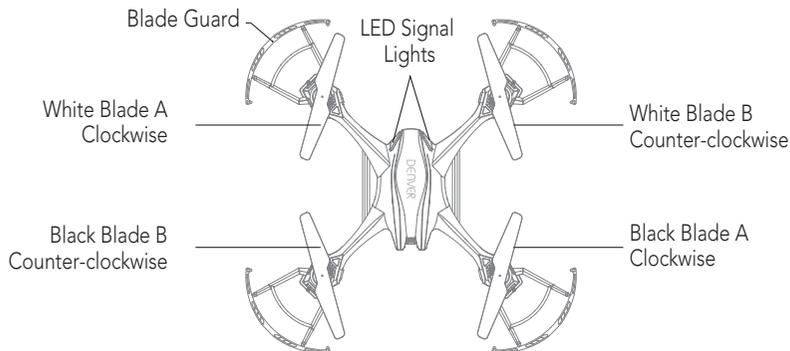(4) make sure the connection is solid between battery or motor.
The ongoing vibration may cause bad connection of power terminal and make the drone uncontrollable.

Warning:
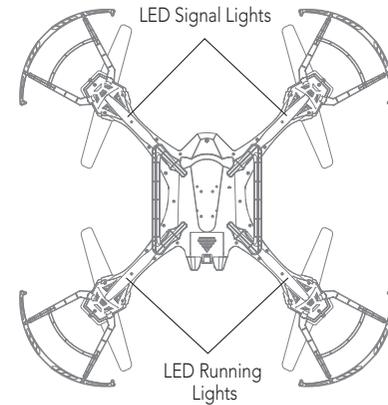
1.To reduce the risk of fire or electric shock, do not expose this apparatus to rainor moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
2.The direct plug-in adapter is used as disconnect device, the disconnect device shall remain readily operation.
3.This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.
4.This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock. To reduce the risk of electric shock, do not remove cover (or back) as there are user serviceable parts inside. Refer servicing to qualified personnel. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
5.Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased.
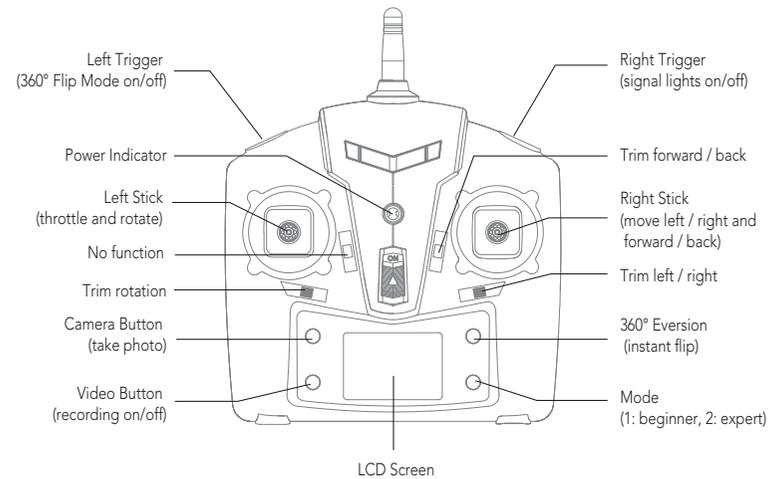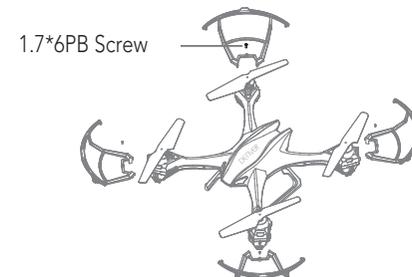
PRODUCT PARTS

1. Drone overview

Blade Guard
LED Signal Lights
White Blade A Clockwise
White Blade B Counter-clockwise
Black Blade B Counter-clockwise
Black Blade A Clockwise

LED Signal Lights
LED Running Lights

2. Controller

Left Trigger (360° Flip Mode on/off)
Power Indicator
Left Stick (throttle and rotate)
No function
Trim rotation
Camera Button (take photo)
Video Button (recording on/off)
LCD Screen
Right Trigger (signal lights on/off)
Trim forward / back
Right Stick (move left / right and forward / back)
Trim left / right
360° Eversion (instant flip)
Mode (1: beginner, 2: expert)

BLADE GUARD INSTALLATION

1.7*6PB Screw

1. The blade guards are removable. To install each blade guard, press the square area at the bottom of the guard against the matching section of the drone. Use the supplied screws to attach each of the 4 guards.
2. Keep the guards installed to protect the drone and users, or remove the guards for lighter weight and more speed and maneuverability. Note that the blades (propellers) are easy to replace, but each blade is different. If the incorrect rotation-style of blade is used, the quadcopter will not fly.

CHARGING LI-PO BATTERY
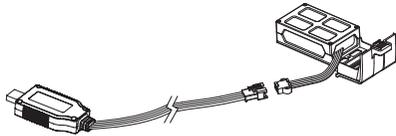
1. Charge the Battery

Connect the Li-Po battery to USB before plugging the USB to power or your computer. One end of the USB charger goes into any free port on your computer The other end plugs into your battery. You may leave the battery in your copter, or remove it for external charging. While charging, the light will be on solid red. When charging is complete, the light will blink. The recharge time should be around 120 minutes.When the battery runs low, the transmitter will activated a "di, di" sound alarm, and the LED lights on the quadcopter will flash. This indicates that the battery has only a short time left, so fly the drone back immediately for retrieval.

2. Warnings

* This product is equipped with a Li-Po battery. Please take note of appropriate safety precautions when not in use.
* When the battery is not being used for a long time, remove it and put it in a safe dry place.
* Do not expose the charged battery to high temperatures, such as flames or near electronic devices. This may cause damage or explosion.
* Make sure all batteries are connected in the proper orientation to avoid damage or explosion.
* Do not use the battery to impact any hard surfaces. Avoid contact with metal.
* If the battery becomes damaged, bulges, or appears to change shape, please stop using the battery and discard it.
* When charging the battery, to avoid accident, put the power supply on the ground. Avoid setting the charger on cloth or other flammable materials becausethe charger will get hot.
* Do not immerse the battery in water. The battery should be kept in a dry place.
* Do not break the battery or attempt to open the battery.
* Do not leave the battery charging without supervision.

<table>
<tr><td colspan="2">Warning</td></tr>
<tr><td>● Lithium battery inside!
● Do not try to open the product!
● Do not expose to heat, water,
  moisture, direct sunlight!</td><td>⚠
CAUTION!</td></tr>
</table>

<table>
<tr><td>♻</td><td>The Li-Po batteries may be recycled
Please discard old batteries in a proper recycling station.
Do not throw batteries in the regular trash. If you have questions,
please contact your local environmental agency to collect old batteries.</td><td>♻</td></tr>
</table>

FLIGHT PREPARATION

1. Install 4 AA Batteries in Controller

To assemble the Controller, install 4 1.5V AA batteries (not included) in the controller/ transmitter. You may need a small screwdriver to open and then close the cover over the battery compartment.
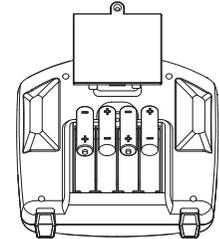
2. Install Li-Po Battery in DCH-600

* Install the Li-Po battery in the drone, press the tab at the front of the battery compartment down to access the battery compartment, and insert the battery base-first into the compartment so that the cable on the battery is exposed.
* To remove the Li-Po battery from the drone, press down on the tab with one hand and grasp the battery with your other hand to pull the battery out by its sides (never pull the battery out by its cables).

Press Down on
Tab to Access
Battery Compartment
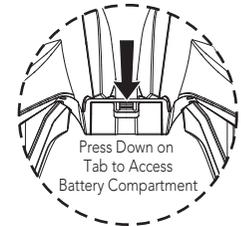
3. Connect the Battery

* For safety, make sure the switch beneath the drone is in the OFF position before you electrically connect the battery cables. Connect the battery to the drone by gently plugging the cable on the battery to the power cable underneath the drone. Make the sure receptacles are oriented correctly so that one receptacle slides smoothly into the other.
* To disconnect the battery, grasp the plastic receptacles with your fingers. Never pull the cables apart by pulling on the cables.
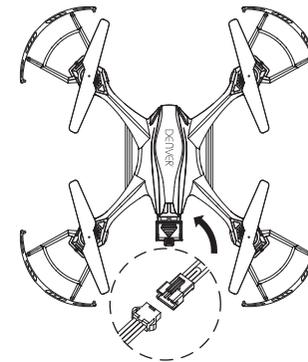
Connect Battery

PRE-FLIGHT ADJUSTMENTS

NOTE: The drone will not operate unless you follow these steps in the order listed.
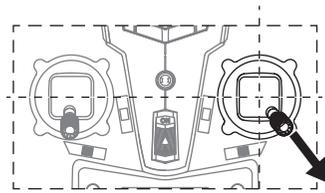
1. First make sure the drone is OFF. Turn the controller / receiver ON. This procedure must be followed precisely for the controller and drone to find and bind with each other.

2. The controller will beep once and the light will blink rapidly. Move the LEFT STICK to the top and then to the bottom. The controller will stop blinking to show the throttle is calibrated. Leave the stick at the bottom.
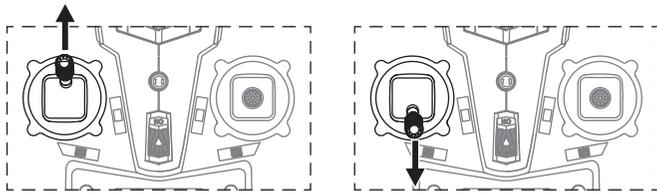
3. Now turn the drone ON by flipping the switch underneath the drone to the ON position. After about 3 second the controller will beep "di do di". The lights on the drone will stop flashing. This shows the drone has become bound to the controller.
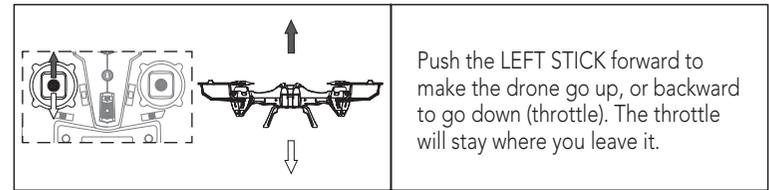
Power Switch
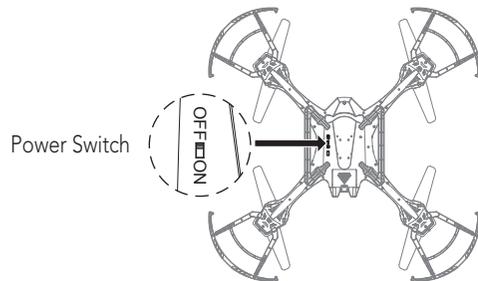
4. Put the drone on level ground. Move the RIGHT STICK on the controller in a circle. The controller will beep "di do di" and the drone lights will blink briefly. This calibrates the drone gyroscopes for level flying.
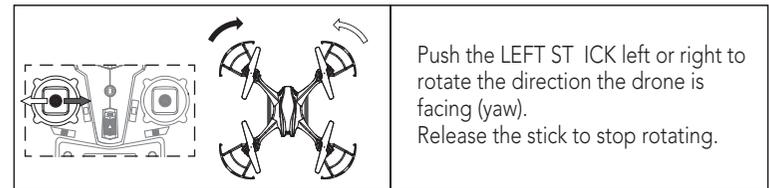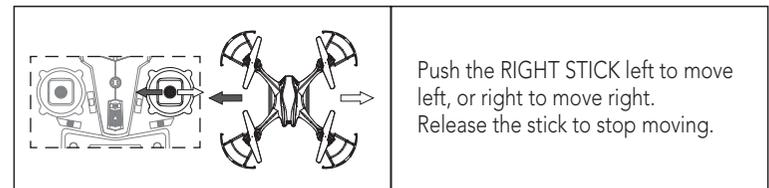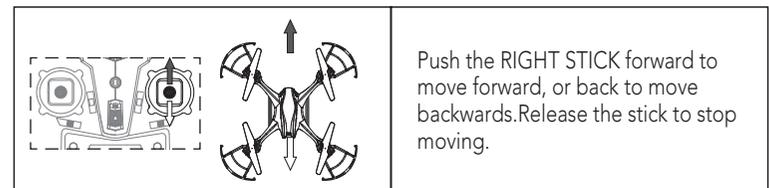
FLIGHT CONTROL

1. Up / Down (Throttle)

	Push the LEFT STICK forward to make the drone go up, or backward to go down (throttle). The throttle will stay where you leave it.

2. Rotate Direction

	Push the LEFT ST ICK left or right to rotate the direction the drone is facing (yaw). Release the stick to stop rotating.

3. Move Left / Right

	Push the RIGHT STICK left to move left, or right to move right. Release the stick to stop moving.

4. Move Forward / Backwards

	Push the RIGHT STICK forward to move forward, or back to move backwards.Release the stick to stop moving.

5. Adjust Rotation Trim (Yaw)

	If the drone rotates when the stick is centered, click this switch left or right until the drone is stable.
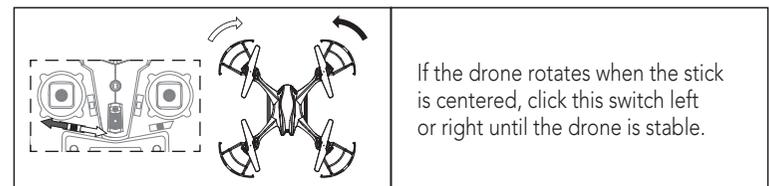
6. Adjust Left/Right Trim (Roll)

If the drone drifts to the side when the stick is centered, click this switch left or right until the drone is stable.
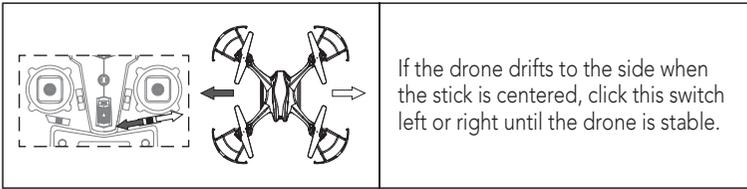
7. Adjust Forward/Backward Trim (Pitch)

If the drone drifts forward or back when the stick is centered, click this switch forward or backward until the drone is stable.
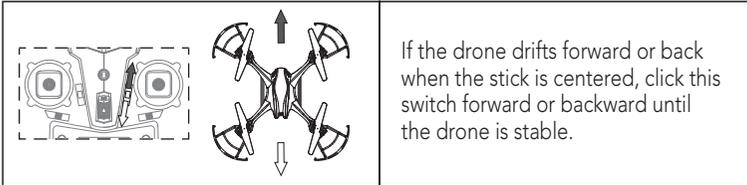
FLIGHT MODES

Press the Mode button on lower right of the controller to switch between Flight Mode 1 (maximum Gyro-stability) and Mode 2 (3D expert control). The LCD screen will indicate the current mode.
Mode 1 automatically uses the 6-Axis Gyro (3 gyroscopes and 3 accelerometers) to its full capabilities for stable, level flight. Use this mode for beginners, or to hover for movies and snapshots.
Mode 2 tilts the drone more sharply (stronger pitch and roll), for faster acceleration. Use this mode for racing and 3D maneuvers.
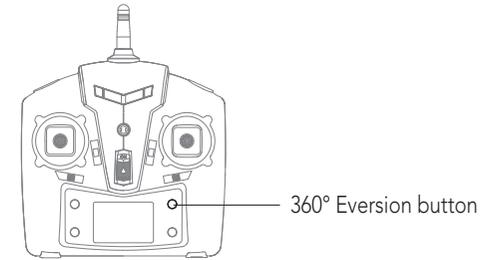
360° FLIPS

The drone can easily flip in an entire 360° circle. The drone will quickly stabilize and level out, but will lose some altitude, so first make sure the drone is flying high above the ground.
To flip in the direction you choose, first press the LEFT TRIGGER. The controller will start beeping and enter 360° Flip Mode. Push the RIGHT STICK to flip in the desired direction (forward, backward, left, or right) and return to normal flight. When the battery runs low, the transmitter will activated a "di, di" sound alarm, the LED lights on the drone will flash and the flip action will be auto turn off.

Left Trigger

360° Eversion button

To do an instant flip simply press the 360° Eversion button on the front of the controller, the drone will flip forward 360°.
Warning: Do not perform a 360° flip unless the drone has enough space for safety.

VIDEO AND CAMERA OPERATION

1. If a storage card is not already installed, install a micro-SD ("not included") storage card in the camera underneath the drone. See the small sketch on the camera itself, which shows how to orient the chip correctly. Press the chip in until it clicks and stays.

2. To take a photograph, press the Camera Button on the front of the controller.The red Camera State LED underneath the drone will blink on for about 2 seconds then off indicating that the drone has taken a single, still photo.

3. To record video, press the Video Button on the front of the controller to start recording. The red Camera State LED underneath the drone will come on to show that video is being recorded. Press the Video Button against to stop recording.
   Note: Always remember to stop the video recording with the controller before shutting down. If the drone is switched off while still recording, the AVI file being stored on the micro-SD card might not be "closed" or stored properly.

4. To quickly retrieve your videos and photos, connect the micro SD card reader (included) to your computer. Optionally, you have remove the micro-SD storage card and access the card directly with your computer. The data on the micro-SD card will appear in folders as JPEG files and AVI files, which you can move to your computer.
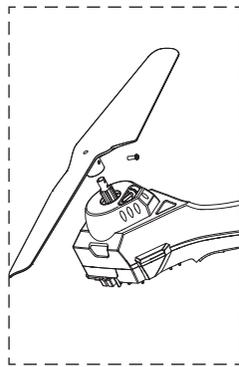

Micro-SD Storage Card

Camera State LED

Camera Button

Video Button
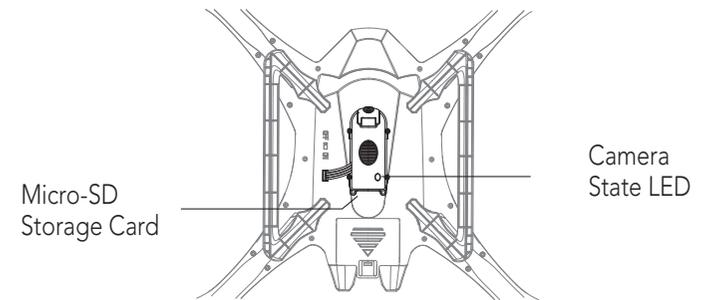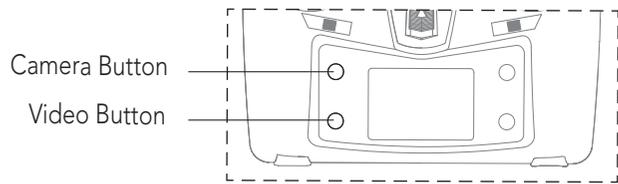
INSTALLATION OF PROPELLERS

1. Propellers replacement

If the propeller is damaged in the flight, you can replace with included spare propeller according to below steps.

Remove the screw of props and replace with new one

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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 material (discarded electric and electronic equipment and batteries) is not handled correctly.

Electric and electronic equipment and batteries is marked with the crossed out trash can symbol, seen 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 approriate 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 of your city.

Hereby, Inter Sales A/S, declares that this product DCH-600 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of conformity may be obtained at: Inter Sales A/S, Stavneagervej 22, DK-8250 Egaa, Denmark.

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