



HOVER CROSS

Micro RTF Hybrid Hover Drone

INSTRUCTION MANUAL



Specifications

Aircraft Type:	Hybrid Hover Drone
Materials:	PP and EPP foam
Width (Diagonal Shaft to Shaft):	3.94" (100mm)
Total Width:	6.5" (165mm)
Total Length:	6.5" (165mm)
Height:	2.17" (55mm)
Weight:	1.34 oz.(38g)
Motors:	7mm coreless (4)
Charger:	Micro USB charge cord
Internal Battery:	3.7V 300mAh (non-replaceable)
Transmitter:	4-channel, 2.4GHz
Flight Times:	Over 6 minutes in drone mode Up to 12 minutes in hover mode

14+ AGE RECOMMENDATION: Not for children under 14 years. This is not a toy.

Safety Precautions and Warnings

- As the user of this product, you are solely responsible for operating in a way that does not endanger yourself and others or result in property damage
- Always operate your product in open spaces away from full-size vehicles, traffic, and people, making sure to maintain a safe distance around your product to avoid injuries to people or damage to property.
- Do not leave the product in direct sunlight or in hot spaces such as an automobile.
- To avoid injury, do not fly near your face. Keep props away from your fingers, hair, eyes, or other body parts.
- Do not fly toward people or animals.
- This product is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always keep small parts and anything electrical out of the reach of children.
- Avoid any water exposure to this product. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as choking could cause serious injury.
- Never operate your transmitter with low transmitter batteries and do not mix new and used batteries.
- Batteries should be recycled or disposed of per state and local guidelines.
- Always keep transmitter powered on while aircraft is powered.
- Always keep aircraft in sight and under control.
- **WARNING:** Do not fly if props become damaged or broken. Flying with damaged props could lead to damage or cause injury.



Supplier's Declaration of Conformity

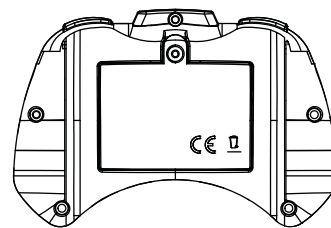
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Replacement Parts

Part Number	Description
FHT1000	HoverCross RTF, Red
FHT1001	HoverCross RTF, Blue
FHT1002	Propeller Set (4) Red; HoverCross
FHT1003	Propeller Set (4) Blue; HoverCross
FHT1004	Replacement Motor; HoverCross
FHT1005	Decal Sheet, Red; HoverCross
FHT1006	Decal Sheet, Blue; HoverCross
FHT1007	USB Charge Cable; HoverCross
FHT1008	2.4GHz Transmitter; HoverCross

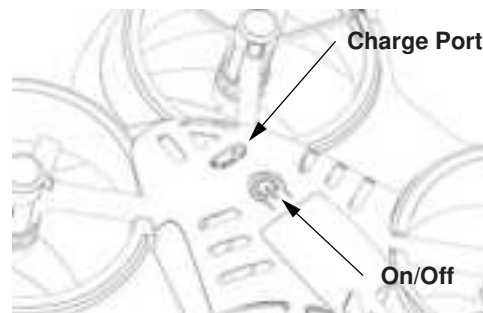
Installing Batteries

- Open the battery compartment and insert three AAA batteries
- Make sure that you match the polarities (+ and -) as marked inside
- Replace the cover and screw in place

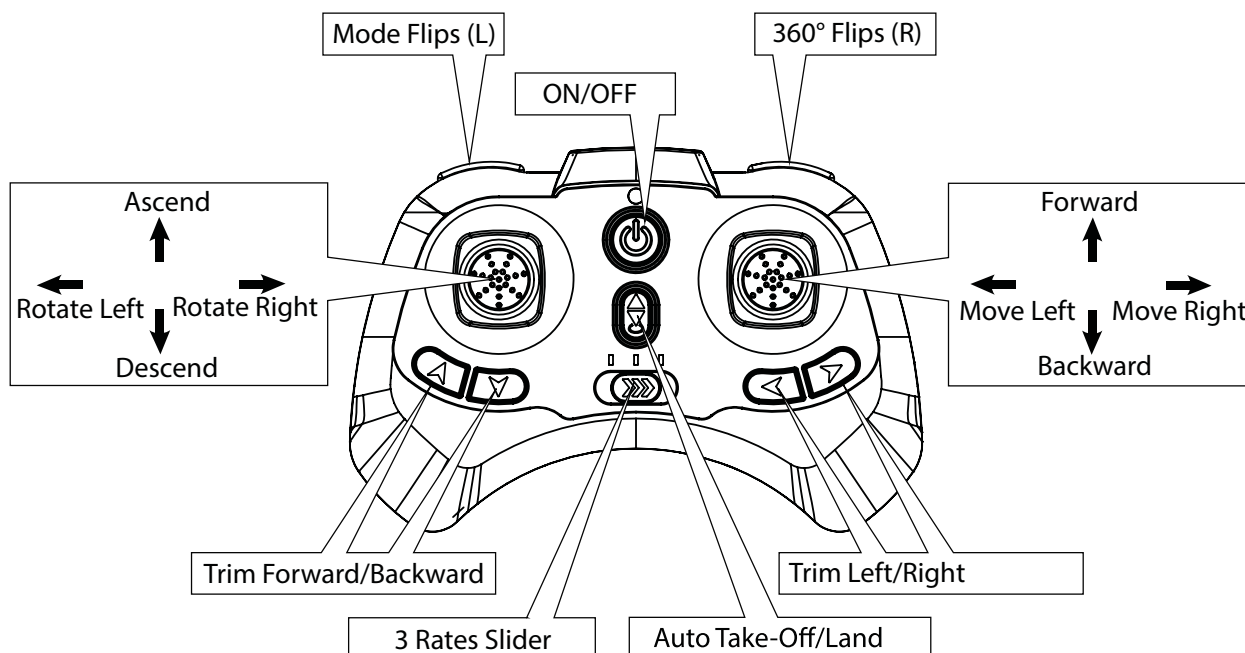


Charging Instructions

- Place the HoverCross on a flat surface as in hover mode
- Plug the mini USB on the charge cord as shown and the USB charger into a 5V USB power source
- Green LED's show while charging and turn off when charge is complete
- Charging should take between 35 and 40 minutes
- When the charge is complete, unplug both connectors
- Use only the included USB charge cord



Operating Instructions



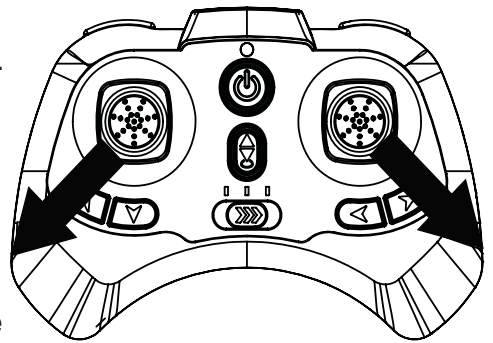
- Press the On/Off button on the transmitter. Press and hold the On/Off button on the aircraft until the red LED on the aircraft begins to blink. When you remove your finger, the LED's on the aircraft and the transmitter will turn solid red to show they are now paired. To arm the motors, move the left stick to the top until you hear one beep, then pull the stick all the way down until you hear a second beep.
- In hover mode, press the Auto-Take Off/Land button or move the left stick up and the Hover Cross will begin to move forward. To take off in drone mode, press the Auto-Take Off/Land button and the unit will climb to an altitude of 1.5 to 2 meters and maintain a steady hover.
- See the transmitter diagram for movements and control during operation.
- If the HoverCross tends to “drift” in any direction during flight, use the trim buttons as shown in the transmitter diagram.

Operating Instructions (cont.)

- The HoverCross has 3 flying rates – beginner, intermediate, and expert. The slide switch shown in the transmitter diagram moves left to right in progression for the rates. The transmitter will beep to let you know which rate is currently being used – 1 beep for beginner, 2 for intermediate, and 3 for expert. It is recommended to start flights in beginner and progress as your flying skills increase. When flying aggressively in either Intermediate or Expert rates, you may notice the aircraft enter “protection” mode as it will pause for a moment to restabilize before continuing the flight.
- To flip from one mode to another, press the L button on the top left of the transmitter.
- For 360 flips in drone mode, press the R button on the top right of the transmitter and the right transmitter stick to the direction you want to flip. In hover mode this button initiates a jump.
- To land the HoverCross in drone mode, either press the Auto-Take Off/Land button or slowly lower the left transmitter stick. To stop in hover mode, lower the left transmitter stick.

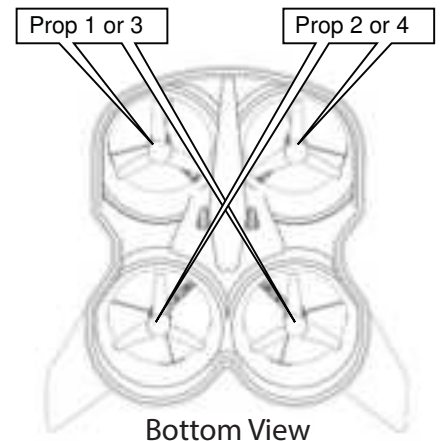
Calibration

- The calibration step is used to reset the gyro stabilization system of the HoverCross. It is important to use this process after a crash or whenever you find the unit is flying erratically.
- First, turn on the transmitter. Then, place the HoverCross on a level surface in hover mode. Press the On/Off button to turn on the unit and then pair with the transmitter.
- Move both transmitter sticks to the outside bottom simultaneously as shown in the diagram.
- The red LED's will flash quickly for a few seconds. When the flashing stops, the HoverCross has been reset and is ready for either hover or drone mode.



Prop Replacement

- There are 2 types of props used on the aircraft. Props marked 1 or 3 are counterclockwise rotation and props 2 and 4 are for clockwise rotation.
- Make sure that the replacement prop is of the correct type as shown on the drawing or by looking at the number on the bottom side of the blade tips.
- When replacing a prop make sure that it is not pushed on to the shaft so tightly that it inhibits the ability of the prop to spin freely.



Limited Warranty

This product is guaranteed to be free from defects in materials and workmanship at the date of purchase. For parts availability and service issues, please contact your local hobby shop or the distribution partner in your territory.

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FCC Requirement

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.

Against the plane: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.