SHARPER IMAGE®
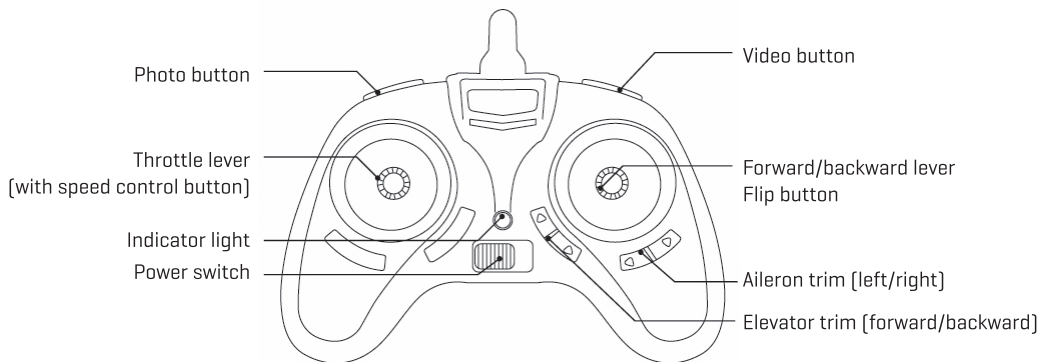
Thank you for purchasing the Sharper Image Mosquito HD Video Drone with LED Lights. This advanced nano quadcopter is designed for all skill levels.
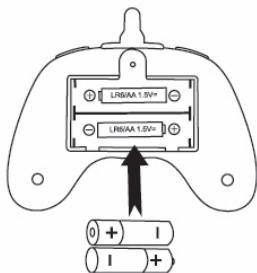
FEATURES

- Reliable 2.4 gHz RF communication
- Built-in gyro for smooth flying
- Indoor/outdoor use
- 3 speed levels (40%, 75%, 100%)
- Shoots high definition AVI video (1280x720P)
- Shoots high-quality JPEG images

- 360° flips
- Flight range: 60 ft.
- LED lights
- Charge time: approximately 50 minutes
- Flight time: approximately 5 minutes

CONTROLLER COMPONENTS

Photo button

Video button

Throttle lever (with speed control button)

Forward/backward lever
Flip button

Indicator light
Power switch

Aileron trim (left/right)

Elevator trim (forward/backward)

SETTING UP THE CONTROLLER

1. Unscrew the battery cover.
2. Insert 2 AA batteries, making sure you follow the correct polarity ("+" or "-") as indicated in the battery compartment.
3. Re-attach the battery cover.

NOTE: Always use alkaline batteries. Do not mix old and new batteries. Keep batteries out of reach of children at all times. Always have an adult install the batteries.

CHARGING YOUR MOSQUITO DRONE

WARNING—READ BEFORE CHARGING

Lithium Polymer batteries can expand, burst or catch fired if used incorrectly, causing personal injury and property damage. It is essential that you read and follow all instructions and safety warnings. SharperImage.com and its affiliated companies assume no liability for failure to comply with these safety instructions and warnings.

1. Turn off the drone.
2. If the battery has been used recently, allow it to cool before recharging.
3. Charging must be performed by an adult.
4. Use only the charging cable that came with this product. Do not use any other charging cables.
5. Always charge the battery on a non-flammable, heat-resistant surface with non-flammable surroundings.
6. Connect the battery to the USB charging cable by inserting the "T"-shaped battery plug into the "T"-shaped socket. [See illustration below.] Never try to force the connection. If the pins are bent, do not attempt to charge the battery. Consult Sharper Image Customer Service.
7. Connect the other end of the charging cable into a COMPUTER USB PORT ONLY. Do not use a mobile phone charging adapter.
8. The LED on the USB charging cable will light up RED when it is charging, and will turn OFF when it is fully charged.
9. Remove the battery from the charging cable as soon as the LED turns off, or after 30 minutes, whichever comes first. DO NOT charge the Lithium Polymer battery for more than 45 minutes. Do not continue charging the battery once the LED has turned off. Always disconnect the USB cable after charging.
10. Lithium Polymer batteries do not last forever. If your battery becomes damaged in a crash, or no longer charges properly, immediately replace it with a new battery. To prolong the life of your battery, it is always best to retain a bit of charge in your battery prior to charging it.
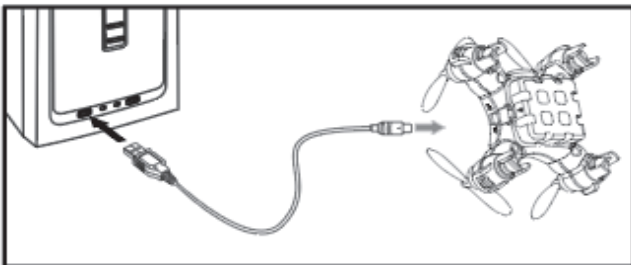
IMPORTANT BATTERY CARE INSTRUCTIONS

If your battery ever starts to smell, change color or look swollen, discontinue use immediately. Do not attempt to recharge it. Be advised that the battery may be hot. Recycle the battery in accordance with local laws.

IMPORTANT INFORMATION   01/15
Do not plug the USB charger into AC adapter

USB charger must ONLY be plugged into a computer USB port with max output of 5V.

Do not overcharge, charging time 45 minutes.

SAFE FLIGHT ENVIRONMENT

1. Make sure the flight area is free of people, pets, obstacles, trees, power lines, etc.
2. Do not operate near streets, busy parking lots, airports, crowds, etc.
3. Although this drone is approved for indoor and outdoor flight, it should not be flown in strong wind.
4. Maintain a safe distance of 5 feet between you and the drone at all times.
5. Children must be supervised by an adult when using this product.

SHOOTING PHOTOS AND VIDEO

1. Insert a Micro SD Memory Card (not included) until it clicks into place.
2. Once the controller and drone are paired, press the Photo button once to take a still picture.
3. Press the Video button to begin video recording.
4. Press the Video button once more to stop recording and save your video to the memory card.
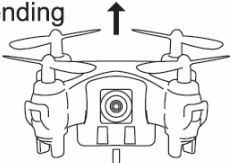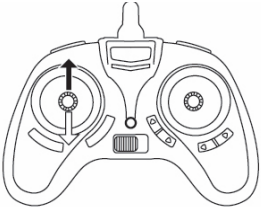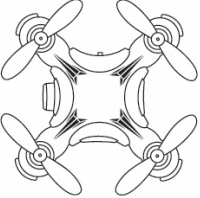
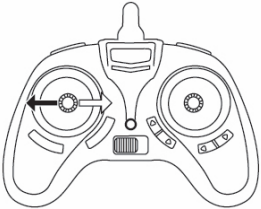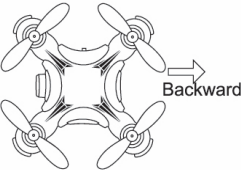*NOTE: Accommodates memory cards up to 32GB.*

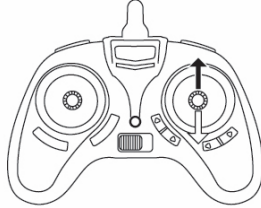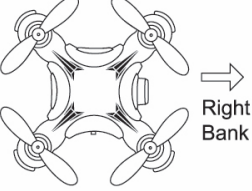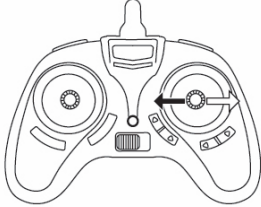## SETTING UP THE SIGNAL CONNECTION

1. The LED on the front of the drone will start to flash. Place the drone down on a flat, level surface.

⚠ CAUTION

The throttle stick to lowest point

ON/OFF

2. Ensure that the Up/Down lever on the controller (the LEFT stick) is in the fully down position. Then, turn on the controller power switch. To pair the controller and the drone, raise the Up/Down lever on the controller all the way up to the top position, then lower it all the way down to the bottom. The controller will make a BEEP sound, indicating it is paired. The next time you raise the up/down lever, the drone will lift into the air.

Power switch

3. Turn off the drone power after a flight.

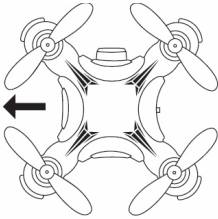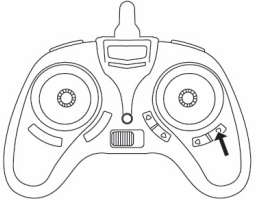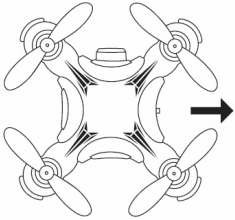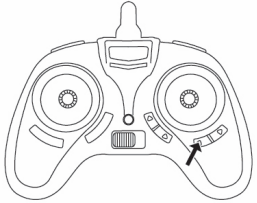4. Always turn the controller off after a flight, in order to conserve battery power.
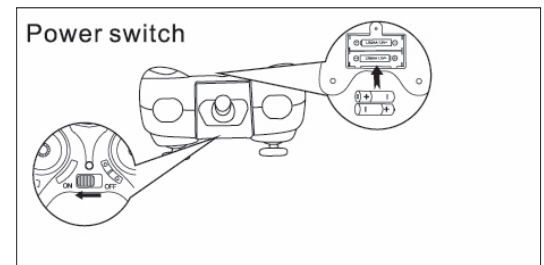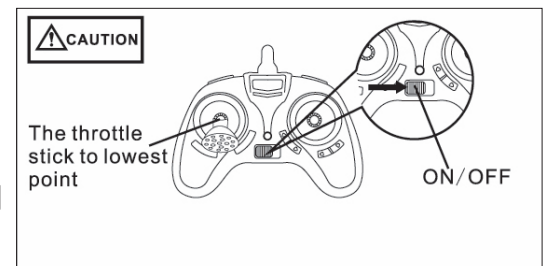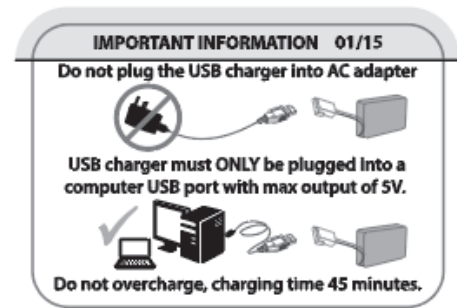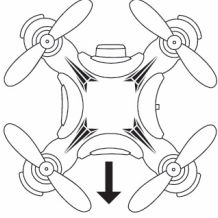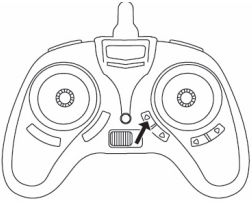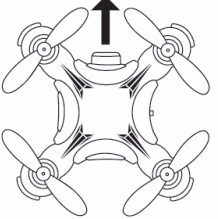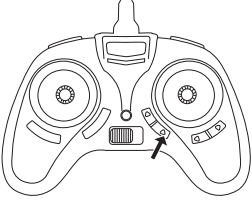
FLIGHT CONTROL

· Please take time to practice the maneuvers on the controller before embarking on your first flight.

· Place the drone on a flat surface, making sure that the LED "eyes" are facing away from you. This ensures that you and the drone are both facing the forward direction.

· When you are just starting out, keep the LED eyes and the white blades facing forward at all times.

· Ignore the Spin Right / Left function until you become more skilled at flying. You can still use the Left/Right control to fly anywhere you like.

Mosquito Drone Control Guide			
Direction	Drone View	Instructions	Controller View
Ascending and Descending	Ascending / Descending	Push up on the throttle lever (left stick) to go up. Do this slowly at first until you learn the instrument's sensitivity. When you push down on this lever, the drone will start to go down.	
Spin Right and Spin Left	Right sideways / Left sideways	Push left on the throttle lever to spin the drone left. Push right to spin the drone right.	
Forward and Backward	Forward / Backward	Push forward on the forward/ backward lever (right stick) to send the drone forward. Pull down on this this lever to fly backward. Do this slowly at first until you learn the instrument's sensitivity.	
Left Bank and Right Bank	Left Bank / Right Bank	Push left on the right stick to bank left. Push right to make the drone bank right.	

TRIMMING YOUR MOSQUITO DRONE

It may be necessary to adjust the trim (fine tune the controls) before a flight. When you lift off your Mosquito Drone into the air, and don't use any other control levers, it should just hover in one spot. If it doesn't, you can follow the instructions below to bring your drone to a perfect hover.

Direction	Drone View	Instructions	Controller View
If it drifts to the LEFT...		Press the Aileron trim button (right side button) until the drone stops drifting.	
If it drifts to the RIGHT...		Press the Aileron trim button (left side button) until the drone stops drifting.	
If it drifts BACKWARD...		Press the Forward/Backward Trim Button UP till the drone stops flying backwards.	
If it drifts FORWARD...		Press the Forward/Backward Trim Button Down till the drone stops flying forwards.	

RESETTING THE TRIM

Sometimes you will want to reset the Mosquito Drone back to its original factory trim settings. There are two ways to do this.

RESETTING THE TRIM (CONT.)
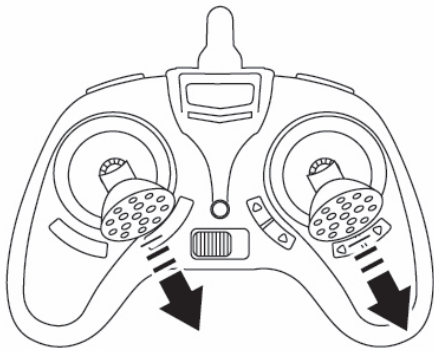
**Option 1:** One at a time, press the trim buttons in one direction. If you hear the beeps getting faster and then give you a louder beep, let go of the button. You will have reset that trim button. If you hear the beeps getting faster and then STOP, you need to push the trim button in the opposite direction until you hear the louder beep. Do this with all of the trim buttons and you will have reset this important feature back to the original factory settings.

Option 2: Push both the left AND right levers diagonally down to the bottom right corner and hold them there until you see the lights on the drone start to flash.

HOW TO PERFORM A 360° STUNT FLIP
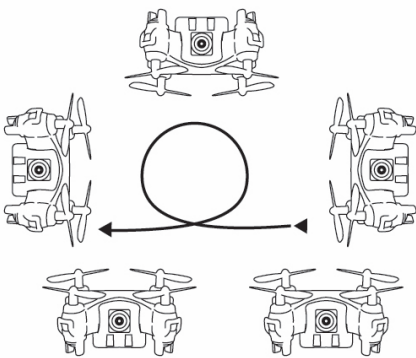
1. Make sure the Mosquito Drone is at least 10 feet off the ground, or 10 feet below a ceiling.
2. Press the Flip button once to put the drone into flip mode (you will hear a beep).
3. You can now choose the direction of the stunt flip. Using the right stick on your controller, push up to perform a forward flip; push down to perform a backward flip, push right to perform a rifght flip and push left to perform a left flip.
4. After one flip, the controller reverts to normal flying mode.

SPEED CONTROL

When you first set up your Mosquito Drone, it will automatically be set to Speed 1, which is the slowest speed (and great for indoor flying). To change speeds, press the speed control button (that is, push the throttle lever inward). You will hear two beeps, indicating that you are in Speed 2, which is suitable for indoor and outdoor flying. Press a third time and you will hear three beeps, indicating that you are in Speed 3. Speed 3 is the fastest speed mode, and should be used for outdoor flying only. Press the speed control once more to go back to Speed 1 (you will hear one beep).

TIP: Always learn to fly at the slowest speed. You can increase the speed as you become more proficient at flying.

Mosquito Drone Speed Chart		
Mode	Percent of Power	Recommended For
Speed 1	40%	Beginners or Indoor Use
Speed 2	75%	Intermediates or Indoor/Outdoor Use
Speed 3	100%	Experts or Outdoor Use

REPLACING BLADES

In the event of a strong crash, the blades are designed to come off to prevent serious damage to the drone. Certain blades must be replaced on certain motors, or your Mosquito Drone will not fly properly.
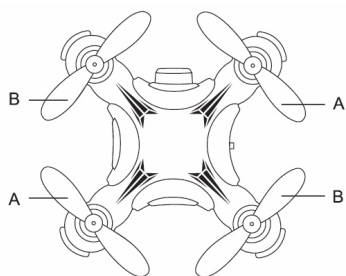
- If your drone is facing AWAY from you, the blades labeled "A" must be positioned top left and bottom right.
- If your drone is facing AWAY from you, the blades labeled "B" must be positioned top right and bottom left.
- Sometimes the blades may have a number printed on them (i.e., "A1" or "B2"). The number is not important, but you must make sure the correct letter is on the appropriate motor (see illustration on the left).

TROUBLESHOOTING

Problem	Possible Solution
Drone not lifting off or flying in direction desired.	Check blades for hair or debris. Carefully remove blade and remove debris, then replace blade.
	Batteries need charging or replacing. Make sure the drone battery is charged and that you have fresh batteries in the controller.
	Trim buttons are out of sync. Follow instructions in this guide to reset the trim to original factory settings, then re-trim if needed.

FCC STATEMENT

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.

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 STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposurere quirement.
The device can be used in portable exposure condition without RF striction.

WARRANTY/CUSTOMER SERVICE
Sharper Image branded items purchased from SharperImage.com include a 1-year limited replacement warranty. For Customer Service, please call 1(877) 210-3449.

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