# OMINUS FPV ™

### Radio Controlled
## Quadcopter

Spare Blades
(2 black, 2 color)

Controller

AA Batteries (4)

Ominus Quadcopter

USB Charger

Flight Battery

2G Memory Card

Card Reader

Phone Mount

Light Shield
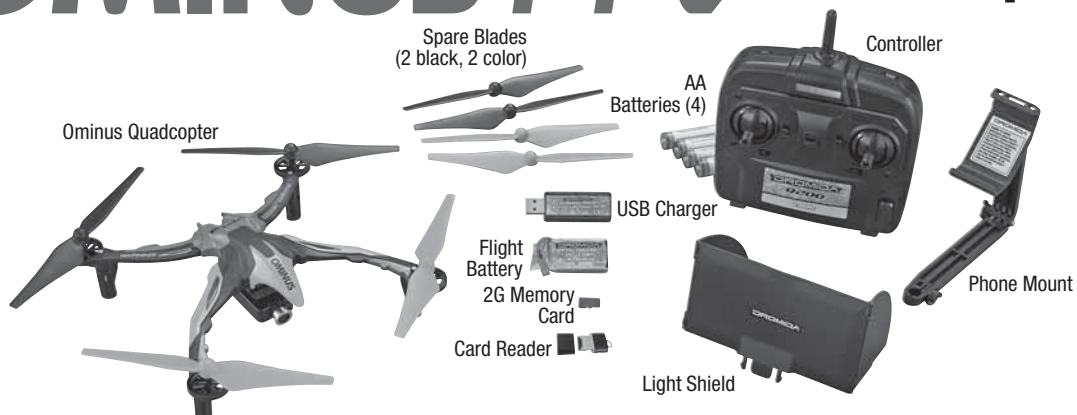
## CHARGING

Plug the charger into a USB port or AC adapter (not included) as shown and connect the battery. The charger LED is steady on when charging. The LED flashes when charge is complete.

- **NEVER** leave the battery unattended while charging.
- **DO NOT** allow the USB port to power down while the charger is connected to the battery.
- **ALWAYS** unplug the charger from the USB port and the battery when charging is complete.

## INSTALL BATTERIES INTO RADIO

Slide the cover down and insert 4 AA batteries.
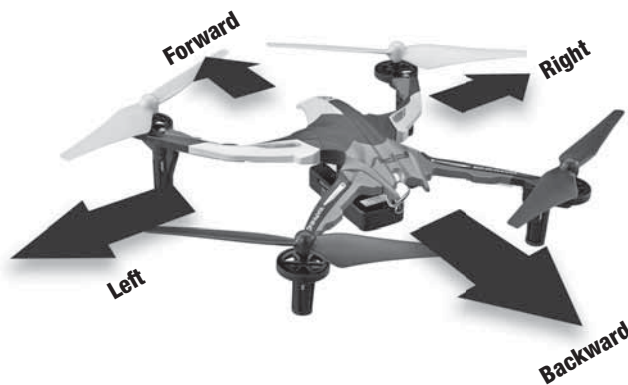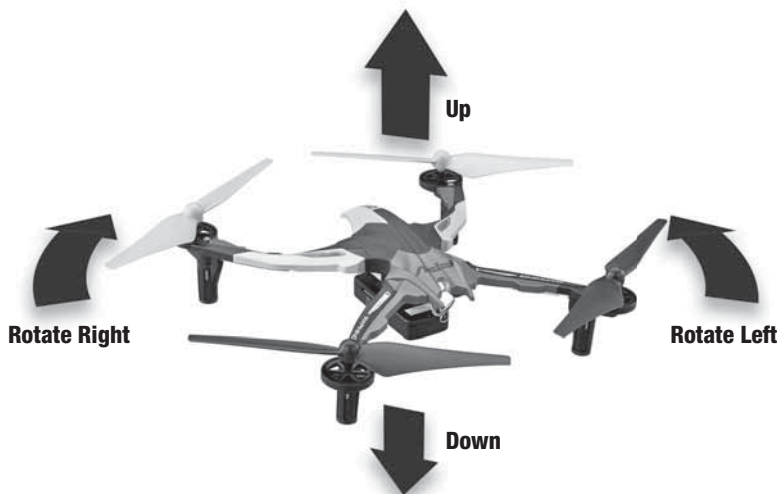
## LINKING

POWER SWITCH

1. Turn on the radio with the throttle at its lowest position.

2. Connect the battery to the Ominus and place it on a level surface. The LED on the quad will flash rapidly when the quad is linked to the radio and ready to fly.

*ALWAYS* **unplug the battery after flying!**

# FLYING

**Up**

**Rotate Right**

**Rotate Left**

**Down**

**Forward**

**Right**

**Left**

**Backward**

## FLYING BASICS

**Up**

**Rotate Left**

**Rotate Right**

**Down**

1. Take off by "slowly" advancing the left stick until the quad takes off.

2. Control altitude using the left stick.

3. Use the right stick to move left, right, forward, or backward.

4. Use the left stick (left/right) rotate or spin left or right.

5. Always use small movements until you learn how the model behaves.

**Forward**

**Left**

**Right**

**Backward**
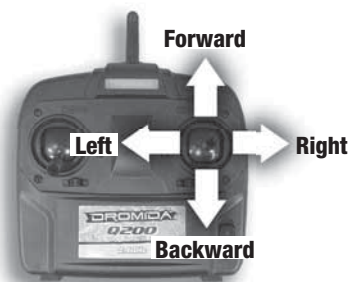
# DUAL RATES

Control sensitivity can be changed by pushing down on the right stick on the controller. The controller will make a short, low-pitched beep. This mode should be used when flying indoors or when learning how to fly. The controller will make a short, high-pitched beep when changing to high rates. This mode should be used when flying outdoors or when more agility is desired.

The low rate sensitivity will always be 25% less than the high rate. The overall controls can be adjusted by

1. Holding down the right stick until the controller starts beeping.
2. Continue holding down the right stick and advance the throttle to the desired setting.
3. Release the right stick and return the throttle to 0%.

*The default setting is when the throttle stick is at 50% (midstick).*

# FLIGHT MODE

To toggle between the normal and expert flight (accelerometers off) modes, press the Flight Mode Button. When the accelerometers are off, the flight controller will make the Ominus more agile, but also it is easier to crash.

Flight Mode LEDs **steady on**: Easy and normal flight (accelerometers on)
Flight Mode LEDs **flashing**: Advanced and expert flight (accelerometers off)

| Flight Mode | Flight Mode Button | Dual Rate |
|---|---|---|
| **Easy** | OFF | Low |
| **Normal** | OFF | High |
| **Advanced** | ON | Low |
| **Expert** | ON | High |

### FLIGHT MODES (FLIGHTMODE)
Push down on right top button and release. Audible low and high tone.

# LOW BATTERY INDICATOR

The LEDs on the Ominus will flash slowly when the battery voltage is low. The Ominus FPV should be landed as soon as possible to avoid damaging the battery. Always unplug the battery after flight. The battery needs to be charged before the quadcopter is stored.
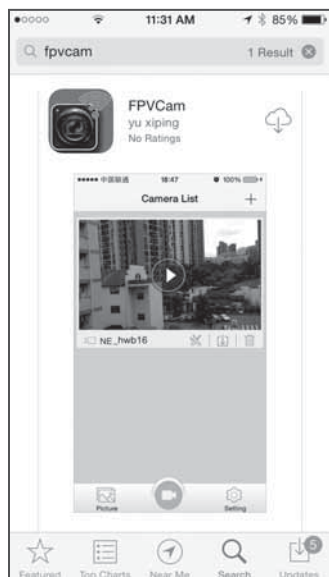
## QUADCOPTER SENSOR CALIBRATION

If the quadcopter is constantly drifting in the same direction or a new flight control board has been installed, the sensors on the Ominus should be calibrated.

1. Center all the trim adjustments. To check the trim, push the trim button once on one side and then once on the opposite side. When the trim is centered, the transmitter will emit a long, low pitched beep. The transmitter will emit a short beep of lower pitch as the adjustment gets closer to center and higher pitch as the adjustment moves away from center. Continue pressing the trim button that has the lower pitch until the adjustment is centered.

2. Push down on the right stick and hold it. The radio will steadily beep while the stick is held down.

3. Press down on the left stick 3 times within 2 seconds. The radio will stop the steady beep and make a short beep when the stick is pressed the third time.

4. Release both sticks and push up on the throttle trim button. The red LED will flash slowly and become steady again when the calibration is complete.

5. Press down on the left stick to save the settings.

## FIRST PERSON VIEW (FPV) SETUP

1. Install the "FPVCAM" app from Google Play (Android®) or the App Store (Apple®).

2. Remove the protective film from the camera lens.

3. Insert the memory card into the camera on the quad. **NOTE:** *ALWAYS* have the power off to the camera when installing or removing the memory card.

4. Install the phone mount onto the controller. For optimal performance, please keep the controller's antenna at least 7" (18cm) away from smartphones. Failure to do so may result in unwanted interference which can cause pilots to lose control of their model and/or experience poor video reception. Do not alter the smartphone holder in any way.

5. Install the Light shield if desired.

Onboard camera is not to be used for commercial ventures. Be sure to fly in a safe environment and respect the privacy of others. Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Android™ and Google Play are trademarks of Google Inc.
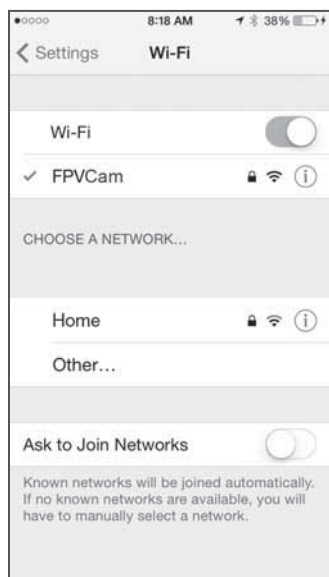
6. Turn on the controller and plug in the battery for the Ominus FPV.

7. Go to the Wi-Fi® setting on your phone and check that the FPVCAM is on. The password for the FPV Cam is 1234567890.

Wi-Fi® is a registered trademark of the Wi-Fi Alliance.
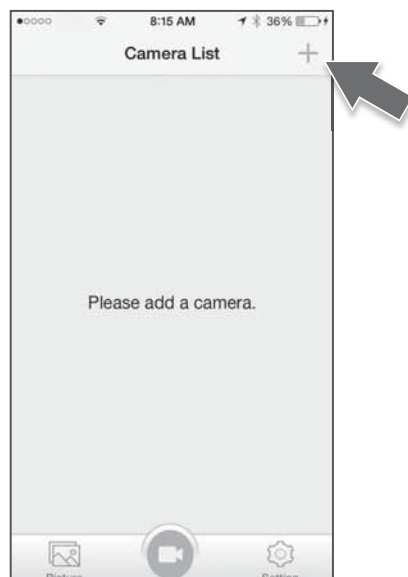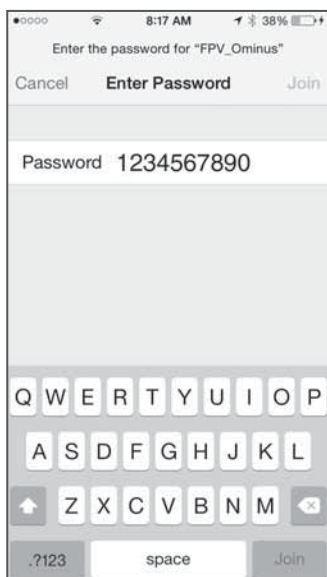
8. Open the FPVCAM app on your phone and push the "+" in the upper right hand corner. This will locate the camera.

9. Once the device finds the camera, push the ▶ button. The FPV camera should be displaying at this point.

## FPV VIDEO RECORDING/PICTURES



PUSH & RELEASE
STARTS RECORD

PUSH & RELEASE
STOPS RECORD



1. To activate the "record" function, simply push and release the **Video On/Picture Button** on the back/right hand side of the controller.

2. While recording, you can take a still photo. Push and hold the **Video On/Picture Button** for 2 seconds.

3. To stop recording video push the **Video Off Button** on the back/left hand side of the controller.

   **NOTE:** You can also take pictures and stop/start videos directly from the app. Access the controls by tapping on the screen.

4. Once you are done recording video or photos, click the download button from the main screen. **NOTE:** The quad must still be plugged in for this to work. This will download the video to your phone.
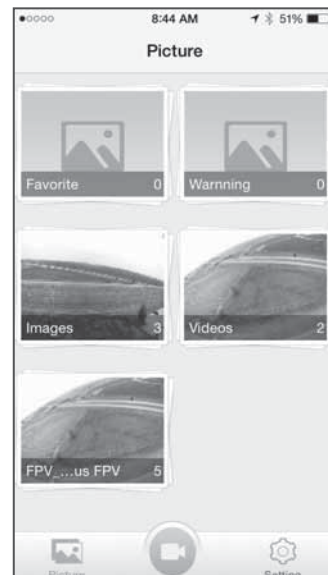
5. To download the videos or photos to your computer, remove the memory card from the camera, install it into the USB card reader. Then insert the card reader into a USB port on your computer. Open the removable disk folder and drag and drop the files onto your computer.

6. Once videos/pictures are downloaded, they can be viewed in the "picture" folder and be shared through social media.

**NOTE:** *If your computer doesn't recognize .flv video formats, download "VLC Media Player" from http://www.videolan.org*

## DELETING FILES

1. Files can be deleted from the memory card while the USB adapter is still installed into your computer by selecting the desired file(s) and deleting them.

2. If the memory card is installed in the camera you can delete the videos or photos by simply pushing and holding the desired video or photo for one second. A box will appear with a trash can. Simply push the trash can icon and the video or photo will be deleted. You can select more than one file at a time to be deleted. This can be done before or after they have been downloaded to your phone.

## TROUBLESHOOTING

**PROBLEM:** The quadcopter will not respond to the radio.
**SOLUTION:** (1) Charge or change the battery on the quadcopter. (2) Turn off the radio and disconnect the battery for the Ominus. Re-link the quadcopter and radio.

**PROBLEM:** Red radio LED light flashing after linking.
**SOLUTION:** Replace with new AA batteries.

**PROBLEM:** Unable to flip.
**SOLUTION:** Battery voltage too low.

**PROBLEM:** Gyro not working properly.
**SOLUTION:** (1) Battery voltage low. (2) Re-link. (3) Land onto the ground for 3 seconds and take off again.

**PROBLEM:** Will not take off.
**SOLUTION:** Rotor blades incorrectly installed. See Rotor Blade Replacement section.

**PROBLEM:** Quadcopter is shaking.
**SOLUTION:** Check the canopy, chassis, motors and rotor blades for damage.

## BLADE REPLACEMENT

1. Remove screw that secures the rotor blade to the gear shaft.
2. Pull prop off the gear shaft.
3. Install new rotor blade and secure with screw.

**Note:** The rotor blades have arrows that indicate which direction they rotate. Please refer to this diagram to verify that the correct replacement rotor blade is installed.
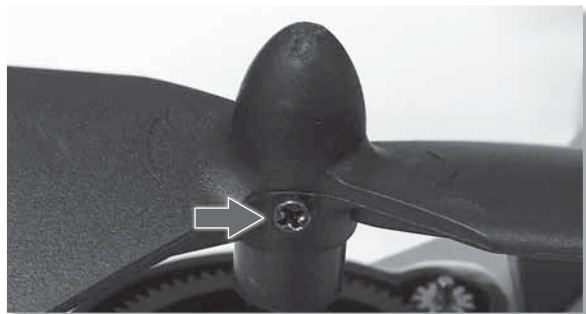


FRONT
Color Blades,
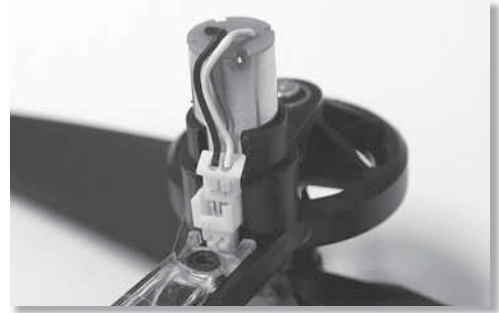Color LEDs

REAR
Black Blades,
White LEDs

## GEAR SHAFT REPLACEMENT

1. Remove the rotor blade from the gear shaft.
2. Push the shaft down to remove it from the gear.
3. Install the new gear shaft and rotor blade if it is not damaged.

**Note:** While the gear is out, check it carefully for any cracks or damage to the teeth.

## MOTOR REPLACEMENT

1. Remove the screw securing the motor cover to the arm and pull the cover off the motor.
2. Use a small flat blade screwdriver to separate the motor plug from the socket. DO NOT pull the wires.
3. Remove the motor from the frame and insert the replacement. Make sure that the wire colors on the replacement motor are the same as the original. The motors for the clockwise props have black and white wires. The counter-clockwise props use motors with blue and red wires.

## FLIGHT CONTROL BOARD REPLACEMENT

1. Remove all 4 motor covers.
2. Disconnect the camera wires from the quad.
3. Remove the 4 screws that secure the battery frame to the main frame.
4. Remove the LED covers on each arm.
5. Remove the control board. Transfer the O-rings to the LEDs on the new board.
6. Install the new control board and route the wires for motors. To prevent damage to the wires, route them between the guides on the inside of the arms.
7. Install the LED covers. There are openings on the cover for the wires. Before tightening the screws, make sure the wires are positioned correctly.
8. Replace the motor covers.
9. Calibrate the quadcopter sensors.

## BATTERY PRECAUTIONS

*The Ominus FPV uses a lithium polymer (LiPo) battery. Follow these precautions to insure safe and trouble-free operation.*

- ALWAYS disconnect the battery from the quadcopter when not in use.
- Only use the included charger with the flight battery.
- Do not attempt to use this charger with NiCd or NiMH battery packs.
- Do not attempt to use a damaged battery.
- This product contains a LiPo battery. Must be recycled or disposed of properly.
- Do not leave the charger unattended while charging. Disconnect the battery and unplug the charger immediately if either becomes hot! However, it is normal for the charger to get warm.
- Disconnect the battery from the charger and carefully move the battery to a fireproof location if the battery begins to swell or smoke!
- Never allow the battery temperature to exceed 140° F [60° C].
- Do not attempt to charge a battery if it is swollen or hot.

- Do not place the charger or any battery on a flammable surface or near combustible materials while in use.
- Never disassemble or modify pack wiring in any way or puncture cells.
- Never charge inside a vehicle.
- Always disconnect the battery and remove the charger from the USB port when not in use.
- Land your model immediately when the LEDs flash to indicate that the battery power is low. Recharge the battery before attempting another flight. A dangerous situation can occur when attempting to recharge an over-discharged battery!
- ALWAYS keep a supply of sand accessible when charging. Dumping sand on the battery will extinguish a LiPo chemical fire.
- ALWAYS KEEP OUT OF REACH OF CHILDREN

## SAFETY PRECAUTIONS

*Follow these safety precautions when operating this or any model quadcopter.*

- Adult supervision required.

- Before flying, go to  www.knowbeforeyoufly.org.

- Do not touch the spinning blades or fly over another person's head.

- Keep your face and body as well as all spectators away from the rotors whenever the battery is connected.

- Stay clear of buildings, trees and power lines. **AVOID** flying in or near crowded areas. **DO NOT** fly close to people, children or pets.

- Maintain a safe pilot-to-quadcopter distance while flying.

- Your Ominus FPV quadcopter should not be considered a toy, but rather a small, working model. If not operated correctly, the model could possibly cause injury to you or spectators and damage to property.

- You must check the operation of the model before every flight to insure that the model has remained structurally sound.

- Do not alter or modify the model, as doing so may result in an unsafe or unflyable model.

## REPLACEMENT PARTS

| 1 | DIDE1150 | Canopy *GREEN* |
|---|---|---|
| 1 | DIDE1151 | Canopy *RED* |
| 1 | DIDE1152 | Canopy *BLUE* |
| 1 | DIDE1153 | Canopy *YELLOW* |
| 2 | DIDE1154 | Prop Set *GREEN* |
| 2 | DIDE1155 | Prop Set *RED* |
| 2 | DIDE1156 | Prop Set *BLUE* |
| 2 | DIDE1157 | Prop Set *YELLOW* |
| 3 | DIDE1141 | Screw Set |
| 4 | DIDE1158 | Gear Set |
| 5 | DIDE1114 | Bearing Set |
| 6 | DIDE1159 | Main Frame *GREEN* |
| 6 | DIDE1160 | Main Frame *RED* |
| 6 | DIDE1161 | Main Frame *BLUE* |
| 6 | DIDE1162 | Main Frame *YELLOW* |
| 7 | DIDE1163 | Main Gear Shaft |
| 8 | DIDE1131 | Main Motor CCW R/F |
| 9 | DIDE1130 | Main Motor CW L/F R |
| 10 | DIDE1164 | Motor Covers |
| 11 | DIDE1135 | LED Covers *GREEN* |
| 11 | DIDE1136 | LED Covers *RED* |
| 11 | DIDE1137 | LED Covers *BLUE* |
| 11 | DIDE1138 | LED Covers *YELLOW* |
| 12 | DIDE1140 | LED O-Rings |
| 13 | DIDM1105 | E-Board *GREEN* |
| 13 | DIDM1106 | E-Board *RED* |
| 13 | DIDM1107 | E-Board *BLUE* |
| 13 | DIDM1108 | E-Board *YELLOW* |
| 14 | DIDE1165 | Battery Frame |
| 15 | DIDP1101 | LiPo 1S 700mAh 35C |
| 16 | DIDE1166 | Camera Foam Tape |
| 17 | DIDZ1502 | WIFI HD Camera |
|  | DIDE1167 | Q200 Phone Holder |
|  | DIDJ1101 | Q200 Transmitter |
|  | DIDP1120 | USB 1S LiPo Charger |
|  | DIDZ1501 | Micro Card Reader |
|  | HMXZ0002 | Micro Card Reader |
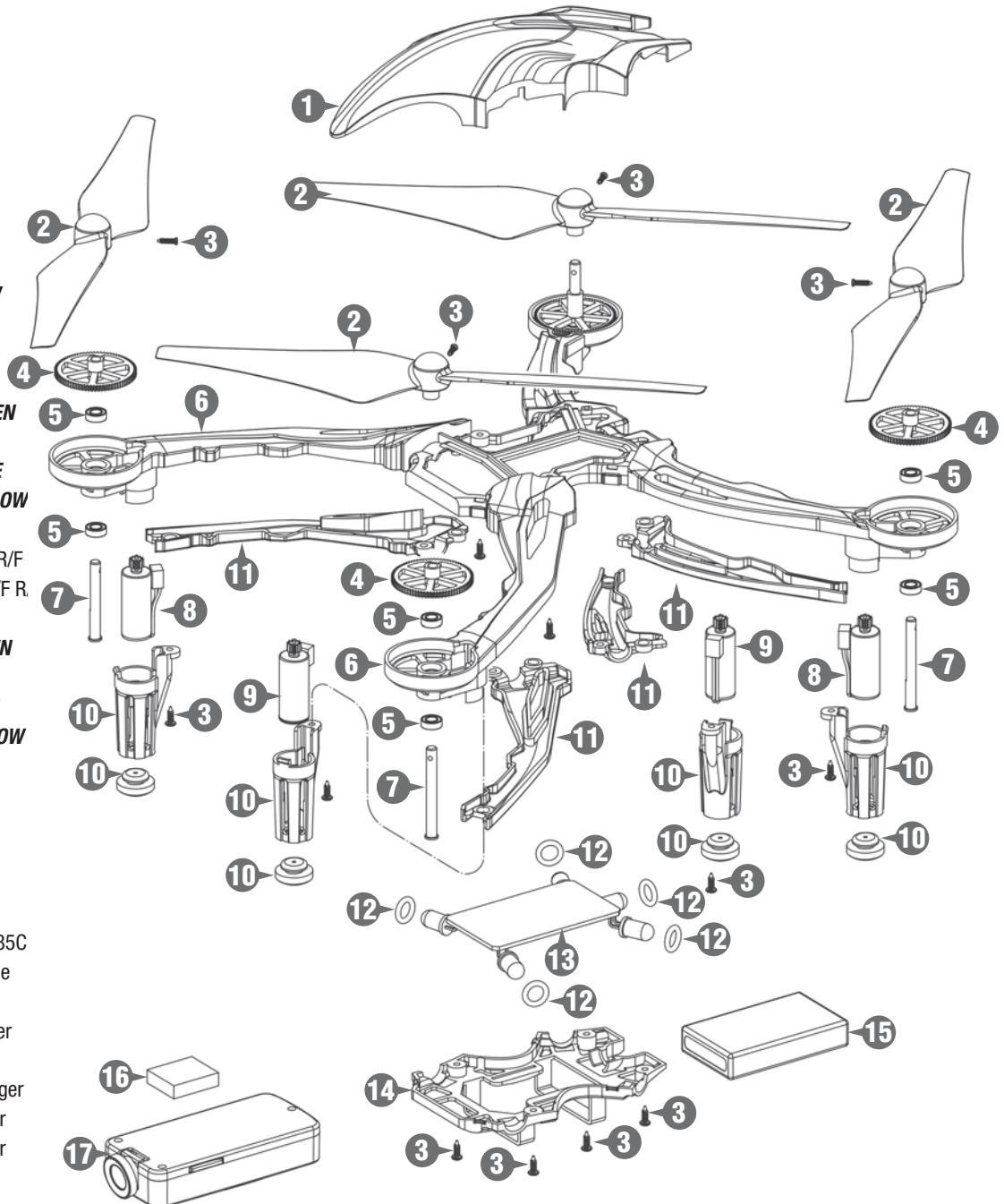
## 90-DAY LIMITED WARRANTY

**PLEASE DO NOT RETURN YOUR PRODUCT TO THE STORE.** Dromida will repair or replace factory defects for 90 days from the date of purchase. This warranty specifically does not cover crash damage, misuse or abuse. To make a warranty claim, please contact our product support team at **1-217-398-8970 option 6** or e-mail us at **helihotline@greatplanes.com**. If requested by Product Support, please send defective product to:

*Hobby Services*
*3002 N Apollo Dr., Suite #1*
*Champaign, IL 61822*

Please include a note about the problem, your contact information, and a copy of the receipt.

This warranty applies only if the product is operated in compliance with the instructions and warnings provided with each model. Dromida assumes no liability except for the exclusive remedy or repair of parts as specified above. Dromida shall not be liable for consequential or incidental damages. Some states do not allow the exclusion of consequential or incidental damages so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

## FCC REQUIREMENT

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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

*NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.*

## CE COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

**INSTRUCTIONS FOR DISPOSAL OF WASTE EQUIPMENT BY PRIVATE USERS IN THE EUROPEAN UNION:**

This symbol on the product or its packaging indicates this product must not be disposed of with other household waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or location where you purchased the product.

---

**DECLARATION OF CONFORMITY:**

Product: Dromida 2.4GHz 4-Channel Tx Rx
Item number: DIDJ1101 Q200
Equipment class: 1

FCC ID: U45-NEOT015
Dromida Wi-Fi Camera

Q200 transmitter: The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European 2006/95/EC Low Voltage Directive:

EN 60950-1:2006 Safety

The objects of the declaration described here are in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1995/5/EC:

EN300 328 V1.8.1.

Technical requirements for radio equipment

ETSI EN 301 489-1 V1.8.1, 301 489-17 V1.3.2 General EMC requirements for radio equipment

Hobbico, Inc.
2904 Research Road
Champaign, IL USA 61826

Distributed in Europe by Revell GmbH
D-32257 Bünde Germany

The associated regulatory agencies of the following countries recognize the noted certifications to this product as authorized for sale and use.

| UK | DE | DK | BG | SE | FI | GR |
|----|----|----|----|----|----|----|
| EE | LV | LT | PL | CZ | SK | HU |
| RO | SI | AT | IT | ES | PT | IE |
| NL | LU | MT | CY | | | |