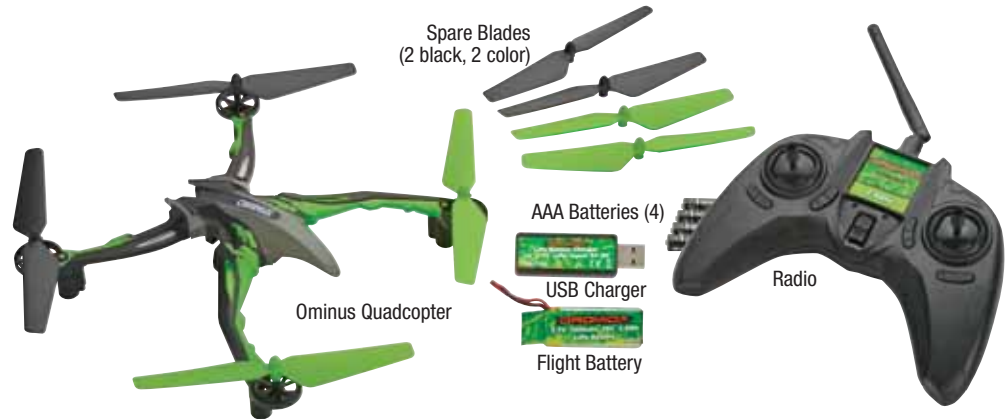


# OMINUS™ Radio Controlled Quadcopter



## 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

Remove the screw on the cover for the battery compartment. Slide the cover down and insert 4 AAA batteries.



## LINKING



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.

## FLIGHT MODES

Control sensitivity (Dual Rates) can be changed by pushing down on the right stick. The controller will make a short, low-pitched beep when changing to low rates. This mode should be used when flying indoors or if the pilot is not familiar with how the quadcopter responds to the controller. 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.

F- Mode LED off – Low Rates

F-Mode LED on – High Rates

The low rate sensitivity of the controls is about 25% less than the high rate sensitivity. The overall controls can also 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 and return the throttle to 0%.

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

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

F-Mode LED **steady** (off or on) – Normal Mode, accelerometers on

F-Mode LED **flashing** – Expert Mode, accelerometers off

### FLIGHT MODES (F-MODE)

Change control sensitivity (dual rates). Push down on right stick and release. Audible low and high tone.



F-Mode	F-Mode LED	F-Mode Button	Quad LED	Tx Sound
Easy	OFF	OFF	ON	Low Tone
Normal	ON	OFF	ON	High Tone
Advanced	Flashing	ON	Flashing	Low Tone
Expert	Flashing	ON	Flashing	High Tone

## LOW BATTERY INDICATOR

The LEDs on the Ominus will flash slowly when the battery voltage is low. The Ominus should land 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.

## SLT COMPATIBILITY

The Ominus has a receiver that is compatible with other SLT transmitters like the Tactic™ TTX650. Not all functions like the ability to turn off the accelerometers are available, but if the feel of a traditional transmitter is preferred, this is certainly an option.

### TTX650 Setup

- Model Type: Heli with H1 swashplate
- Servo Reversing: All Channels Normal
- Servo Travel: 125%/125% Ch. 1-3, 100%/100% Ch. 4-6
- Dual Rates: 50%/125% Aileron & Elevator
- Expo: -20/+100 Aileron & Elevator
- Throttle Curve: 0,18,45,73,100
- Gyro: 25%/75%/125%

- Use a trainer switch for the dual rate/expo settings.
- The high rates are used for flipping.
- The gyro settings are used to adjust control sensitivity.

## 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. Link the quadcopter and the transmitter.
3. Push down on the right stick and hold it. The radio will steadily beep while the stick is held down.
4. 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.
5. 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.
6. Press down on the left stick to save the settings.

## 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 AAA 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.

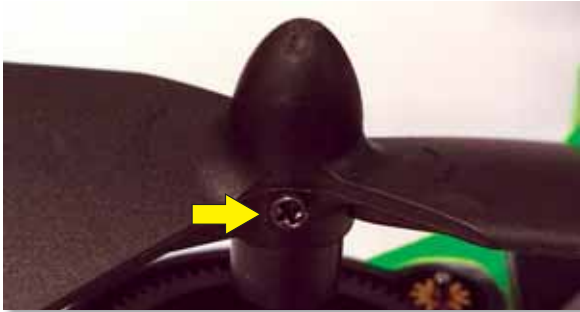
**PROBLEM:** Quadcopter is shaking.

**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 to 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. Remove the 4 screws that secure the battery frame to the main frame.
3. Remove the LED covers on each arm.
4. Remove the control board. Transfer the O-rings to the LEDs on the new board.
5. 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.



6. Install the LED covers. There are openings on the cover for the wires. Before tightening the screws, make sure the wires are positioned correctly.
7. Replace the motor covers.
8. Calibrate the quadcopter sensors.



# OMINUS™

## REPLACEMENT PARTS

<b>1</b> DIDE1100	Canopy <b>GREEN</b>	<b>6</b> DIDE1120	Main Frame <b>GREEN</b>	<b>12</b> DIDE1140	LED O-Rings
<b>1</b> DIDE1101	Canopy <b>RED</b>	<b>6</b> DIDE1121	Main Frame <b>RED</b>	<b>13</b> DIDE1141	Screw Set
<b>1</b> DIDE1102	Canopy <b>BLUE</b>	<b>6</b> DIDE1122	Main Frame <b>BLUE</b>	<b>14</b> DIDM1100	E-Board <b>GREEN</b>
<b>1</b> DIDE1103	Canopy <b>YELLOW</b>	<b>6</b> DIDE1123	Main Frame <b>YELLOW</b>	<b>14</b> DIDM1101	E-Board <b>RED</b>
<b>2</b> DIDE1110	Prop Set <b>GREEN</b>	<b>7</b> DIDE1125	Battery Frame	<b>14</b> DIDM1102	E-Board <b>BLUE</b>
<b>2</b> DIDE1111	Prop Set <b>RED</b>	<b>8</b> DIDE1126	Motor Cover	<b>14</b> DIDM1103	E-Board <b>YELLOW</b>
<b>2</b> DIDE1112	Prop Set <b>BLUE</b>	<b>9</b> DIDE1130	Main Motor CW L/F R/R	DIDJ1100	2.4GHZ Transmitter
<b>2</b> DIDE1113	Prop Set <b>YELLOW</b>	<b>10</b> DIDE1131	Main Motor CCW R/F L/R	DIDP1100	LIPO 1S 3.7V 700MAH
<b>3</b> DIDE1114	Bearing Set	<b>11</b> DIDE1135	LED Cover <b>GREEN/CLEAR</b>	DIDP1120	USB 1S LiPo Charger
<b>4</b> DIDE1115	Gear Set	<b>11</b> DIDE1136	LED Cover <b>RED/CLEAR</b>		
<b>5</b> DIDE1116	Main Gear Shaft	<b>11</b> DIDE1137	LED Cover <b>BLUE/CLEAR</b>		
		<b>11</b> DIDE1138	LED Cover <b>YELLOW/CLEAR</b>		

