

ARES **XView**

Owner's Manual



Product specifications are subject to change without notice. Due to ongoing development, the actual product may vary from images shown.

This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

This product is not a toy! (14+) Recommended for ages 14 and up. Adult supervision required for ages under 18 years old. Contains small parts, keep out of reach of children 3 years of age and younger.

AZSQ3300 XView Combo
AZSQ3300M1 XView Combo (Mode 1)



Ensure you have the latest version of the manual by visiting our website.

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1133 Libra Drive, Lincoln, NE 68512
www.firelandsgroup.com
1-800-205-6773
customerservice@firelandsgroup.com

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Model Engines (Aust.) Pty. Ltd.,
P.O. BOX 828
NOBLE PARK 3174
Australia
www.modelengines.com.au
Ph (03) 8793 5555

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Specification

Length: 137.0mm

Width: 137.0mm

Height: 38.0mm

Weight: 42.0g

Flight battery: 1S 3.7V 300mAh LiPo

Transmitter: 2.4GHz with digital trim

Charger: 1S USB

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IMPORTANT! This radio control model is not a toy. It must be operated and flown according to these instructions and may cause serious injury to persons or damage to property if not used responsibly or if operated without due caution. Unsuitable for children under 14 years of age.

Introduction

Until now, First Person View (FPV) flying has been an experience we've had to pay a high price to enjoy. Not anymore. Featuring a high-quality WiFi camera that relays live-view video footage to your own smartphone, the Ares XView allows you to become fully immersed in the fascinating world of Virtual Reality (VR) flight. Download and install the free app, clip your smartphone to the included transmitter mount and enjoy a captivating real-time view as you skim the stairs, race across the rafters and take a bird's-eye view of your back yard. Better still, connect two smartphones, share the FPV experience with friends, and even record your flight.

FCC Information

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.

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

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use: USA, UK, AU and EU

Safety Precautions

Failure to use this product in the intended manner as described in the following instructions can result in damage and / or personal injury. A Radio Controlled (RC) airplane is not a toy! If misused it can cause serious bodily harm and damage to property.

Keep items that could become entangled in the propeller(s) away from the propeller(s), including loose clothing, tools, etc. Be especially sure to keep your hands, face and other parts of your body away from the propeller(s).

As the user of this product you are solely and wholly responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

This model is controlled by a radio signal that is subject to possible interference from a variety of sources outside your control. This interference can cause momentary loss of control so it's advisable to always keep a safe distance from objects and people in all directions around your model as this will help to avoid collisions and / or injury.

- Never operate your model if the voltage of the batteries in the transmitter is too low.
- Always operate your model in an open area away from obstacles, people, vehicles, buildings, etc.
- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable batteries, etc.).
- Keep all chemicals, small parts and all electronic components out of the reach of children.
- Moisture causes damage to electronic components. Avoid water exposure to all electronic components, parts, etc. that are not specifically designed and protected for use in water.

Lawful Operation

Please note that specific guidelines exist regarding the lawful flying of 'Small Unmanned Aircraft' and 'Small Unmanned Surveillance Aircraft' such as the camera-equipped Recon. To stay within the law visit the website of your country's aviation regulating authority and read the operating guidelines within which you must operate.

USA: The Federal Aviation Administration – <https://www.faa.gov>

UK: The Civil Aviation Authority – <https://www.caa.co.uk>

Australia: The Civil Aviation Safety Authority – <https://www.casa.gov.au>

LiPo Battery Warnings

IMPORTANT NOTE: Lithium Polymer batteries are significantly more volatile than the alkaline, NiCd or NiMH batteries also used in RC applications. All instructions and warnings must be followed exactly to prevent property damage and / or personal injury as the mishandling of LiPo batteries can result in fire. By handling, charging or using the included LiPo battery you assume all risks associated with LiPo batteries. If you do not agree with these conditions please return the complete product in new, unused condition to the place of purchase immediately.

- You **MUST** charge the LiPo battery in a safe area away from flammable materials.
- **NEVER**, at any time, leave the LiPo battery unattended when it's being charged.
- When charging the battery you should **ALWAYS** remain in constant observation to monitor the charging process and react immediately to any potential problems that may occur.
- After flying / discharging the battery you must allow it to cool to ambient/ room temperature before recharging.
- To charge the LiPo battery you **MUST** use only the included charger. Failure to do so may result in a fire causing property damage and/or personal injury. **DO NOT** use a NiCd or NiMH charger.
- We recommend charging the LiPo in a proprietary, fireproof, dedicated LiPo charge bag.

If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen, even a small amount, must be removed from service completely.

For best results, store the battery at room temperature – approximately 68 – 77° Fahrenheit (F) – and in a dry area.

Contents

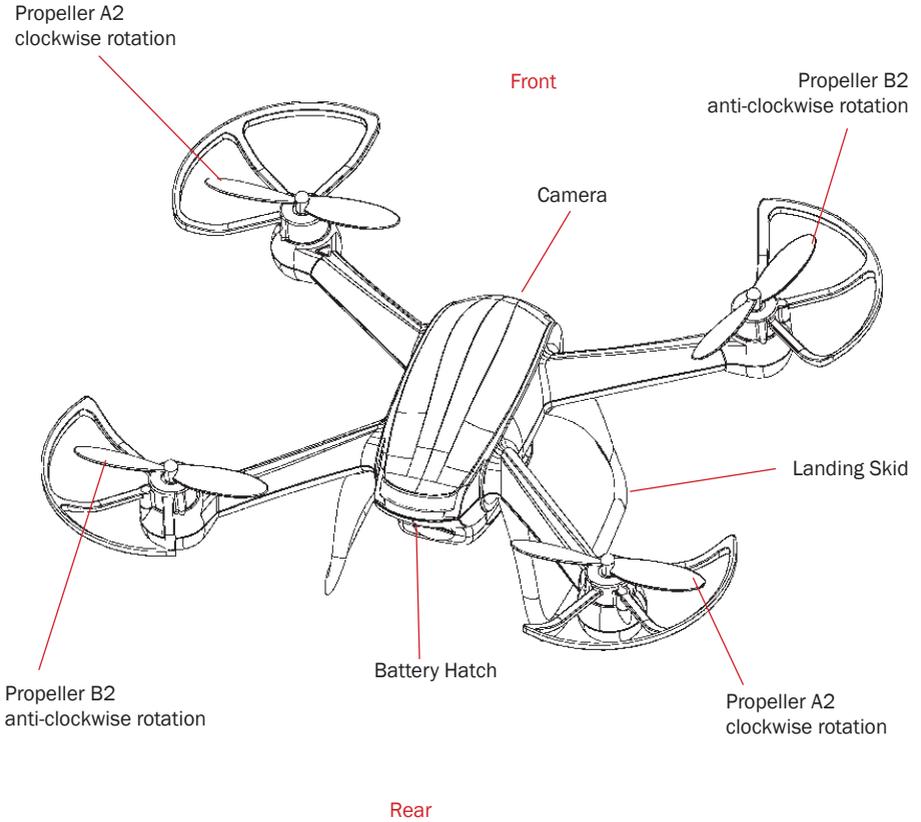
- 1 x XView FPV quadcopter
- 1 x 1S 3.7V 300mAh LiPo
- 1 x 2.4GHz transmitter
- 1 x USB charger
- 1 x Spare propeller set
- 1 x Smartphone mount for transmitter

Required to Complete

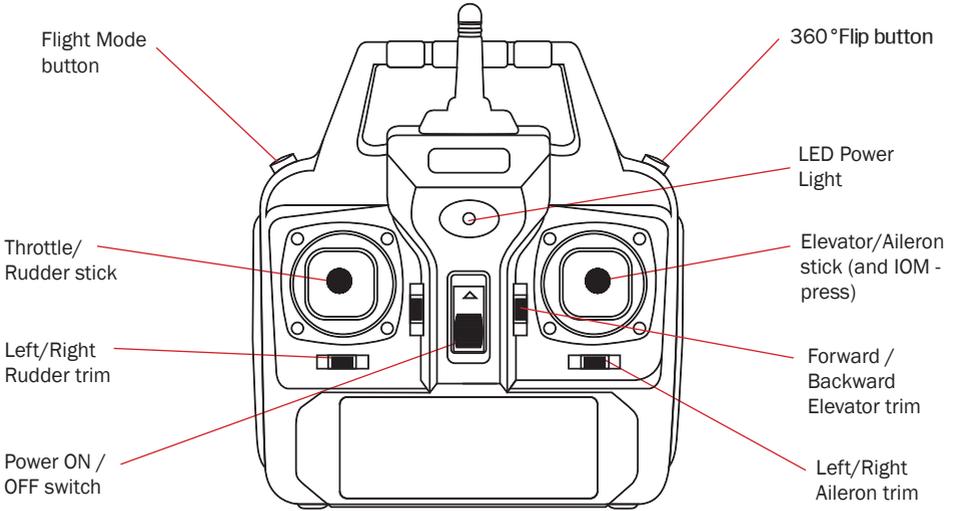
- 4 x AA Batteries for the transmitter



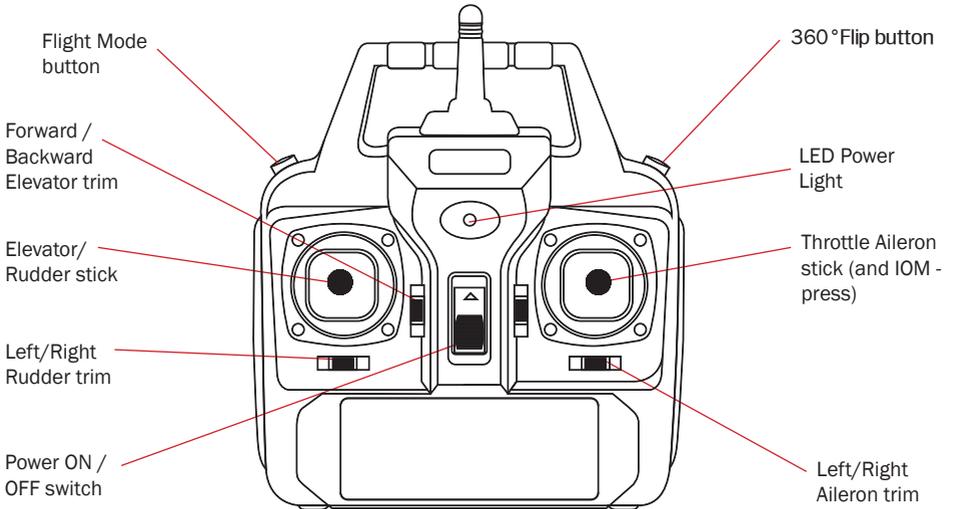
Quadcopter Details



Transmitter Details (Mode 2)



Transmitter Details (Mode 1)



Charging The Supplied LiPo Battery

Locate the USB style charger and connect it to the LiPo battery. Note the orientation of the white two-pin connector and align the slots to ensure correct polarity.



Plug the USB charger into a suitable USB port noting that the LED on the charger will glow solid red when connected. A discharged battery will be charged in approximately 70 minutes and can be seen to be fully charged when the red LED light goes out. When this happens the battery is ready to use and can be disconnected from the charge lead.



Preparation for Flight

1. Use a Phillips screwdriver to remove the rear battery cover and insert 4 x AA penceils noting the correct orientation / polarity of each cell. Replace the battery cover and tighten the screw.



2. Insert the LiPo into the rear of the fuselage and push it home. Connect the LiPo's two pin plug to the socket of the quadcopter making sure to align the slots for correct polarity. Tuck the lead neatly behind the LiPo.



3. When the battery is connected the LED lights will enter a fast flashing condition. Place the XView on a level surface to enable the on-board gyro to be properly calibrated.
4. With the throttle stick in its lowest position, switch the transmitter ON. The quad's LEDs will now enter a slow flashing condition and the transmitter's light will also flash indicating that the XView and the transmitter are paired.
5. Arm the motors by pushing the throttle stick forward to its stop (Pic.A), then back to its lowest point (Pic.B). The quad's LEDs will now stop flashing and light solid. Your XViewFPV is now ready to fly. Before taking off move the quad to a clear / open space that's free of people, animals and obstacles, then stand clear yourself. Position the quad with the battery cover facing you and the camera facing away. If you've never flown an R/C quadcopter before, read the section entitled 'Flying Your X-View'.



(Mode 2 Transmitter Shown)



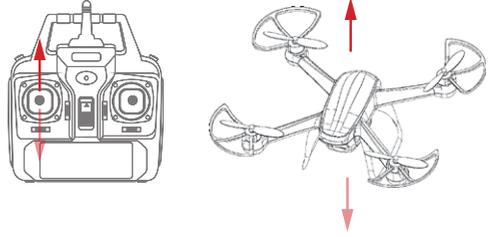
(Mode 2 Transmitter Shown)

Flying Your XView

Where quadcopter flying is concerned it's not possible to have too much space. As such, we recommend that you fly your XView in a large enough area to ensure that control is relaxed and you have time to think. If flying outside we also recommend that early flights be carried out in calm conditions. If you're new to R/C quadcopters set the Agility Mode to 'Low' before flying and take things gently to give yourself time to get familiar with the sensitivity of the controls. R/C flying is a skill that requires practice to master, so be prepared to undertake many flights before you get proficient. The following is a list of the controls you have at your disposal. Make sure you familiarize yourself with their effect on the quadcopter before you fly it.

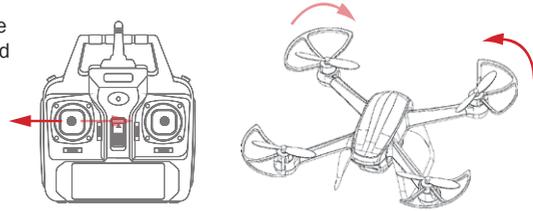
- 1. Ascend and descend.** Gently push the throttle stick forward to ascend and backward to descend.

(Mode 2 Transmitter Shown)



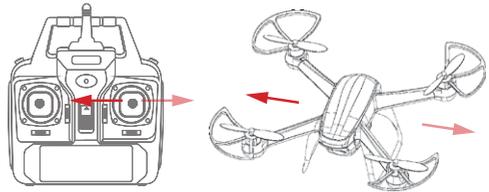
- 2. Yaw.** With the XView in a stable hover, gently move the rudder stick to the left to yaw (rotate) the quad in an anticlockwise direction. Move the rudder stick to the right to yaw the quad in a clockwise direction.

(Mode 2 Transmitter Shown)



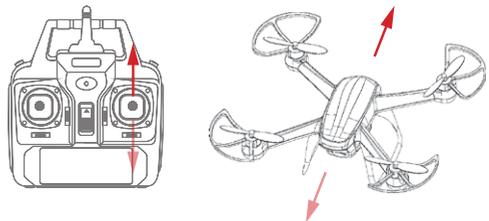
- 3. Roll.** With the XView in a stable hover, gently move the aileron stick to the left make the XView move sideways to the left. Move the aileron stick to the right to make the XView move sideways to the right.

(Mode 2 Transmitter Shown)



- 4. Pitch.** With the XView in a stable hover, gently push the elevator stick forward to move the quad forward. Gently pull the elevator stick backward to move the quad backward.

(Mode 2 Transmitter Shown)

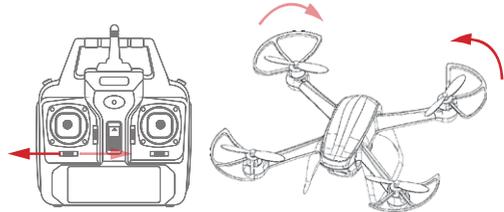


Note: With a charged battery the XView will fly for approx 4 minutes. At the end of your flight low battery power will be indicated when the XView's LED lights begin to flash. When this happens you should land within 30 seconds and recharge the LiPo.

Trimming

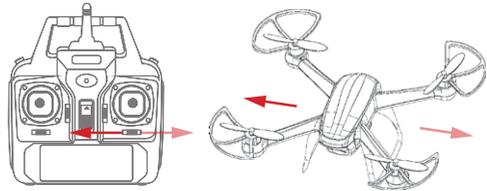
In order to maintain a suitably stable hover you may find it necessary to trim the model to correct any flight path deviation. This is done using the transmitter's trim buttons.

- 1. Deviation in yaw.** If the XView displays a natural tendency to rotate clockwise, use the rudder trim to correct this by pressing the left side of the button. If the XView displays a natural tendency to rotate anticlockwise, use the rudder trim to correct this by pressing the right side of the button.



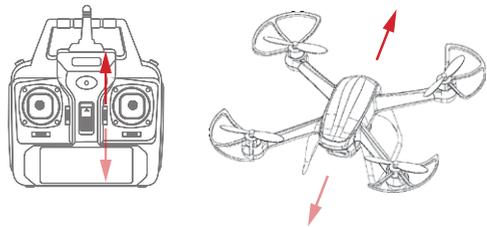
(Mode 2 Transmitter Shown)

- 2. Deviation in roll.** If the XView displays a natural tendency to move sideways to the left, use the aileron trim to correct this by pressing the right side of the button. If the XView displays a natural tendency to move sideways to the right, use the aileron trim to correct this by pressing the left side of the button.



(Mode 2 Transmitter Shown)

- 3. Deviation in pitch.** If the XView displays a natural tendency to move forward, use the elevator trim to correct this by pressing the bottom of the button. If the XView displays a natural tendency to move backward, use the elevator trim to correct this by pressing the top of the button.



(Mode 2 Transmitter Shown)

Note: The trim buttons offer 32 steps, each step indicated by a short beep and trim center indicated by a prolonged beep.

Flight (Agility) Mode

Flight mode allows you to tailor the performance of your XView to suit your experience. Three settings are available:

Low - for beginners.

Medium - for those with some quad flying experience.

High - for experienced quad pilots.

To cycle through the settings press the Flight Mode button. A single audible beep indicates that Low Flight Mode has been selected, two beeps indicates that Medium Flight Mode is selected and three beeps indicates High Flight Mode.

360° Flip Mode

Your XView is equipped with a 360° flip function that works in both the pitch and roll axes. To activate Flip mode press the 360° Flip button. A continuous beep will be heard and the transmitter light will flash to confirm that the Flip function is active and ready for your command. At this point simply fly the quadcopter into a hover, push the aileron or elevator stick to its furthest point of travel, and release. The Recon will perform a 360° flip in the direction of the stick movement. Once the quad has flipped the function will be cancelled so that normal flight can resume. Be aware that additional flying space will be required when performing flips so make sure to practice these with plenty of space.

Intelligent Orientation Mode

Your XView is equipped with IOM functionality that locks the aileron and elevator commands to a specific compass bearing no matter which direction the front of the quadcopter is facing. IOM is perfect for creative video making as it allows you to disengage the yaw (camera pan) function from the other primary controls to make combined flying and filming much easier. To activate IOM:

1. Position the quadcopter directly in front of you with the camera facing forward (i.e. in the direction you wish IOM to use).
2. Without moving the quad, prepare it for flight by connecting the battery and arming the motors.
3. Select IOM (press the right-hand stick) on the transmitter – a single beep will be heard and the quad's lights will flash to confirm that IOM is active. Note: the lights will now continue to flash until the IOM function is switched off.
4. To test the IOM function, lift the quad into a stable hover with the camera facing forward. The quad should respond as normal, i.e. if you push the

elevator stick forward the quad will fly forward, if you pull the stick back it will fly back. Left aileron stick will move it to the left and right aileron stick will move it to the right. However, if you now yaw the quadcopter 45° to the left and repeat the process, forward elevator stick will still make it fly away from you, whilst pulling back on the elevator stick will bring it back towards you. Left aileron will continue to move it to the left and right aileron will continue to move it to the right.

5. Select IOM (press the right-hand stick) once more to switch the function off and return to normal flight. With IOM switched off the LED lights will stop flashing and light solid.

If your XView was facing North when IOM was activated this compass bearing will be stored and reactivated (for the duration of the flight) whenever the IOM button is pressed. To alter the heading the IOM function must be recalibrated as below:

1. Prepare your XView for flight and arm the motors.
2. Position the quadcopter directly in front of you with the camera facing forward.
3. Pull both transmitter sticks as far back as they will go then place the left-hand stick in the bottom right-hand corner of the gimbal and the right-hand transmitter stick in the bottom left-hand corner of the gimbal.
4. After a short pause the XView's LED lights will flash to confirm that recalibration is in process. Hold the sticks in position until the lights stop flashing. Successful recalibration will now have taken place.



IOM (Press)

Flying Your XView in FPV Mode

To use your XView in FPV mode you will need the free Apple or Android compatible WiFi_UFO App from the App Store or Google Play. Download and install the App to your smartphone, then follow these steps to get the system up and running:

1. Go to the 'Settings' and then the 'WiFi' menu of your smartphone.
2. Prepare your XView for flight but do not arm the motors at this stage.
3. When the quad is switched on the WiFi_UFO network will appear for selection in your smartphone's WiFi network option list.
4. Select the WiFi_UFO network.
5. Exit your smartphone's 'Settings' menu and tap the WiFi_UFO App icon.
6. With the App open, select 'Play'.
7. Your smartphone is now your FPV monitor and will display the XView camera's live footage.
8. Position the spring-clip smartphone holder over the transmitter aerial, push it firmly into position, then clip your smartphone into the holder.



Controlling the XView Camera with your Smartphone

The WiFi_UFO smartphone interface allows you to record video and still images to your smartphone's memory and provides a range of other options, one of which offers basic four-function control of the quadcopter using your phone instead of the supplied transmitter. To do this:

1. Prepare your XView for flight by installing the battery and connecting it, however do not switch on the transmitter.
2. When the quad is switched on the WiFi_UFO network will appear for selection in your smartphone's WiFi network option list in the Settings menu.
3. Select the WiFi_UFO network.
4. Exit your smartphone's 'Settings' menu and tap the WiFi_UFO App icon.
5. With the App open at the home page, select 'Play'.
6. Now select the OFF icon at the top of the display to activate the quad's primary flight controls.

Using the Optional Ares VR Headset

For a complete, immersive, FPV experience you can clip your smartphone into the optional Ares VR FPV Headset (AZSQ3312). When using the headset note that you'll need to select the Split Screen icon in the 'Settings' menu of the WiFi_UFO App.

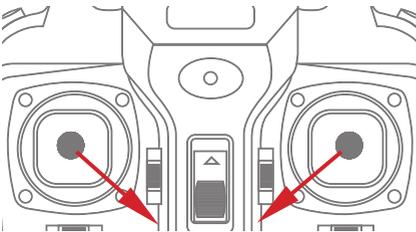


WARNING: When flying FPV using the WiFi_UFO App, be aware that incoming phone calls, text messages and other alerts will temporarily interrupt your camera view.

Gyro Calibration

If at any point you wish to recalibrate your XView's gyros to re-establish stable flight and correct any control malfunction – following a crash, for example – you can do this in the following way:

1. Prepare your Recon FPV for flight and arm the motors.
2. Position the quadcopter directly in front of you with the camera facing forward.
3. Pull both transmitter sticks as far back as they will go then place the left-hand stick in the bottom right-hand corner of the gimbal and the right-hand transmitter stick in the bottom left-hand corner of the gimbal.
4. After a short pause the XView's LED lights will flash to confirm that recalibration is in process. Hold the sticks in position until the lights stop flashing. Successful recalibration will now have taken place.



Propeller Identification

If at any point you damage one of your Recon's propellers it's imperative that the replacement prop is matched with the correct motor, as shown in the Quadcopter Details section on page 8 of this instruction manual. The identification numbers of the propellers can be found on the top side near the center (root section) of the blade. Note that since the blades are a simple push fit on the motor shafts, a gentle tug will easily remove them.

Replacement Parts

- AZSQ3301Body shell
- AZSQ33021S 3.7V 300mAh LiPo
- AZSQ3303Propeller set
- AZSQ3305CW motor
- AZSQ3306CCW motor
- AZSQ3307Rx PCB
- AZSQ33082.4GHz transmitter
- AZSQ3309Landing gear set
- AZSQ33101S 3.7V USB charger
- AZSQ3311Propeller Guards

Troubleshooting Guide

Problem	Diagnosis	Cure
The quadcopter lights continue to flash when the transmitter is turned on and the quad will not operate.	<ol style="list-style-type: none"> 1. The quad has failed to pair with the transmitter. 2. The quad has insufficient battery power. 	<ol style="list-style-type: none"> 1. See the section headed 'Preparation For Flight' and follow steps 2 - 5. 2. Fully charge the LiPo battery.
The propellers turn but the quadcopter will not take off.	<ol style="list-style-type: none"> 1. The quad has insufficient battery power. 2. One or more propeller blades are damaged or deformed. 3. Propellers incorrectly located 	<ol style="list-style-type: none"> 1. Fully charge the LiPo battery. 2. Replace the damaged / deformed propellers. 3. Check and reposition as shown on page 8.
The quadcopter shakes in flight.	<ol style="list-style-type: none"> 1. One or more propeller blades are damaged or deformed. 	<ol style="list-style-type: none"> 1. Replace the damaged / deformed propellers.
The quadcopter is unstable in flight and difficult to trim.	<ol style="list-style-type: none"> 1. One or more propeller blades are damaged or deformed. 2. One or more of the motors is faulty. 	<ol style="list-style-type: none"> 1. Replace the damaged / deformed propellers. 2. Replace the faulty motor(s).
The quadcopter is uncontrollable following a collision.	<ol style="list-style-type: none"> 1. The gyro may have lost its settings. 	<ol style="list-style-type: none"> 1. Follow the Gyro Calibration procedure detailed on page 18.
The propellers turn but the quadcopter will not take-off.	<ol style="list-style-type: none"> 1. The quad has insufficient battery power.. 2. One or more propeller blades are damaged or deformed. 3. The propellers are incorrectly located. 	<ol style="list-style-type: none"> 1. Fully charge the LiPo battery. 2. Replace the damaged / deformed propellers. 3. Refer to the section entitled Propeller Identification on page 18.

Warranty, support and service (UK)

This product is covered by the current statutory guarantee regulations. If you wish to make a warranty claim, please contact the model shop where you originally purchased the product from. You should also present your proof of purchase.

- The guarantee does not cover faults or damage caused by:
- Incorrect handling or operation
- The use of incompatible accessories
- Modification or unauthorised repairs
- Accidental or deliberate damage
- Normal wear and tear
- Using the product outside of its stated specification

Firelands Group LLC accepts no liability for loss, damage or costs which are incurred due to the incorrect or incompetent use of the product.

CE Conformity Declaration

This device has been tested in accordance with the relevant harmonised European directives. This product's design fulfils the protective aims of the European Community relating to the safe operation of this equipment.

For a copy of the Declaration of Conformity, please visit:
www.ares-rc.com/support



Disposal

Electrical equipment marked with the crossed out wheellie bin symbol must not be disposed of in household waste, but must be taken to a specialist disposal or recycling system. In EU member countries, electrical equipment must not be discarded via the normal domestic refuse channels (WEEE - Waste Electrical and Electronic Equipment Directive 2002/96/EG). You should take unwanted electrical equipment to your nearest local authority waste collection point or recycling centre.

Distributed in the UK by:

J Perkins Distribution Ltd,
Lenham,
Kent,
UK
ME17 2DL.
www.jperkins.com

Warranty, support and service (USA)

30-Day Limited Warranty Term Period:

We warrant that the Product(s) purchased (the 'Product') will be free from defects in materials and workmanship when the product is new (before being used) for the limited warranty term period, 30 days, from the date of purchase by the Purchaser.

If you believe a defect in material, workmanship, etc. was not apparent when the Product was new and only became evident after the Product was used, take the following steps:

If you purchased the Product at a HobbyTown store, please contact your local HobbyTown store for warranty support and/or service.

If you purchased the Product from the Firelands website, use the contact information found under the Support heading to contact Firelands directly.

If you contact Firelands, you may be asked to send the product to Firelands, at your cost, for inspection. Provided the warranty conditions have been met within the warranty term period, the components that are found to be defective, incorrectly manufactured or assembled may be repaired or replaced, at the sole discretion of Firelands. Your warranty item will be returned to you at Firelands' expense. In the event your product needs repair or a replacement part that is not covered by this warranty, your local HobbyTown store or Firelands can assist you with support and in obtaining the genuine replacement parts to repair your Product. Firelands will charge \$40.00 per hour plus the cost of replacement parts to service your vehicle if after contacting you, you so authorize such repairs. Your product will be returned to you at your expense.

If you purchased your Product from a HobbyTown Internet site not affiliated with a local store, please consult that site for its support and service policies. You can also find more information at:

www.Hobbytown.com

by emailing customerservice@firelandsgroup.com

or by calling 800-205-6773

Warranty, Support & Service AU

30 Day Warranty

Model Engines (Aust.) Pty. Ltd. warrants this product to be free from defects in materials or workmanship for 30 days from the date of purchase and will repair, replace or refund the purchase should the product prove to be defective.

This warranty does not apply to any unit or system or component which has been dropped, damaged in a crash, improperly installed, assembled, handled or abused.

Model Engines (Aust.) Pty. Ltd. reserves the right to void the warranty if the product has been altered or modified, has had a foreign part added, has been misused or not used for the purpose for which it was designed, has been used near or in salt water, has been water damaged, or if the damage has been caused by the customer's use of the product.

Under no circumstances does Model Engines (Aust.) Pty. Ltd. warrant nor will the customer be entitled to consequential or incidental damages. Model Engines (Aust.) Pty. Ltd. assumes no responsibility for any other damage, inconvenience or other claims whatsoever.

Lodging A Claim

To lodge a claim, present the goods to your place of purchase (retailer where you bought the product) with your original purchase receipt and a written explanation of the defect.

The place of purchase (retailer where you bought the product) will then contact Model Engines (Aust.) Pty. Ltd. for a Return Authority number and will return the item for warranty assessment to Model Engines (Aust.) Pty. Ltd. Items delivered to Model Engines (Aust.) Pty. Ltd. for warranty assessment without a Return Authority number will be returned to sender.

The warranty process may take up to 14 business days from the date of receipt. Model Engines (Aust.) Pty. Ltd. must assess each item and if warranty applies must repair or replace the item at its discretion and return it to the place of purchase (retailer where you bought the product).

Goods presented for warranty may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

If the product is proven to be defective the cost and expenses relating to the delivery of the goods to Model Engines (Aust.) Pty. Ltd. will be borne by Model Engines (Aust.) Pty. Ltd.

The benefits of this warranty are in addition to other rights and remedies of the customer under any law to which this warranty relates.

Our goods come with guarantees that cannot be excluded under the Australian consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the

goods fail to be of acceptable quality and the failure does not amount to a major failure.

Model Engines (Aust.) Pty. Ltd.,

P.O. BOX 828

NOBLE PARK 3174

Australia

www.modelengines.com.au

Ph (03) 8793 5555

warranties@modelengines.com.au

This warranty information relates to goods supplied on a wholesale basis by Model Engines (Aust.) Pty. Ltd. to Australian Retailers. The warranty complies with Australian regulatory requirements and supersedes all warranty information from the original manufacturer.

ARES