DISCLAIMER

Please read this disclaimer carefully before using this product. This product is a hobby with motors but not a toy which is not suitable for people under the age of 18. By using this product, you hereby agree to this disclaimer and signify that you have read them fully. You agreed that you are responsible for your own conduct and content while using this product, and for any consequences thereof.

Before you fly the drone

1) Make sure all connections are good, and keep children and animals away during flying, firmware update, system calibration and parameter setup.

2) Always fly the drone away from unsafe conditions, such as obstacles, crowds, high-voltage lines, etc.

3) Do not use in bad weathers such as rainy day, snow, windy (more than moderate breeze), hail, lighting, tornadoes, hurricanes etc.

4) Check whether the propellers and the motors are installed correctly and firmly before flight. Make sure the rotation direction of each propeller is correct.

5) Check whether all parts of the drone are in good condition before flight. Do not fly with aging or broken parts.

6) Never overcharge LiPo batteries. Do not charge above 4.2V per cell. When the battery is fully charged, disconnect it from the charger. Never leave the battery charger unattended during charging.

7) Never discharge batteries to below 3.3V per cell

8) Remove batteries when not using the drone.
Quick Start - Radiolink AT9 Radio Controller

1. Switch G: Up for Angle mode
(Only affect in Rate mode)

2. Switch C: Up for No Buzzer

3. Switch E: Up for Low Speed

4. Throttle Down
Mode 2: Left Stick

5. Power On

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Two ways to mount battery

A. Battery on top

B. Battery on belly

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WATCH OUT!! DON’T let propellers cut the battery cable,
always check battery cable clearance before flying.

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6. Connect battery

Always check for battery cable clearance, DON’T let propellers
cut the battery cable.
7. Place drone on flat surface for 10 seconds to let it initialize.

8. Unlock the system
   - Mode 2 (default): Left Stick : Right Bottom
   - Mode 1 : Left Stick : Right; Right Stick: Bottom

9. You can fly now

10. After flying and land the drone, please lock the propellers IMMEDIATELY.
Quick Start - FrSky Taranis X9D Plus Radio Controller

1. Switch G : Up for Angle mode

2. Switch C : Up for No Buzzer

3. Switch E : Up for Low Speed
   (Only affect in rate mode)

4. Throttle Down
   Mode 2 : Left Stick

5. Power On

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Two ways to mount battery

A. Battery on top
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9. You can fly now

10. After flying and land the drone, please lock the propellers IMMEDIATELY
How to Control - Radiolink AT9 Radio Controller

**MODE 2 (LEFT THROTTLE)**

- **Switch E** (only affect in Rate mode)
  - Up is Low Speed
  - Middle is Medium Speed
  - Down is High Speed

- **Switch G**
  - Up is Angle Mode
  - Middle is Horizon Mode
  - Down is Rate Mode

- **Switch C**
  - Up is Buzzer Off
  - Middle is Buzzer ON
  - Down is Buzzer ON

**Standard**

**MODE 1 (RIGHT THROTTLE)**

- **Switch E** (only affect in Rate mode)
  - Up is Low Speed
  - Middle is Medium Speed
  - Down is High Speed

- **Switch G**
  - Up is Angle Mode
  - Middle is Horizon Mode
  - Down is Rate Mode

- **Switch C**
  - Up is Buzzer OFF
  - Middle is Buzzer ON
  - Down is Buzzer ON
How to Control - FrSky Taranis X9D Plus Radio Controller

MODE 2 (LEFT THROTTLE)
Standard

MODE 1 (RIGHT THROTTLE)
Motors and propellers rotation

- M1: Clockwise
- M2: Counter Clockwise
- M3: Counter Clockwise
- M4: Clockwise

Nose
FPV System

The video transmitter has up to 40 different video channels, available to avoid interference with other channels. If two or more drones are flying at the same time, try to select different video frequency to avoid video interference. The bigger different in video frequency between drones, the less interference generated.

**LONG** press to change Band
**SHORT** press to change Channel

Always check the supported channels of you FPV reception devices such as monitor, goggles.

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**Frequency Table**

<table>
<thead>
<tr>
<th>FRCH</th>
<th>Ch1</th>
<th>Ch2</th>
<th>Ch3</th>
<th>Ch4</th>
<th>Ch5</th>
<th>Ch6</th>
<th>Ch7</th>
<th>Ch8</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR1(A)</td>
<td>5740</td>
<td>5760</td>
<td>5780</td>
<td>5800</td>
<td>5820</td>
<td>5840</td>
<td>5860</td>
<td>5880</td>
</tr>
<tr>
<td>FR2(B)</td>
<td>5705</td>
<td>5685</td>
<td>5665</td>
<td>5645</td>
<td>5685</td>
<td>5905</td>
<td>5925</td>
<td>5945</td>
</tr>
<tr>
<td>FR3(C)</td>
<td>5865</td>
<td>5845</td>
<td>5825</td>
<td>5805</td>
<td>5785</td>
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<td>5725</td>
</tr>
<tr>
<td>FR4(D)</td>
<td>5658</td>
<td>5695</td>
<td>5732</td>
<td>5769</td>
<td>5806</td>
<td>5843</td>
<td>5880</td>
<td>5917</td>
</tr>
<tr>
<td>FR5(E)</td>
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<td>5752</td>
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<td>5790</td>
<td>5809</td>
<td>5828</td>
<td>5847</td>
<td>5866</td>
</tr>
</tbody>
</table>
FAQ

Binding with Radiolink AT9 Transmitter

If your drone cannot response to the radio controller, the connection between radio controller and receiver may lost and you can try to re-bind them by following the procedure.

(Skip Step One if it is already Purple light)

1. Press the tiny black button on the side of the receiver twice with small screwdrivers to make LED indicator turns PURPLE to enter S.Bus mode.

2. Press and hold the tiny black button until it is flashing BLUE and PURPLE, turn on the radio controller and it will automatically search for available receiver. The receiver will stop flashing once the binding process complete and there will be a Signal Strength icon on the screen.
Radio Controller Parameters - Radiolink AT9 Transmitter

If you reset your radio controller (AT9) setting, you can apply the setting below:

1) Press and Hold the controller wheel (With wordings "PUSH") to unlock the manual. Press and Hold Mode Button to go into basic menu page

2) [STK-MODE] = 2 (Stick Mode)  
   [LockScreen] = 30s (Time to lock screen)

3) [TYPE] = AIRCRAFT

4) [SELECT] = 02  
   [NAME] = CLEANFL (Any name you want)

5) Go to [AUX-CH] -> ATTITUDE, apply the setting below:  
   [CH] = CH5  
   [SW3] = SwG  
   [SW2] = NUL  
   [STABL.] = 0%  
   [STABL.] = 50%  
   [ARCO.] = 100%

6) [CH5] = ------  
   [CH6] = SwE  
   [CH7] = VrA  
   [CH8] = SwC  
   [CH9] = SwF  
   [CH10] = SwA
7) [1] [TIME] = 10:00
[1] [MODE] = UP
[1] [ON][1] = ST-THK (Using Throttle Stick to start the timer)
[1][ON] [2] = 15% (Move the indicator over the value, set throttle stick to around 15%, Press and hold “Push” button to recognize the throttle value and move the wheel to change the arrow sign)
[1][RESET] [1] = SwH (Using Switch H to responsible for the reset timer action)
[1][RESET] [2] = DOWN (Using Switch H’s down action to reset the timer)

8) [1] [AILE] = NOR
[2] [ELEV] = REV
[3] [THRO] = REV
[4] [RUDD] = NOR
[5] [ATTI] = NOR
[6] [AUX1] = NOR
[7] [AUX2] = NOR
[8] [AUX3] = REV

9) [1] [AILE] = 100/100
[2] [ELEV] = 100/100
[3] [THRO] = 100/100
[4] [RUDD] = 100/100
[5] [ATTI] = 100/100
[6] [AUX1] = 100/100
[7] [AUX2] = 56/56
[8] [AUX3] = 100/100

10) Go to [F/S], apply the setting below:
[1] [AILE] = NOR
[2] [ELEV] = NOR
[3] [THRO] = 15%
[4] [RUDD] = -70%
[5] [ATTI] = NOR
[6] [AUX1] = NOR
[7] [AUX2] = NOR
[8] [AUX3] = NOR
Binding with FrSky Taranis X9D Plus Transmitter

1. Turn on your Taranis X9D Plus transmitter, goto "Model Setup" (Press MENU and PAGE button once). In the "Internal RF" section, choose Mode = D16, Channel Range = CH1-16, Receiver No. 01, and then click "Bind", the transmitter will start beeping.

2. Power up the R-XSR receiver (Connect battery to the drone) while holding the Bind button. The RED LED on the receiver will start flashing, which means binding has completed.

3. Power off Transmitter and Receiver.

4. Turn on the transmitter and power on the Receiver; you should see a Green LED on the receiver, which means it has bound with your FrSky transmitter.

Radio Controller Parameters - FrSky Taranis X9D Plus Transmitter

For FrSky TARANIS Plus user, you can use the latest OpenTX program to backup/restore your setting or our own profile. You can find the procedures below:

1. Download OPENTX program by visiting http://www.open-tx.org/downloads.html. Always use the latest version Use the latest OPENTX 2.1 branch.


3. Turn on your radio by holding both lower trims towards the center and turn on transmitter at the same time, you will enter BootLoader mode.
4. Connect your FrSky Taranis X9D Plus transmitter to your PC / Mac via USB cable and the controller screen will show “USB Connected”.

5. Click to read your radio controller profile

6. Your radio controller profile will be loaded on the screen, always click to save your existing profile before you make any changes, incase thing goes wrong.

7. Click to open our profile, drag the correct drone memory to your own transmitter. Remember to click to write the profile back to your radio.

8. Unplug USB cable, switch off transmitter and switch on again.
Remember to put neoprene landing pads on every arm
Avoid using bare hand to grab motors when tightening propellers or you may cut your fingers!!

Propellers are very sharp, we use a damp cloth here to help to grab the motor so we can tighten to propeller locknut. Avoid using bare hand to grab the motor or you may cut your fingers!
How to use battery strap

1. Strap go thru the small slot on the plate, rubber side up.

2. Go thru another small slot on the plate

3. Pull it straight.

4. Wrap the battery and go thru the plastic ring.

5. Pull the strap and velcro tape the battery.

Always check for battery cable clearance, DON’T let propellers cut the battery cable.
Some ideas on mounting the battery

- Tidy up battery cable and battery connector to prevent damage by propellers

- Using Extension Cable