

## To Operate the DX7 with the AR Drone

1. Center sticks and trims
2. Put the gear switch (the switch you programmed for the gear channel) in the land position, this position can change depending on how you have the gear channel travel set.

If using a 3 way switch, down is FM1, center is Land, up is FM2  
If gear channel set to FM1, gear switch down (0) for land  
If gear channel set to FM2, gear switch up (1) for land

3. Turn on RC radio
4. Install and plug in battery to the Drone. After approximately 8-10 seconds all of the motor LEDs will turn Green. Then 15 seconds or so later the LEDs will flash green and red. After they have stopped flashing you are ready to fly.
  - a. If LEDs do not turn green or flash, start again at step 1. If any of the switches or sticks are in the wrong place the drone will not accept the RC control. **You may have to move the throttle stick slightly up or down in order for the drone to accept the RC control**, once you find the right spot make a note of it so you can start you drone easier next time.
5. Rev 0.07+ has selectable drone configurations:

cfg1 - is the default, it has been used since the beginning of the mod  
cfg2 - has everything maxed out  
cfg3 - is for indoors, standard indoor config  
cfg4 - is for indoors, tuned down even more

The drone needs to be in LAND. Push the throttle stick all the way up and leave the pitch/roll stick centered, the green LED on the top of the board under the receiver indicates the current configuration with 1, 2, 3 or 4 blinks.

To select a configuration, use the pitch/roll stick (the right stick for mode 2 transmitters) :

```
      cfg3
      ^
      |
cfg2 <--- + ---> cfg4
      | v
      cfg1
```

The green LED on the receiver will indicate the selection. To make it 'stick' hold the pitch/roll stick on your new selection and move the throttle stick down. This will store your choice in EEPROM on the converter board and upload the new parameters to the drone. You'll see the drone blink the motor lights when the new configuration is received.

6. Put the switch you set as "gear" channel to either FM1 or FM2 and enjoy your flight.
  - FM1 (flight mode 1) uses the down facing camera for stabilization
  - FM2 (flight mode 2) disables the down facing camera
- a. Right stick forward move the drone forward, back is back
- b. Right stick to the right moves the drone right and left is left
- c. Left stick forward is drone up "higher" and the stick back is down "lower"
- d. Left stick to the left rotates the drone left and right is right

After a crash or hard landing the LEDs may turn red indicating the drone is in "emergency mode". If so, perform steps 1 through 3. Then move the left stick to the right, this resets the "emergency mode", you may have to do this a couple times to get the motor LEDs to turn green. If the LEDs will not reset, you can disconnect the battery to reset; and if this does not work then battery should be changed.

You can reset the internal gyros when the drone is on the ground after verifying steps 1 through 3; then take the left stick and move it to the left. The LEDs will flash green, thus indicating that the gyros are reset.

If the drone starts doing things on its own or is getting slow to react this can mean that the battery is getting low.

Visual Low Battery Alert, the threshold is set at 15% of battery capacity. Once the low battery level is reached, the drone will start to blink the motor LEDs in red to tell you it is time to land. You have a very short time (30 seconds or LESS) to get the drone landed before the drone goes into emergency landing.

To signal an emergency shut down to the drone while in flight, flip the GEAR switch down, to "0" and move the throttle stick to the right. **If you do this while it is airborne, it falls out of the sky.** If you follow these steps after an emergency mode has been enabled, it will reset the emergency mode.

To prevent "flyaway" please set the fail safe that is in the set up on DX7.