Ares™ Ethos QX 75 Nano-Micro RTF Quadcopter – QUICK TIPS

PLEASE NOTE:
These QUICK TIPS are NOT intended to replace the content included in the instruction manual. Although these tips cover some of the most important details you need to know before making your first flight we strongly recommend reading through the manual completely before flying.

Charging the LiPo Flight Battery

The AA batteries included to power the transmitter are not intended to be used to power the included charger (to charge the LiPo flight battery) through the built-in USB port on the transmitter. If you'd like to power the included charger through the USB port on the transmitter we recommend replacing the AA batteries with Energizer® MAX brand or equivalent capacity (~2800mAh per cell) alkaline/rechargeable AA batteries. These AA batteries can deliver enough power to charge a fully discharged (not over-discharged) LiPo flight battery up to 5-7 times before they need to be replaced. Also, as the voltage of the AA batteries drops it will take more time to charge the LiPo flight battery. Additional options include connecting the charger to a suitable 5V USB port on a computer or other device, or use the optional 5005PS 100-240V AC to 5V DC USB, 0.5-Amp Power Supply (AZSC5005PS).

Transmitter Dual Rates

The M4LPQ transmitter is equipped with a 'dual rate' feature. This feature allows you to toggle between the 'High' (HI/FULL) and 'Low' (LO/HALF) control rates available for the aileron and elevator channels. You can toggle between the high and low rates by pressing the dual rate button (the right side of the rocker switch) located on the top left 'corner' of the transmitter. You should feel a 'click' and also hear an audible beep/tone that indicates which control rate mode you are in. Two (2) beeps/tones means you've selected high/'FULL' rate mode and one (1) beep/tone means you've selected low/'HALF' rate mode. Also, the selected rate mode will be displayed as 'FULL' for high rate and 'HALF' for low rate on the LCD screen. The low rate mode is typically preferred by (and recommended best for) first-time, low-time and other pilots interested most in a reduced amount of control authority that allows for even smoother and more easily controlled hovering and flying.

Elevator Trim

The elevator trim can be used to help keep the quadcopter from drifting forward or backward when hovering and with no right-hand stick input. For example, if the quadcopter drifts forward when hovering add backward (up) elevator trim by pressing the right-hand elevator trim button (the right side of the rocker switch) located on the top right 'corner' of the transmitter until the quadcopter hovers as level as possible with no forward drifting. NOTE: The unique position of the elevator trim buttons is due to the ergonomic design of the transmitter. The functions of these buttons are clearly noted on the corresponding label and it will not typically be necessary to adjust the elevator trim position after it's been set correctly.

OVER

Automatic Flip Mode

The Automatic Flip Mode (AFM) is activated by pressing the 'AUTO FLIP MODE' button (the left side of the rocker switch) located on the top left 'corner' of the transmitter. You will feel a 'click' and also hear continuous audible beeps/tones that indicate you've activated AFM after pressing the button. At the same time the LED indicator on the 4-in-1 control unit will switch from glowing solid green to glowing solid red.

When AFM is activated you can control the timing and direction of the flip with the (right-hand stick) elevator and aileron controls. ALSO, IT'S VERY IMPORTANT TO NOTE THAT ONCE YOU MOVE THE RIGHT-HAND STICK MORE THAN APPROXIMATELY 3/4 OF THE AVAILABLE TRAVEL IN ANY DIRECTION THE QUADCOPTER WILL AUTOMATICALLY PERFORM A FULL 360 DEGREE FLIP IN THAT DIRECTION. AS A RESULT WE STRONGLY RECOMMEND THAT YOU ONLY ACTIVATE AFM AFTER PLACING THE QUADCOPTER IN THE POSITION AND AT THE ALTITUDE YOU PREFER, AND AFTER ESTABLISHING A STATIONARY HOVER (later on you can experiment with 'traveling' flips that occur during forward/backward or left/right sideways flight but for at least the first few flips it's best to keep them 'stationary').

PRO TIP: It's typically helpful to add some amount of throttle above the position required to maintain hover right before and right after the flip is performed to minimize loss of altitude. In fact, with the right timing and application of throttle before and after the flip it's actually possible to eliminate most or even all loss of altitude in some cases (however, please note that the timing, amount of throttle and the loss of altitude can vary based on the performance of a given model and flight battery, the current weather conditions, altitude, etc.). Please read the 'Automatic Flip Mode' section of the instruction manual for more information and before attempting to use this feature.