

QuikTune

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ac if the vehicle can't do an initial hover stably. Then setup the filters and retune for best results.

The script attempts to tune all these parameters (in the given order)

- **ATC_RAT_RLL_D**
- **ATC_RAT_RLL_P** and **ATC_RAT_RLL_I**
- **ATC_RAT_PIT_D**
- **ATC_RAT_PIT_P** and **ATC_RAT_PIT_I**
- **ATC_RAT_YAW_D**
- **ATC_RAT_YAW_P** and **ATC_RAT_YAW_I**

The advantage over **AutoTune **** is that **QuikTune** is safer because the vehicle does not need to move or twitch. The disadvantage is that **QuikTune** cannot find the vehicle's

maximum rotational accelerations (e.g. `**ATC_ACC_R_MAX`, `ATC_ACC_P_MAX`, `ATC_ACC_Y_MAX`)

Installing the Script

- Set `**SCR_ENABLE**` = 1 to enable scripting and then reboot the autopilot
- Download [VTOL-quicktune.lua](#) to your PC
- Copy the script to your autopilot's SD card's APM/scripts directory. If using MP it may be easiest to use the Config, MAVFtp screen
[../images/quiktune-mp-mavftp.png](#)
- Reboot the autopilot and set `QUIK_ENABLE` = 1
- If an RC switch will be used to start/stop the tune set `RCx_OPTION` = 300 where "x" is the RC input channel number. Alternatively set one of Mission Planner's Aux Function tab's rows to "Scripting1"
[../images/quiktune-mp-auxfunction.png](#)

Running QuikTune

- Wait for a calm day and go to an open area with good GPS reception
- Connect with a ground station (e.g Mission Planner or QGC) and ensure that the Messages tab can be seen. This is where output from the tune will appear
- Move the RC switch to the low position OR push MP's Aux Function's "Low" button
- Arm and takeoff in Loiter mode and climb to a height of about 3m
- Begin the tune by moving the RC switch to the middle position OR push MP's Aux Function's "Mid" button
- Monitor the progress of the tune using the GCS's Messages tab
- If necessary reposition the vehicle using the RC transmitter. This will temporarily pause tuning and restore the original gains. Tuning will resume a few seconds after the RC sticks are returned to their center position
- If the vehicle begins oscillating violently cancel the tune by moving the RC switch to the low position OR push MP's Aux Function's "Low" button
- Once the tune has completed accept the new gains by moving the RC aux switch to the high position OR push MP's Aux Function's "High" button
- Land and disarm the vehicle

Advanced Configuration

The full list of available [parameter settings are here](#)



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