

Reset and re-flash Flight controller

In case firmware update went wrong or other unexpected things happen with the drone and there is no more access to it, we can reset and re-flash the flight controller.

Yuneec has prepared a solution here: <https://www.youtube.com/watch?v=E9hHUSRI2tI>

You need have an extracted Autopilot firmware file. Yuneec offered version V1.28 for this procedure but it is not available anymore. That's why it is attached here.

A) Reset and re-flash flight controller by Typhoon H GUI

1. Start Typhoon H GUI > Tools > FW update > select firmware file "TyphoonH-FC_V1.28_24_9_2016.yuneec".
2. Switch off drone!
3. Connect drone to PC via USB – firmware update starts automatically. Wait until flashing is finished.
4. Remove USB cable and restart drone. **Do not fly with this firmware!**

Note: This Autopilot-FW from „TyphoonH_FC_V1.28_24_9_2016.yuneec“ was withdrawn and should only used to reset the Flight Controller somehow.

B) Post processing

1. Do normal update procedure with latest firmware „TyphoonH_Ver3.04_E.bin“.
2. Delete Flight Data in ST16: Pad mode > Applications > Settings > Apps > Scroll down to Flightmode > Clear my data
3. Calibrate Accelerometer (see Manual)
4. Calibrate Compass (see Manual)
5. Best to start first flight without camera.

My thoughts to item A):

Usually after firmware update went wrong it is enough to re-flash the flight controller with the latest Autopilot firmware.

But Yuneec seems to have deliberately chosen a faulty firmware in order to reset or initialize the flight controller. Possibly this is also the trick to overcome the well-known “GPS-Acquiring-fault”. However, the version 1.28 is not released. **That's why do never fly with it.**

The flight controller can only be flashed when it is not powered on. It will be powered via USB 5V output and runs proper but without peripheral devices. All this can be done also if the flight controller was removed from the ESC-board.

Typhoon H drone firmware archive:

<https://mega.nz/folder/kZVHzDqb#82N4m7OPw0B0QILwgyNbEw>