2025/04/03 09:53 1/2 Gesture PID tuning

## **Gesture PID tuning (under construction)**

Silverware branches of BWHOOP, H8BLUE, (Poth STM MCU) H101/H8S and H8Green (GigaDevice MCU) now have to possibility to tune the PIDs via Tx gestures (thanks to RCGroups user eitama for adding it!).

New options in config.h:

```
// Comment out to disable pid tuning gestures
#define PID_GESTURE_TUNING
#define COMBINE_PITCH_ROLL_PID_TUNING
```

Make sure you have commented in

```
#define GESTURES2_ENABLE
```

on STM Silverwares, it won't work otherwise!

## **Basic instructions:**

The PIDs can be changed in the order you find them in pid.c

example:

If you plug in the battery, The "cursor" stands on PID value "P" on ROLL axis

## Gestures are as follows:

Up - Down - Up (further called UDU) (means right stick Up-Center-Down-Center-Up, others work similar)

```
Up - Down - Down (further called UDD)

Up - Down - Left (further called UDL)

Up - Down - Right (further called UDR)
```

Down - Down (further called DDD)

UDU: Cycle the Cursor to the next Row (Confirmed by LED Blinks, 1x Blink = P, 2x Blink = I, 3x Blink = D)

UDD: Cycle the Cursor to the next Column (ROLL -> PITCH -> YAW, also confirmed by the LED blinks as above)

Last update: 2017/06/03 01:03

note: If you selected #define COMBINE\_PITCH\_ROLL\_PID\_TUNING, you won't get the 2 blinks while changing the Column, as ROLL/PITCH are tuned simultaneously

UDL: Decrease the selected Value (Where the Cursor stands) by 10%

UDR: Increase the selected Value (Where the Cursor stands) by 10%

DDD: Save The selected PIDs to the Quad (note: this also performs an ACC calibration, make sure the quad is levelled at this moment or perform another ACC calibration later)

For PID tuning, it's highly recommended to use SilverVISE Android app, where you can see the cursor and also see the PID numbers / changes. For all that don't own an Android device and are interested in the actual numbers, it's recommended to use the debug mode, where the PIDs could be seen (as decimal numbers!) For all infos how to use the app please click at the link above.

## **Important:**

Once the PIDs got changed and saved via gestures, they will stay even when you reflash the firmware, given that you *did not change the PIDs in PID.c.* Once these are changed, these will overwrite the PIDs iin flash, so take care while using Debug Mode

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Last update: 2017/06/03 01:03

