

Sample PID settings of actual builds.

H8 Stock settings:

pid.c:

```
float pidkp[PIDNUMBER] = { 17.0e-2, 17.0e-2, 10e-1 };
```

```
float pidki[PIDNUMBER] = { 15e-1, 15e-1, 50e-1 };
```

```
float pidkd[PIDNUMBER] = { 6.8e-1, 6.8e-1, 5.0e-1 };
```

angle_pid.c:

```
float apidkp[APIDNUMBER] = { 2.2e-2, 2.2e-2, 0e-1 };
```

```
float apidki[APIDNUMBER] = { 1.0e-2, 1.0e-2, 0e-1 };
```

JJRC J-1000



- size (between motor shafts): 65mm x 65mm / diagonal 95mm

- 7x20mm motors, direct drive, Hubsan x4 propellers

pid.c

```
float pidkp[PIDNUMBER] = { 14.0e-2, 14.0e-2, 25e-1 };
```

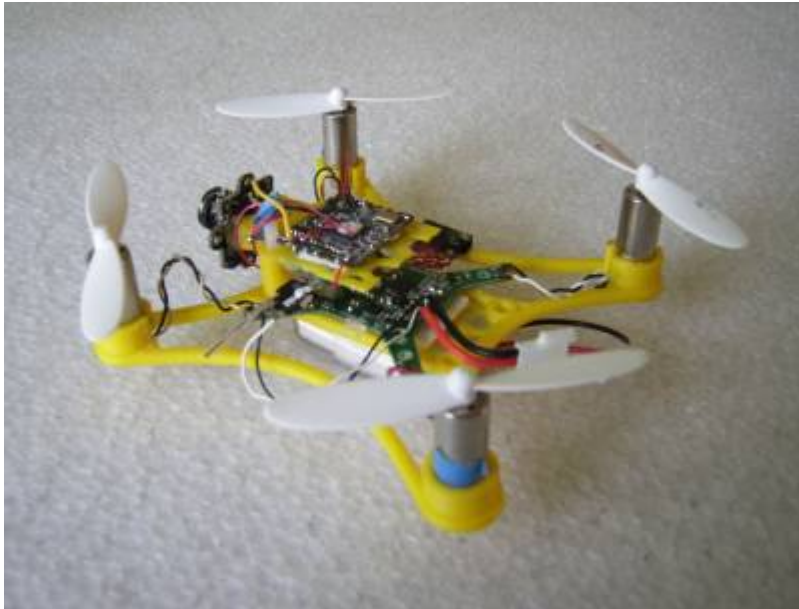
```
float pidki[PIDNUMBER] = { 10e-1, 10e-1, 13e-1 };
```

```
float pidkd[PIDNUMBER] = { 6.0e-1, 6.0e-1, 2.0e-1 };
```

angle_pid.c

```
float apidkp[APIDNUMBER] = { 1.6e-2, 1.6e-2, 0e-1 };
```

```
float apidki[APIDNUMBER] = { 0.6e-2, 0.6e-2, 0e-1 };
```



8.5mm custom build by Silverxxx

- size: 8cm sides, 11 diagonal
- 8.5x20mm motors, direct drive, DM007 props
- frame: <http://www.thingiverse.com/thing:1221911>

pid.c

```
float pidkp[PIDNUMBER] = { 17.0e-2, 17.0e-2, 5e-1 };  
float pidki[PIDNUMBER] = { 8e-1, 8e-1, 5e-1 };  
float pidkd[PIDNUMBER] = { 6.8e-1, 6.8e-1, 5.0e-1 };
```

angle_pid.c

```
float apidkp[APIDNUMBER] = { 1.8e-2, 1.8e-2, 0e-1 };  
float apidki[APIDNUMBER] = { 1.0e-2, 1.0e-2, 0e-1 };
```

config.h

```
#define MOTOR_CURVE_85MM_8KHZ  
#define PWM_8KHZ  
// software gyro lpf  
#define SOFT_LPF_4TH_088HZ  
// this is not really necessary, but i think i like it  
#define CLIP_FF
```

8.5mm Geared Frankenquad Based on WLToys V212

- Frame: WLToys V212 (upgraded V949) 230mm diagonal between the blade shafts (centre of a blade)
- 8.5x20mm motors, geared (1:6 ratio)
- Propellers: Original V212 5,5" size
- AUW: 73gr

pid.c

```
float pidkp[PIDNUMBER] = { 10e-2, 10e-2, 7e-1 };  
float pidki[PIDNUMBER] = { 3e-1, 3e-1, 7e-1 };  
float pidkd[PIDNUMBER] = { 6e-1, 6e-1, 5e-1 };
```

angle_pid.c

```
float apidkp[APIDNUMBER] = { 1.5e-2, 1.5e-2, 1.2e-3 };
```

```
float apidki[APIDNUMBER] = { 4e-2, 4e-2, 1e-2 };
```

config.h

```
#define SOFT_LPF_4TH_088HZ
```

```
#define MOTOR_CURVE_85MM_32KHZ
```

```
#define PWM_32KHZ
```

From:

<http://sirdomsen.diskstation.me/dokuwiki/> - **Silverware Wiki**

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