

Minibyte 2.5" – Betaflight nastavení

PID a filtry, se kterými létám – zvlášť pro 12A a 20A build – plus nastavení ESC v Bluejay. Není to univerzální recept: jiné motory a vrtule chtějí jiné hodnoty, ale jako výchozí bod ušetří první hodinu ladění.

OBSAH

- 02 12A · 2S build – PID – 12A build
- 03 12A · 2S build – Filtry – 12A build
- 04 20A build – PID – 20A build
- 05 20A build – Filtry – 20A build
- 06 ESC · Bluejay – Nastavení ESC v Bluejay

Screenshoty z Betaflight Configuratoru, tak jak je mám nastavené. A jak říká Joshua Bardwell: dnes se něco naučíš.

PID – 12A build

✖ Disconnect

Setup

Sensors

Ports

Configuration

Power & Battery

Failsafe

Presets

PID Tuning

Receiver

Modes

Adjustments

GPS

Motors

OSD

Video Transmitter

LED Strip

Tethered Logging

Blackbox

Autotune

Blackbox Viewer

CLI

PID Tuning

Profile 1

Profile

PID profile name

PID profile name which can describe what conditions this profile was tuned to: lighter/heavier battery, action camera/no action camera, higher elevation, etc.

Copy profile

Reset this Profile

Show all PIDs

Wiki

PID Profile Settings

Rate Profile Settings

Filter Settings

PID Tuning Sliders

Mode: OFF

Low

Default

High

Damping: 1.10

Tracking: 1.00

Stick Response: 0.90

Dynamic Damping: 0.15

Drift - Wobble: 0.90

Pitch Damping: 1.25

Pitch Tracking: 1.25

Master Multiplier: 1.40

Proportional

Integral

Derivative

D Max

Feedforward

Basic/Acro

ROLL 63

112

42

44

125

PITCH 85

152

61

65

170

YAW 63

112

0

0

125

Strength

Transition

Angle 50

Horizon 75

Angle Limit 40

PID Controller Settings

Feedforward

Jitter Reduction

Smoothness

Averaging

Boost

Max Rate Limit

Transition

TPA

TPA Mode

TPA Rate (%)

TPA Breakpoint (µs)

I Term Relax

Anti Gravity

I Term Rotation

Dynamic Damping

Gain

Advance

Throttle and Motor Settings

Throttle Boost

Motor Output Limit

Dynamic Idle Value

Vbat Sag Compensation %

Thrust Linearization %

Miscellaneous Settings

Disable

Cell Count - for auto Profile switching

Acro Trainer Angle Limit

Integrated Yaw

Absolute Control

⚙️ 🔍 📄 ↩️ Login

+ 13% ⬆ 0%

00:13 ⬆ 0

249

0.01V (USB)

08

FLWO/FLYWOO4055_AIO(STM32F405) 2025.12.2

2026.6.1 (14a057f)

Refresh

Save

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Filtry – 12A build



Disconnect

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Blackbox Viewer

CLI

PID Tuning

Profile 1ProfilePID profile name

PID Profile SettingsRate Profile SettingsFilter Settings

More Filtering

Gyro Filter Multiplier1.00

D Term Filter Multiplier1.60

Default Filtering

Less Filtering

CAUTION: Current slider positions may cause flyaways, motor damage or unsafe aircraft behaviour. Please proceed with caution.

Profile independent Filter Settings

Gyro Lowpass Filters

Gyro Lowpass 1

Gyro Lowpass 2

Gyro Notch Filters

Gyro Notch Filter 1

Gyro Notch Filter 2

Gyro RPM Filter

Gyro RPM Filter

HarmonicsMin Frequency [Hz]

1185

Dynamic Notch Filter

Dynamic Notch Filter

Notch CountQ factor (x100)Min Frequency [Hz]Max Frequency [Hz]

1500100600

Profile dependent Filter Settings

D Term Lowpass Filters

D Term Lowpass 1

ModeStatic Cutoff Frequency [Hz]Filter Type

STATIC120BIQUAD

D Term Lowpass 2

D Term Notch Filter

D Term Notch Filter

Yaw Lowpass Filter

Yaw Lowpass Filter

Static Cutoff Frequency [Hz]

100

Settings

Refresh

Save

+ 13% 0%

00:380250

0.02V (USB)

08

FLWO/FLYWOOFF4055_AIO(STM32F405) 2025.12.2

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Disconnect

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CLI

Profile 1

Profile

PID profile name

Copy profile

Reset this Profile

Show all PIDs

PID Profile Settings

Rate Profile Settings

Filter Settings

PID Tuning Sliders

Mode: RPY

Low

Default

High

Damping: 1.15

Tracking: 1.00

Stick Response: 0.90

Dynamic Damping: 0.15

Drift - Wobble: 0.90

Pitch Damping: 1.25

Pitch Tracking: 1.25

Master Multiplier: 1.00

Proportional

Integral

Derivative

D Max

Feedforward

Basic/Acro	Proportional	Integral	Derivative	D Max	Feedforward
ROLL	45	72	34	36	108
PITCH	58	94	48	51	140
YAW	45	72	0	0	108

Strength

Transition

Angle: 50

Horizon: 75

Angle Limit: 60

PID Controller Settings

Feedforward

Jitter Reduction: 10

Smoothness: 65

Averaging: 2 Point

Boost: 15

Max Rate Limit: 90

Transition: 0.00

TPA

TPA Mode: D

TPA Rate (%): 65

TPA Breakpoint (µs): 1350

I Term Relax

Axes: RP

Type: Setpoint

Cutoff: 15

Anti Gravity

Gain: 8.0

I Term Rotation

Dynamic Damping

Gain: 37

Advance: 20

Throttle and Motor Settings

Throttle Boost: 5

Motor Output Limit: 100

Dynamic Idle Value [* 100 RPM]: 0

Vbat Sag Compensation %

Thrust Linearization %

Miscellaneous Settings

Disable

Cell Count - for auto Profile switching

20

Acro Trainer Angle Limit

Integrated Yaw

Absolute Control

13%

0%

00:25

248

0.02V (USB)

08

Refresh

Save

FWLW/FLYWOOOF4055_AIO(STM32F405) 2025.12.4

2026.6.1 (14a057f)

Filtry – 20A build



Disconnect

Setup

Sensors

Ports

Configuration

Power & Battery

Failsafe

Presets

PID Tuning

Receiver

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CLI

PID Tuning

Profile 1ProfilePID profile name

PID Profile SettingsRate Profile SettingsFilter Settings

More FilteringDefault FilteringLess Filtering

Gyro Filter Multiplier1.20

D Term Filter Multiplier1.50

CAUTION: Current slider positions may cause flyaways, motor damage or unsafe aircraft behaviour. Please proceed with caution.

Profile independent Filter Settings

Gyro Lowpass Filters

Gyro Lowpass 1

Gyro Lowpass 2

Gyro Notch Filters

Gyro Notch Filter 1

Gyro Notch Filter 2

Gyro RPM Filter

Gyro RPM Filter

Harmonics3Min Frequency [Hz]160

Dynamic Notch Filter

Dynamic Notch Filter

Notch Count1Q factor (x100)500Min Frequency [Hz]100Max Frequency [Hz]600

Profile dependent Filter Settings

D Term Lowpass Filters

D Term Lowpass 1

ModeDYNAMICMin Cutoff Frequency [Hz]112Max Cutoff Frequency [Hz]225Dynamic Curve Expo5Filter TypePT1

D Term Lowpass 2

Static Cutoff Frequency [Hz]225Filter TypePT1

D Term Notch Filter

D Term Notch Filter

Yaw Lowpass Filter

Yaw Lowpass Filter

Static Cutoff Frequency [Hz]100

RefreshSave

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Nastavení ESC v Bluejay



Čeština1155.22336NastaveníVýběr portu k otevřeníOdpoj

2026-08-25 @ 16:38:14 -- Dokončeno čtení ESCZobrazit protokol

Varování: Vypněte vysílač! Jinak by nahrávání mohlo selhat, zejména na vysoce integrovaných AIO.

Poznámka: Předtím, než na této kartě cokoliv provedete, ujistěte se, že jste odmontovali vrtule.
Poznámka: Připojte napájení k ESC.

Běžné parametry

1125

Minimální spouštěcí výkon (Boost) ?

1200

Maximální spouštěcí výkon (ochrana) ?

22.5+ (MediumHigh)

Časování motoru ?

Low

Kompenzace demag ?

9x

Ochrana výkonu RPM (Rampup) ?

Nastavení majáku

40

Síla pípnutí ?

80

Síla majáku ?

Infinite

Zpoždění majáku ?

Nastavení bezpečnosti

25+

ESC Jmenovitý výkon ?

140 C

Ochrana proti přehřátí ?

Vynutit EDT odjštění ?

Nastavení brzd

Brzda při zastavení ?

255

Maximální brzdná síla ?

ESC 1: Z.H.30 - Bluejay, 0.21.0, 48kHz

Reversed

Směr otáčení motoru ?

Nahrát Firmware do tohoto ESC

ESC 2: Z.H.30 - Bluejay, 0.21.0, 48kHz

Normal

Směr otáčení motoru ?

Nahrát Firmware do tohoto ESC

ESC 3: Z.H.30 - Bluejay, 0.21.0, 48kHz

Normal

Směr otáčení motoru ?

Nahrát Firmware do tohoto ESC

ESC 4: Z.H.30 - Bluejay, 0.21.0, 48kHz

Reversed

Směr otáčení motoru ?

Nahrát Firmware do tohoto ESC

Uložit protokol laděníSmazat protokol ladění

Otevřít editor melodiíObnovit výchozí nastaveníNahrát všechny ESCZápis nastaveníNačíst nastavení

Využití portu: D: 0% U: 0%Chybné pakety: 00.32.1

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