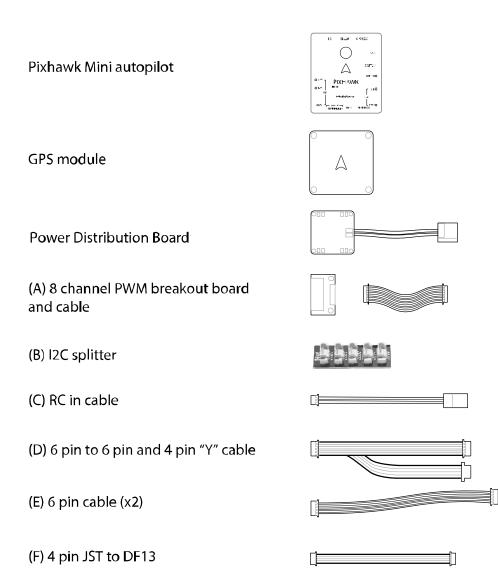


PIXHAV/K MINI



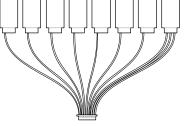
QUICK START GUIDE v1.0

IN THE BOX



- (G) Safety switch
- (H) 8 Channel PWM breakout cable







SPECIFICATIONS

Features:

- Built in Buzzer
- 8 PWM/servo outputs
- Double redundant power supply if powered by USB and PM
- Onboard safety switch and external safety switch
- Micro SD card for high rate logging over extended periods of time

Voltage Ratings:

- Power module output: 4.1~5.5V
- Max input voltage: 45V (10S LiPo)
- Max current sensing: 90A
- USB Power Input: 4.1`5.5V
- Servo Rail Input: 5~10V

Dimensions: 38x43x12mm

Weight: 15.8g

Interface :

- 1 x UART Serial Port
- Spektrum DSM/DSM2/DSM-X[®] Satellite Compatible
- Futaba S BUS[®] Compatible
- PPM Sum Signal Input
- I2C,CAN,ADC,Internal Micro USB Port

Sensors

- Accel/Gyro/Mag: MPU9250
- Accel/Gyro: ICM20608
- Barometer: MS5611

GPS Module :

- GNSS receiver: ublox Neo-M8N; compass QMC5883
- Weight : 22.4g
- Dimensions: 37x37x12mm



GETTING STARTED

With the help of PX4 firmware, Pixhawk mini turns any RC plane, copter, or rover into a full-featured personal drone. Once you have a fully assembled vehicle, follow this guide to install Pixhawk mini.

MOUNT

Use the provided foam pads to mount Pixhawk mini as close as possible to your vehicle's center of gravity.

Make sure to orient the board with the arrow pointing forward.



VEHICLE FRONT



CONNECT

CONNECT RADIO CONTROL

For SBUS/PPM Receivers



For Spektrum DSM Receivers



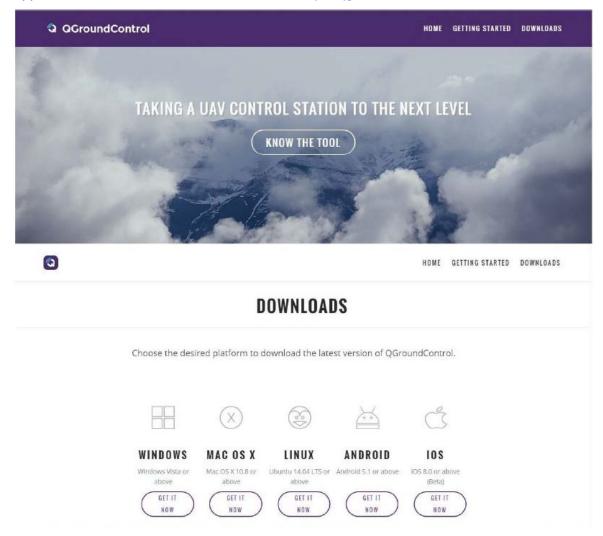
CONNECT MOTOR OUTPUT





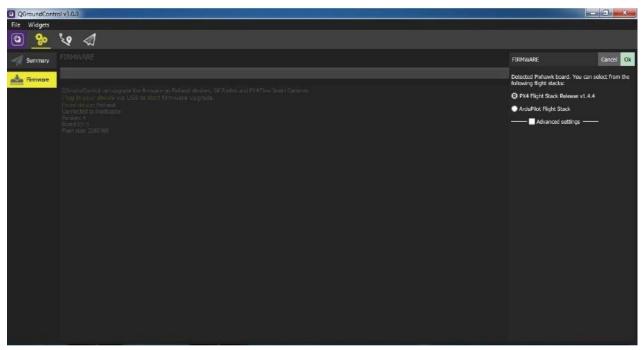
INSTALL QgroundControl

PX4 firmware is the brains of your autopilot and must be installed before using Pixhawk mini. To load firmware onto the Pixhawk mini, install QGroundControl on your computer. QGroundControl is cross platform and available on Windows, OS X, and Linux. Application available for free download from http://qgroundcontrol.com/



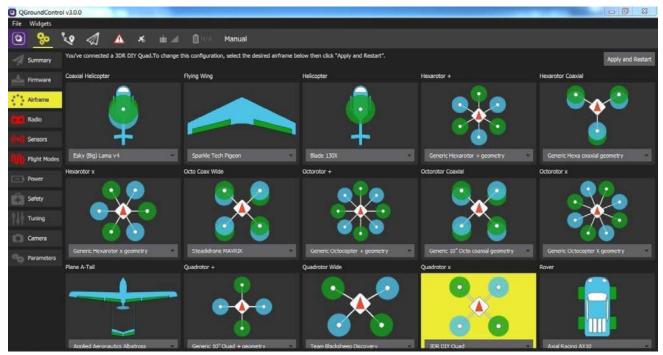


LOAD FIRMWARE



AIRFRAME

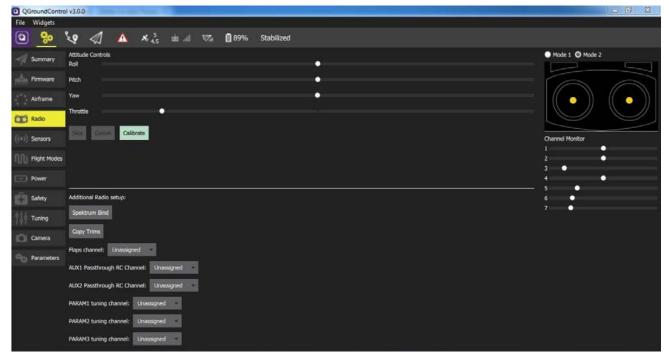
Select the specific airframe from the dropdown within the group which best matches your vehicle.



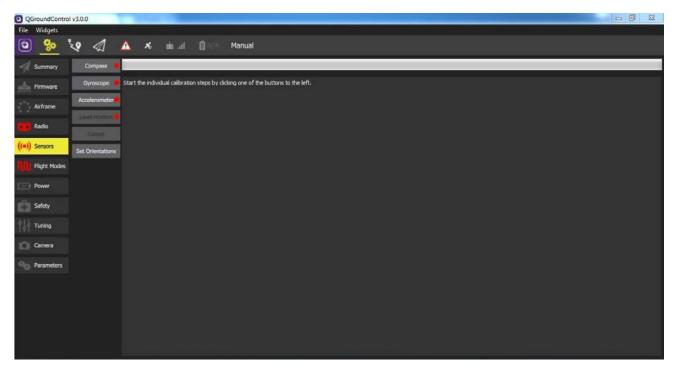


RADIO

Radio Setup is used to map your main control sticks to channels and set min/max values for these.



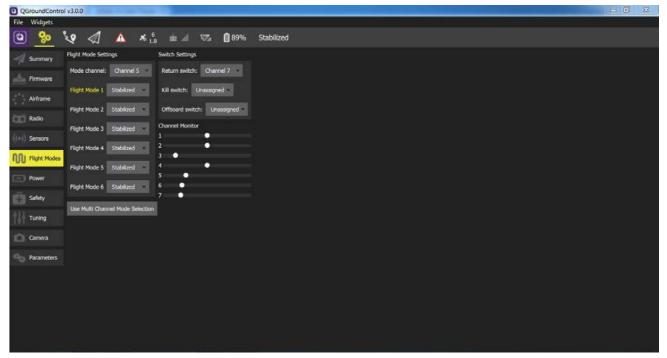
SENSORS





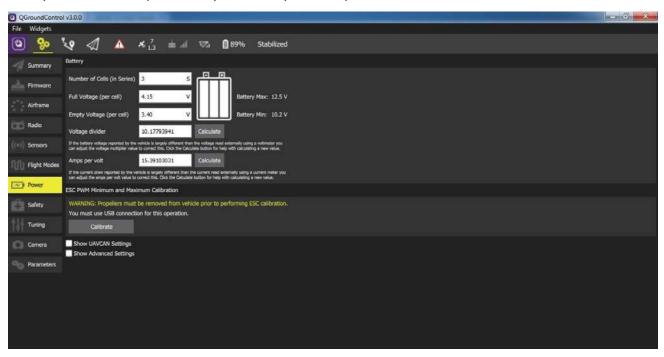
FLIGHT MODES

Here you can set up your designated Flight Modes.



POWER

Here you can set the specifics of your battery and the power sensor that will be used.





SAFETY

The Safety Setup page allows you to configure various failsafe settings as well as return home details.

00	GroundContr	ol v3.0.0)											
File	Widgets													
٩	%	2	\triangleleft	A	× 6 1.4	la, etc	₩2	89%	Stabilized					
-1	Summary								Low Battery Failsafe Trigger					
-	Firmware									Failsafe Action:	Return to L			
	Airframe								Ô	Battery Warn Level:	15 %			
œ	Radio									Battery Failsafe Level:	7 %			
((=))	Sensors								RC Loss Fallsafe Trigger					
nn	Flight Modes									Failsafe Action:	Return to L			
	Power								2	RC Loss Timeout:	0.5 s			
÷	Safety								Data Link Loss Failsafe Trigger					
14	Tuning									Failsafe Action:	Disabled			
D	Camera								1 73	Data Link Loss Timeout:	10 s			
90	Parameters								Geofence Failsafe Trigger					
										Action on breach:	Warning •			
										Max altitude:	-1 in			
								-	Return Home Settings					

OPTIONAL ACCESSORIES

Digital Airspeed sensor + Pitot tube (MS525DO) Standard Telemetry (433MHz and 915MHz)



PIN OUTS

POWER INPUT PORT						
1(red)	SCL	+3.3V				
2(blk)	SDA	+3.3V				
3(blk)	VCC	+5V				
4(blk)	ТХЗ	+3.3V				
5(blk)	RX3	+3.3V				
6(blk)	GND	GND				

GPS & I2C PORT						
1(red)	SCL	+3.3V				
2(blk)	SDA	+3.3V				
3(blk)	VCC	+5V				
4(blk)	ТХЗ	+3.3V				
5(blk)	RX3	+3.3V				
6(blk)	GND	GND				

CHANNEL PIN OUTS						
PIN	Multirotos	4 Channel Planes	Rovers			
Pin 1	motor 1	Aileron	-			
Pin 2	motor 2	Elevator	-			
Pin 3	motor 3	Throttle	Throttle			
Pin 4	motor 4	Rudder	Steering			
Pin 5	motor 5	-	-			
Pin 6	motor 6	-	-			
Pin 7	motor 7	-	-			
Pin 8	motor 8	_	-			

CAN PORT		
1(red)	VCC	+5V
2(blk)	CAN-H	+3.3V
3(blk)	CAN-L	+3.3V
4(blk)	GND	GND

SAFETY SWITCH PORT						
1(red)	VCC	+5V				
2(blk)	IO_LED_SAFETY	GND				
3(blk)	SAFETY	GND				

TELEM PORT		
1(red)	VCC	+5V
2(blk)	TX1(OUT)	+3.3V
3(blk)	RX1(IN)	+3.3V
4(blk)	GND	GND

RC IN					
1(yellow)	SBUS/PPM				
2(red)	+5v				
3(blk)	GND				

For plances with configurations other than 4 channels, see px4.io for more information.

ADDITIONAL INFORMATION

Be sure to visit http://px4.io/ for further information including tutorials, configurations, and community support.

