![Intel logo]

Airframe configuration screen

QGroundControl

January 2016 | vs 1.1

Document history

Version	Date	Change description
1.0	12/21/2015	Proposing some changes on airframe setup screen to guarantee the consistency between PX4 and APM configuration. Adding the possibility to undo any parameter selection on APM.
1.1	01/11/2016	Adjusting the airframe setup screen for PX4.

Table of contents

Drone connected

Frame and parameters are detected automatically

Change default?

Apply and restart

Y

N

End

When a frame type is selected, a parameter list is selected by default. If there are more than one list, the user can change it
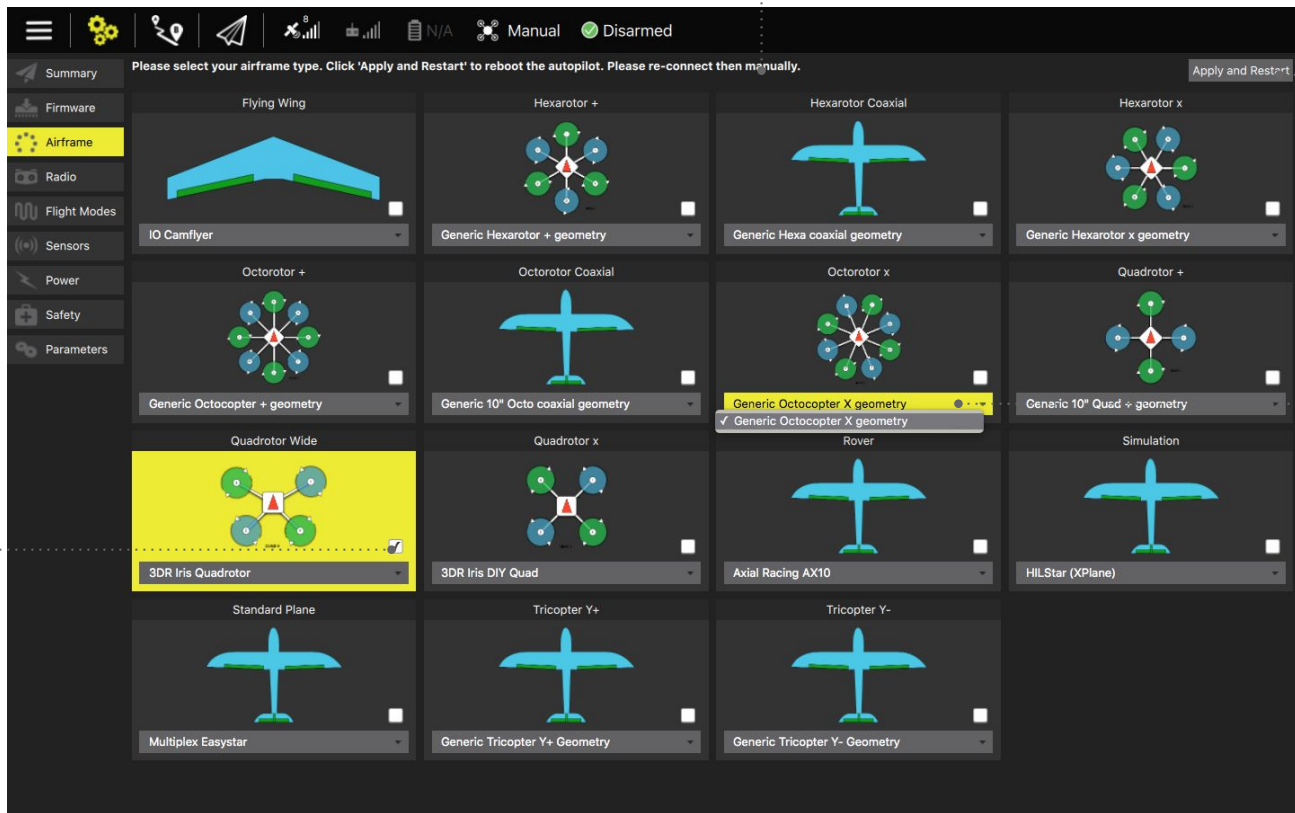
Airframe configuration for PX4
Current UI

The instructions should be more visible

The button's position doesn't show the action is mandatory

For items with only one option, it isn't necessary to show the dropdown

Because of the entire element is selectable, the check box is not necessary

Please select your airframe type. Click 'Apply and Restart' to reboot the autopilot. Please re-connect then manually.

Apply and Restart

Summary
Firmware
Airframe
Radio
Flight Modes
Sensors
Power
Safety
Parameters

Manual   Disarmed

Flying Wing
IO Camflyer

Hexarotor +
Generic Hexarotor + geometry

Hexarotor Coaxial
Generic Hexa coaxial geometry

Hexarotor x
Generic Hexarotor x geometry

Octorotor +
Generic Octocopter + geometry

Octorotor Coaxial
Generic 10" Octo coaxial geometry

Octorotor x
Generic Octocopter X geometry
✓ Generic Octocopter X geometry

Quadrotor +
Generic 10" Quad + geometry

Quadrotor Wide
3DR Iris Quadrotor

Quadrotor x
3DR Iris DIY Quad

Rover
Axial Racing AX10

Simulation
HILStar (XPlane)

Standard Plane
Multiplex Easystar

Tricopter Y+
Generic Tricopter Y+ Geometry

Tricopter Y-
Generic Tricopter Y- Geometry

Suggested adjustments

Give a screen title is important to positioning the user on interface. It's clearer than just the item selected on side menu, indeed it's complementary.

Once the drone is identified, this information can be displayed and an explanation about what could be done on the screen comes next

Airframe
You've connected a **3DR Iris DIY Quad**. If you'd like to change this configuration, please select the desired frame type below then click on "Apply and restart".

Hexarotor +

Quadrotor x

Tap anywhere to select the frame type
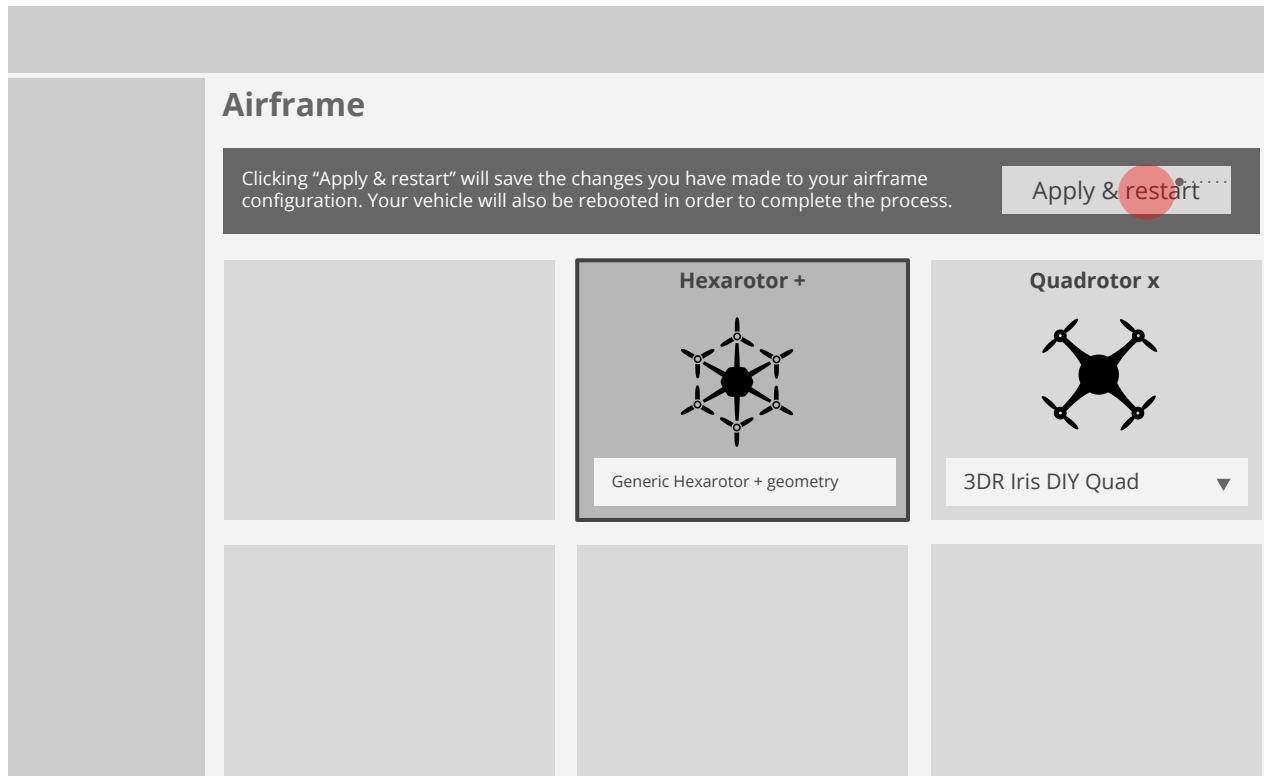
Generic Hexarotor + geometry

3DR Iris DIY Quad ▼

Differentiate visually the selected drone

The dropdown is available only when there are options to be chosen, otherwise just show the name of parameters list

Suggested adjustments

Airframe

Clicking "Apply & restart" will save the changes you have made to your airframe configuration. Your vehicle will also be rebooted in order to complete the process.

Apply & restart

Hexarotor +

Generic Hexarotor + geometry

Quadrotor x

3DR Iris DIY Quad ▼
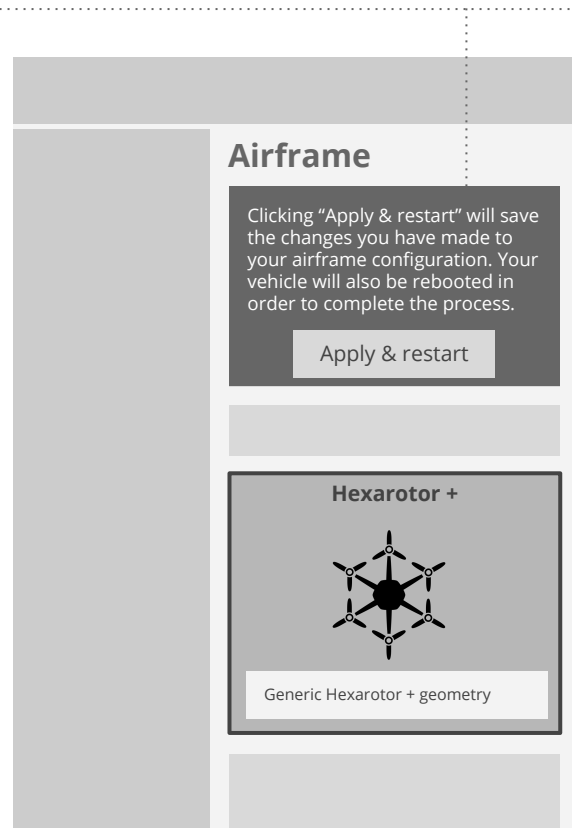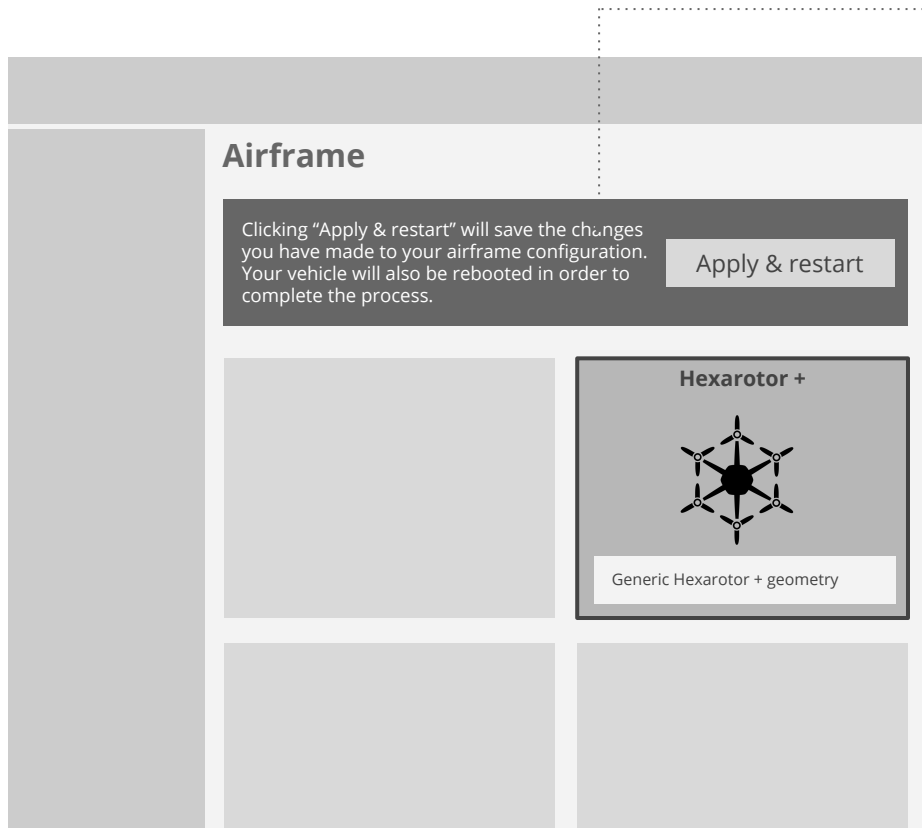
When a different frame type is selected, the button "Apply & restart" appears. The user should tap here to change the configuration

Only after the confirmation the configuration is sent to the drone
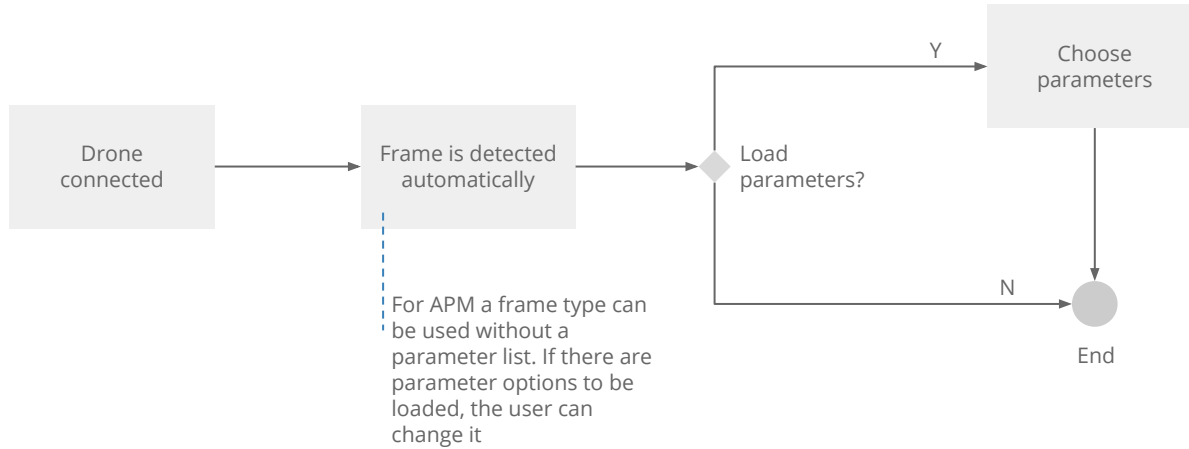
Suggested adjustments

Airframe

Clicking "Apply & restart" will save the changes you have made to your airframe configuration. Your vehicle will also be rebooted in order to complete the process.

Apply & restart

Hexarotor +

Generic Hexarotor + geometry

Airframe

Clicking "Apply & restart" will save the changes you have made to your airframe configuration. Your vehicle will also be rebooted in order to complete the process.

Apply & restart

Hexarotor +

Generic Hexarotor + geometry

The text should keep the proportionality of font size on smaller screens.

Flow

Drone connected

Frame is detected automatically

Load parameters?

Y

Choose parameters

N

End

For APM a frame type can be used without a parameter list. If there are parameter options to be loaded, the user can change it
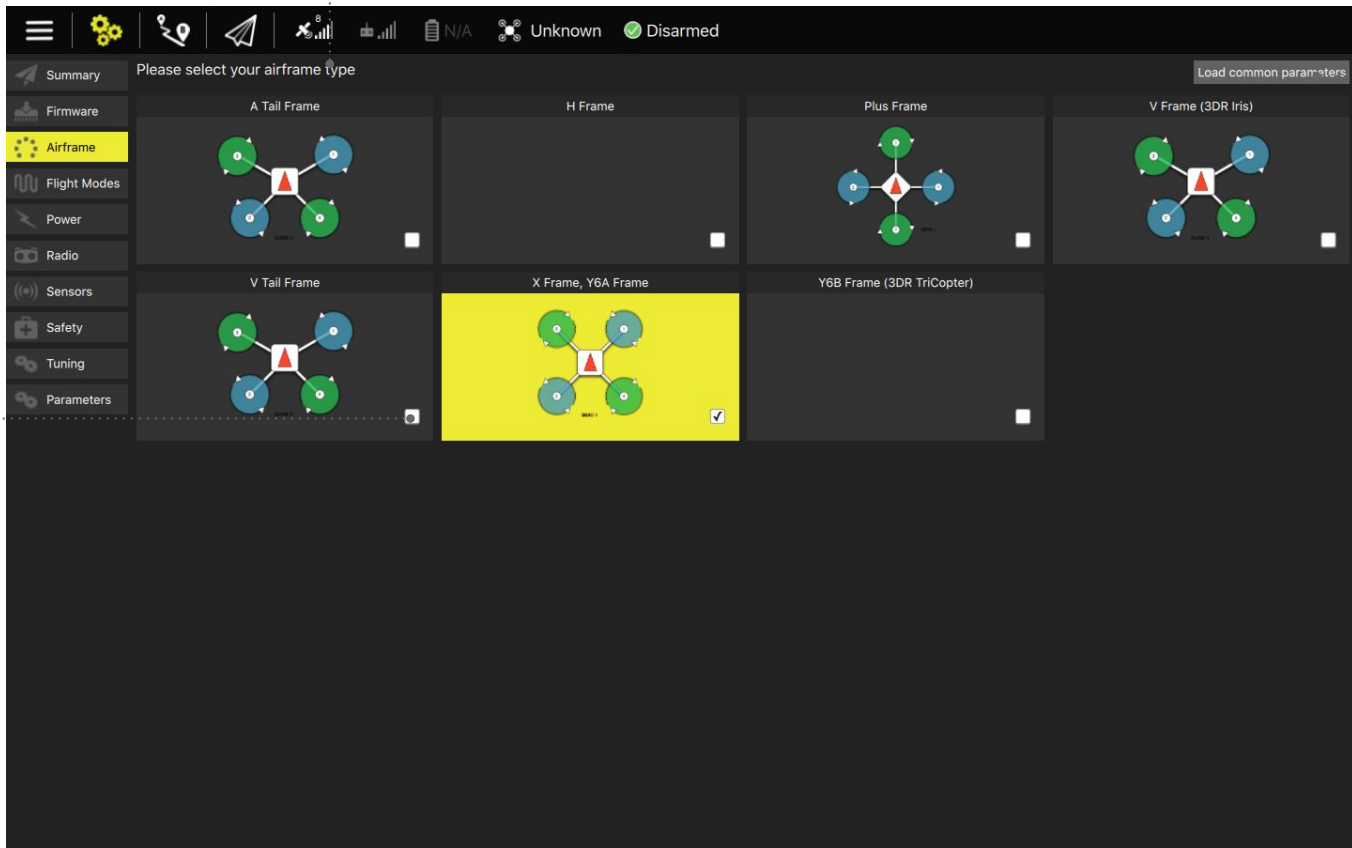
Current UI

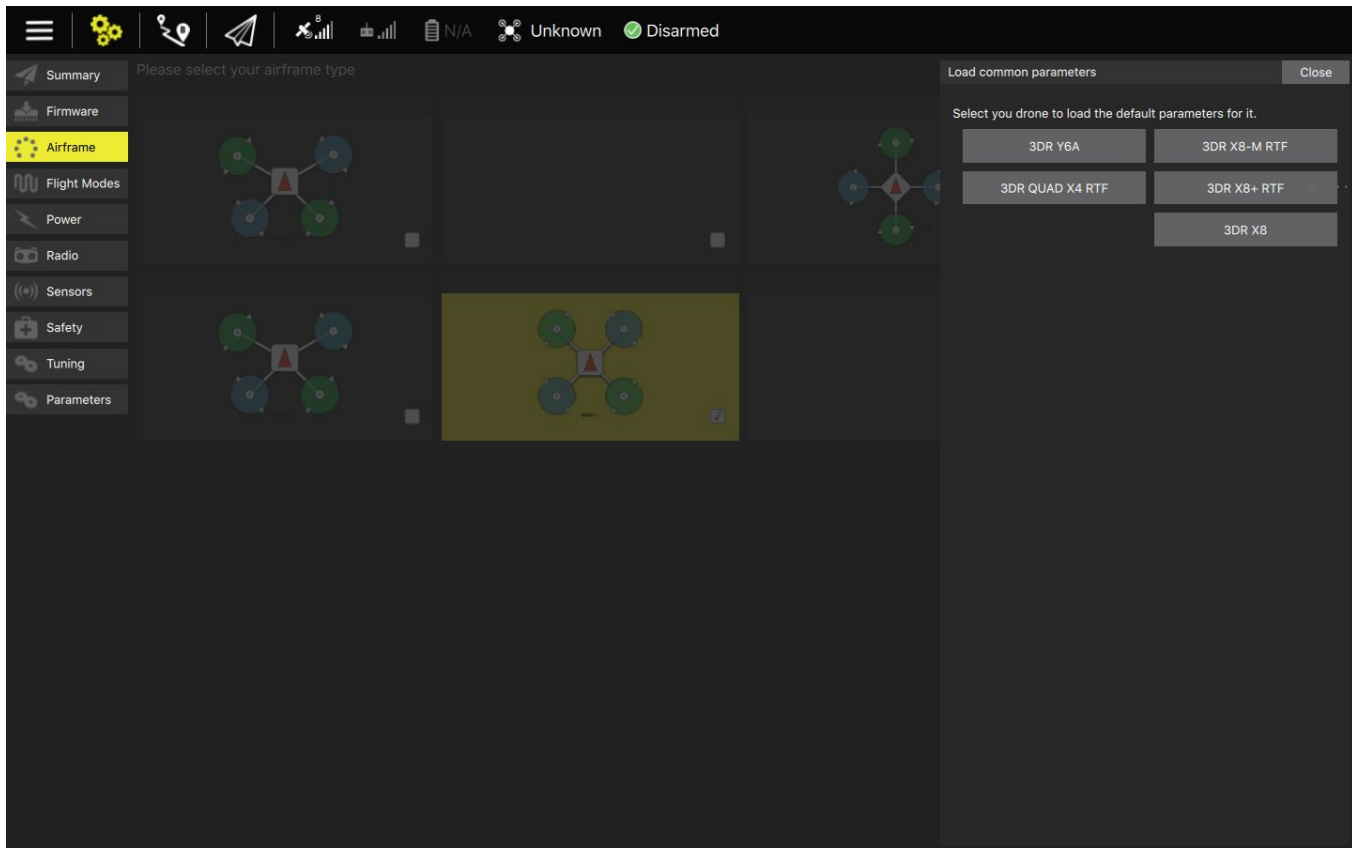The instructions should be more visible

It is not clear this button is about the airframe selected, because of it's position

Because of the entire element is selectable, the check box is not necessary

Menu items
- Summary
- Firmware
- Airframe
- Flight Modes
- Power
- Radio
- Sensors
- Safety
- Tuning
- Parameters

Please select your airframe type

Load common parameters

A Tail Frame

H Frame

Plus Frame

V Frame (3DR Iris)

V Tail Frame

X Frame, Y6A Frame

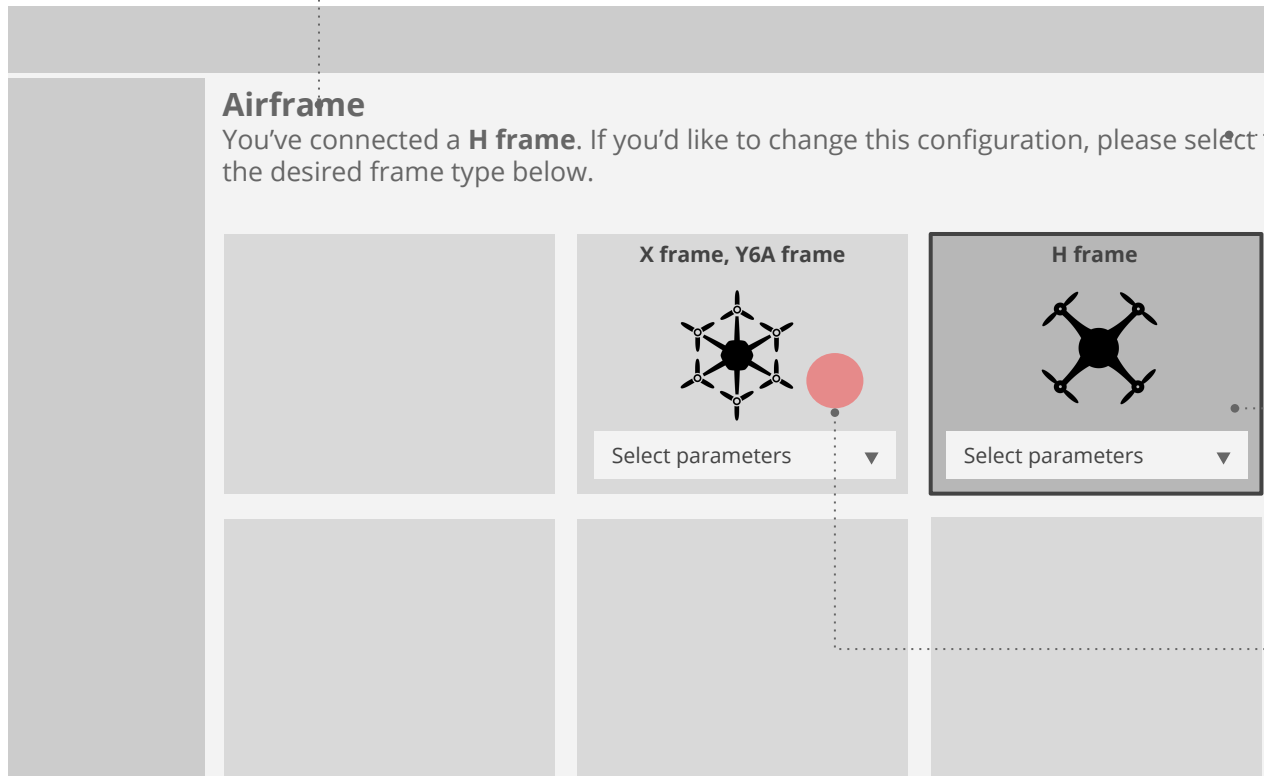Y6B Frame (3DR TriCopter)

Unknown   Disarmed

There isn't user feedback about which model was chosen

It's inconsistent with PX4 UI

Suggested adjustments

Give a screen title is important to positioning the user on interface. It's clearer than just the item selected on side menu, indeed it's complementary.

Once the frame is identified, this information can be displayed and an explanation about what could be done on the screen comes next

Airframe
You've connected a **H frame**. If you'd like to change this configuration, please select the desired frame type below.

X frame, Y6A frame

H frame

Select parameters ▼

Select parameters ▼

Differentiate visually the selected drone

Tap anywhere to select the frame type

Suggested adjustments

Airframe
You've connected a **H frame**. If you'd like to change this configuration, please select the desired frame type below.

	X frame, Y6A frame	H frame

Default state

Select parameters ▼ · · · · · · · · · · · · · · · · Select parameters ▼ | Select parameters ▼

Mouse over
Start over the selected option

Select parameters	Select parameters
3DR Y6A	3DR Y6A
3DR QUAD X4 RTF	3DR QUAD X4 RTF
3DR X8-M RTF	3DR X8-M RTF
3DR X8+ RTF	3DR X8+ RTF
3DR X8	3DR X8

State after selection

3DR X8-M RTF ▼