

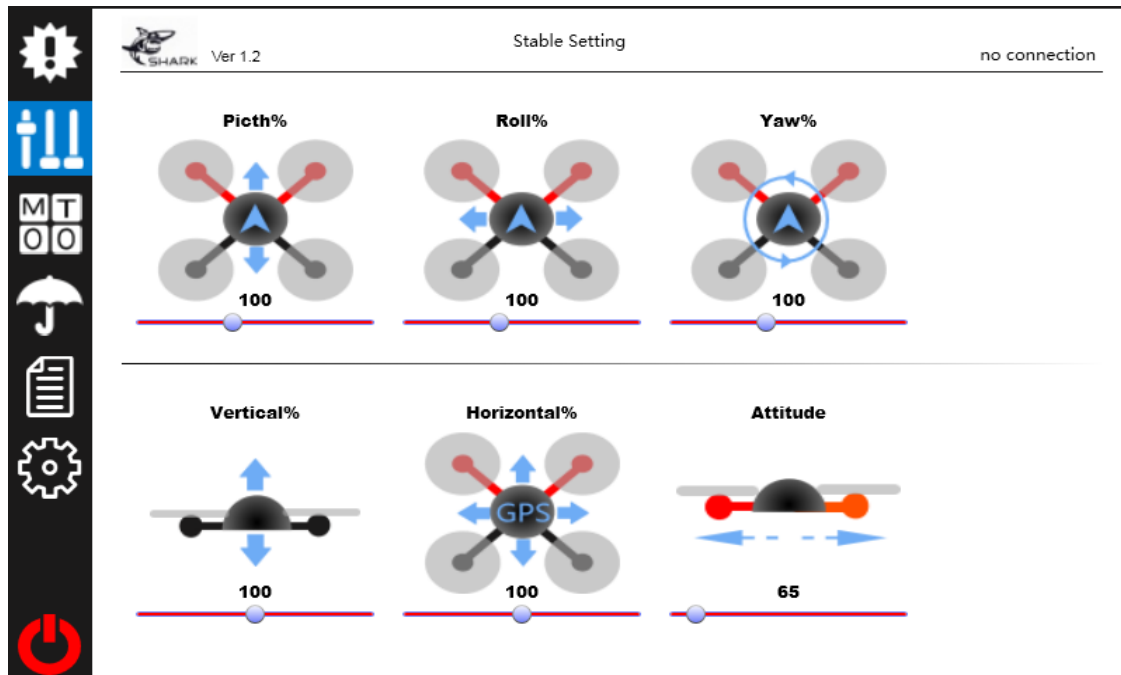
Shark X8 assistant software

User Manual

20.03.2014




Thank you for purchasing this product. Please strictly follow the instruction for the installation and operation of your aircraft.

Overview



Click on this icon to quit the assistant software, it also shows the program status.

The color corresponding to different status

	Prepare to save parameter		Parameter updated		Parameter update fail
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S8 Assistant has the following functions:

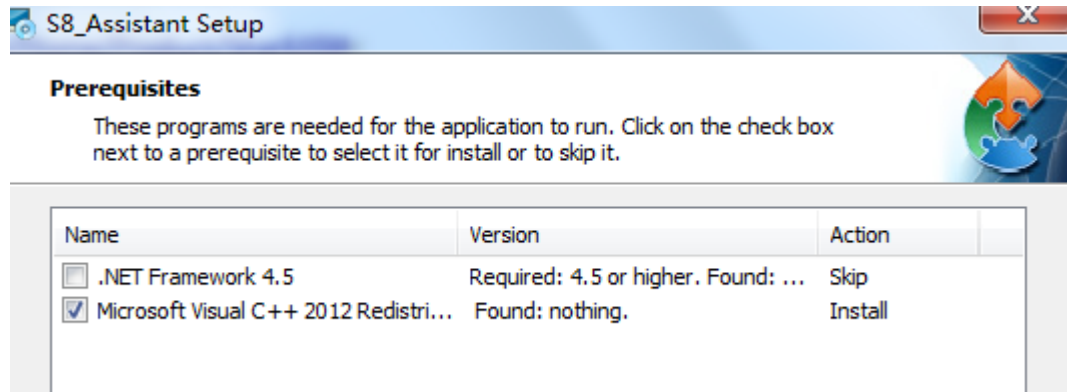
1. Gains settings
2. Select motor mixer type
3. Adjust motor idle speed
4. Failsafe and low voltage alarm setting
5. Firmware update
6. System status and flight log replay

Installation

1. Click the following link to download and install the latest assistant software :

<http://bigflyshark.com/Home/Product/SharkX8#>

2. Close all antivirus program, run the installation file, zip, rar is required.
3. The assistant software require .NET framework 4.5 support, if .NET framework 4.5 already exist in the system, uncheck it in the dialogue box.

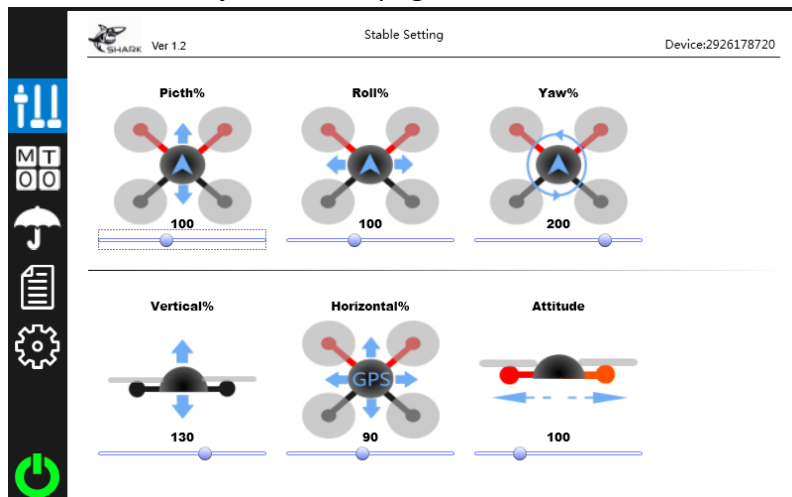


4. Click 'Next' till the installation is completed.
5. Open the assistant software, and connect the power module to the PC using a USB cable. Wait for the LED turn to 'green', and the device number will be shown on the top right corner .

Basic Parameters Adjustment

If the aircraft shows jitter, shake or drifting (GPS mode), and you will need to adjust the control the parameters of the system.

Select the **basic parameters** page.



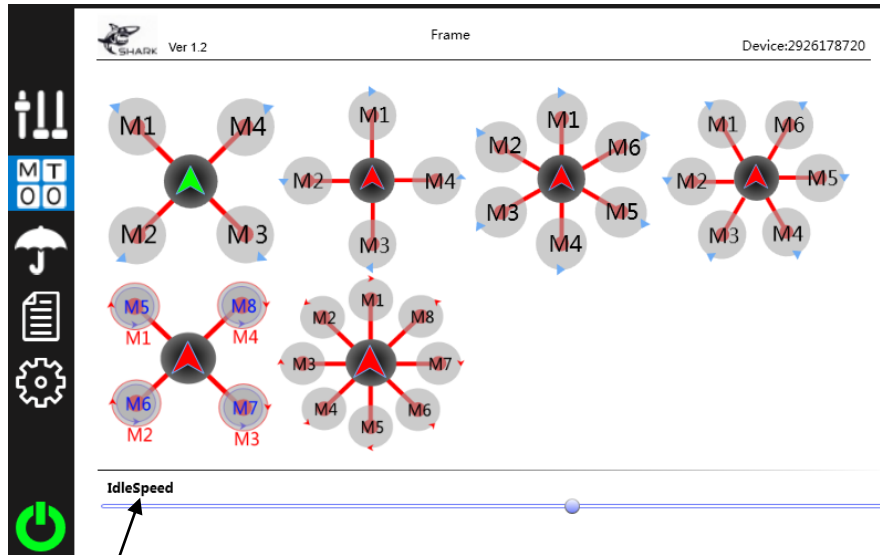
Gains adjustment

1. If the aircraft jitter during the flight, reduce the corresponding gain.
2. If the aircraft respond slow/soft (delay) or vibrate during hovering, increase the corresponding gain.
3. If the aircraft drifting during GPS mode, increase horizontal gain(default recommended).
*It may cause excessive brake if the this value is too high
4. If altitude mode is unstable, increase horizontal gain(default recommended).
5. If the aircraft swing slowly, increase the attitude gain(default recommended).

Motor Mixer

Select motor mixer page to choose the correct motor mixer.

The system support: **X4 , I4 , X6 , I6 , X8 , I8**



1. **IdleSpeed** is used to set the ratio of the idle speed , increase the idle speed setting if the motors are not rotating after start. It may cause flip and crash if the idle speed is not being set.
2. Click on the red arrow to choose the desire motor mixer type. The arrow will turn green once is being selected.

Failsafe

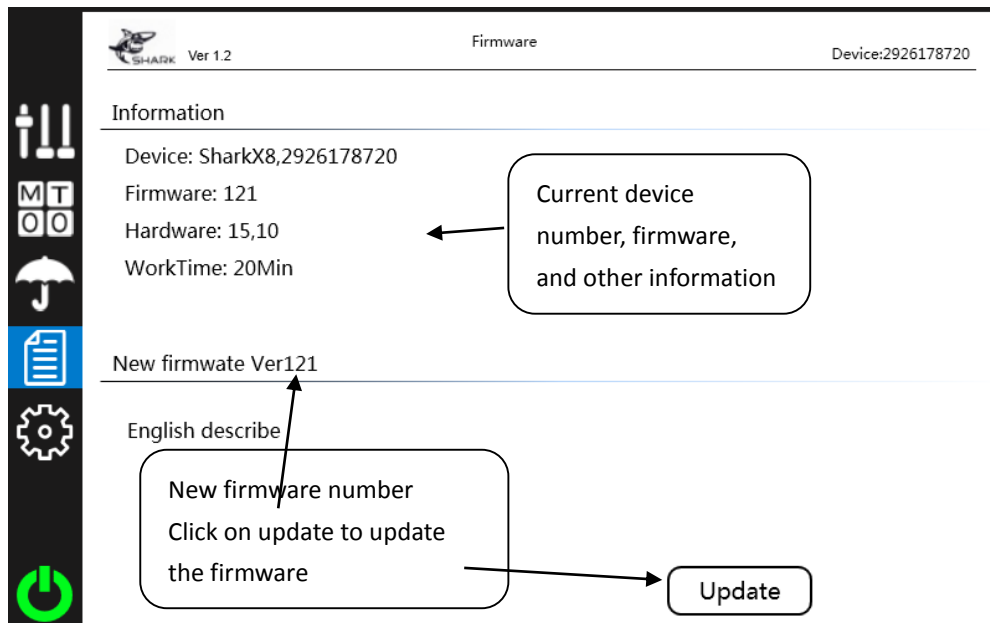
Select the following page to set the failsafe protection, flight limitation and low voltage alarm.

The screenshot displays the 'Security' configuration page for the SHARKX8. It includes a sidebar with navigation icons (three vertical bars, 'M T O O', an umbrella, a document, a gear, and a power button). The main content area is divided into two sections. The top section, 'Automatic return after uncontrolled', shows a diagram of an aircraft with a return-to-home path (1) and a return-to-home distance of 15M (2). A callout box (3) points to 'Distance limitations' with 'Diameter/M' set to 202 and 'Height/M' set to 41. The bottom section, 'hover after uncontrolled', shows a diagram of an aircraft hovering (2) and a callout box (4) pointing to 'Alarm voltage' (10.5) and 'Landing voltage' (10.1).

1. Define the maximum ascending height and return-to-home when failsafe is activated.
2. Aircraft is hovering when failsafe is activate.
3. Set flight limits[0-250M], if set to 0 will be infinity, height limit only work in attitude and GPS mode, flight diameter limit will only work in GPS mode.
4. Low voltage, the flight controller will alarm when the battery voltage is < Alarm voltage setting, the aircraft will ascend and stay hovering , the aircraft will execute auto landing and return-to-home when the battery voltage< Landing voltage.

Firmware

Select the following page for firmware update, and check hardware information



Click on update to update the firmware to the latest, Restart the flight controller after the firmware has been updated.

System Status

Select the following page to view current system status and flight log.



Flight Log

Click on Log button , choose the corresponding log file, it will automatically replay.