ZYX-GS Firmware V1.1 Note

1. Upgrade Note

(1)Control algorithm optimized, stabilization performance improvement.

(2) Stick position mode range: +70°~-70°. (v1.0 +45°~-45°)

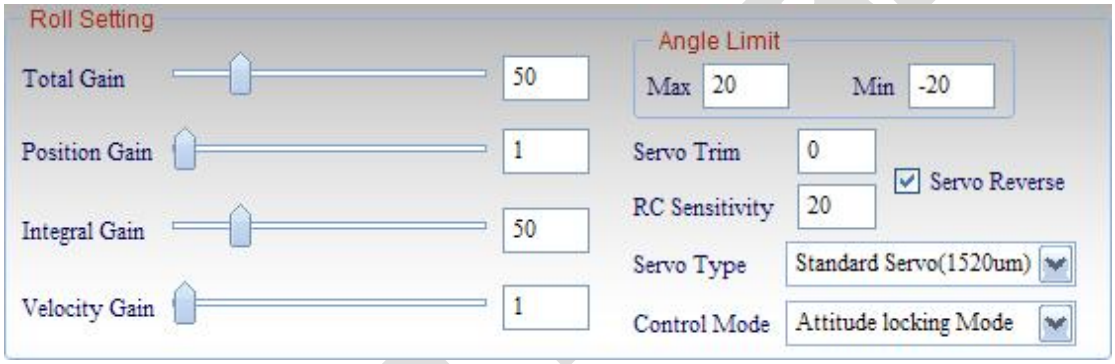
(3) Modified the communication connection timeout time and improved reliability.

2. Gains adjusting method

This method is used for ZYX-GS firmware V1.1 and above version gains adjusting. If you have upgraded your ZYX-GS from V1.0 to V1.1, please re-adjust gains.

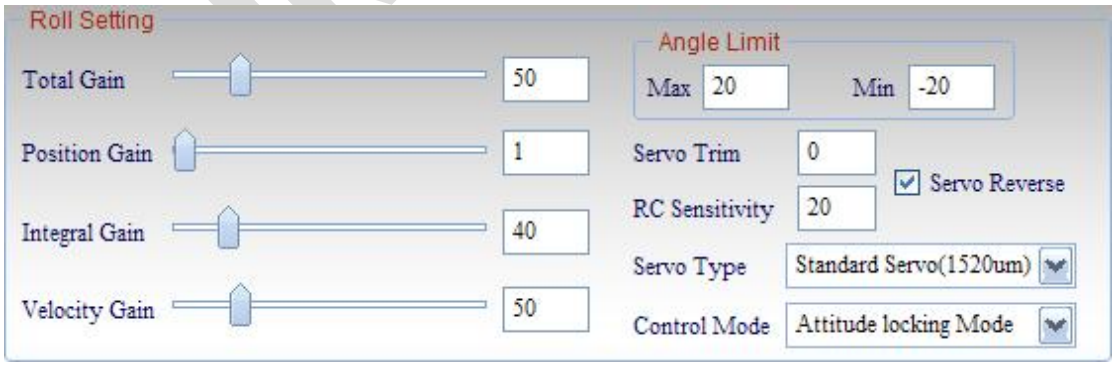
Step1. Integral gain adjusting.

Firstly, you should set total gain a suitable value eg. 50, and set position gain and velocity gain minimum values eg. 1. Increase integral gain until the gimbal shakes when you toggle it. This integral gain is maximum value. The integral gain is reduced by 20% as the final integral gain.



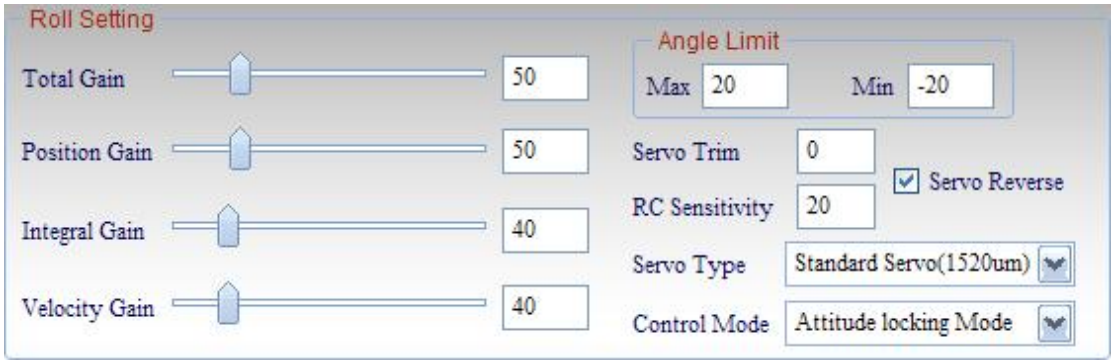
Step2. Velocity gain adjusting

Increase velocity gain until the gimbal shakes when you toggle it. This velocity gain is maximum value. The velocity gain is reduced by 20% as the final velocity gain.



Step3. Position gain adjusting

Increase position gain until the gimbal shakes when you toggle it. This position gain is maximum value. The position gain is reduced by 20% as the final position gain.



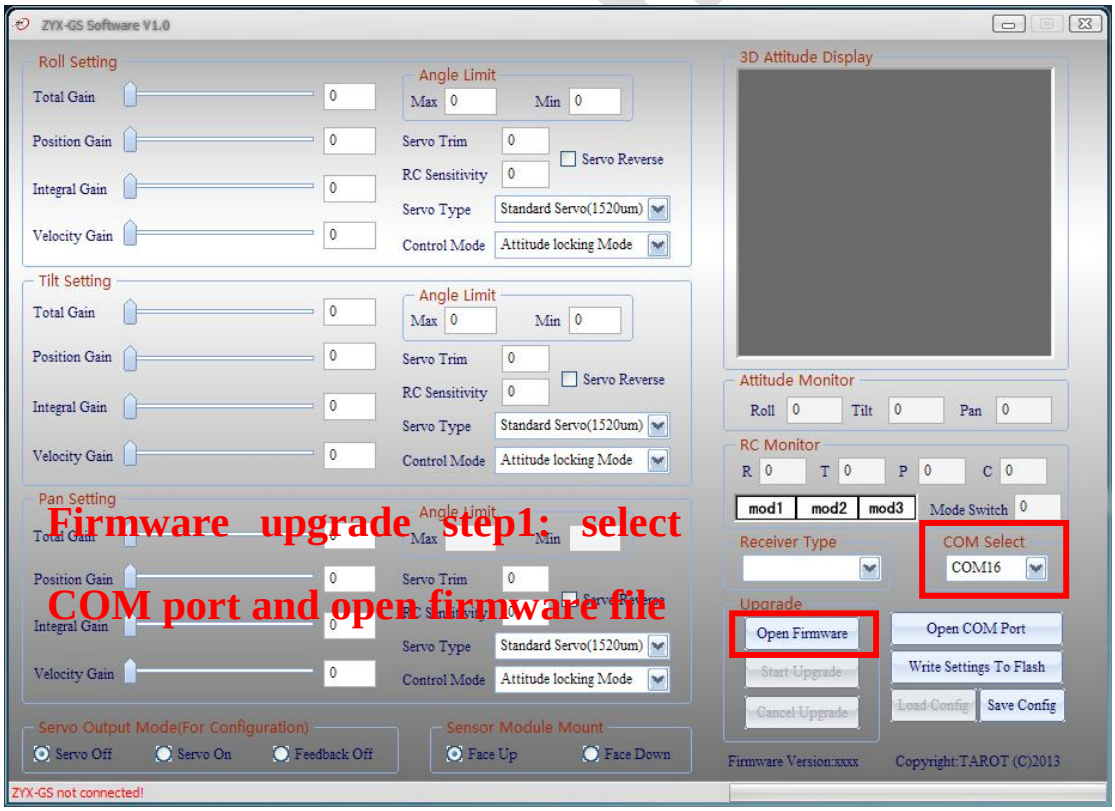
Step4.Gains fine-adjusting

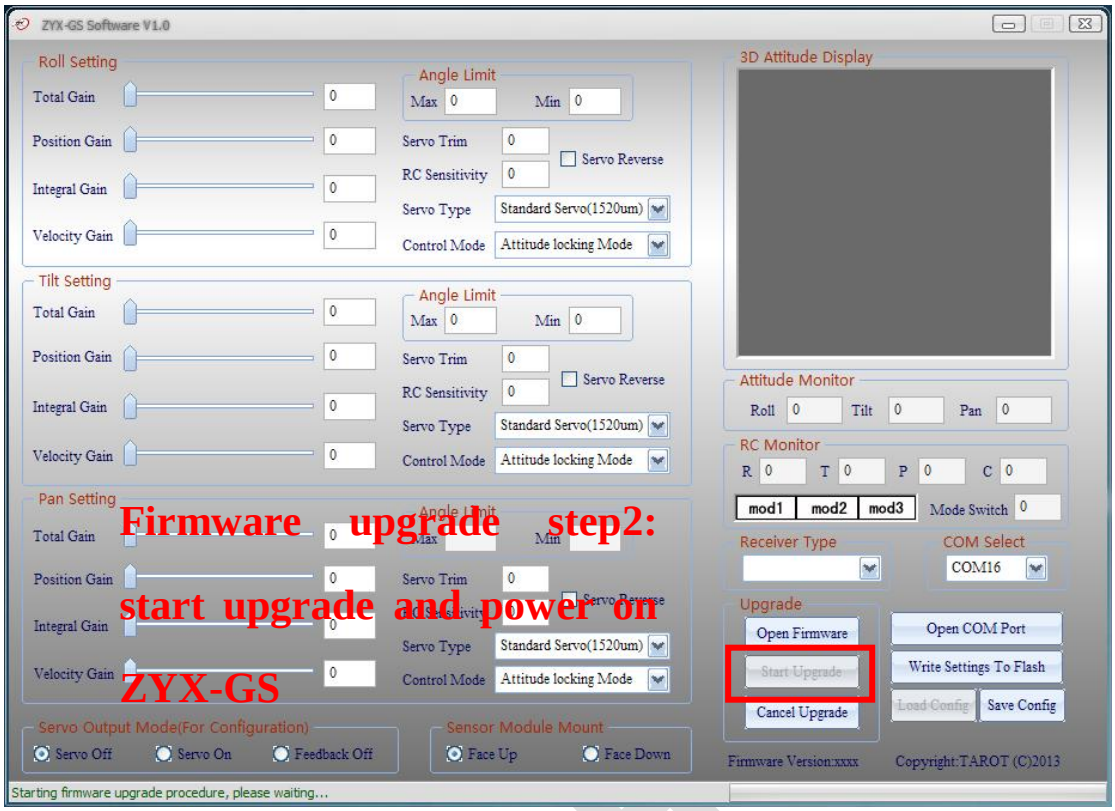
After step1~step3, you should fine-adjust all gains for perfect stabilization performance.

3. How to upgrade firmware

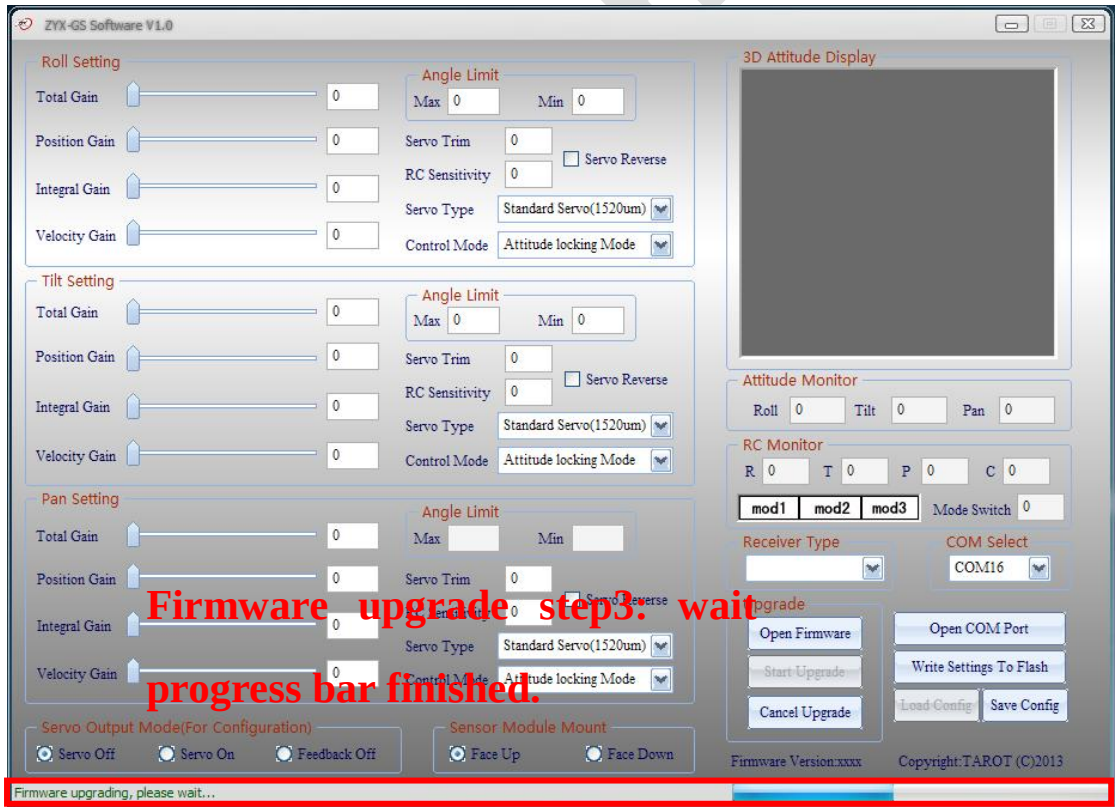
Firstly, you should select right COM port, click “Open Firmware,” choose the firmware file you want to upgrade (do not click” Open COM Port”). After that, click “Start Upgrade”, and then power on ZYX-GS. When the progress bar finished, it means firmware upgrade is successful. After firmware upgrade finished, you can open COM port to connect ZYX-GS to configuration program. The new firmware version can be seen in the window.

NOTICE: Before you upgrade firmware, you must unplug servos from ZYX-GS.





Firmware upgrade step2: start upgrade and power on ZYX-GS



Firmware upgrade step3: wait progress bar finished.